



PERENIAL

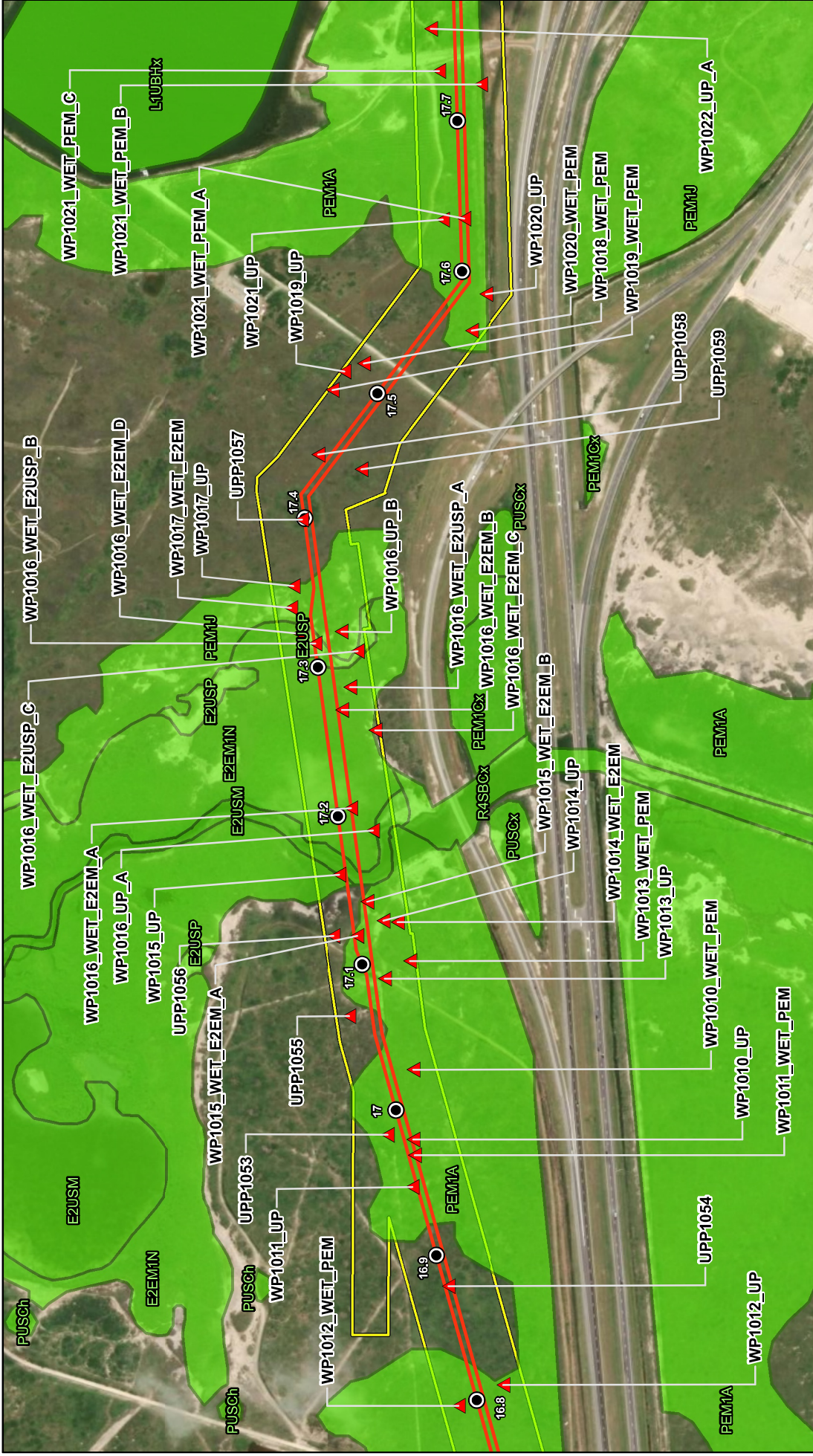
National Wetlands Inventory Map
 Bluewater Texas Terminal LLC
 Bluewater SPM Project
 San Patricio County, Texas

Soil Station ESA
 Milepost County Boundary
 Centerline NWI Wetland

0 500 1,000 Feet

Page 20 of 27 Scale: 1:6,000
 NAD 83 TX SC ft Date: April 2019





PERENIAL

National Wetlands Inventory Map
 Bluewater Texas Terminal LLC
 Bluewater SPM Project
 San Patricio County, Texas

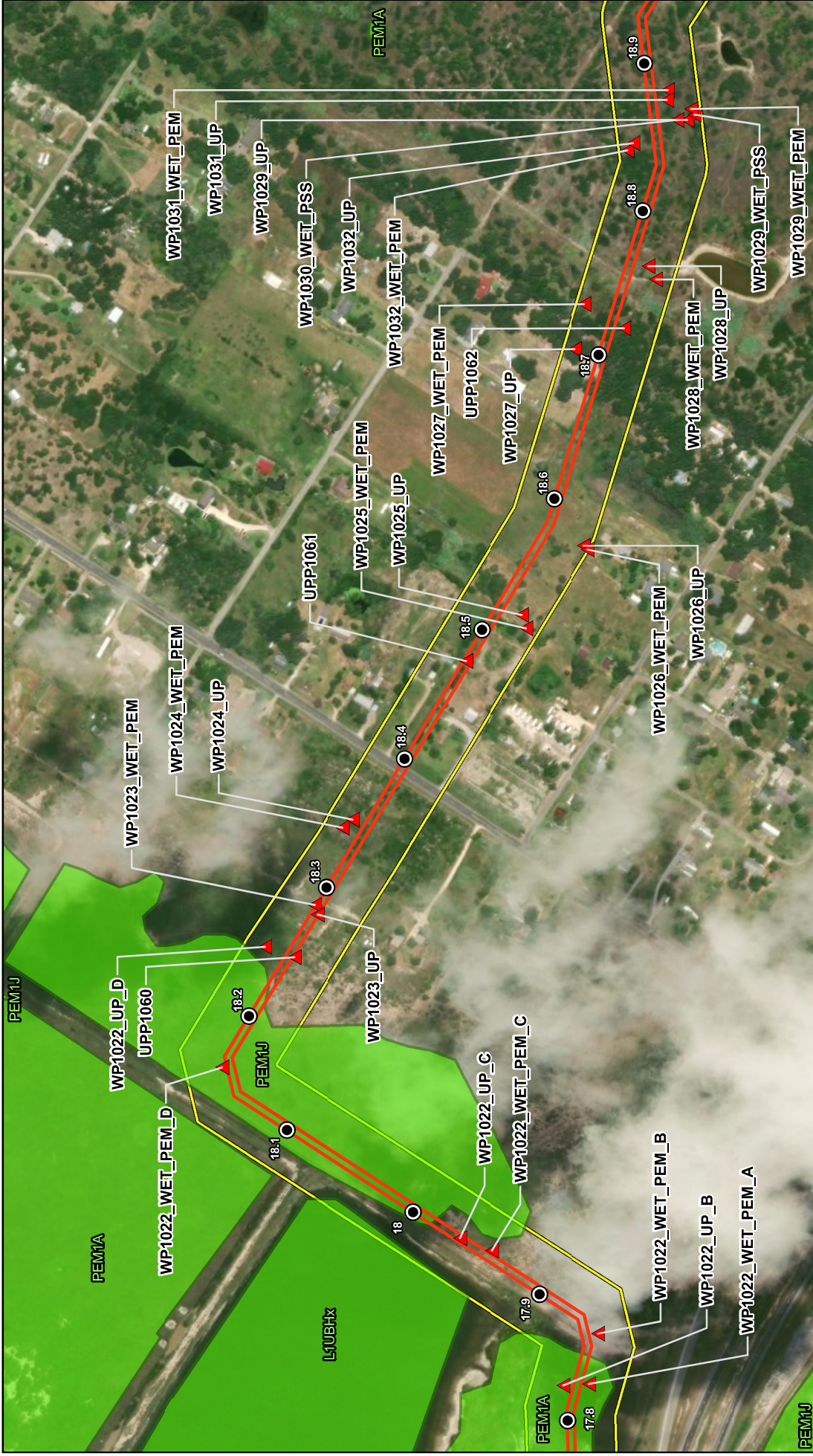
Soil Station (red triangle)
 Milepost (black circle)
 Centerline (red line)

ESA (yellow outline)
 County Boundary (dashed line)
 NWI Wetland (green area)

Scale: 0, 500, 1,000 Feet

North Arrow





PERENIAL

National Wetlands Inventory Map
 Bluewater Texas Terminal LLC
 Bluewater SPM Project
 San Patricio County, Texas

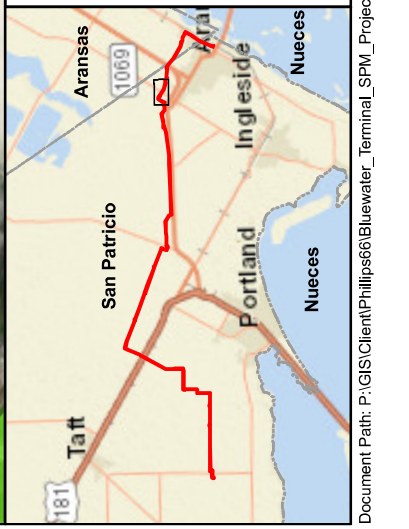
Page 22 of 27
 NAD 83 TX SC ft

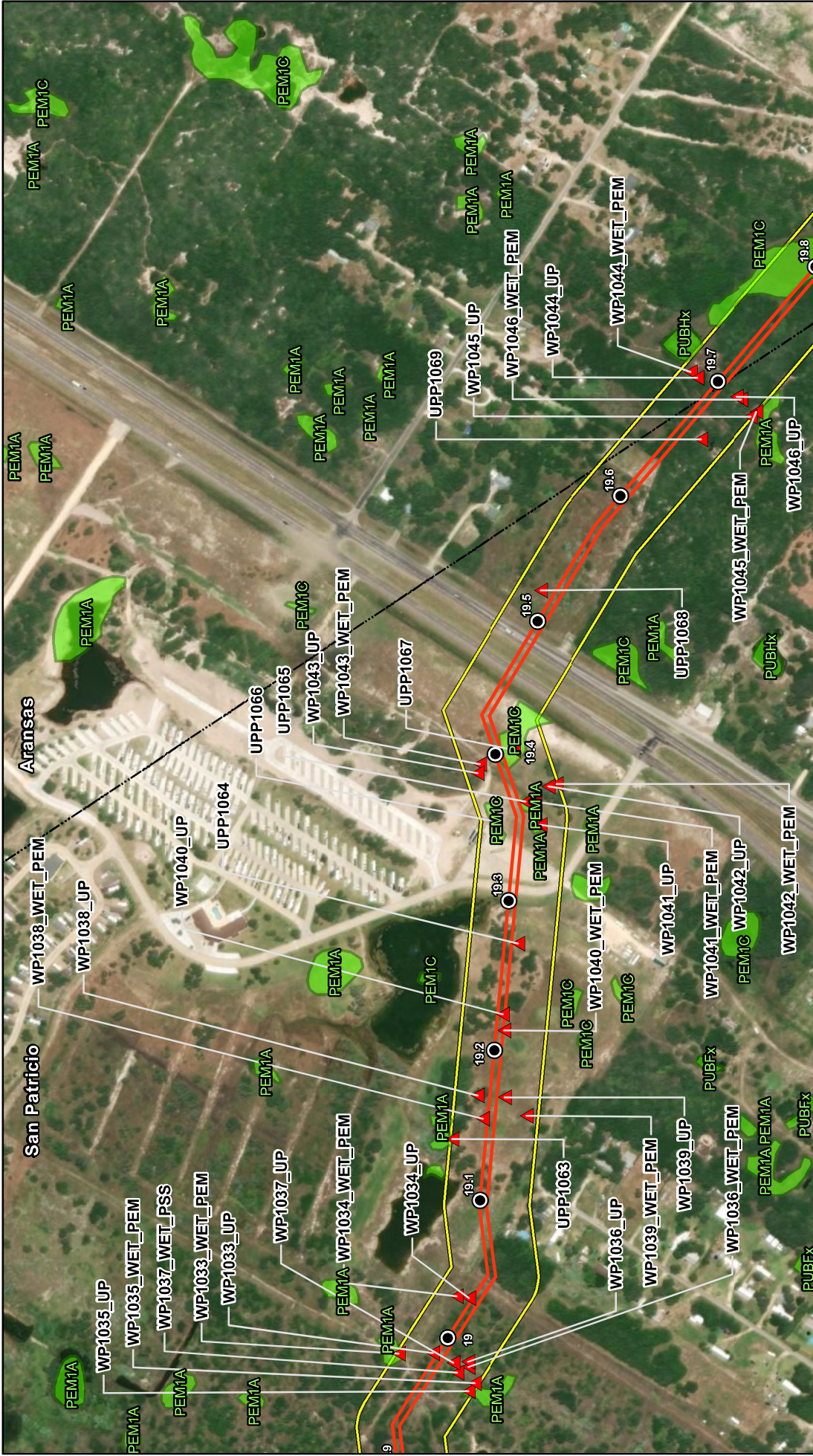
Scale: 1:6,000
 Date: April 2019

Soil Station (red triangle)
 Milepost (black circle)
 Centerline (red line)
 ESA (yellow outline)
 County Boundary (dashed line)
 NWI Wetland (green area)

0 500 1,000 Feet

North Arrow





PERENIAL

National Wetlands Inventory Map
 Bluewater Texas Terminal LLC
 Bluewater SPM Project
 San Patricio & Aransas Counties, Texas

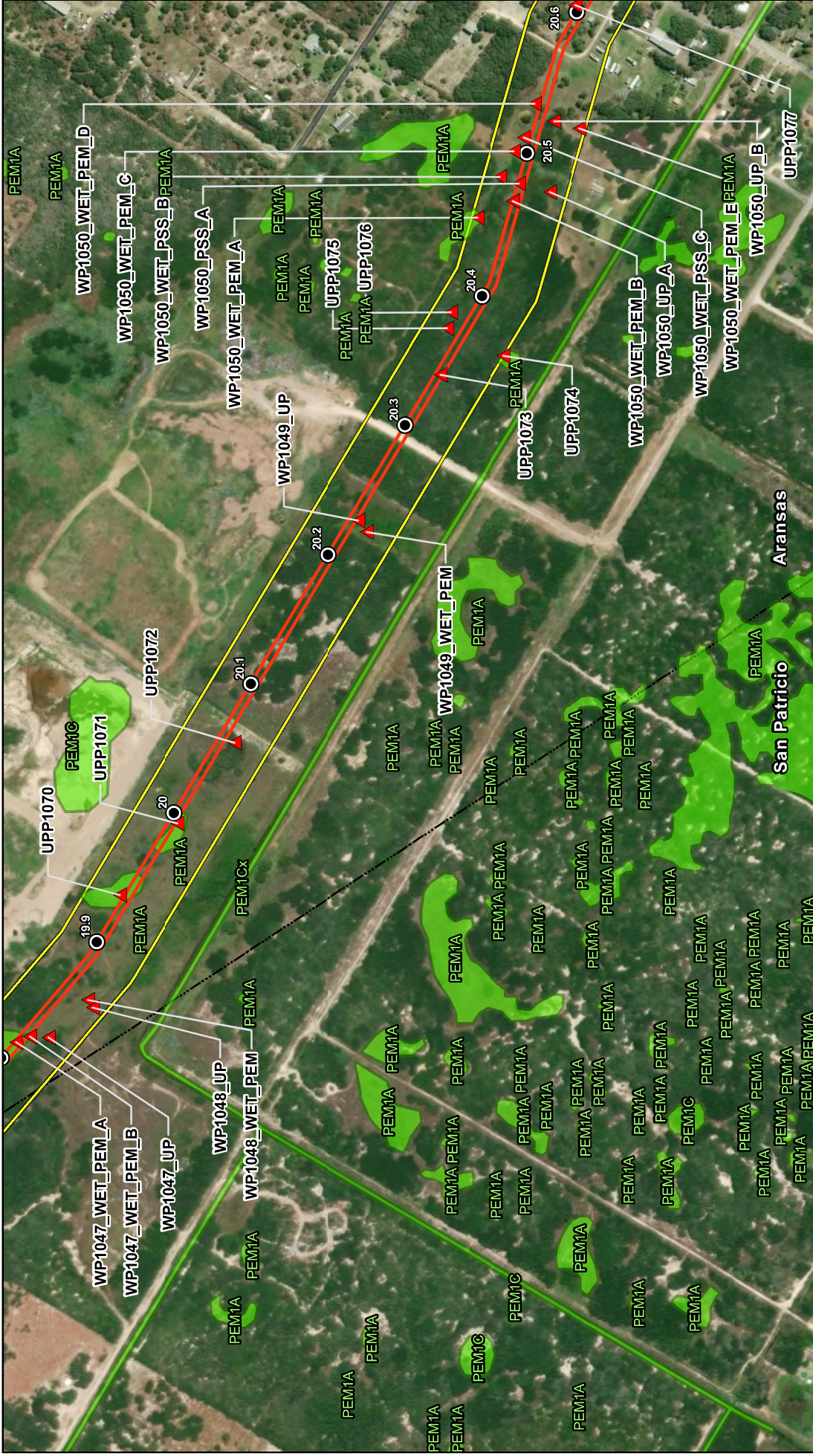
Soil Station ESA

Milepost County Boundary

Centerline NWI Wetland

0 500 1,000 Feet





PERENIAL

National Wetlands Inventory Map
 Bluewater Texas Terminal LLC
 Bluewater SPM Project
 San Patricio & Aransas Counties, Texas

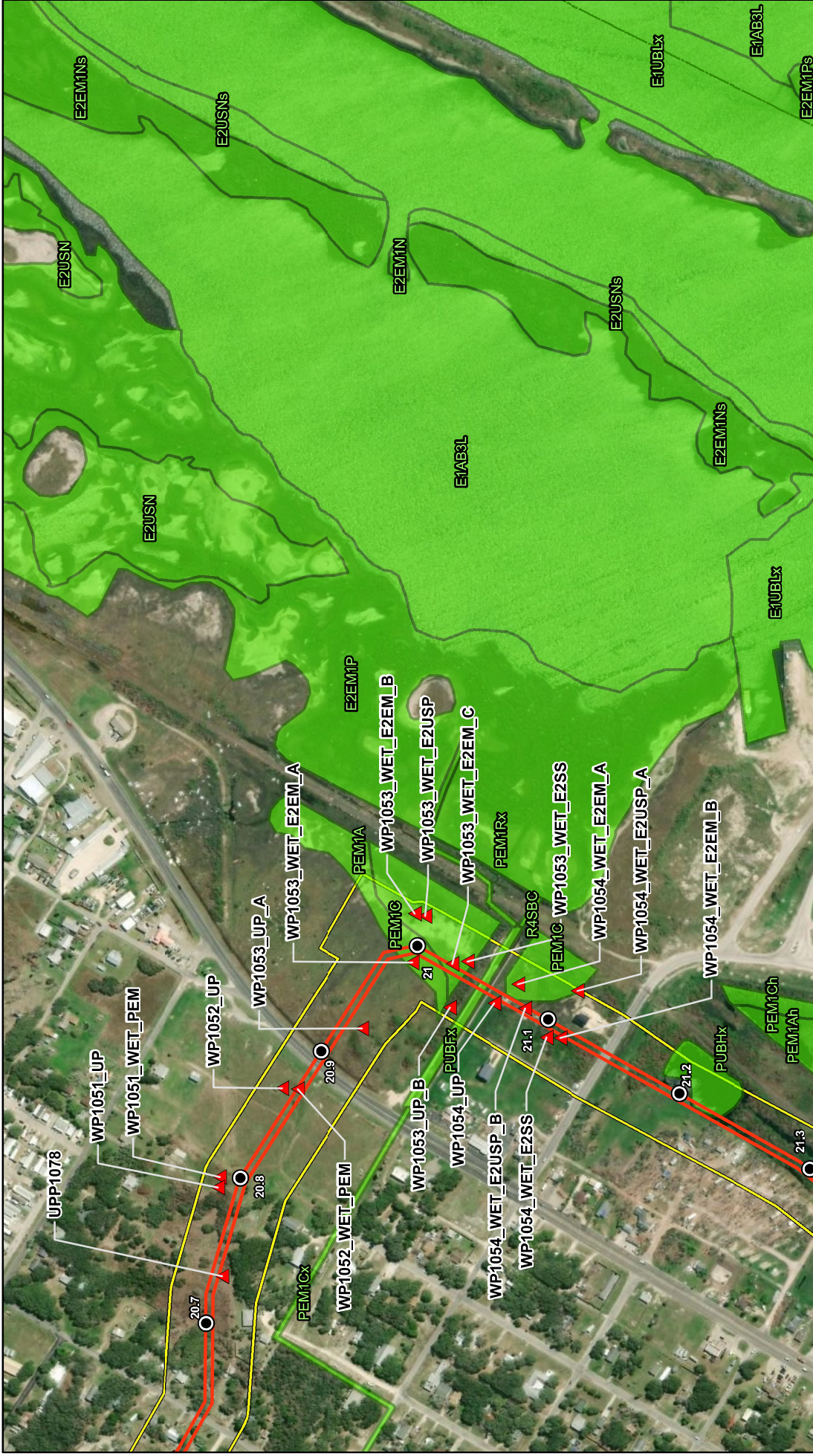
Soil Station ESA

Milepost County Boundary

Centerline NWI Wetland

Scale: 1:6,000
 Date: April 2019





PERENIAL

National Wetlands Inventory Map
 Bluewater Texas Terminal LLC
 Bluewater SPM Project
 Aransas County, Texas

Page 25 of 27
 NAD 83 TX SC ft

Scale: 1:6,000
 Date: April 2019

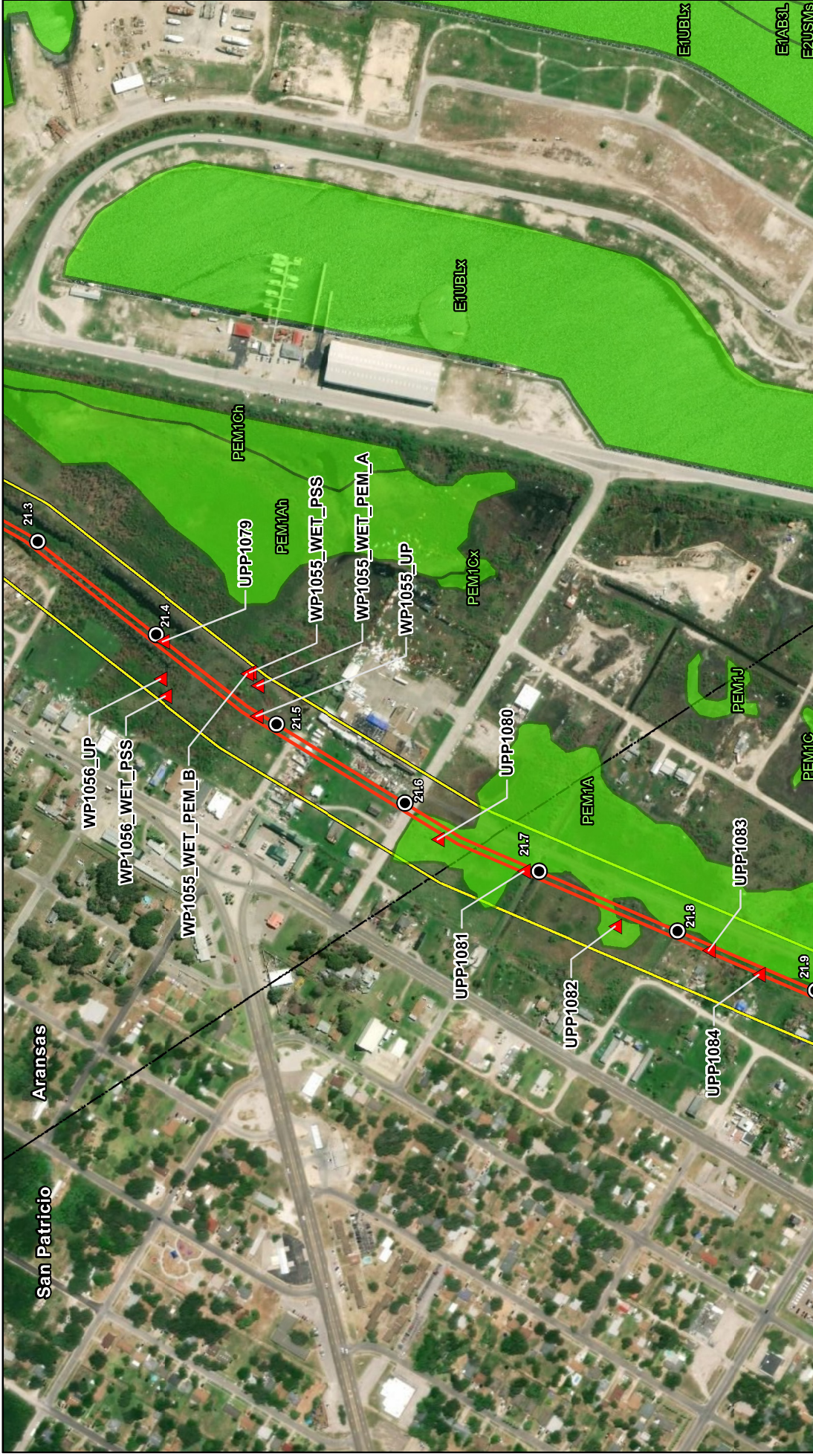
Soil Station ESA

Milepost County Boundary

Centerline NWI Wetland

0 500 1,000 Feet





PERENIAL

National Wetlands Inventory Map
 Bluewater Texas Terminal LLC
 Bluewater SPM Project
 San Patricio & Aransas Counties, Texas

Page 26 of 27
 NAD 83 TX SC ft

Scale: 1:6,000
 Date: April 2019

0 500 1,000 Feet

Soil Station (red triangle)
 Milepost (black circle)
 Centerline (red line)
 ESA (yellow outline)
 County Boundary (dashed line)
 NWI Wetland (green area)

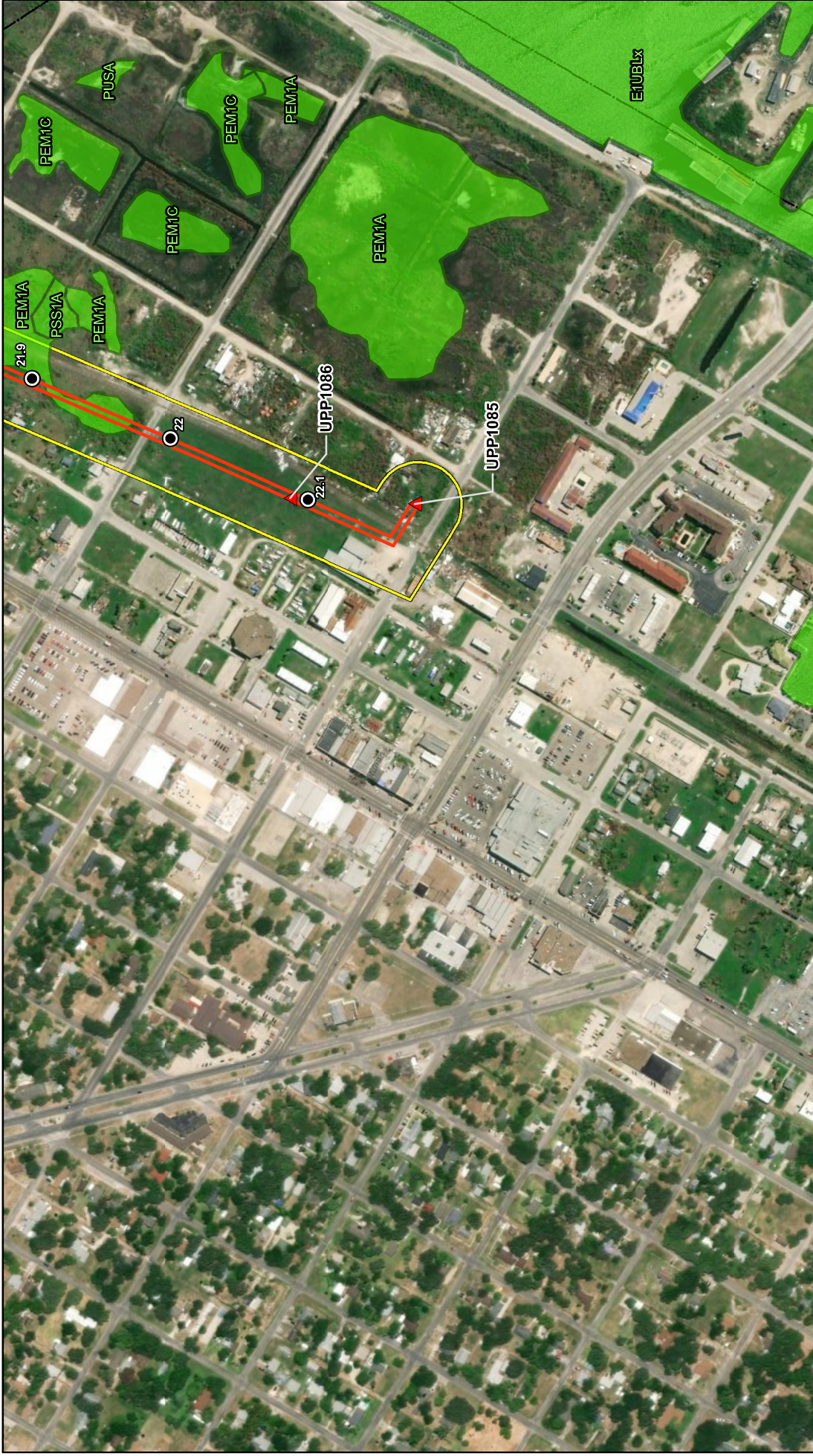
Aransas
 San Patricio
 Ingleside
 Portland
 Nueces


181 1069

Aransas
 San Patricio
 Ingleside
 Portland
 Nueces


Document Path: P:\GIS\Client\Phillips66\Bluewater_Terminal_SPM_Project\Maps\ENV\WR\20190306_WRMXD\4_NWI.mxd







Author: CW






National Wetlands Inventory Map
Bluewater Texas Terminal LLC
Bluewater SPM Project
San Patricio County, Texas



-  Soil Station
-  ESA
-  Milepost
-  County Boundary
-  Centerline
-  NWI Wetland



 0 500 1,000 Feet



Appendix B
Data Sheets (see enclosed electronic copy)

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

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:** UPP1001
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:** 27.910244 **Long:** -97.407705 **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** **significantly 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 Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
|--|--|

Remarks:
Hydrophytic vegetation, hydric soil, and wetland hydrology are not present. This is not a wetland.

HYDROLOGY

| | |
|---|--|
| Wetland Hydrology Indicators: | |
| <u>Primary Indicators (Minimum of one required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <u>Secondary Indicators (Minimum of 2 required)</u> <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |

| | |
|---|---|
| Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): <u>0</u> | Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> |
|---|---|

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: **UPP1001**

| | Absolute % Cover | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---|---------------------------------------|------------------------------------|------------------|
| Tree Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Sapling or Sapling/Shrub Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Shrub Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Herb Stratum (Plot Size : 30) | | | |
| 1. <u>Cynodon dactylon</u> | 2 <input checked="" type="checkbox"/> | 100.0% | FACU |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 9. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 10. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 11. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 12. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 1 20% of Total Cover: 0.4 | 2 | = Total Cover | |
| Woody Vine Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (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 x 1 = 0

FACW species 0 x 2 = 0

FAC species 0 x 3 = 0

FACU species 2 x 4 = 8

UPL species 0 x 5 = 0

Column Totals: 2 (A) 8 (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 ? Yes No

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

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

SOIL

Sampling Point: UPP1001

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|----------------|---------------|-----|----------------|---|-------------------|-----------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Tvpe ¹ | Location ² | | |
| 0 - 16 | 10YR | 3/1 | 100 | | | | Silty Clay | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (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)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

Indicators for Problematic Hydric Soils³:

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

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:** UPP1002
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 % 0.6 °
Subregion (LRR): LRR T **Lat:** 27.910093 **Long:** -97.399802 **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** **significantly 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 Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: Hydrophytic vegetation and hydric soil are not present. This is not a wetland. | |

HYDROLOGY

| | | | |
|---|--|---|--|
| Wetland Hydrology Indicators: <u>Primary Indicators (Minimum of one required; check all that apply)</u> | | <u>Secondary Indicators (Minimum of 2 required)</u> | |
| <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) | |
| Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>0</u> | | Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | |
| Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: | | | |
| Remarks: | | | |

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: **UPP1002**

| | Absolute % Cover | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---|---------------------------------------|------------------------------------|------------------|
| Tree Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Sapling or Sapling/Shrub Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Shrub Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Herb Stratum (Plot Size : 30) | | | |
| 1. <u>Cynodon dactylon</u> | 2 <input checked="" type="checkbox"/> | 100.0% | FACU |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 9. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 10. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 11. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 12. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 1 20% of Total Cover: 0.4 | 2 | = Total Cover | |
| Woody Vine Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (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 x 1 = 0

FACW species 0 x 2 = 0

FAC species 0 x 3 = 0

FACU species 2 x 4 = 8

UPL species 0 x 5 = 0

Column Totals: 2 (A) 8 (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 ? Yes No

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

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

SOIL

Sampling Point: UPP1002

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|----------------|---------------|-----|----------------|---|-------------------|-----------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Tvpe ¹ | Location ² | | |
| 0 - 16 | 10YR | 3/1 | 100 | | | | Silty Clay | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (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)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

Indicators for Problematic Hydric Soils³:

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

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:** UPP1003
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:** 27.910334 **Long:** -97.393075 **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** **significantly 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 Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
|--|--|

Remarks:
Hydrophytic vegetation and hydric soil are not present. This is not a wetland.

HYDROLOGY

| | |
|--|--|
| Wetland Hydrology Indicators: | |
| <u>Primary Indicators (Minimum of one required; check all that apply)</u> <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <u>Secondary Indicators (Minimum of 2 required)</u> <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) |

| | |
|--|---|
| Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): 4 Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> |
|--|---|

Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: **UPP1003**

| | Absolute % Cover | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---|---------------------------------------|------------------------------------|------------------|
| Tree Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Sapling or Sapling/Shrub Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Shrub Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Herb Stratum (Plot Size : 30) | | | |
| 1. <u>Cynodon dactylon</u> | 2 <input checked="" type="checkbox"/> | 100.0% | FACU |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 9. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 10. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 11. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 12. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 1 20% of Total Cover: 0.4 | 2 | = Total Cover | |
| Woody Vine Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (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 x 1 = 0

FACW species 0 x 2 = 0

FAC species 0 x 3 = 0

FACU species 2 x 4 = 8

UPL species 0 x 5 = 0

Column Totals: 2 (A) 8 (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 ? Yes No

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

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

SOIL

Sampling Point: UPP1003

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|----------------|---------------|-----|----------------|---|-------------------|-----------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Tvpe ¹ | Location ² | | |
| 0 - 16 | 10YR | 3/1 | 100 | | | | Silty Clay | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (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)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

Indicators for Problematic Hydric Soils³:

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

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:** UPP1004
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:** 27.910146 **Long:** -97.383997 **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** **significantly 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 Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: Hydrophytic vegetation and hydric soil are not present. This is not a wetland. | |

HYDROLOGY

| | | | |
|---|--|---|--|
| Wetland Hydrology Indicators: <u>Primary Indicators (Minimum of one required; check all that apply)</u> | | <u>Secondary Indicators (Minimum of 2 required)</u> | |
| <input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) | |
| Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Depth (inches): <u>4</u> Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | | Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | |
| Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: | | | |
| Remarks: | | | |

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: **UPP1004**

| | Absolute % Cover | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---|---------------------------------------|------------------------------------|------------------|
| Tree Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Sapling or Sapling/Shrub Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Shrub Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |
| Herb Stratum (Plot Size : 30) | | | |
| 1. <u>Cynodon dactylon</u> | 2 <input checked="" type="checkbox"/> | 100.0% | FACU |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 6. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 7. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 8. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 9. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 10. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 11. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 12. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 1 20% of Total Cover: 0.4 | 2 | = Total Cover | |
| Woody Vine Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 2. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 3. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 4. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 5. _____ | 0 <input type="checkbox"/> | 0.0% | _____ |
| 50% of Total Cover: 0 20% of Total Cover: 0 | 0 | = Total Cover | |

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, or FAC: 0 (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 x 1 = 0

FACW species 0 x 2 = 0

FAC species 0 x 3 = 0

FACU species 2 x 4 = 8

UPL species 0 x 5 = 0

Column Totals: 2 (A) 8 (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 ? Yes No

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

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

SOIL

Sampling Point: UPP1004

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|----------------|---------------|-----|----------------|---|-------------------|-----------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Tvpe ¹ | Location ² | | |
| 0 - 16 | 10YR | 3/1 | 100 | | | | Silty Clay | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (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)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

Indicators for Problematic Hydric Soils³:

- Polyvalue Below Surface (S8) (LRR S, T, U)
- Thin Dark Surface (S9) (LRR S, T, U)
- Loamy Mucky Mineral (F1) (LRR O)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- Marl (F10) (LRR U)
- Depleted Ochric (F11) (MLRA 151)
- Iron-Manganese Masses (F12) (LRR O, P, T)
- Umbric Surface (F13) (LRR P, T, U)
- Delta Ochric (F17) (MLRA 151)
- Reduced Vertic (F18) (MLRA 150A, 150B)
- Piedmont Floodplain Soils (F19) (MLRA 149A)
- Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
- 1 cm Muck (A9) (LRR O)
- 2 cm Muck (A10) (LRR S)
- Reduced Vertic (F18) (outside MLRA 150A,B)
- Piedmont Floodplain Soils (F19) (LRR P, S, T)
- Anomalous Bright Loamy Soils (F20) (MLRA 153B)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

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:** UPP1005
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 % 0.6 °
Subregion (LRR): LRR T **Lat:** 27.909978 **Long:** -97.379904 **Datum:** NAD 83
Soil Map Unit Name: Raymondville clay loam, 0 to 1 percent slopes (RaA) **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** **significantly 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 Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: Hydric soil and wetland hydrology are not present. This is not a wetland. | |

HYDROLOGY

| | | | |
|--|--|---|--|
| Wetland Hydrology Indicators: <u>Primary Indicators (Minimum of one required; check all that apply)</u> | | <u>Secondary Indicators (Minimum of 2 required)</u> | |
| <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) | |
| Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | | Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> | |
| Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: | | | |
| Remarks: | | | |

VEGETATION (Five/Four Strata) - Use scientific names of plants.

Sampling Point: **UPP1005**

| | Absolute % Cover | Dominant Species? Rel.Strat. Cover | Indicator Status |
|---|------------------|--|------------------|
| Tree Stratum (Plot Size : 30) | | | |
| 1. <u>Celtis laevigata</u> | 10 | <input checked="" type="checkbox"/> 100.0% | FACW |
| 2. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 3. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 4. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 5. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 6. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 7. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 8. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 50% of Total Cover: <u>5</u> 20% of Total Cover: <u>2</u> | 10 | = Total Cover | |
| Sapling or Sapling/Shrub Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 2. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 3. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 4. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 5. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 6. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 7. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 8. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u> | 0 | = Total Cover | |
| Shrub Stratum (Plot Size : 30) | | | |
| 1. <u>Prosopis glandulosa</u> | 3 | <input checked="" type="checkbox"/> 100.0% | UPL |
| 2. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 3. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 4. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 5. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 6. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 50% of Total Cover: <u>1.5</u> 20% of Total Cover: <u>0.6</u> | 3 | = Total Cover | |
| Herb Stratum (Plot Size : 30) | | | |
| 1. <u>Helianthus annuus</u> | 20 | <input checked="" type="checkbox"/> 44.4% | FAC |
| 2. <u>Galium aparine</u> | 15 | <input checked="" type="checkbox"/> 33.3% | FACU |
| 3. <u>Chaerophyllum tainturieri</u> | 10 | <input checked="" type="checkbox"/> 22.2% | FAC |
| 4. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 5. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 6. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 7. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 8. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 9. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 10. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 11. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 12. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 50% of Total Cover: <u>23</u> 20% of Total Cover: <u>9</u> | 45 | = Total Cover | |
| Woody Vine Stratum (Plot Size : 30) | | | |
| 1. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 2. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 3. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 4. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 5. _____ | 0 | <input type="checkbox"/> 0.0% | |
| 50% of Total Cover: <u>0</u> 20% of Total Cover: <u>0</u> | 0 | = Total Cover | |

Dominance Test worksheet:

Number of Dominant Species That are OBL, FACW, ro FAC: 0 (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 x 1 = 0

FACW species 10 x 2 = 20

FAC species 30 x 3 = 90

FACU species 15 x 4 = 60

UPL species 3 x 5 = 15

Column Totals: 2 (A) 8 (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 ? Yes No

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

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

SOIL

Sampling Point: UPP1005

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|----------------|---------------|-----|----------------|---|-------------------|-----------------------|------------|---------|
| | Color (moist) | % | Color (moist) | % | Tvpe ¹ | Location ² | | |
| 0 - 16 | 10YR | 3/1 | 100 | | | | Silty Clay | |

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Organic Bodies (A6) (LRR P, T, U)
- 5 cm Mucky Mineral (A7) (LRR P, T, U)
- Muck Presence (A8) (LRR U)
- 1 cm Muck (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)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7) (LRR P, S, T, U)

Indicators for Problematic Hydric Soils³:

- Polyvalue Below Surface (S8) (LRR S, T, U)
 - Thin Dark Surface (S9) (LRR S, T, U)
 - Loamy Mucky Mineral (F1) (LRR O)
 - Loamy Gleyed Matrix (F2)
 - Depleted Matrix (F3)
 - Redox Dark Surface (F6)
 - Depleted Dark Surface (F7)
 - Redox Depressions (F8)
 - Marl (F10) (LRR U)
 - Depleted Ochric (F11) (MLRA 151)
 - Iron-Manganese Masses (F12) (LRR O, P, T)
 - Umbric Surface (F13) (LRR P, T, U)
 - Delta Ochric (F17) (MLRA 151)
 - Reduced Vertic (F18) (MLRA 150A, 150B)
 - Piedmont Floodplain Soils (F19) (MLRA 149A)
 - Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
- 1 cm Muck (A9) (LRR O)
 - 2 cm Muck (A10) (LRR S)
 - Reduced Vertic (F18) (outside MLRA 150A,B)
 - Piedmont Floodplain Soils (F19) (LRR P, S, T)
 - Anomalous Bright Loamy Soils (F20) (MLRA 153B)
 - Red Parent Material (TF2)
 - Very Shallow Dark Surface (TF12)
 - Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (If observed):

Type: _____
 Depth (inches): _____

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

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:** UPP1006
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):** Convex **Slope:** 3 % 1.7 °
Subregion (LRR): LRR T **Lat:** 27.909526 **Long:** -97.37683 **Datum:** NAD 83
Soil Map Unit Name: Raymondville clay loam, 1 to 3 percent slopes (RaB) **NWI Classification:** PUBFh

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation , **Soil** , **or Hydrology** **significantly 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 Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/> |
| Remarks: Hydric soil is not present. This is not a wetland. | |

HYDROLOGY

| | | | |
|---|--|---|--|
| Wetland Hydrology Indicators: <u>Primary Indicators (Minimum of one required; check all that apply)</u> | | <u>Secondary Indicators (Minimum of 2 required)</u> | |
| <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9) | <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Marl Deposits (B15) (LRR U) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks) | <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5) <input type="checkbox"/> Sphagnum moss (D8) (LRR T, U) | |
| Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ | | Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/> | |
| Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: | | | |
| Remarks: | | | |