| | FORM – Atlantic and Gulf Coastal Plain Region |
|--|--|
| Project/Site: A CP | City/County: Chesapeake Sampling Date: 09/30/18 |
| Applicant/Owner: DOMINION | State: VA Sampling Point: Wcho 004- |
| | Section, Township, Range: N/A |
| 1 | Local relief (concave, convex, none): CONVEX Slope (%):0-3 |
| Subregion (LRR or MLRA): LRR1 Lat: 361 | 76178 Long: 76.36498 Datum: WGS8: |
| | |
| Soil Map Unit Name: Dragston-Tomotley Lor | , |
| Are climatic / hydrologic conditions on the site typical for this time of you | |
| Are Vegetation, Soil, or Hydrology significantly | |
| Are Vegetation, Soil, or Hydrology naturally pr | oblematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing | g sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Yes Yes No | Is the Sampled Area within a Wetland? Yes No |
| , , , | Based on sept. 22 Drought Monitor. |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B1 | 3) Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B1 | |
| Saturation (A3) Hydrogen Sulfide (| |
| | neres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduc | |
| Drift Deposits (B3) Recent Iron Reduction Algal Mat or Crust (B4) Thin Muck Surface | tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) (C7) Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in F | |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | N1/A |
| Surface Water Present? Yes No Depth (inches | |
| Water Table Present? Yes No Depth (inches |): 720 |
| Saturation Present? Yes No Depth (inches (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photo | os, previous inspections), if available: |
| Damada | |
| Remarks: | |
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VEGETATION (Four Strata) – Use scientific names of plants.

| ana.c. | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|----------|---------------|-------------|--|
| Tree Stratum (Plot size: 30 X 30 ++) | | Species? | | Number of Dominant Species |
| 1. Acer cubrum | 30 | <u> </u> | FAC | That Are OBL, FACW, or FAC: (A) |
| 2. Liriodendron tulipitera | 20 | Y | FA-CU | Total Number of Dominant |
| 3. Liquidambar styraliflua | 5 | 7 | FAC | Species Across All Strata: (B) |
| 4. Pinus taeda | 10 | 7 | FAC | , |
| | | | 1., | Percent of Dominant Species That Are OBL FACW or FAC: 57 (A/B) |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| 8 | | | | OBL species x 1 = |
| | 60 | = Total Cov | er 2 | FACW species x 2 = |
| 50% of total cover: <u>32</u> - | 20% of | total cover | 10 | |
| Sapling/Shrub Stratum (Plot size: 30 x30 ft) | 1 10 | - 1 | -00 | FAC species x 3 = |
| 1. Acer rubrum | 10 | N | FAC | FACU species x 4 = |
| 2. Liriodendron tulipifera | 5 | N | FACU | UPL species x 5 = |
| 3. Carya glabra | 20 | V | FACU | Column Totals: (A) (B) |
| 4. Callicar on a mericana | 69 | N | FACU | |
| 5. Magnolia Virginiana | 10 | -13 | FACW | Prevalence Index = B/A = |
| 5. Magnoria Virginicaro | 10 | 1 | FILW | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.01 |
| | 50 | = Total Cov | er | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: 25 | 20% of | total cover | 10 | |
| Herb Stratum (Plot size: 30 X30++) | | , | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Carya glabra | 15 | Y. | FACY | be present, unless disturbed or problematic. |
| 2. Vaccinium Losymbosum | 5 | V. | FACW | Definitions of Four Vegetation Strata: |
| | | 11.00 | | AT SOME |
| 3 | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of height. |
| 5 | | | | neight. |
| 6 | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | 110000 | | Herb - All herbaceous (non-woody) plants, regardless |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| | | | Topic St | , man |
| 12 | 00 | | | 2 |
| Ar | | = Total Co | 4 | |
| 50% of total cover: | 20% 01 | total cover | - | |
| Woody Vine Stratum (Plot size: 30 X 30 Ft) | 2 | V | tenc | A STATE OF THE STA |
| 1. Vitis rotundifolia | - | | FAC | |
| 2. Smilax rotunditolia | 5 | 4 | FAC | III 12 |
| 3. | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| J | 9 | = Total Co | /er | Vegetation |
| A A | | | 14 | Present? Yes No |
| 50% of total cover: | _ | f total cover | | |
| Remarks: (If observed, list morphological adaptations belo | ow). | | | |
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SOIL

| Profile Description: (Describe to the depth needed to document the Indicator or confirm | n the absence of Indicators.) |
|---|--|
| Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type Loc² | Texture Remarks |
| (inches) Color (moist) % Color (moist) % Type Loc (1) - 7 2 0 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Cana |
| 100 1010 100 | 201101 |
| 7-20 1048 613 100 | sand |
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| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) | Indicators for Problematic Hydric Soils ³ : |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, | |
| 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) Anomalous Bright Loamy Soils (F20) |
| Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) | (MLRA 153B) |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) | Red Parent Material (TF2) |
| Muck Presence (A8) (LRR U) Redox Depressions (F8) | Very Shallow Dark Surface (TF12) |
| 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) | Other (Explain in Remarks) |
| Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) | 0.930 |
| Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P | |
| Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) | wetland hydrology must be present, |
| Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) | unless disturbed or problematic. |
| Sandy Gleyed Matrix (S4) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B Piedmont Floodplain Soils (F19) (MLRA 1 | |
| Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 1 Stripped Matrix (S6) Anomalous Bright Learny Soils (F20) (MLR | |
| Dark Surface (S7) (LRR P, S, T, U) | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Restrictive Layer (if observed): | |
| Type: | \7 |
| Depth (inches): | Hydric Soli Present? Yes No |
| Remarks: | |
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Upland data point wcho004_u facing east.



Upland data point wcho004_u facing southeast.

| Project/Site: ACP Applicant/Owner: Dominion Investigator(s): L. Roper, Landform (hillslope, terrace, etc.): his Subregion (LRR or MLRA): LRF Soil Map Unit Name: Partolus Are climatic / hydrologic conditions on the Are Vegetation, Soil, or he Are Vegetation, Soil, or he | M. Smith Sect Flislope Loca T Lat: 36.7 Dumy fine 50 e site typical for this time of year? Hydrology significantly disturbed. | Station, Township, Range: | ne): CONVE 76,3649 NWI classification no, explain in Rema | 5 Datum: W(758) n: NA prks.) ent? Yes X No |
|--|--|--|--|---|
| SUMMARY OF FINDINGS - At | tach site map showing sar | mpling point locations | s, transects, in | portant features, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: | Yes No Yes No Yes No | Is the Sampled Area within a Wetland? | Yes | No <u>X</u> |
| HYDROLOGY Wetland Hydrology Indicators: | | Se | THE PROPERTY OF THE PARTY OF THE | (minimum of two required) |
| Primary Indicators (minimum of one is a Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations: | Aquatic Fauna (B13) Marl Deposits (B15) (LR Hydrogen Sulfide Odor (Oxidized Rhizospheres Presence of Reduced Irr Recent Iron Reduction ii Thin Muck Surface (C7) Other (Explain in Remar | (C1) along Living Roots (C3) on (C4) n Tilled Soils (C6) | Drainage Pattern Moss Trim Lines Dry-Season Wate Crayfish Burrows | ted Concave Surface (B8) s (B10) (B16) er Table (C2) s (C8) e on Aerial Imagery (C9) ition (D2) (D3) t (D5) |
| Surface Water Present? Yes | | 3 Wetland Hyd | drology Present? | Yes No <u>X</u> |
| Remarks: | | | | |

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

| | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|------------|----------------------------|-----------|--|
| Tree Stratum (Plot size: 30++x30++) | % Cover | Species? | | Number of Dominant Species |
| 1. Platanus occidentalis | 15 | 7 | FACW | That Are OBL, FACW, or FAC: (A) |
| 2. Liriodendron tulipifera | 15 | Y | FACU | 7 |
| 3. Quercus falcata | 15 | 7 | FACU | Total Number of Dominant Species Across All Strata: (B) |
| 4. Acer rubrum | | - y | FAC | Opedies Across Air otrata. |
| | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 67 1/1 (A/B) |
| 5. | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7. | | | | Total % Cover of: Multiply by: |
| 8 | | | | OBL species x 1 = |
| | | = Total Cov | | [4] 아이트 (1) 11 (1) 12 (1) 12 (1) 12 (1) 12 (1) 12 (1) 13 (1) 14 (1) 15 |
| 50% of total cover: 30 | 20% of | total cover | 12 | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30f+ x 30f+) | | | | FAC species x 3 = |
| 1. Ligustrum sinense. | 25 | 1 | FAC | FACU species x 4 = |
| 2. Aralia spinosa | 1D | N | FAC | UPL species x 5 = |
| 3. Aver rubrum | 25 | 7 | FAC | Column Totals: (A) (B) |
| | | | 0.00 | |
| 4. | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7. | | | | 2 - Dominance Test is >50% |
| 8. | | | | 3 - Prevalence Index is ≤3.01 |
| | 60 | = Total Cov | er | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: 30 | 20% of | total cover | | |
| Herb Stratum (Plot size: 30f4 x 30f4) | | | | 1 |
| 1. Rubus acquitus | 40 | 4. | FAC | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2. Asplenium platyneuron | | N | FACU | Definitions of Four Vegetation Strata: |
| | | | | Definitions of Four Vegetation Strata. |
| 3. Arundinaria gignottea | _5_ | _N_ | FACW | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | 4.5 | more in diameter at breast height (DBH), regardless of |
| 5. | | | | height. |
| 6. | | | 234 1511 | Sapling/Shrub - Woody plants, excluding vines, less |
| 7. | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | - A TO THE | | | Hash All bashacous (non woods) plants, regardless |
| 9. | | | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| | | | | |
| 10 | | 7,000 | - | Woody vine – All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| 12. | | | | |
| | | = Total Cov | | |
| 50% of total cover: 27.5 | 20% of | total cover | -11 | |
| Woody Vine Stratum (Plot size: 30f+ x 30f+) | | | | |
| 1. Smilax rotundifolia | 40 | Y | FAC | |
| 2. Lonilera inponica | 40 | Y | FACU | |
| 3. Gelsemium sempervirens | ID | N | FAC | |
| 4 | 1000 | | 1,,- | |
| 4 | | | | |
| b | - an | | | |
| 11- | | | . ^ | V |
| 50% of total cover: 45 | 20% of | total cover | : 18_ | 163 |
| 5 | 20% of | = Total Cov total cover | . ^ | Hydrophytic Vegetation Present? Yes No |

| epth ches) | Matrix Color (moist) | % | Color (moist) | Features % | _Type ¹ _ | Loc ² | Texture | Re | marks |
|--|--|--|---|---|--|---------------------------------|--|--|--|
| -20 | 104R 3/2 | 100 | | | | | fine SL | | 100 |
| - | | | | | | | | | |
| | | | | | | | | | |
| pe: C=Co | oncentration, D=Dep | letion, RM= | Reduced Matrix, MS | =Masked | Sand Gra | ains. | ² Location: P | L=Pore Lining, I | M=Matrix. |
| Histosol Histic Ep Black His Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast Pr Sandy M | (A1) sipedon (A2) stic (A3) n Sulfide (A4) I Layers (A5) Bodies (A6) (LRR P cky Mineral (A7) (LI esence (A8) (LRR U ck (A9) (LRR P, T) I Below Dark Surfac irk Surface (A12) rairie Redox (A16) (I lucky Mineral (S1) (I | , T, U) RR P, T, U) I) e (A11) MLRA 150A | Delta Ochric (| ow Surface (S9) Mineral (d Matrix (Ifrix (F3)) Surface (F4) Surface (Second (F8)) Fic (F11) Second (F11) Fic (F13) (ML F17) (ML | (MLRA 15) (MRR P, T, T) (MLRA 15) (MLRA 15) | T, U) O) 51) LRR O, P, | J) 1 cm Mu 2 cm Mu 2 cm Mu Reduced Piedmon Anomalo (MLRA Red Pare Very Sha Other (E: | at Floodplain Soi ous Bright Loamy (a 153B) ent Material (TF) allow Dark Surfa (xplain in Remarl | b) b) utside MLRA 150A, ls (F19) (LRR P, S, y Soils (F20) 2) ce (TF12) ks) tic vegetation and ust be present, |
| Sandy R Stripped Dark Sur | eleyed Matrix (S4) edox (S5) Matrix (S6) face (S7) (LRR P, S | | Reduced Vert Piedmont Floo Anomalous Br | odplain S | oils (F19) | (MLRA 14 | | 53D) | |
| Sandy R Stripped Dark Sur strictive L Type: | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No X |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) rface (S7) (LRR P, S | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | resent? Yes | No <u>X</u> |
| Sandy R Stripped Dark Sui strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No <u>X</u> |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No <u>X</u> |
| Sandy R Stripped Dark Sui strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No_ <u>X</u> |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No <u>X</u> |
| Sandy R Stripped Dark Sui trictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No_ <u>X</u> _ |
| Sandy R Stripped Dark Sur trictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No X |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No X |
| Sandy R Stripped Dark Sui strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No X |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No X |
| Sandy R Stripped Dark Sur strictive L Type: | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No X |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No X |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No X |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No X |
| Sandy R Stripped Dark Sur strictive L Type: Depth (inc | edox (S5) Matrix (S6) fface (S7) (LRR P, S Layer (if observed) | | Piedmont Floo | odplain S | oils (F19) | (MLRA 14 | 99A) RA 149A, 153C, 1 | | No X |



Upland data point wcho004_u2 facing east.



Upland data point wcho004_u2 facing south.

Photo Sheet 2 of 2

| Project/Site: ACP | City/County: Chesapeake Sampling Date: 12/14/15 |
|---|---|
| Applicant/Owner: Dominion | State: VA Sampling Point: WCho Dile_u |
| . 0 - 0 - 11 | Section, Township, Range: NDNC |
| | ocal relief (concave, convex, none): None Slope (%): 0 -21 |
| Landform (hillslope, terrace, etc.): + at L | 7) U 277 Slope (%). U 27 |
| | 764322 Long: -76.34590 Datum: W/r589 |
| Soil Map Unit Name: Tomotley - Deloss comple | x, b-2% slopes NWI classification: PEM |
| Are climatic / hydrologie conditions on the site typical for this time of year | r? Yes No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology significantly d | disturbed? Are "Normal Circumstances" present? Yes No |
| Are Vegetation, Soil, or Hydrology naturally prob | |
| | sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? YesNo | |
| Hydric Soil Present? Yes No | Is the Sampled Area |
| Wetland Hydrology Present? Yes No | within a Wetland? Yes No |
| Remarks: | |
| powerline easment | |
| power line easment | |
| | |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | |
| High Water Table (A2) Marl Deposits (B15) | [41] (42] [14] [15] [15] [15] [15] [15] [15] [15] [15 |
| Saturation (A3) Hydrogen Sulfide Od | |
| | res along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduce | |
| Drift Deposits (B3) Recent Iron Reduction | on in Tilled 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 Re | marks) 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: | . 100 |
| Surface Water Present? Yes No Depth (inches): | NA |
| Water Table Present? Yes No Depth (inches): | 720 |
| Saturation Present? Yes No Depth (inches): | Wetland Hydrology Present? Yes No No |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos | previous inspections), if available: |
| () | |
| Remarks: | |
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VEGETATION (Four Strata) - Use scientific names of plants.

| - 01 - C | Absolute Dominant Indicator | Dominance Test worksheet: |
|---|-----------------------------|--|
| Tree Stratum (Plot size: 30 ft x 30 ft) 1. None | % Cover Species? Status | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2 | | Total Number of Dominant Species Across All Strata: (B) |
| 4 5 | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 6 | | |
| 7 | | Prevalence Index worksheet: |
| 8 | | Total % Cover of: Multiply by: |
| | = Total Cover | OBL species x 1 = |
| 50% of total cover: | 20% of total cover: | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30ff x30ff) | | FAC species x 3 = |
| | | FACU species x 4 = |
| 2. | | UPL species x 5 = |
| 3. | | Column Totals: (A) (B) |
| 4. | | Prevalence Index = B/A = |
| 6. | | Hydrophytic Vegetation Indicators: |
| 7 | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | × 2 - Dominance Test is >50% |
| 8. | Total Cover | 3 - Prevalence Index is ≤3.0¹ |
| 50% of total cover: | 20% of total cover: | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Herb Stratum (Plot size: 30ff x30ff) | 20 V 1 | ¹Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | | be present, unless disturbed or problematic. |
| 2. Rubus arqutus | 10 N FAC | Definitions of Four Vegetation Strata: |
| 3. Dicharthelion acuminatum | 30 Y FAL | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. Andropogon glomeratus | 5 N FACW | more in diameter at breast height (DBH), regardless of |
| 5. Saccharum giganteum | 10 N FACW | height. |
| 6. Pinus taeda | 5 N FAC | Sapling/Shrub - Woody plants, excluding vines, less |
| 7. Eupatorium capillitolium | 20 Y FACU | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. Juneus effusos | 15 N DBL | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 9. | | of size, and woody plants less than 5.20 it tail. |
| 10 | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | height. |
| . 12 | 105 | |
| 1 | 125 = Total Cover | |
| | 2.5 20% of total cover: 2.5 | |
| Woody Vine Stratum (Plot size: 30ft ×30ft) | | |
| 1. NONE | | |
| 2, | | |
| 3. | | |
| 4. | | |
| 5. | | Hydrophytic |
| | O = Total Cover | Vegetation |
| 50% of total cover: | | Present? Yes No |
| Remarks: (If observed, list morphological adaptations bel | | |
| Nemarks. (II observed, list marphological adaptations bet | S#). | |
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| Profile Des | cription: (Describe | to the dept | h needed to docu | ment the I | Indicator | or confirm | the absence of In | dicators.) |
|--|--|--------------|-----------------------------|------------|-----------|------------------|--|--|
| Depth | Matrix | - | | ox Feature | | | | |
| (inches) | Color (moist) | % | Color (moist) | % | Type | Loc ² | Texture | Remarks |
| 0-8 | 1046-11 | 100 | | | | | SL | |
| 8-20 | TOYPall | 98 | 104R4/6 | | C | PL | SL | |
| | | | | | | | | |
| ASSESSED FOR THE PARTY OF THE P | | | | | | | | |
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| | | | | | | | | |
| ¹Type: C=C | oncentration, D=Dep | letion, RM=I | Reduced Matrix, M | S=Masked | Sand Gr | ains. | ² Location: PL=I | Pore Lining, M=Matrix. |
| | Indicators: (Applic | | | | | | | roblematic Hydric Solls ³ : |
| Histoso | | | Polyvalue Be | | | .RR S. T. U) | 1 cm Muck | (A9) (LRR O) |
| Commence of the Commence of th | pipedon (A2) | | Thin Dark St | | | | | (A10) (LRR S) |
| | istic (A3) | | Loamy Muck | | | | | ertic (F18) (outside MLRA 150A,B) |
| Control of the Contro | en Sulfide (A4) | | Loamy Gleye | | | | | oodplain Soils (F19) (LRR P, S, T) |
| | d Layers (A5) | | Depleted Ma | | | | Anomalous | Bright Loamy Soils (F20) |
| 12 To | Bodies (A6) (LRR P | | X Redox Dark | | | | (MLRA 15 | |
| Laurence 95, 218 (1951) (1961) | ucky Mineral (A7) (LF | | Depleted Da | | | | A STATE OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF T | Material (TF2) |
| | resence (A8) (LRR U |) | Redox Depre | | B) | | | w Dark Surface (TF12) |
| Committee of the Commit | uck (A9) (LRR P, T) | | Marl (F10) (L | | | -41 | Other (Expla | ain in Remarks) |
| Charles of the Control of the Contro | d Below Dark Surface | e (A11) | Depleted Oc | | | | D 3Indicators | of hydrophytic vegetation and |
| The second secon | ark Surface (A12) rairie Redox (A16) (N | AI DA 150A | Iron-Mangan Umbric Surfa | | | | | nydrology must be present, |
| Contract of the Contract of th | Aucky Mineral (S1) (L | | D # 611 | | | , 0) | | sturbed or problematic. |
| The second of the second secon | Gleyed Matrix (S4) | | Delta Ochric Reduced Ve | | | OA. 150B) | diffess di | starbed of problematic. |
| | Redox (S5) | | Piedmont Flo | | | | (A) | |
| 175 Sept 200 Sept 200 Company | Matrix (S6) | | | | | | 149A, 153C, 153 | D) |
| The second secon | rface (S7) (LRR P, S | S, T, U) | | | | | | |
| Restrictive | Layer (If observed): | | | | an Ben | 55 A C 155 | Tellor Control | |
| Туре: | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric Soll Pres | ent? Yes No |
| Remarks: | | | | | | | | |
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| CONTRACTOR STATE OF THE PARTY O | | | | | | | | |
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Wetland data point wcho011e_w facing southwest



Wetland data point wcho011e_w facing southeast

| Project/Site: A C P | City/County: Chesapeake Sampling Date: 2/11/16 |
|---|---|
| Applicant/Owner: Dominion | State: VA Sampling Point: wcholle- |
| Investigator(s): LiRoper, M. Smith | Section Township Range: NDNP |
| Landform (hillstone towner sto). Flat | Local relief (concave, convex, none): None Slope (%): 0-37 |
| Landform (nilisiope, terrace, etc.): 1101 | 76341 Long: -76.34697 Datum: WG-584 |
| Subregion (LRR or MLRA): Lat: 36. | 1639 Long: - 76137611 Datum: WG381 |
| | NWI classification: PEM |
| Are climatic / hydrologic conditions on the site typical for this time of year | 하이라면 하게 보다면 어떻게 하게 보고 하다가 아니라면 하게 되었다면 하게 되었다. 그는 나는 아니라 하는데 그리고 하는데 하는데 그는데 나를 하는데 |
| Are Vegetation, Soil, or Hydrology significantly of | disturbed? Are "Normal Circumstances" present? Yes No |
| Are Vegetation, Soil, or Hydrology naturally prob | blematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No No No No No N | Is the Sampled Area within a Wetland? Yes No |
| Powerline ROW | |
| HYDROLOGY | Google Jadiotes (minimum of two required) |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Aquatic Fauna (B13) | |
| Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) | . (C. C. S. C. |
| Saturation (A3) Hydrogen Sulfide Oc | 호텔: 1985년 - 18 |
| | eres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) | : [1] |
| | on in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface (| [10 1] 전 [10 1] |
| ☐ Iron Deposits (B5) ☐ Other (Explain in Re | emarks) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | |
| Surface Water Present? Yes No _k Depth (inches): | NA_ |
| Water Table Present? Yes X No Depth (inches): | |
| Saturation Present? Yes X No Depth (inches): | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos | s provious inspections) if available: |
| Describe Recorded Data (stream gauge, monitoring well, aerial priotos | s, previous inspections), if available. |
| Remarks: | |
| portions of wetland inu | induted |
| Portions of Welland In | Marico |
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|---------|--------|-----|----|-------|---|
| ampling | Point: | | | | |

| 361 . 2012 | | Dominant | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Dominance Test worksheet: |
|--|-----------|-------------|---|---|
| Tree Stratum (Plot size: 30ft x 30ft) | % Cover | Species? | Status | Number of Dominant Species |
| 1. none | | | | That Are OBL, FACW, or FAC:(A) |
| 2. | | | | Total Number of Dominant |
| 3. | | | | Species Across All Strata: (B) |
| 4 | | | | Description (Description |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 6. | | | | mat Ale Obe, 1 AGVV, SI 1 AG. |
| 7. | | | | Prevalence Index worksheet: |
| | Activity. | 77737 | | Total % Cover of: Multiply by: |
| 8 | G | T-1-10 | | OBL species x 1 = |
| | | = Total Cov | Section 10 | FACW species x 2 = |
| 50% of total cover: | 20% of | total cover | | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 30ft x 30ft) | - | | | FACU species x 4 = |
| 1. Rhus capallinum | 2 | <u> </u> | UPL | UPL species x 5 = |
| 2. Liquidambar styraciflua | _5_ | У | FAC | |
| 3 | | | • | Column Totals: (A) (B) |
| 4. | | | | Prevalence Index = B/A = |
| 5. | | | | Hydrophytic Vegetation Indicators: |
| 6. | | | | [] |
| | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | 15 | | 100000 | 3 - Prevalence Index is ≤3.01 |
| 5 | 10 | = Total Cov | | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 5 | 20% of | total cover | | |
| Herb Stratum (Plot size: 30ff x 30ff) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | 30 | 4 | FACW | be present, unless disturbed or problematic. |
| 2. Rubus arautus | 30 | <u> </u> | FAC | Definitions of Four Vegetation Strata: |
| 3. Juneus effusus | 50 | У | OBL | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. Dichanthelium acuminatum | ID | N | FAC | more in diameter at breast height (DBH), regardless of |
| 5. Solidago gigantea | | N | FACW | height. |
| s. John Sir Jan | 5 | N | FACW+ | |
| 6. Ludwigia sp. | | | The contract of | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7. | | | | than 3 in. DBH and greater than 3.25 it (1 m) tail. |
| 8 | | | MATERIAL PROPERTY. | Herb – All herbaceous (non-woody) plants, regardless |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. |
| 10. | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| 12. | | | | |
| | 145 | = Total Cov | /er | |
| 50% of total cover: 72 | | | | |
| Woody Vine Stratum (Plot size: | | | | |
| 1. Loniera japonica | 5 | Y | FACIL | |
| 1. Lonibara Japonira | | | 1 11 601 | |
| 2. | | | | |
| 3 | | | | |
| 4. | | | | |
| 5 | _ | TO DESCRIP | | Hydrophytic |
| | | = Total Cov | /er | Vegetation Present? Yes X No |
| 50% of total cover: 2 15 | 20% of | total cover | : | Present? Yes No |
| Remarks: (If observed, list morphological adaptations belo | | | | |
| Tromano. (ii sassiva, iistina piisagisa aaspiaasis aas | , | | | |
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| (inches) | Matrix | | | edox Feature | | | | | |
|--|---|------------|--|-------------------------------|---------------------------------|----------|--|---|---------------------|
| (inches) | Color (moist) | % | Color (moist) | % | Type | _Loc² | State of the Control | Remarks | 7. 18.98 Taylord |
| 0-4 | 2.5/2.5/1 | 100 | | | | _ | mucky L | | 3,04,75 |
| 4-20 | TOYR 2/1 | 90 | 104R 5/6 | 10 | | PL | <u>a</u> | | |
| | | 33.0 | | | | 8 150 | | | |
| | | | | | | | | | |
| | the second | indi. | | | | | | | |
| | | | | Tio Till | | | | | |
| | Year of the second | | | | Mar T | 1 | | | |
| Type: C=C | oncentration, D=Dep | letion PM: | | MS=Masker | d Sand Gr | aine | ²I ocation: | PL=Pore Lining, M=Matrix. | |
| | Indicators: (Applic | | | | | uii 15. | | for Problematic Hydric Soils | 3: |
| Histosol | | | | Below Surfa | | RR S, T, | U) 1 cm M | luck (A9) (LRR O) | |
| Histic E | oipedon (A2) | | | k Surface (S9 | | | | luck (A10) (LRR S) | |
| Black Hi | | | | ucky Mineral | | R (O) | | ed Vertic (F18) (outside MLRA | |
| | n Sulfide (A4) | | | leyed Matrix | (F2) | | | ont Floodplain Soils (F19) (LRF | R P, S, T) |
| | l Layers (A5) Bodies (A6) (LRR P | T III | The second secon | Matrix (F3) ark Surface (I | F6) | | Company and the Contraction of the Con- | lous Bright Loamy Soils (F20) | |
| =, | icky Mineral (A7) (LF | | | Dark Surface | | | , , | arent Material (TF2) | |
| | esence (A8) (LRR U | | Personal Contract Con | epressions (F | | | | hallow Dark Surface (TF12) | |
| | ick (A9) (LRR P, T) | | |) (LRR U) | | | Other (| Explain in Remarks) | |
| | Below Dark Surfac | e (A11) | | Ochric (F11) | | | T) 3India | ators of hydrophytic vocatation | and |
| | ark Surface (A12) rairie Redox (A16) (I | MI DA 150 | | ganese Mass urface (F13) | | | | ators of hydrophytic vegetation and hydrology must be presen | |
| The state of the s | lucky Mineral (S1) (I | | | hric (F17) (MI | Table Day of the Control of the | , 0, | | ess disturbed or problematic. | , |
| The state of the s | Gleyed Matrix (S4) | | | Vertic (F18) | | 0A, 150B | | | |
| Sandy R | ledox (S5) | | | t Floodplain S | | | | | |
| | Matrix (S6) | | Anomalo | us Bright Loa | my Soils (| F20) (ML | RA 149A, 153C, | 153D) | |
| Dark Su | rface (S7) (LRR P, S | | | | | | | | |
| 20strictivo I | aver (if observed): | | | | 175 27 | | ME - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Websited II II the I I II I | 11-10/15-07 |
| | _ayer (if observed): | | | | | | The state of the s | The second second second second | |
| Туре: | | | | | | | Hydric Soil | Present? Yes X No | |
| Type: Depth (in | | | | | | | Hydric Soil | Present? Yes X No | |
| Type: Depth (in | ches): | | | 10 Cl | | DN | | Present? Yes X No | |
| Type: Depth (in | ches): | | er po | werli | 'ne | Roi | | Present? Yes <u>X</u> No | |
| Type: Depth (indemarks: | | | er po | werli | 'ne | Rol | | Present? Yes <u>X</u> No | |
| Type: Depth (in | ches): | | er po | werli | ne | Roi | | Present? Yes <u>X</u> No | |
| Type: Depth (in | ches): | | er po | werli | 'ne | Roi | | Present? Yes <u>X</u> No | |
| Type: Depth (incemarks: | ches): | | er po | werli | ne | Roi | | Present? Yes <u>X</u> No | |
| Type: Depth (indemarks: | ches): | | er po | werli | 'n-c | Roi | | Present? Yes <u>X</u> No | |
| Type: Depth (incemarks: | ches): | | er po | werli | 'ne | Rol | | Present? Yes <u>X</u> No | |
| Type: Depth (incemarks: | ches): | | er po | werli | 'ne | Rol | | Present? Yes <u>X</u> No | |
| Type: Depth (incemarks: | ches): | | er po | werli | ne | Roi | | Present? Yes <u>X</u> No | |
| Type: Depth (incemarks: | ches): | | er po | werli | ne | Roi | | Present? Yes <u>X</u> No | |
| Type: Depth (indemarks: | ches): | | er po | werli | 'ne | Rol | | Present? Yes <u>X</u> No | |
| Type: Depth (indemarks: | ches): | | er po | werli | 'ne | Rol | | Present? Yes <u>X</u> No | |
| Type: Depth (in | ches): | | er po | werli | ne | Roi | | Present? Yes <u>X</u> No | |
| Type: Depth (indemarks: | ches): | | er po | werli | ne | Roi | | Present? Yes <u>X</u> No | |
| Type: Depth (in | ches): | | er po | werli | ne | Roi | | Present? Yes X No | |
| Type: Depth (indemarks: | ches): | | er po | werli | ne | Rol | | Present? Yes X No | |
| Type: Depth (in | ches): | | er po | werli | ne | Rol | | Present? Yes X No | |
| Type: Depth (indemarks: | ches): | | er po | werli | ne | Roi | | Present? Yes X No | |
| Type: Depth (incemarks: | ches): | | er po | werli | ne | Roi | | Present? Yes X No | |
| Type: Depth (incemarks: | ches): | | er po | werli | ne | Roi | | Present? Yes X No | |



Wetland data point wcho011e_w2 facing east.



Wetland data point wcho011e_w2 facing north.

Photo Sheet 1 of 3

| Project/Site: Atlantic Coast Pipeline | ; | City/C | ounty: City of Chesape | ake | Sampling Date: 2/18/2016 |
|--|-----------------------|---|----------------------------|----------------------|---------------------------------|
| Applicant/Owner: DOMINION | | | , | State: VA | Sampling Point: wcho011e_w3 |
| Investigator(s): Team C | | Section | on, Township, Range: N | | • |
| Landform (hillslope, terrace, etc.): | | | | | |
| | | | | | |
| Subregion (LRR or MLRA): T Soil Map Unit Name: Tomotley-Urb | an land-Nimmo com | Lat: | Long: _ lones | | None |
| | | | | | |
| Are climatic / hydrologic conditions | | | | | |
| Are Vegetation, Soil | _, or Hydrology | significantly disturb | oed? Are "Norma | al Circumstances" | present? Yes No |
| Are Vegetation, Soil | , or Hydrology | naturally problema | itic? (If needed, | explain any answe | ers in Remarks.) |
| SUMMARY OF FINDINGS - | - Attach site ma | ap showing sam | pling point locati | ons, transects | s, important features, etc. |
| Hydrophytic Vegetation Present? | Vec V | No | | | |
| Hydric Soil Present? | | No | Is the Sampled Area | | |
| Wetland Hydrology Present? | | No | within a Wetland? | Yes | No |
| Remarks: | | | | | |
| Within powerline ROW. Extended I | | | | | |
| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | | | | Secondary Indicate | ators (minimum of two required) |
| Primary Indicators (minimum of or | ne is required; check | all that apply) | | Surface Soil | l Cracks (B6) |
| ✓ Surface Water (A1) | | atic Fauna (B13) | | | egetated Concave Surface (B8) |
| High Water Table (A2) | | Deposits (B15) (LRF | | <u>✓</u> Drainage Pa | |
| Saturation (A3) | - | rogen Sulfide Odor (C | | Moss Trim L | |
| Water Marks (B1) | | | long Living Roots (C3) | | Water Table (C2) |
| Sediment Deposits (B2) | | ence of Reduced Ironent Iron Reduction in | | ✓ Crayfish Bu | /isible on Aerial Imagery (C9) |
| Drift Deposits (B3) Algal Mat or Crust (B4) | | Muck Surface (C7) | Tilled Solls (Co) | | Position (D2) |
| Algar Mat or Crust (B4) Iron Deposits (B5) | | er (Explain in Remark | s) | Shallow Aqu | |
| Inundation Visible on Aerial In | | / (Explain in Homain | 0) | FAC-Neutra | |
| Water-Stained Leaves (B9) | -3-7() | | | | moss (D8) (LRR T, U) |
| Field Observations: | | | | | |
| Surface Water Present? Ye | es <u> </u> | Depth (inches): 2 | | | |
| Water Table Present? Ye | es <u> </u> | Depth (inches): 0 | | | |
| | es <u> </u> | Depth (inches): 0 | Wetland | Hydrology Prese | nt? Yes 🗸 No |
| (includes capillary fringe) Describe Recorded Data (stream) | gauge monitoring w | all aerial nhotos nre | vious inspections) if av | ailahle: | |
| Describe Necorded Data (stream) | gauge, monitoring we | cii, acriai priotos, pre | vious irispections), ii av | anabic. | |
| Remarks: | | | | | |
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VEGETATION (Four Strata) – Use scientific names of plants.

| | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|----------|--------------|---------------|---|
| Tree Stratum (Plot size:) | % Cover | Species? | Status | Number of Dominant Species |
| 1 | | | | That Are OBL, FACW, or FAC:3 (A) |
| 2 | | | | |
| 3. | | | | Total Number of Dominant Species Across All Strata: 3 (B) |
| 4. | | | | Openies / toross / tir otrata. |
| _ | | | | Percent of Dominant Species That Are ORL FACW or FAC: 100 (A/R) |
| | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| 8 | | | | |
| _ | | = Total Cov | | OBL species $\frac{75}{0}$ x 1 = $\frac{75}{0}$ |
| 50% of total cover:0 | 20% of | total cover: | . 0 | FACW species X Z = 100 |
| Sapling/Shrub Stratum (Plot size:) | | | | FAC species x 3 = |
| 1 | | | | FACU species x 4 = |
| 2. | | | | UPL species x 5 = |
| | | | | Column Totals:115 |
| 3 | | | • | |
| 4 | | | | Prevalence Index = B/A =1.69 |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | ✓ 2 - Dominance Test is >50% |
| 8 | | | | ✓ 3 - Prevalence Index is ≤3.0 ¹ |
| | 0 | = Total Cov | er | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 0 | | | | Problematic Hydrophytic Vegetation (Explain) |
| - | 20 /0 01 | total cover. | | |
| Herb Stratum (Plot size:) 1. Panicum virgatum | 40 | Yes | FAC | ¹ Indicators of hydric soil and wetland hydrology must |
| | 40 | | $\overline{}$ | be present, unless disturbed or problematic. |
| 2. Carex lupulina | | Yes | OBL | Definitions of Four Vegetation Strata: |
| 3. Juncus effusus | 25 | Yes | OBL | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. Ludwigia alternifolia | 10 | No | OBL | more in diameter at breast height (DBH), regardless of |
| 5 | | | | height. |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7. | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| | | | | , , |
| | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine – All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12 | | | | |
| | 115 | = Total Cov | er | |
| 50% of total cover: 57.5 | 20% of | total cover: | 23 | |
| Woody Vine Stratum (Plot size: 30) | | | | |
| 1 | | | | |
| | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | 0 | = Total Cov | er | Vegetation |
| 50% of total cover:0 | 20% of | total cover: | . 0 | Present? Yes No |
| Remarks: (If observed, list morphological adaptations belo | w). | | | 1 |
| (| ,. | | | |
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Sampling Point: wcho011e_w3

| Profile Desc | ription: (Describe | to the dep | th needed to docun | nent the i | ndicator | or confirm | the absence of | of indicators.) |
|-------------------------|---|------------|-----------------------------|-------------------|-------------------|------------------|--------------------------|--|
| Depth | Matrix | | | x Features | 3 | | | |
| (inches) | Color (moist) | <u>%</u> | Color (moist) | | Type ¹ | Loc ² | <u>Texture</u> | Remarks |
| 0-6 | 10YR 2/2 | 97 | 10YR 3/6 | 3 | | PL | SL | |
| 6-18 | 10YR 4/1 | 97 | 10YR 4/6 | 3 | С | PL | SC | |
| | | | | | | | | _ |
| | | | | | | | | _ |
| | | | | | | | <u> </u> | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ¹ Type: C=Co | oncentration. D=Dep | letion. RM | =Reduced Matrix, MS | S=Masked | Sand Gra | ains. | ² Location: F | PL=Pore Lining, M=Matrix. |
| | | | LRRs, unless other | | | - | | or Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Polyvalue Be | low Surfac | ce (S8) (L | RR S, T, U) | 1 cm Mı | uck (A9) (LRR O) |
| Histic Ep | oipedon (A2) | | Thin Dark Su | | | | | uck (A10) (LRR S) |
| | stic (A3) | | Loamy Mucky | | | O) | | d Vertic (F18) (outside MLRA 150A,B) |
| | en Sulfide (A4) | | Loamy Gleye | | F2) | | | nt Floodplain Soils (F19) (LRR P, S, T) |
| | d Layers (A5) | | <u>✓</u> Depleted Mat | | | | | ous Bright Loamy Soils (F20) |
| | Bodies (A6) (LRR P, | | Redox Dark S | | | | | A 153B) |
| | ıcky Mineral (A7) (LR esence (A8) (LRR U | | Depleted Dar Redox Depre | | | | | rent Material (TF2) allow Dark Surface (TF12) |
| | ick (A9) (LRR P, T) | , | Marl (F10) (L | | 5) | | | Explain in Remarks) |
| | d Below Dark Surface | e (A11) | Depleted Och | | (MLRA 1 | 51) | 00. (2 | - Contain in Contains, |
| | ark Surface (A12) | | Iron-Mangan | | | | r) ³Indica | itors of hydrophytic vegetation and |
| | | | A) Umbric Surfa | ce (F13) (| LRR P, T | , U) | | and hydrology must be present, |
| - | lucky Mineral (S1) (L | .RR O, S) | Delta Ochric | | | | unles | ss disturbed or problematic. |
| - | Gleyed Matrix (S4) | | Reduced Ver | | | | | |
| | Redox (S5) Matrix (S6) | | Piedmont Flo Anomalous B | | | | | 153D) |
| | rface (S7) (LRR P, S | . T. U) | Allomaious B | ingni Loan | ily Solis (I | 20) (WILK) | 149A, 133C, | 1330) |
| | Layer (if observed): | | | | | | | |
| Type: | | | | | | | | |
| | ches): | | <u></u> | | | | Hydric Soil F | Present? Yes No |
| Remarks: | , - | | | | | | | |
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Photo 1
Wetland data point WCHO011e_w3 facing west



Photo 2
Wetland data point WCHO011e_w3 facing east

| Project/Site: ACP City/Coun | ty: Chesapeake Sampling Date: 12/14/15 |
|--|--|
| Applicant/Owner: Dominion | State: VA Sampling Point: WHO VIF-W |
| Investigator(s): L. Roper, R. Turnbull Section, 7 | |
| | |
| Landform (hillslope, terrace, etc.): Local relie | ef (concave, convex, none): CONCAVE Slope (%): 0-21 |
| Subregion (LRR or MLRA): LR RT Lat: 36,76392 | |
| Soil Map Unit Name: Tomotley-Deloss complex, D. | -27. Stoped NWI classification: PFO |
| 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? | |
| SUMMARY OF FINDINGS - Attach site map showing sampli | ng point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No to | |
| Hydric Soil Present? Yes X No | the Sampled Area |
| Wetland Hydrology Present? Yes V No Wi | thin a Wetland? Yes No |
| Remarks: | |
| | |
| | |
| C 1 | |
| PFO Classification: Hardwood | Flat |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| 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 along | |
| Sediment Deposits (B2) Presence of Reduced Iron (C | |
| Drift Deposits (B3) Recent Iron Reduction in Tille | ed 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 _X Depth (inches): _N F | <u> </u> |
| Water Table Present? Yes No Depth (inches): | |
| Saturation Present? Yes No Depth (inches): | Wetland Hydrology Present? Yes X No |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previou | s inspections), if available: |
| | |
| Remarks: | |
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| | 48 BY 12 MAY 2014 CAN 194 BUT AT 10 A STATE OF CONTROL OF THE STATE OF |

| Tree Stratum (Plot size: 30ft x 30ft) 1. Pinus taeda 2. Platanus occidentalis 3. Liquidambar styraciflua 4. 5. 6. 7. | | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: |
|--|--|---|
| 50% of total cover: 20 Sapling/Shrub Stratum (Plot size: 30 ft x 30 ft) 1. Lieu idamber styraciflua 2. Morella cerifera 3. 4. | | Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) |
| 5. 6. 7. 8. Solve of total cover: 10 Herb Stratum (Plot size: 30ft x 3) ft) 1. Arundinaria Gigantea 2. Junus effusus | 20 = Total Cover 20% of total cover: 4 15 Y FACW 5 Y FACW | Prevalence Index = B/A = |
| 3 | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. |
| 50% of total cover: 10 Woody Vine Stratum (Plot size: 30 ft x 30 ft) 1. hone 2 | = Total Cover | Hydrophytic Vegetation Present? Yes No |
| Remarks: (If observed, list morphological adaptations below | and destroyed and to be a single place. | |

| | | o the depth | | | | or confirm | the absence of India | cators.) |
|--|--------------------------|--|----------------------------|--------------------------|----------------------------|------------------|--|---|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Features | Type | Loc ² | Texture | Remarks |
| 0-20 | 2.542.1/1 | 100 | | | | | muchy loan | |
| | | | | | | Stanier V | O THOUSE | |
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| 1= 0.0 | | | | | | _ | 2 5. 5 | |
| | oncentration, D=Depl | | | | | uns. | | re Lining, M=Matrix. blematic Hydric Solis ³ : |
| | indicators: (Applica | | | | | | | |
| Histosol | | | Polyvalue Be | | | | | 4. Table 1. |
| Histic Ep | oipedon (A2) | | Thin Dark Su Loamy Muck | | | | 2 cm Muck (A1 | c (F18) (outside MLRA 150A,B) |
| | n Sulfide (A4) | | Loamy Gleye | | LOUGH TANDOS | ٥, | A SELECTION OF THE PROPERTY OF | dplain Soils (F19) (LRR P, S, T) |
| | Layers (A5) | | Depleted Ma | | -/ | | | ight Loamy Soils (F20) |
| | Bodies (A6) (LRR P, | T, U) | Redox Dark | | 6) | | (MLRA 153E | |
| 10 mars 2 miles 2 mile | cky Mineral (A7) (LR | White State of the | Depleted Date | Bull of Million of Child | are discount of the same | | Red Parent Ma | |
| | esence (A8) (LRR U) | | Redox Depre | | | | Very Shallow I | Dark Surface (TF12) |
| | ck (A9) (LRR P, T) | | Marl (F10) (L | | | | Other (Explain | in Remarks) |
| and the second state of the second se | Below Dark Surface | (A11) | Depleted Oct | | Loty back fide a beauty to | | | |
| | rk Surface (A12) | | Iron-Mangan | | | | | hydrophytic vegetation and |
| | airie Redox (A16) (M | | Umbric Surfa | | | U) | | drology must be present, |
| | lucky Mineral (S1) (L | RRO, S) | Delta Ochric | | | 0.0 450B) | unless disti | urbed or problematic. |
| THE RESIDENCE OF THE PARTY | leyed Matrix (S4) | | Reduced Ver | | | | 241 | |
| THE RESERVE OF THE PERSON NAMED IN COLUMN | edox (S5) Matrix (S6) | | Piedmont Flo | | | | A 149A, 153C, 153D) | |
| THE RESERVE OF THE PARTY OF THE | face (S7) (LRR P, S | T.U) | Anomalous L | ingin Loan | ily dolla (i | 20) (111211) | 1437, 1330, 1330, | |
| | ayer (if observed): | | | | | | | |
| Type: | | | | | | | | |
| CALL PROPERTY AND ASSESSMENT OF THE PARTY OF | ches): | | | | | | Hydric Soll Presen | t? Yes X No |
| Remarks: | | ante i liaga (vitera) | | | | | | |
| rtomants. | | | | | | | | |
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Wetland data point wcho011f_w facing south



| Project/Site: ACP Applicant/Owner: Dominion | City/County: Chesapeake Sampling Date: 2/11/16 State: VA Sampling Point: with Olf - w |
|--|--|
| Investigator(s): L. Roper, M. Smith | Continue Township Pages 10 Dipp |
| | |
| Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none): None Slope (%): 0-3 |
| Subregion (LRR or MLRA): LKLT Lat: 36 | .76278 Long: -76.34967 Datum: W6584 |
| Soil Map Unit Name: Tomotley - Deloss com | plex NWI classification: PFO |
| Are climatic / hydrologic conditions on the site typical for this time of ye | |
| Are Vegetation, Soil, or Hydrology significantly | |
| | |
| Are Vegetation, Soil, or Hydrology naturally pro | oblematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing | sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Hydric Soil Present? Yes X No Yes X No | Is the Sampled Area within a Wetland? Yes No |
| Wetland Hydrology Present? Yes No | |
| NCWAM: Hardwood flat | |
| 70144 Committee to a record for a 1955 and 1965 | Secondary Indicators (minimum of two required) |
| Wetland Hydrology Indicators: | |
| Primary Indicators (minimum of one is required; check all that apply) | 2014년 1월 - 1일 - 1980년 12 - 1981년 1일 - 1981년 1일 |
| Surface Water (A1) Aquatic Fauna (B1) And Barrasite (A2) | ### |
| High Water Table (A2) Saturation (A3) Hydrogen Sulfide C | 25-100 BANG - 15-1 BBN - |
| [] - [- [- [- [- [- [- [- [- [| eres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduc | |
| 그리고 그는 그리고 아내는 | tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | (1) 다양한 사람이 10 10 10 10 10 10 10 10 10 10 10 10 10 |
| ☐ Iron Deposits (B5) ☐ Other (Explain in R | 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 |): <u>NA</u> |
| Water Table Present? Yes No Depth (inches |): |
| |): Wetland Hydrology Present? Yes No |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo | os previous inspections) if available |
| Describe Recorded Data (stream gauge, monitoring well, action prior | 33, previous inspections, in available. |
| Remarks: | |
| Remarks. | |
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| . Na Tri est periodo de la suprese de la suprese de la companio de la directione de la companio de describa de La companio de la co | Absoluto | Dominant | Indicator | Dominance Test worksheet: |
|--|-----------------------------|-----------------------|--|--|
| Tree Stratum (Plot size: 30ft x 30ft) | | Species? | | |
| 1. Liquidambar styraciflua | 15 | N | FAC | Number of Dominant Species That Are OBL, FACW, or FAC: |
| 1. Zikordambar Styracition | | - V | | mat Are OBL, FACVV, of FAC (A) |
| 2. Acer rubrum | 60 | | PAC | Total Number of Dominant |
| 3. Nyssa sylvatica | 15 | N | FAC | Species Across All Strata: |
| - 1000 | | | | |
| The state of the s | | | | Percent of Dominant Species |
| 5. | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6. | | | | |
| 7. | | | | Prevalence Index worksheet: |
| | 70.000000 | Mayer 1995 | THE TOTAL | Total % Cover of: Multiply by: |
| 8. | 91 | = Total Cov | (3) (3) | OBL species x 1 = |
| li e | 10 | = Total Cov | er O | FACW species x 2 = |
| 50% of total cover:95 | 20% of | total cover | 10 | |
| Sapling/Shrub Stratum (Plot size: 30 ft x 30 ft) | | | | FAC species x 3 = |
| Sapinity Stratom (Flot size. Sort Stratom) | 20 | V | FAC | FACU species x 4 = |
| 1. Liquidambar styraciflua | | - ' | | UPL species x 5 = |
| 2. Aux obrum | 20 | | FAC | The body of the control of the contr |
| 3. Quercus nigra | 10 | N | FAC | Column Totals: (A) (B) |
| 4. Magnolia Virginiana | 10 | N | FACW | |
| | | | 11000 | Prevalence Index = B/A = |
| 5 | A STATE OF | the second | | Hydrophytic Vegetation Indicators: |
| 6. | | | iner all | 1 - Rapid Test for Hydrophytic Vegetation |
| THE REPORT OF THE PROPERTY OF | | | | [Hand State of the Control of the |
| 7. | Carry Late Co. | 317 W - 2 Hr. | | 2 - Dominance Test is >50% |
| 8. | | | | 3 - Prevalence Index is ≤3.01 |
| | 60 | = Total Cov | er | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: 30 | 20% of | total cover | 12 | |
| | | 1014.0010. | V 15 70 17 6 | |
| Herb Stratum (Plot size: 30f+ x 30 f+) | 0- | M | -0111 | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | 00 | 7 | FHUM | be present, unless disturbed or problematic. |
| 2 | | | | Definitions of Four Vegetation Strata: |
| | (El Sechler Line) | DOMEST THE PARTY | | |
| 3. | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | | | | more in diameter at breast height (DBH), regardless of |
| 5. | | | | height. |
| Will Street our Self-Amagazatin poor Stratega and the Street and the self-of-the self-of-t | | | | Santian/Shout Mondy plants evaluding vines less |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7 | | | | than 5 m. DBH and greater than 5.20 m (1 m) tail. |
| 8. | | Shine State | Daniel Control | Herb - All herbaceous (non-woody) plants, regardless |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. |
| Carlo Company of the | 111 2 411 | 1 (NOT BY 1173, 1991) | | |
| 10 | - | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | | | height. |
| 12. | | | | |
| The second secon | 90 | T-4-1 C- | Market Sept. | |
| 110 | Carrier and a surface and a | = Total Co | | |
| 50% of total cover: 40 | 20% of | total cover | : 16 | |
| Woody Vine Stratum (Plot size: 30ff x 30ff) | | | | |
| 1. Smilax hispida | 20 | V | FAC | |
| 1. SMITAX KISPIDA | | | 1110 | |
| 2. | | Office and | | |
| 3. | | | | |
| | - V 21 | 1 70 | | |
| 4 | | | The state of the s | 28 Page 100 |
| 5. | | | | Hydrophytic |
| | 20 | = Total Co | /er | Vegetation |
| 50% of total cover: 15 | | | | Present? Yes No No No |
| 50% of total cover: | 20% 0 | total cover | | |
| Remarks: (If observed, list morphological adaptations belo | w). | | | |
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| epth | Matr | | | dox Feature | | . 7 | | | Domestic | |
|--|--|--|---|--|--|----------------------------------|--|---|--|---|
| nches) | Color (moist | | Color (moist) | % | Type ¹ | _Loc ² _ | <u>Texture</u> | | Remarks | TO THE PER |
| 7-10 | 2.5 4 2 | 1 100 | | | | 75. | mucky L | | Cherry Tark | |
| 0-20 | 104R4/1 | 95 | 10YR 5/8 | 5 | <u>C</u> | PL_ | SCL | | | |
| | | | | | | | | | | |
| /pe: C=C | oncentration, D= | Depletion, RM | =Reduced Matrix, | MS=Masker | d Sand Gra | ains. | ² Location: | PL=Pore L | ining, M=Matrix | ζ. |
| Black H Hydroge Stratifier Organic 5 cm Me Muck Pe 1 cm Me Deplete Thick De Coast Pe | pipedon (A2) pipedon (A2) pipedon (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LR ucky Mineral (A7) resence (A8) (LR P, d Below Dark Su ark Surface (A12 rairie Redox (A1) Mucky Mineral (S | (LRR P, T, U R U) T) rface (A11)) 6) (MLRA 150 | Thin Dark Loamy Mu Loamy Gle Depleted I Redox Da Redox Da Redox De Marl (F10) Depleted G Iron-Mang A) Umbric Su | Below Surface (S9 ucky Mineral eyed Matrix (F3) rk Surface (ID Dark Surface (ID Dark Surface (F11) panese Massurface (F13) ric (F17) (MI | (MLRA 1: (E12) (LRR (F2)) (MLRA 1: (F2) (MLRA 1: (E12) (MLRA 1: | T, U) : O) 51) LRR O, P | 2 cm M Reduction Piedmin Anoma (MLF) Very S Other (MT) | ont Floodpl lous Bright RA 153B) arent Mater hallow Dar Explain in ators of hydand hydrol | (LRR S) F18) (outside N ain Soils (F19) I Loamy Soils (F rial (TF2) k Surface (TF12 | (LRR P, S, 7 (20) 2) ation and esent, |
| Sandy F Stripped | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) | 3) | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | | , 153D) | | |
| Sandy F Stripped Dark Su | Sleyed Matrix (S4 Redox (S5) | P, S, T, U) | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) | , 153D) | | |
| Sandy F Stripped Dark Suestrictive Type: | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yos X | No |
| Sandy F Stripped Dark Suestrictive Type: | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Su strictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Sustrictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Suestrictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Suestrictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Suestrictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |
| Sandy F Stripped Dark Sustrictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes_X | No |
| Sandy F Stripped Dark Suestrictive Type: Depth (in | Gleyed Matrix (S4 Redox (S5) I Matrix (S6) Irface (S7) (LRR Layer (If observ | P, S, T, U) ed): | Reduced \ Piedmont | Vertic (F18) Floodplain S | Soils (F19) | (MLRA 1 | 49A) RA 149A, 153C | | Yes X | No |



Wetland data point wcho011f_w2 facing northeast.



Wetland data point wcho011f_w2 facing southwest.

Photo Sheet 2 of 3

| Project/Site: Atlantic Coast Pipeline | | City/C | ounty: City of Chesape | ake | Sampling Date: 2/18/2016 |
|---|------------------|-------------------------------|---------------------------|-------------------|---------------------------------|
| Applicant/Owner: DOMINION | | | , | State: VA | Sampling Point: wcho011f_w3 |
| | | Section | on, Township, Range: N | | |
| Landform (hillslope, terrace, etc.): flat | | | | | |
| Subregion (LRR or MLRA): T | | | | | |
| Soil Map Unit Name: Tomotley-Deloss co | mnlex 0 to 1 n | ercent slones | Long | ADA/L -L: E | Datum. None |
| | | | _ | | |
| Are climatic / hydrologic conditions on the | | | | | |
| Are Vegetation, Soil, or Hy | ydrology | _ significantly disturl | bed? Are "Norma | al Circumstances" | present? Yes No |
| Are Vegetation, Soil, or Hy | ydrology | _ naturally problema | atic? (If needed, | explain any answe | ers in Remarks.) |
| SUMMARY OF FINDINGS - Att | ach site ma | p showing sam | npling point locati | ons, transects | s, important features, etc. |
| Hydrophytic Vegetation Present? | Yes _ 🗸 | No | | | |
| Hydric Soil Present? | Yes 🗸 | | Is the Sampled Area | | |
| Wetland Hydrology Present? | Yes 🔽 | | within a Wetland? | Yes | No |
| Remarks: | | | | | |
| Extended by Team C. | | | | | |
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| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | | | | Secondary Indic | ators (minimum of two required) |
| Primary Indicators (minimum of one is re | equired; check a | all that apply) | | Surface Soi | l Cracks (B6) |
| ✓ Surface Water (A1) | Agua | tic Fauna (B13) | _ | | egetated Concave Surface (B8) |
| ✓ High Water Table (A2) | | Deposits (B15) (LRF | R U) | | atterns (B10) |
| Saturation (A3) | | ogen Sulfide Odor (C | | Moss Trim L | |
| Water Marks (B1) | <u>✓</u> Oxidi | zed Rhizospheres a | long Living Roots (C3) | Dry-Season | Water Table (C2) |
| Sediment Deposits (B2) | Prese | ence of Reduced Iro | n (C4) | Crayfish Bu | rrows (C8) |
| Drift Deposits (B3) | Rece | nt Iron Reduction in | Tilled Soils (C6) | Saturation \ | /isible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) | | Muck Surface (C7) | | ✓ Geomorphic | Position (D2) |
| Iron Deposits (B5) | | r (Explain in Remark | (S) | Shallow Aqu | |
| Inundation Visible on Aerial Imagery | / (B7) | | | FAC-Neutra | ` ' |
| Water-Stained Leaves (B9) | | | | Sphagnum | moss (D8) (LRR T, U) |
| Field Observations: | | | | | |
| <u> </u> | | Depth (inches): $\frac{2}{0}$ | | | |
| Water Table Present? Yes | No [| Depth (inches): 0 | | | |
| Saturation Present? Yes (includes capillary fringe) | No [| Depth (inches): | Wetland | Hydrology Prese | nt? Yes No |
| Describe Recorded Data (stream gauge | , monitoring we | ell, aerial photos, pre | vious inspections), if av | ailable: | |
| | | | | | |
| Remarks: | | | | | |
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VEGETATION (Four Strata) – Use scientific names of plants.

| (| Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------|--------------|-----------|---|
| <u>Tree Stratum</u> (Plot size:) | % Cover | Species? | Status | Number of Dominant Species |
| 1. Acer rubrum | 35 | Yes | FAC | That Are OBL, FACW, or FAC:5 (A) |
| 2. Liquidambar styraciflua | 30 | Yes | FAC | Total Number of Dominant |
| 3. Pinus taeda | 25 | Yes | FAC | Species Across All Strata: 5 (B) |
| 4 | | | | Percent of Dominant Species |
| 5 | | | | That Are OBL, FACW, or FAC: 100 (A/B) |
| 6 | | | | Providence Index weaksheets |
| 7 | | | | Prevalence Index worksheet: |
| 8 | | | | Total % Cover of: Multiply by: OPL procies 0 v.1 = 0 |
| | 90 | = Total Cov | | OBL species X 1 = |
| 50% of total cover: 45 | 20% of | total cover: | 18 | 105 x 2 |
| Sapling/Shrub Stratum (Plot size:) | | | | FAC species 0 $x = 315$ |
| 1. Acer rubrum | 10 | Yes | FAC | FACU species x 4 = 0 |
| 2 | | | | UPL species $\frac{0}{165}$ $x = \frac{0}{435}$ |
| 3 | | | | Column Totals: (A) (B) |
| 4 | | | | Prevalence Index = B/A = 2.63 |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | ✓ 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.0 ¹ |
| | 10 | = Total Cov | er | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: 5 | 20% of | total cover: | 2 | |
| Herb Stratum (Plot size:) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | 60 | Yes | FACW | be present, unless disturbed or problematic. |
| 2. Smilax rotundifolia | 5 | No | FAC | Definitions of Four Vegetation Strata: |
| 3 | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of |
| 5 | | | | height. |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine – All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12 | | | | |
| | 65 : | = Total Cov | er | |
| 50% of total cover: 32.5 | 20% of | total cover: | 13 | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | Hydrophytic |
| | 0 : | = Total Cov | er | Vegetation |
| 50% of total cover:0 | | total cover: | • | Present? Yes No No |
| Remarks: (If observed, list morphological adaptations below | | | | |
| Tromanio: (ii osoci roa, net moi priological adaptationo solo | •• /- | | | |
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Sampling Point: wcho011f_w3

SOIL

| Profile Desc | cription: (Describe | o the dept | h needed to docun | nent the i | ndicator | or confirm | the absence of | findicators.) |
|------------------------|---|---------------|---|-------------|------------------------|------------------|--------------------------|--|
| Depth | Matrix | | | x Features | | | | |
| (inches) 0-6 | Color (moist) 10YR 2/1 | 98 | Color (moist) 10YR 3/4 | <u>%</u> 2 | Type ¹ C | Loc ² | Texture SCL | Remarks |
| | | | | | | | | |
| 6-18 | 10YR 4/1 | 98 | 10YR 4/6 | 2 | C | PL/M | SL | |
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| ¹ Type: C=C | oncentration, D=Depl | etion, RM= | Reduced Matrix, MS | S=Masked | Sand Gra | ains. | ² Location: P | L=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (Application | able to all I | RRs, unless other | wise note | ed.) | | Indicators fo | or Problematic Hydric Soils ³ : |
| Histosol | (A1) | | Polyvalue Be | low Surfac | ce (S8) (L | RR S, T, U |) 1 cm Mu | ck (A9) (LRR O) |
| | pipedon (A2) | | Thin Dark Su | | | | | ck (A10) (LRR S) |
| | istic (A3) | | Loamy Muck | | | (O) | | Vertic (F18) (outside MLRA 150A,B) |
| | en Sulfide (A4) | | Loamy Gleye | | F2) | | | tt Floodplain Soils (F19) (LRR P, S, T) |
| | d Layers (A5) : Bodies (A6) (LRR P, | T 11\ | ✓ Depleted Mat✓ Redox Dark S | ` ' | ·6) | | Anomaio (MLRA | us Bright Loamy Soils (F20) |
| | ucky Mineral (A7) (LR | | Depleted Dar | , | • | | | ent Material (TF2) |
| | resence (A8) (LRR U) | | Redox Depre | | | | | allow Dark Surface (TF12) |
| | uck (A9) (LRR P, T) | | Marl (F10) (L | | -, | | | xplain in Remarks) |
| | d Below Dark Surface | e (A11) | Depleted Och | | (MLRA 1 | 51) | | , , , , , , , , , , , , , , , , , , , |
| | ark Surface (A12) | | Iron-Mangan | | | | | ors of hydrophytic vegetation and |
| | rairie Redox (A16) (N | | | | | , U) | | nd hydrology must be present, |
| - | Mucky Mineral (S1) (L | RR O, S) | Delta Ochric | | | 0A 4E0B\ | unless | s disturbed or problematic. |
| - | Gleyed Matrix (S4) Redox (S5) | | Reduced Ver Piedmont Flo | | | | 24) | |
| - | Matrix (S6) | | | | | | A 149A, 153C, 1 | 53D) |
| | urface (S7) (LRR P, S | , T, U) | / #10111410400 2 | nigini Loui | , | 20) (III2I II | | 302, |
| | Layer (if observed): | | | | | | | |
| Type: | | | | | | | | |
| Depth (in | ches): | | | | | | Hydric Soil Pi | resent? Yes V No No |
| Remarks: | · | | | | | | | |
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Photo 1
Wetland data point WCHO011f_w3 facing south



Photo 2
Wetland data point WCHO011f_w3 facing north

| | County: Chesapeake Sampling Date: 12/14/15 |
|---|--|
| Applicant/Owner: Dominion | State: VA Sampling Point: Wha ON -a |
| Investigator(s): L. Roper, P. Turnbull Sect | tion, Township, Range: <u>NDNE</u> |
| Landform (hillslope, terrace, etc.): flat Loca | al relief (concave, convex, none): None Slope (%): 6-2 |
| Subregion (LRR or MLRA): LR RT Lat: 36.71 | 0438 Long: -76,34593 Datum: W 658 |
| Soil Map Unit Name: Tomothey-Deloss comple | |
| Are climatic / hydrologic conditions on the site typical for this time of year? | 2001년 4명이 10년 11년 11년 12년 12년 12년 12년 12년 12년 12년 12 |
| | |
| Are Vegetation, Soil, or Hydrology significantly distu | |
| Are Vegetation, Soil, or Hydrology naturally problem | natic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sar | mpling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No | Is the Sampled Area |
| Hydric Soil Present? Yes NoX | within a Wetland? Yes No _X |
| Wetland Hydrology Present? Yes No | Within a Victoria |
| Remarks: | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LR | |
| Saturation (A3) Hydrogen Sulfide Odor (| 트립스 (14. 14. 14. 14. 14. 14. 14. 14. 14. 14. |
| Water Marks (B1) Oxidized Rhizospheres | |
| Sediment Deposits (B2) Presence of Reduced Inc. | 2018년 1일 |
| Drift Deposits (B3) Recent Iron Reduction in | n Tilled 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 Remar | 5.4% in the 1982 C. 1.1. C. 1. |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | NA |
| Surface Water Present? Yes No _X Depth (inches): Water Table Present? Yes No _X Depth (inches): | 720 |
| | |
| Saturation Present? Yes No Depth (inches): | Wetland Hydrology Present? Yes No X |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro | evious inspections), if available: |
| | |
| Remarks: | |
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VEGETATION (Four Strata) - Use scientific names of plants.

| | Absolute Design | la disabas | D. Janes Tark underheit |
|--|---|---------------------------------|--|
| Tree Stratum (Plot size: 30ft x 30ft) 1. Pinus tacda | Absolute Dominant % Cover Species? 2.5 | Status PAC | Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: |
| 2. Liguidambar Styraciflua | | FAC | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 831/4 (A/B) |
| 6. | | | |
| 7 | | | Prevalence Index worksheet: |
| 8 | | | |
| 17 | 35 = Total Cov | er | FACW species x 2 = |
| 50% of total cover: 171 | 20% of total cover: | | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 30f4 x 30f4) | 5 Y | CNOU | FACU species x 4 = |
| 1. Juniperus virginiana | 3 | FACU | UPL species x 5 = |
| 2. Liguidambar Styraciflua | 10 1 | FAC | Column Totals: (A) (B) |
| 3. Pinus taeda | SCHOOL AS ARTHUR VOICE MEDICAL STATE AND ADDRESS OF THE SCHOOL | FAC | (1) |
| 4 | | | Prevalence Index = B/A = |
| 5 | | | Hydrophytic Vegetation Indicators: |
| 6 | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 8. | | | × 2 - Dominance Test is >50% |
| | 20 = Total Cove | | 3 - Prevalence Index is ≤3.01 |
| 50% of total cover: | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Herb Stratum (Plot size: 30f4 x 30f4) | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Arundinaria gigantea | | FACW | be present, unless disturbed or problematic. |
| 3. Eupatorium capillifolium | 10 N | FAC | Definitions of Four Vegetation Strata: |
| 4. Dichanthelium auminatum | 20 Y | FAC | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of |
| 5. | | | height. |
| 7 | | | Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | distribution of the strength of | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 10 | | | Woody vine – All woody vines greater than 3.28 ft in |
| 11 12 | | | height. |
| 12 | 55 = Total Cove | | |
| 50% of total cover: _27 | | | |
| Woody Vine Stratum (Plot size: 30 ft x 30 ft) | 2 20 % of total cover. | | |
| 1. NORE | | | |
| 2. | | 633 | |
| 3. | COMPLETE SALVESTED SECURE OF THE PROPERTY OF THE | tent to | |
| 4. | Province of the August States and August States | | |
| 5. | | | Hydrophytic |
| | O = Total Cove | er | Manatatian |
| 50% of total cover: | i de management de la | | Present? Yes X No |
| Remarks: (If observed, list morphological adaptations belo | | | |
| , | | | |
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| Profile Desc | cription: (Describe t | o the depth | needed to docum | nent the I | Indicator | or confirm | the absence of | indicators.) | |
|--|---|-------------|--------------------------|----------------|-------------------------|------------------|--|---|----------|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Feature % | | Loc ² | Texture | Remarks | |
| D-10 | 104R211 | 100 | Coror (miorst) | - 70 | Туре | 100 | SL | Hemarks | P. March |
| 10-20 | 1010312 | | | | | | | | |
| 10-20 | 101K-15 | 100 | | | | | 5L_ | | |
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| | | | | | r III II II | | | | |
| 17. may C=C | oncentration, D=Dept | | aduand Matrix MS | -Maskas | | <u> </u> | 21 postion: DI | L=Pore Lining, M=Matrix. | _ |
| | Indicators: (Applica | | | | | urs. | | r Problematic Hydric Soils ³ : | |
| Histosol | | | Polyvalue Be | | | RRS T. U) | | ck (A9) (LRR O) | |
| - Committee of the comm | pipedon (A2) | | Thin Dark Su | | | | | ck (A10) (LRR S) | |
| Black Hi | | | Loamy Mucky | | | | | Vertic (F18) (outside MLRA 150. | A,B) |
| | n Sulfide (A4) | | Loamy Gleye | d Matrix (| F2) | | 2.10° | Floodplain Soils (F19) (LRR P, S | s, T) |
| 13-20-00 CM CM VEST THE RESIDENCE OF THE PERSON OF THE PER | Layers (A5) | | Depleted Mat | | | | | us Bright Loamy Soils (F20) | |
| A CONTRACTOR AND A STATE OF THE | Bodies (A6) (LRR P, | | Redox Dark S | | Mark Street Color Color | | (MLRA | 153B) nt Material (TF2) | |
| C-1001 CHARLES AND A STREET OF THE STREET | cky Mineral (A7) (LR esence (A8) (LRR U) | | Depleted Dar Redox Depre | | | | | llow Dark Surface (TF12) | |
| The second secon | ck (A9) (LRR P, T) | | Marl (F10) (L | | -/ | | Use his transfer of the block of the brightness of | plain in Remarks) | |
| And the State of t | Below Dark Surface | (A11) | Depleted Oct | ric (F11) | (MLRA 15 | 1) | | | |
| The same of the state of the Contra | rk Surface (A12) | | Iron-Mangane | | | | and the state of t | ors of hydrophytic vegetation and | |
| Land Company of the C | rairie Redox (A16) (M | | Umbric Surfa | | | U) | | d hydrology must be present, | |
| 7 | lucky Mineral (S1) (L sleyed Matrix (S4) | RRO, S) | Delta Ochric | | | 14 150B) | unless | disturbed or problematic. | |
| 14. NO. AND THE RESERVE AND ADDRESS. | edox (S5) | | Piedmont Flo | | | | (A) | | |
| 4 TO SERVED TO SULL AND THE | Matrix (S6) | | | | | | 149A, 153C, 1 | 53D) | |
| A CONTRACTOR OF THE PROPERTY O | rface (S7) (LRR P, S, | T, U) | | | | | | | |
| Restrictive I | ayer (If observed): | | | | | | | | |
| Type: | | | _ | | | | | V | , |
| Depth (inc | ches): | | | | | | Hydric Soll Pr | esent? Yes No/ | _ |
| Remarks: | | | | | | | | | |
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Upland data point wcho011_u facing northwest



Upland data point wcho011_u facing northeast

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| Project/Site: Atlantic Coast Pipeline | City/County: City | of Chesapeake | _ Sampling Date: 2/18/2016 |
|---|--|------------------------------|----------------------------------|
| Applicant/Owner: DOMINION | | State: VA | Sampling Point: wcho011_u3 |
| | Section, Township | | |
| Landform (hillslope, terrace, etc.): flat | | | |
| Subregion (LRR or MLRA): T | | | |
| Soil Map Unit Name: Tomotley-Deloss complex, 0 to | 1 percent slopes | LOTIGNIVA/I eleccifi | Datum. None |
| | | | |
| Are climatic / hydrologic conditions on the site typical | · | | |
| Are Vegetation, Soil, or Hydrology | | Are "Normal Circumstances" | present? Yes No |
| Are Vegetation, Soil, or Hydrology | naturally problematic? | (If needed, explain any answ | ers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site | map showing sampling po | int locations, transect | s, important features, etc. |
| Hydrophytic Vegetation Present? Yes <u>✓</u> | No la the San | | |
| | No V | npled Area | •/ |
| Wetland Hydrology Present? Yes | No within a W | vetland? Yes | No |
| Remarks: | | | |
| Extended by Team C. | | | |
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| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | Secondary Indic | cators (minimum of two required) |
| Primary Indicators (minimum of one is required; che | eck all that apply) | Surface Soi | l Cracks (B6) |
| Surface Water (A1) | Aquatic Fauna (B13) | Sparsely Ve | egetated Concave Surface (B8) |
| High Water Table (A2) | Marl Deposits (B15) (LRR U) | Drainage Pa | atterns (B10) |
| | lydrogen Sulfide Odor (C1) | Moss Trim I | Lines (B16) |
| Water Marks (B1) C | Oxidized Rhizospheres along Living I | Roots (C3) Dry-Season | Water Table (C2) |
| | Presence of Reduced Iron (C4) | Crayfish Bu | |
| | Recent Iron Reduction in Tilled Soils | | /isible on Aerial Imagery (C9) |
| | Thin Muck Surface (C7) | | c Position (D2) |
| | Other (Explain in Remarks) | Shallow Aqı FAC-Neutra | |
| Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) | | · | moss (D8) (LRR T, U) |
| Field Observations: | | Opinagrium | 111033 (D0) (LKK 1, 0) |
| | , Depth (inches): | | |
| | Depth (inches): | | |
| | Depth (inches): | Wetland Hydrology Prese | nt? Yes No |
| (includes capillary fringe) | | , | 166 116 |
| Describe Recorded Data (stream gauge, monitoring | y well, aerial photos, previous inspec | ctions), if available: | |
| | | | |
| Remarks: | | | |
| no hydrology | | | |
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VEGETATION (Four Strata) – Use scientific names of plants.

| | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------|--------------|-----------|---|
| Tree Stratum (Plot size:) | | Species? | Status | Number of Dominant Species |
| 1. Liquidambar styraciflua | 30 | Yes | FAC | That Are OBL, FACW, or FAC:5 (A) |
| 2. Quercus rubra | 25 | Yes | FACU | |
| 3 Pinus taeda | 20 | Yes | FAC | Total Number of Dominant Species Across All Strata: 8 (B) |
| 4. Acer rubrum | 15 | No | FAC | Species Across Air Strata (B) |
| | | | | Percent of Dominant Species |
| 5 | | | | That Are OBL, FACW, or FAC: 62.5 (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | |
| 8 | | | | 0 |
| | 90 | = Total Cov | er | OBL species x i = |
| 50% of total cover: 45 | 20% of | total cover: | 18 | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 15) | | | | FAC species x 3 = |
| 1. Acer rubrum | 20 | Yes | FAC | FACU species50 x 4 =200 |
| 2. Liquidambar styraciflua | 20 | Yes | FAC | UPL species0 x 5 =0 |
| | | | | Column Totals: 165 (A) 545 (B) |
| 3. Morella cerifera | 10 | Yes | FAC | Goldmin rotals: (r) (b) |
| 4 | | | | Prevalence Index = B/A = 3.3 |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7. | | | | ✓ 2 - Dominance Test is >50% |
| 8. | | | | |
| 0 | 50 | = Total Cov | | 3 - Prevalence Index is ≤3.0 ¹ |
| 25 | | | 40 | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover:25 | 20% of | total cover: | | |
| Herb Stratum (Plot size:5 | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Lonicera japonica | 15 | Yes | FACU | be present, unless disturbed or problematic. |
| 2. Allium cernuum | 10 | Yes | FACU | Definitions of Four Vegetation Strata: |
| 3 | | | | |
| | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of |
| 4 | | | | height. |
| 5 | | | | |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10. | | | | Weedy vine All woody vines greater than 2.29 ft in |
| 11. | | | | Woody vine – All woody vines greater than 3.28 ft in height. |
| 12. | | | | g.m. |
| 12. | 25 | | | |
| 50% of total cover: 12.5 | | = Total Cov | _ | |
| | 20% of | total cover: | | |
| Woody Vine Stratum (Plot size:) | | | | |
| 1 | | | | |
| 2 | | | | |
| 3 | | | | |
| 4. | | | | |
| | | | | |
| 5 | | | | Hydrophytic |
| | | = Total Cov | ^ | Vegetation Present? Yes No |
| 50% of total cover:0 | 20% of | total cover: | 0 | rieseitt! iesNo |
| Remarks: (If observed, list morphological adaptations below | N). | | | ' |
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Sampling Point: wcho011_u3

SOIL

| Profile Desc | ription: (Describe | to the depth n | eeded to docun | nent the i | ndicator | or confirm t | the absence | of indicate | ors.) | |
|---------------|----------------------------------|------------------|------------------------------|------------|-------------------|------------------|------------------------|-----------------------------------|----------------|---------------|
| Depth | Matrix | | | x Feature | s | | | | | |
| (inches) | Color (moist) | | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-3 | 10YR 3/3 | 100 | | | | | LS | - | | |
| 3-18 | 10YR 3/2 | 100 | | | | | SL | | | |
| | | | | | | | _ | | | |
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| | | | | | | | | | | _ |
| 1Typo: C=C | oncentration, D=Dep | lotion PM-Por | ducad Matrix MS | S-Mackad | I Sand Gra | nine - | ² Location: | DI -Poro I | ining, M=Matr | iv |
| | Indicators: (Application) | | | | | 11115. | | | matic Hydric | |
| Histosol | | abio to all 21ti | Polyvalue Be | | | DD C T IIV | | | - | |
| | pipedon (A2) | _ | Tolyvalde be Thin Dark Su | | | | | luck (A9) (1 luck (A10) | • | |
| Black Hi | | _ | Loamy Muck | | | | | | | MLRA 150A,B) |
| | n Sulfide (A4) | _ | Loamy Gleye | | | -, | | | | (LRR P, S, T) |
| | d Layers (A5) | _ | Depleted Ma | | , | | | • | Loamy Soils | |
| · | Bodies (A6) (LRR P | T, U) _ | Redox Dark S | | ⁻ 6) | | | RA 153B) | | ` , |
| 5 cm Mu | icky Mineral (A7) (LF | RR P, T, U) _ | Depleted Dar | k Surface | (F7) | | Red Pa | arent Mater | ial (TF2) | |
| Muck Pr | esence (A8) (LRR U |) _ | Redox Depre | | 8) | | Very S | hallow Dar | k Surface (TF1 | 12) |
| | ick (A9) (LRR P, T) | _ | Marl (F10) (L | | | | Other (| Explain in | Remarks) | |
| | d Below Dark Surface | | Depleted Oct | . , | • | • | 2 | | | |
| · | ark Surface (A12) | | Iron-Mangan | | | | | - | drophytic vege | |
| | rairie Redox (A16) (N | | | | | U) | | - | ogy must be p | |
| - | flucky Mineral (S1) (L | .KK (J, S) _ | Delta Ochric | | | 0.4 4E0D) | unie | ess disturbe | ed or problema | atic. |
| - | Bleyed Matrix (S4) Redox (S5) | _ | Reduced Ver Piedmont Flo | | | | Δ) | | | |
| | Matrix (S6) | _ | Anomalous E | | | | | 153D) | | |
| | rface (S7) (LRR P, S | . T. U) | Anomalous L | night Loai | ily Colla (i | 20) (INLIVA | 1737, 1330, | , 1330) | | |
| | _ayer (if observed): | | | | | | | | | |
| Type: | , | | | | | | | | | |
| | ches): | | _ | | | | Hydric Soil | Present? | Yes | No 🗸 |
| Remarks: | | | = | | | | , | | | |
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Photo 1 Upland data point WCHO011_u3 facing south



Photo 2
Upland data point WCHO011_u3 facing north

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| Project/Site: ACP Applicant/Owner: Domin Investigator(s): L. Roper Landform (hillslope, terrace, etc. Subregion (LRR or MLRA): L Soil Map Unit Name: Tompt Are climatic / hydrologic conditio Are Vegetation, Soil Are Vegetation, Soil SUMMARY OF FINDINGS | M. Smith ERT Ley - Deloss ns on the site typical for , or Hydrology | Section Loca Lat: 36.76 Complex r this time of year? You significantly disturble maturally problem | ion, Township, Range: | State: VA Same Same Same Same Same Same Same Same | Datum: W 63 89 N A ks.) nt? Yes X No Remarks.) |
|--|---|---|---|---|---|
| Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present? Remarks: | rt? Yes Yes Yes | No X No X No X | Is the Sampled Area within a Wetland? | Yes | No |
| Edge of pow | erline R | ow; back | uside of | neighborh | ood |
| HYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Water-Stained Leaves (B9) Field Observations: | f one is required; check Aqui Aqui Marl Hydi Oxid Pres Rec Thin Other | atic Fauna (B13) Deposits (B15) (LR rogen Sulfide Odor (| C1) along Living Roots (C3) on (C4) n Tilled Soils (C6) | Surface Soil Crack Sparsely Vegetate Drainage Patterns Moss Trim Lines (I Dry-Season Water Crayfish Burrows (| d Concave Surface (B8) (B10) B16) r Table (C2) (C8) on Aerial Imagery (C9) ion (D2) (D3) (D5) |
| Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream | Yes No | Depth (inches): Depth (inches): | >20 >20 Wetland H | Hydrology Present? | Yes NoX |
| Remarks: | | | | | |

| | Absolute Demiserat Indicates | Dominance Test worksheet: |
|--|--|--|
| Tree Stratum (Plot size: 30f+x36f+) | Absolute Dominant Indicator % Cover Species? Status | |
| | | Number of Dominant Species That Are OBL FACW or FAC: 2 (A) |
| 1. Juniperus virginiana | 30 Y FACU | That Are OBL, FACW, or FAC: (A) |
| 2. Aler rubrury | 20 Y FAC | Total Number of Dominant |
| 3. Prunus serotina | | Species Across All Strata: (B) |
| ■ 3 (2.5) 1.3 (2.4) (4.4) (4.4) (4.5) | | Species Across Air Strata. |
| 4. | | Percent of Dominant Species |
| 5. | | That Are OBL, FACW, or FAC: 251 (A/B) |
| 6 | | |
| | | Prevalence Index worksheet: |
| 7. | | Total % Cover of: Multiply by: |
| 8 | | OBL species |
| | 70 = Total Cover | OBL species X1= 37 |
| 50% of total cover: 35 | 20% of total cover: 14 | FACW species 10 x2= 20 |
| | | FAC species 40 x3 = 170 |
| Sapling/Shrub Stratum (Plot size: 30ff x 30ff) | | FACU species 140 x4= 560 |
| 1. Phus copallinum | 5 Y UPL | |
| . 프랑스 (10 10 NO) 내용하는 10 NO (10 NO) 보이다. 보고 10 NO) 10 NO (10 NO) 10 NO (10 NO) 10 NO (10 NO) 10 NO (10 NO) 10 NO | | |
| Control of the first of the control of the first of the control of t | | Column Totals: 195 (A) 725 (B) |
| 3. | | |
| 4. | | Prevalence Index = $B/A = 3.72$ |
| 5 | | Hydrophytic Vegetation Indicators: |
| 6. | | - I I I |
| TALCO Figure 1 and 60, Chinese Co. Chinese Co. Chinese Co. China (China) Talco Figure 1 and 60, Chinese Co. China (China) Talco Figure 1 and 60, Chinese Co. China (China) Talco Figure 1 and 60, Chinese Co. China (China) Talco Figure 1 and 60, China (China) Talco Figur | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7. | THE RESERVE TO SECURE A SECURITION OF THE SECURI | 2 - Dominance Test is >50% |
| 8. | Mark The State of | 3 - Prevalence Index is ≤3.01 |
| | = Total Cover | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 2.5 | | Problematic Hydrophytic Vegetation (Explain) |
| 30% of total cover | 20% of total cover | |
| Herb Stratum (Plot size: 30F+ x 30F+) | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Viola sororia | 20 Y FAC | be present, unless disturbed or problematic. |
| 2. Achillea millefolium | 5 N FACU | Definitions of Four Vegetation Strata: |
| 2. I alium ma rama | | |
| 3. Lolium perene | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 1 Arundinacio aiganten | 10 N FACH | more in diameter at breast height (DBH), regardless of |
| 5. Festuca rubra | 3D Y FACU | height. |
| 6. Allium canadense | 5 N FACU | |
| 6. MITOM Canadense | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7. | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | Herb – All herbaceous (non-woody) plants, regardless |
| | | of size, and woody plants less than 3.28 ft tall. |
| 9 | | or orac, and woody plants look than orac war |
| 10. | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | height. |
| 12. | | |
| | 100 = Total Cover | |
| (. | | |
| | 20% of total cover: 20 | |
| Woody Vine Stratum (Plot size: 30f4 x 30ff) | | |
| 1. Lonilera juponica | 20 Y FACU | |
| J. John J. | AND ASSESSED FOR STREET OF THE STREET, STREET OF THE STREET, S | The state of the s |
| 2. | | |
| 3. | | |
| 4. | | |
| | | |
| 5 | 77 | Hydrophytic |
| | 2D = Total Cover | Vegetation Present? Yes No |
| 50% of total cover: | 20% of total cover: | Present? Tes No |
| Remarks: (If observed, list morphological adaptations belo | w). | |
| | | |
| monted laura edges | | |
| mowed lawn edges | | |
| | | |
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| Depth | Matrix | | | x Features | | | | |
|--|---|------------------------------|---|---|--|---|--|---|
| nches) | Color (moist) | | Color (moist) | % | Type ¹ | _Loc ² | | Remarks |
|)-20 | 104K2/1 | 100 | | - | | | | |
| pe: C=Codric Soil I Histosol Histic Ep Black His Hydroger Stratified Organic I 5 cm Mu Muck Pre 1 cm Much Depleted Thick Da Coast Pre Sandy M Sandy G Sandy Re Stripped Dark Sur Strictive L | ncentration, D=Dep ndicators: (Applic (A1) ipedon (A2) | e (A11) MLRA 150A) LRR O, S) | RRs, unless othe Polyvalue Be Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Marl (F10) (L Depleted Oc Iron-Mangan Umbric Surfa Delta Ochric Reduced Ve | rwise note elow Surface urface (S9) by Mineral ed Matrix (thrix (F3) Surface (F rk Surface essions (F6) LRR U) hric (F11) lesse Masse ace (F13) ((F17) (ML rtic (F18) (podplain S | ed.) ce (S8) (L (LRR S, (F1) (LRR F2) 6) (F7) 8) (MLRA 1: es (F12) (LRR P, T RA 151) MLRA 15 oils (F19) | RR S, T, U T, U) O) 51) LRR O, P, T U) 0A, 150B) (MLRA 149 | Indicators for 1 cm Muc 2 cm Muc Reduced Piedmont Anomalou (MLRA Red Pare Very Shall Other (Ex | ent Material (TF2) Illow Dark Surface (TF12) Explain in Remarks) ors of hydrophytic vegetation and and hydrology must be present, a disturbed or problematic. |
| | ayer (if observed): | | | | | | Hydric Soil Pr | esent? Yes No |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



Upland data point wcho011_u2 facing east.



Upland data point wcho011_u2 facing north.

Photo Sheet 3 of 3

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: Applicant/Owner: DOMINIO Section, Township, Range: Landform (hillslope, terrace, etc.): POWO Local relief (concave, convex, none): Subregion (LRR or MLRA): LRR Soil Map Unit Name: TUM 01 NWI classification: (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Soil X_, or Hydrology_ significantly disturbed? Are "Normal Circumstances" present? Yes , Soil , or Hydrology Are Vegetation 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? Is the Sampled Area Hydric Soil Present? No Yes within a Wetland? Wetland Hydrology Present? Yes Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) 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) 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? Water Table Present? Depth (inches): Saturation Present? Depth (inches): Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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

Sampling Point: Wcho OD8e-W

| 201216 | Absolute Dominant Indicator | Dominance Test worksheet: |
|--|--|--|
| Tree Stratum (Plot size: 20 \ 30 \ ft) | % Cover Species? Status | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2 | | Total Number of Dominant Species Across All Strata: (B) |
| 4 | CONTROL NAME OF THE PARTY OF TH | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| · 6. | | |
| 7. services Pro accept to accept to | | Prevalence Index worksheet: |
| 8. | | Total % Cover of: Multiply by: |
| | 0 = Total Cover | OBL species x 1 = |
| 50% of total cover: | 20% of total cover: | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 20X30Ft) | Citronia (g. 1730) (Citronia (g. 1747) (Albert Pale | FAC species x 3 = |
| 1. NONE | | FACU species x 4 = |
| The state of the s | Jack Home Director (| UPL species x 5 = |
| 2 | | Column Totals: (A) (B) |
| 4 | | Prevalence Index = B/A = |
| 5 | | Hydrophytic Vegetation Indicators: |
| 6 | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | 2 - Dominance Test is >50% |
| 8. | 0 - | 3 - Prevalence Index is ≤3.01 |
| | = Total Cover | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | 20% of total cover: | control as well as the state of |
| Herb Stratum (Plot size: 20 × 30) | 75 Y FACW | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Phragmites australis | 11.04 | be present, unless disturbed or problematic. |
| 2. Boehmeria cyclindrica | | Definitions of Four Vegetation Strata: |
| 3. Apocynum cannabinum | 5 N FACU | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. Unidentied herb. | | more in diameter at breast height (DBH), regardless of height. |
| 6. | The state of the second second second second second | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7 | | Herb – All herbaceous (non-woody) plants, regardless |
| 9 | | of size, and woody plants less than 3.28 ft tall. |
| 11 | | Woody vine – All woody vines greater than 3.28 ft in height. |
| 12. | | Signature Signat |
| Arc | O() = Total Cover | The state of the s |
| 50% of total cover: | 20% of total cover: | |
| Woody Vine Stratum (Plot size:) | | The state of the s |
| 1. None | | |
| 2. | | |
| 3 | | |
| 4 | | |
| 5. | | Hydrophytic |
| | = Total Cover | Vegetation |
| 5000 official course | | Present? Yes No |
| 50% of total cover: | The state of the second | |
| Remarks: (If observed, list morphological adaptations be | OW). | |
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| ■ 1000 M (1000 M (100 | | |

| Profile Description: (Describe to the dept | h needed to docu | ment the Ir | ndicator | or confirm t | he absence | of Indicators.) | |
|--|--------------------------------|-----------------|--------------------------|------------------|--|---|----------|
| Depth Matrix (inches) Color (moist) % | Color (moist) | x Features % | Type | Loc ² | Texture | Remarks | |
| (inches) Color (moist) % | Coo (most) | - 70 | Type | | GL | Silty-Loan | |
| 1-1 2-6N5/2 100 | 2.GY 4/1 | 40 | D | M | 50 | | |
| 1-11 1008 4/1 80 | 10 VR 2/1 | | 10 | 1/4 | SC | | _ |
| 11-20 2514/1 100 | IV III | | | 101 | 55 | silly sand | - |
| 11-20 2001111 100 | | | | | 710 | 31119 3 00118 | _ |
| | | - | | - | | | - |
| | | | | | | | - |
| | | | | | 2 | Di Bara Halan Mahala | |
| ¹ Type: C=Concentration, D=Depletion, RM= Hydric Soil Indicators: (Applicable to all L | Reduced Matrix, M | S=Masked | Sand Gra | ains. | The second secon | PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ : | F.67 (4) |
| Histosol (A1) | Polyvalue Be | | | RR S. T. U) | | Muck (A9) (LRR O) | |
| Histic Epipedon (A2) | Thin Dark St | urface (S9) | (LRR S, | T, U) | 2 cm M | Muck (A10) (LRR S) | |
| Black Histic (A3) | Loamy Muck | | | 0) | | ed Vertic (F18) (outside MLRA 150A | |
| Hydrogen Sulfide (A4) Stratified Layers (A5) | Loamy Gleye Depleted Ma | | -2) | | - | ont Floodplain Soils (F19) (LRR P, S, alous Bright Loamy Soils (F20) | ''' |
| Organic Bodies (A6) (LRR P, T, U) | Redox Dark | | 3) | | (ML | RA 153B) | |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) | Depleted Da | | | | The second secon | arent Material (TF2) | |
| Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) | Redox Depre Marl (F10) (I | |) | | | hallow Dark Surface (TF12) (Explain in Remarks) | |
| Depleted Below Dark Surface (A11) | Depleted Oc | hric (F11) (| | | | | |
| Thick Dark Surface (A12) | Iron-Mangan | | Children St. St. Charles | | | ators of hydrophytic vegetation and land hydrology must be present, | |
| Coast Prairie Redox (A16) (MLRA 150A Sandy Mucky Mineral (S1) (LRR O, S) |) Umbric Surfa Delta Ochric | | | , 0) | | ess disturbed or problematic. | |
| Sandy Gleyed Matrix (S4) | Reduced Ve | rtic (F18) (1 | MLRA 15 | | | | |
| Sandy Redox (S5) | Piedmont Flo | | | | | 163D) | |
| Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) | Anomalous | origint Loan | ly Solls (| r20) (MLKA | 143A, 133C | , 1330) | |
| Restrictive Layer (If observed): | | | Sandaya ar | | | | olis |
| Type: | <u></u> | | | | | X | 111 |
| Depth (inches): | <u></u> | | | | Hydric Soil | Present? Yes No | |
| Remarks: | | | | | | | |
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| Services and the service of the serv | | | | | | | |
| BORGOOD CONTRACTOR | | | | | | | |
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| Representation of the second | | | | | | | |
| And the Committee of th | | | | | | | |
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| Ame in the second secon | | | | | | | |
| | | | Maria. | | | | |



Wetland data point wcho008e_w facing northeast.



Wetland data point wcho008e_w facing northwest.

| WETL | AND DETE | RMINATION | DATA FOR | RM – Atla | ntic and G | ulf Coastal F | Plain Region | |
|--|---------------------------------|---------------------------------------|--|-----------------------------|--|--------------------|---|------------|
| Project/Site: A CP | | | City/ | County: (| hesape | ake | _ Sampling Date: 10) | 10/10 |
| Applicant/Owner: D0M1 | MIGH | SECTION SECTION | O.K.y. | oountyo | | SUL MA | Sampling Point: WC | ha008 |
| Investigator(s): K-MQ/K | WIN ! | DAOJOT | | | ip, Range: _ | | _ Sampling Point: 440 | 110000 |
| | | | | | | | 0 | D-1 |
| Landform (hillslope, terrace, e | | | | | | | | |
| Subregion (LRR or MLRA): | RRI | La | at: 36.76 | 507 | Long: _ | 16.334 | Datum: | MARK |
| Soil Map Unit Name: TOW | iotuy - | urban-1 | land N | Jimmo | COMMPL | X NWI classi | fication: UPLAN |) |
| Are climatic / hydrologic condi | AT THE RELEASE OF THE PERSON OF | | | All Control of the Control | The second secon | | | |
| Are Vegetation, Soil | | THE RESERVE AND A STREET AND A STREET | | | | | "present? Yes X | |
| | | | | | | | | No |
| Are Vegetation, Soil _ | | | | | | Military and Shart | vers in Remarks.) | |
| SUMMARY OF FINDING | GS – Attac | h site map s | howing sar | npling po | int location | ons, transec | ts, important featu | res, etc. |
| Hydrophytic Vegetation Pres | ent? Y | esNo | X | le the Sa | mpled Area | | ~ | |
| Hydric Soil Present? | Y | esNo | X | FreeDolphia Conscioning | Netland? | V | No | |
| Wetland Hydrology Present? | Y | es No | X | Within a | rvettatior | res | NO | |
| Remarks: | | APROX. | and the state of t | | 0 | | | 15045 |
| POWORTING | 197.170 | mont 1 | 00100 | onto | il all | mound | lings | |
| Pollacilla | egovi | Tally. | (3) (1) | | 90 | 0.000000 | 65- | |
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| 第 2000年 - 640年 | Alignous Char | | emilija ir dalas ir ir izgalitini | and out to the constitution | Marine Commission | AND MAKE WATER | | alien capi |
| HYDROLOGY | | | | | | | | |
| Wetland Hydrology Indicat | ors: | | | | | Secondary Indi | cators (minimum of two r | required) |
| Primary Indicators (minimum | of one is requ | ired; check all th | at apply) | | | Surface So | il Cracks (B6) | |
| Surface Water (A1) | | Aquatic F | auna (B13) | | | Sparsely V | egetated Concave Surfa | ce (B8) |
| High Water Table (A2) | | Marl Dep | osits (B15) (LR | R U) | | | atterns (B10) | |
| Saturation (A3) | | | Sulfide Odor (| | | | Lines (B16) | |
| Water Marks (B1) | | Oxidized | Rhizospheres a | along Living | Roots (C3) | | n Water Table (C2) | |
| Sediment Deposits (B2) | | Presence | of Reduced Iro | on (C4) | | Crayfish Bu | ırrows (C8) | |
| Drift Deposits (B3) | | Recent Ire | on Reduction in | Tilled Soils | (C6) | Saturation | Visible on Aerial Imagery | (C9) |
| Algal Mat or Crust (B4) | | Thin Muci | k Surface (C7) | | | Geomorph | c Position (D2) | |
| Iron Deposits (B5) | | Other (Ex | plain in Remar | ks) | | Shallow Ac | uitard (D3) | |
| Inundation Visible on Ae | rial Imagery (B | (7) | | | | FAC-Neutr | al Test (D5) | |
| Water-Stained Leaves (E | 39) | | | | | Sphagnum | moss (D8) (LRR T, U) | |
| Field Observations: | | V | | ALL | | | | |
| Surface Water Present? | Yes | No X Depti | h (inches): | alk | | | | |
| Water Table Present? | Yes | No X Dept | h (inches): | 20 | | | | V |
| Saturation Present? | Yes | No X Depti | h (inches): _> | 20 | Wetland H | lydrology Prese | ent? Yes No | X |
| (includes capillary fringe) Describe Recorded Data (stre | nam gauga m | onitaring wall as | rial abotes ass | ulaua lasas | ational if aug | ilables | | |
| Describe Necorded Data (Site | am gauge, m | ormoring wen, ae | mai photos, pre | vious inspe | ctions), ii ava | mable: | | |
| Remarks: | | | | | Triple and the second | | Are to the published to the property of the published to | |
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Sampling Point: wcho 008-4

| 2242-54 | Absolute Dominant Indicator | Dominance Test worksheet: |
|--|--|--|
| Tree Stratum (Plot size: 30 X 30 14) | % Cover Species? Status | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2 | | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| · 6. | | Prevalence Index worksheet: |
| 7. | Legal Company of Control | Total % Cover of: Multiply by: |
| 8. | Control of the Contro | OBL species x1 = |
| | = Total Cover | FACW species x 2 = |
| 50% of total cover: | 20% of total cover: | FAC species \(15 \) x3 = \(45 \) |
| Sapling/Shrub Stratum (Plot size: 20x30ff) | | |
| | | FACU species x 4 = |
| 2. | | UPL species OS X5 = 420 |
| 3. | | Column Totals: (00 (A) 470 (B) |
| 4. | | Prevalence Index = B/A = 4,7 |
| 5. | | Hydrophytic Vegetation Indicators: |
| 6. | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7. | | 2 - Dominance Test is >50% |
| 8. | | 3 - Prevalence Index is ≤3.0¹ |
| | () = Total Cover | |
| 50% of total power: | 20% of total cover: | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Herb Stratum (Plot size: 30 X 30) | 20 % of total cover | Lace addign Lace and on the lace |
| Herb Stratum (Pict size: 00 700) | 75 Y UPL | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1. Zoysia sp. 2. Digitaria sp. | 10 N FACTURE | 에는 마다가 있다면 한 경험을 보는 사람들이 되었다. 이 전에 가는 사람들이 되었다면 하는데 하는데 하는데 사람들이 되었다면 하는데 함께 되었다면 하는데 |
| 3. Potentilla canadensis | 10 N UPL | Definitions of Four Vegetation Strata. |
| | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. Unidentified herb | 5 N UNK | more in diameter at breast height (DBH), regardless of height. |
| 5 | The second secon | Height. |
| 6. | Netter County State of the | Sapling/Shrub - Woody plants, excluding vines, less |
| 7. | AND SQUARED VISION | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | Transferrance Transmission for | Herb - All herbaceous (non-woody) plants, regardless |
| 9. | | of size, and woody plants less than 3.28 ft tall. |
| 10. | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | height. |
| 12. | A SHOULD | A STATE OF THE PARTY OF THE PAR |
| | 100 = Total Cover | A STATE OF THE STA |
| 50% of total cover: | 0 20% of total cover: | A STATE OF THE STA |
| Woody Vine Stratum (Plot size: 30 X 30 F1) | | |
| 1. NONE | | |
| | | |
| 2. | | |
| 5 | | |
| 4 | | |
| 5 | | Hydrophytic |
| | () = Total Cover | Vegetation Present? Yes No |
| 50% of total cover: | 20% of total cover: | |
| Remarks: (If observed, list morphological adaptations be | elow). | 1. 1:0 . 1 mineraletively |
| Prevalence Index not met eve | n if Digitaria sp and | unidentified herb conservatively |
| assumed to be FAC r | ather than FACLL or | upl. |
| | | |
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| in about Calas (mailet) 0/ | | x Features | | | | |
|--|--|---|--|--|---|--|
| inches) Color (moist) % | Color (moist) | % | Type | _Loc² | | Remarks |
|)-12 104R2/2 100 | 10.0051 | | 0 | A A | 7 60 | |
| 2-18 104R312 80 | 104KG/10 | 20 | 0 | M | SC _ | |
| 8-20 10484/2 100 | | | | | CS | |
| | | | | | | |
| Type: C=Concentration, D=Depletion, RM= | Reduced Matrix, MS | S=Masked | Sand Gr | ains. | | Pore Lining, M=Matrix. |
| ydric Soil Indicators: (Applicable to all L 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 Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) | Polyvalue Be Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mail Redox Dark S Depleted Dar Redox Depre Marl (F10) (L Depleted Oct Iron-Mangany Umbric Surfa Delta Ochric Reduced Ver Piedmont Flo | low Surface (S9) y Mineral (I d Matrix (F3) Surface (F6 k Surface (F6 k Surface (F1) (F11) (I ese Masse ce (F13) (I (F17) (MLI tic (F18) (N codplain So | e (S8) (I (LRR S, F1) (LRF F2) G) (F7)) MLRA 1 S (F12) (LRR P, T RA 151) MLRA 1 | T, U) 51) LRR O, P, (1) 50A, 150B) (MLRA 149 | 1 cm Muck 2 cm Muck Reduced V Piedmont F Anomalous (MLRA 1 Red Paren Very Shallo Other (Exp | (A10) (LRR S) Yertic (F18) (outside MLRA 150A,E Floodplain Soils (F19) (LRR P, S, T E Bright Loamy Soils (F20) 53B) It Material (TF2) Ow Dark Surface (TF12) Ialin in Remarks) Is of hydrophytic vegetation and Inhydrology must be present, disturbed or problematic. |
| estrictive Layer (if observed): Type: Depth (inches): emarks: | | | | | Hydric Soll Pre | sent? YesNo_X |
| | | | | | | |
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Upland data point wcho008_u facing west.



Upland data point wcho008_u facing east.

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| Project/Site: ACP | City | y/County: Chesapeake Sampling Date: 10/110/ |
|--|---|--|
| Applicant/Owner:DOMINIO] | A | State: VA Sampling Point: Wcho Oos |
| Investigator(s): K-Markha | M. S. IOSOFA Sec | ction, Township, Range: NA |
| Landform (hillslope, terrace, etc.): POV | | cal relief (concave, convex, none): NONQ Slope (%): 0 |
| Landform (missiope, terrace, etc.). 100 | T Lat: 36.76 | |
| Subregion (LRR or MLRA): LRR | Dologe Nylon Ided | |
| Soil Map Unit Name: Tomotley | - veluss - urban luna | (UMPLEX, O to 1/2 NWI classification: PEM |
| Are climatic / hydrologic conditions on | the site typical for this time of year? | Yes No (If no, explain in Remarks.) |
| Are Vegetation, Soil, o | r Hydrology significantly dist | turbed? Are "Normal Circumstances" present? Yes No |
| Are Vegetation, Soil, c | | |
| The second section of the second section is a second section of the second section of the second section is a second section of the second section sec | | ampling point locations, transects, important features, et |
| and a second | × | |
| Hydrophytic Vegetation Present? | Yes No No | Is the Sampled Area |
| Hydric Soil Present? | Yes No | within a Wetland? Yes No |
| Wetland Hydrology Present? Remarks: | Yes No | |
| HYDROLOGY | 62.20x2886.000 | |
| Wetland Hydrology Indicators: | | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one i | s required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) | Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) | Marl Deposits (B15) (LI | .RR U) Drainage Patterns (B10) |
| ∑ Saturation (A3) | Hydrogen Sulfide Odor | (C1) Moss Trim Lines (B16) |
| Water Marks (B1) | 20 TO A 1 TO 3 TO THE WORLD TO A STATE OF A | s along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) | Presence of Reduced I | kuningking (j. 1944) (j. 1945) (j. |
| Drift Deposits (B3) | Recent Iron Reduction | 않을 경기가 되었다. 하는데 얼마는 아이들 마음을 살아 있는데 아이들 아이들 아이들 때문에 가장 그렇게 되었다. 그는데 얼마를 살아내는 것이 하는데 그렇게 되었다면 그렇게 |
| Algal Mat or Crust (B4) | Thin Muck Surface (C7 | 1), 보지 않는데 보고 있는데 하나 보는데 10mg 10mg 10mg 10mg 10mg 10mg 10mg 10mg |
| Iron Deposits (B5) Inundation Visible on Aerial Imag | Other (Explain in Rema | Shallow Aquitard (D3) FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | ery (b/) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | | Spriagridit moss (bb) (ERR 1, b) |
| Surface Water Present? Yes | No Depth (inches); | 4 |
| Water Table Present? Yes | No Depth (inches): | |
| Saturation Present? Yes | No Depth (inches): | Wetland Hydrology Present? Yes No |
| (includes capillary-fringe) | | |
| Describe Recorded Data (stream gau | ge, monitoring well, aerial photos, p | revious inspections), if available: |
| Remarks: | | |
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| Absolute Dominant Indicator | Dominance Test worksheet: | | |
|--|--|--|--|
| % Cover Species? Status | Number of Dominant Species That Are OBL, FACW, or FAC:(A) | | |
| | | | |
| | Total Number of Dominant Species Across All Strata:(B) | | |
| | Percent of Dominant Species | | |
| | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) | | |
| | Prevalence Index worksheet: | | |
| AND THE PART OF THE PARTY OF TH | Total % Cover of: Multiply by: | | |
| | OBL species x 1 = | | |
| | FACW species x 2 = | | |
| 20% of total cover: | FAC species x 3 = | | |
| | FACU species x 4 = | | |
| | UPL species x 5 = | | |
| | Column Totals: (A) (B) | | |
| | | | |
| | Prevalence Index = B/A = | | |
| | Hydrophytic Vegetation Indicators: | | |
| | 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% | | |
| | 3 - Prevalence Index is ≤3.0¹ | | |
| = Total Cover | Problematic Hydrophytic Vegetation¹ (Explain) | | |
| | Problematic Hydrophytic vegetation (Explain) | | |
| | ¹ Indicators of hydric soil and wetland hydrology must | | |
| 40 Y OBL | be present, unless disturbed or problematic. | | |
| 15 N (BL | Definitions of Four Vegetation Strata: | | |
| 10 N OBL | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or | | |
| 10 N OBL | more in diameter at breast height (DBH), regardless of | | |
| 10 N UNK | height. | | |
| IS N FACW | Sapling/Shrub - Woody plants, excluding vines, less | | |
| | than 3 in. DBH and greater than 3.28 ft (1 m) tall. | | |
| | Herb - All herbaceous (non-woody) plants, regardless | | |
| | of size, and woody plants less than 3.28 ft tall. | | |
| 5 N FACW | Woody vine - All woody vines greater than 3.28 ft in | | |
| | height. | | |
| - Indiana di | A part of the second se | | |
| Tab = Total Cover | Processor of the North Co. | | |
| 20% of total cover: | The Part of Contract of Contra | | |
| | A STREET OF THE PROPERTY OF TH | | |
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| | Hydrophytic | | |
| C) | Vegetation | | |
| = Total Cover 20% of total cover: | Vegetation Present? Yes No | | |
| | Cover Species? Status O = Total Cover 20% of total cover: 40 | | |

| Profile Description: (Describe to the dep | | x Features | | or confirm | n the absence | of indicators.) |
|--|--|---|--|---|---|--|
| Depth Matrix (inches) Color (moist) % | Color (moist) | % | Type | Loc ² | Texture | Remarks |
| 0-90 104x 3/2 100 | | | | | CL | Silty-loan |
| 9-20 104R412 80 | 104K4110 | 20 | C | M | SC | |
| Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators: (Applicable to all 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 150, Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleved Matrix (S4) | LRRs, unless othe Polyvalue Be Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Marl (F10) (L Depleted Oc Iron-Mangan | rwise note elow Surface urface (S9) yy Mineral (ed Matrix (F3) Surface (F rk Surface essions (F6 LRR U) hric (F11) ese Masse ace (F13) ((F17) (ML | ed.) ce (S8) (L (LRR S, (F1) (LRR F2) 6) (F7) 3) (MLRA 1: es (F12) (LRR P, T | RR S, T, U T, U) (O) (51) LRR O, P, | Indicators J) 1 cm M 2 cm M Reduct Piedm Anoma (MLi Red P Very S Other T) 3Indicators | PL=Pore Lining, M=Matrix. In for Problematic Hydric Soils ³ : Muck (A9) (LRR O) Muck (A10) (LRR S) Ided Vertic (F18) (outside MLRA 150A, B) Ident Floodplain Soils (F19) (LRR P, S, T) Idelous Bright Loamy Soils (F20) RA 153B) Ident Material (TF2) Shallow Dark Surface (TF12) (Explain in Remarks) Ident Hydrology must be present, Idens disturbed or problematic. |
| Sandy Gleyed Matrix (S4) | | | | | | |
| Sandy Redox (S5) | Piedmont Flo | | | | 19A) RA 149A, 153C | 1530) |
| Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) | Anomalous | origint Loan | ily Solis (| (ME) | in 143n, 1330 | ., 1555) |
| Restrictive Layer (if observed): | | | | | T | |
| Type: | | | | | | V |
| Depth (inches): | | | | | Hydric Soil | Present? Yes No |
| | | | | | • | |
| | | | | | | |
| | | | | | | |



Wetland data point wcho005e_w facing west.



Wetland data point wcho005e_w facing east.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: Applicant/Owner: Section, Township, Range: _______ Investigator(s): Local relief (concave, convex, none): 10 10 Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): LRR Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) , or Hydrology _ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) 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) Thin Muck Surface (C7) Geomorphic Position (D2) Iron Deposits (B5) Other (Explain in Remarks) Shallow Aguitard (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? Water Table Present? Depth (inches): Saturation Present? Depth (inches): Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

| VEGETATION (1 dai datata) - Ose deletitation (1 | Absolute Dominant Indicator | Dominance Test worksheet: |
|--|--|--|
| Tree Stratum (Plot size: 30) 30ft) 1. NONE | % Cover Species? Status | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2 | | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| · 6. | | Prevalence Index worksheet: |
| 7, | | Total % Cover of: Multiply by: |
| 8. | | |
| An one action from the contract of the first and the contract of the contract | = Total Cover | OBL species x1 = FACW species 5 |
| Sapling/Shrub Stratum (Plot size: 30 x 30 ft) | 20% of total cover: | FAC species 50 x3= 150 |
| 0000 | | FACU species x 4 = |
| 1. NOTE | | UPL species 40 x5 = 200 |
| 3. | | Column Totals: 95 (A) 260 (B) |
| 4. | | Prevalence Index = B/A = 2.73 |
| 5. | | Hydrophytic Vegetation Indicators: |
| 6. | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | 2 - Dominance Test is >50% |
| 8 | | X 3 - Prevalence Index is ≤3.01 |
| 12 Special Control St., and policy of the control o | = Total Cover | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | 20% of total cover: | The second of the second secon |
| Herb Stratum (Plot size: 30\x30 ft) 1. D(01+0) d Sp- | 50 Y FAC/UPL | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2. ZONSIA Sp. | 40 Y UPL | Definitions of Four Vegetation Strata: |
| 3 Centella erecta | 5 N FACW | |
| 4. unidentified herb | 10 N unk. | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. |
| 5 | THE CONTRACTOR OF THE PARTY. | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8, | Transmitted to the se | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 9. (## 17 18 ## 17 18 ## 17 18 ## 18 ## 18 18 ## 18 ### 18 ## 18 ## 18 ## 18 ## 18 ### 18 ## 18 ### 18 ### 18 ### 18 ### 18 ### 18 ### 18 ### 18 ## | | |
| 1011 | | Woody vine - All woody vines greater than 3.28 ft in height. |
| 12. | - Committee of the comm | Extra control of the |
| 47 | 95 = Total Cover 9 20% of total cover: | The state of the s |
| 50% of total cover: 11 | 20% of total cover: | |
| Woody Vine Stratum (Plot size: 30 X30ft) | | White the control which is considered as placed and again and a |
| 1. none | | |
| 2. | | |
| 3 | | |
| 4. | | Hydrophytic |
| 3. | O = Total Cover | Vegetation Present? Yes No |
| 50% of total cover: | 20% of total cover: | Present? Yes No |
| D | alous) | |
| Hydrophytic regetation would , | 10t be met if Dig | itaria sp is one of the FAC or UPL |
| species. Based on mowed | condition, not identi | itaria sp. is one of the FAC or UPL fied to species, so assumed to |
| be one of the FAC specie | g to be conservenue. | |
| | | |
| | | |
| | | |

| Depth | cription: (Describe Matrix | | Rede | ox Feature | s | | | | | |
|---|---|--|---|---|---|--|--|--|--|---|
| inches) | Color (moist) | % | Color (moist) | % | Type | Loc2 | Texture | 80.4 | Remarks | a cha I Cu |
| 1-10 | 104R 3/2 | | | | | 0.0 | SL | 750 | 1. unm | askod So |
| 0-18 | 104K315 | 75 | 104K 7110 | 5 | C | IVI | SCL | | | |
| 3-20 | 1048410 | 50 | 10VR 3/2 | 50 | | 700 | CS | Mixe | d mat | VIX |
| ydric Soil Histosoi Histic E Black H Hydrogo Stratifie Organic 5 cm Mo Muck P 1 cm Mo Deplete Thick D Coast F Sandy F Sandy F | pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR P ucky Mineral (A7) (LR resence (A8) (LRR P, T) d Below Dark Surfac ark Surface (A12) frairie Redox (A16) (Mucky Mineral (S1) (I Gleyed Matrix (S4) Redox (S5) | able to all , T, U) RR P, T, U)) e (A11) | LRRs, unless othe Polyvalue B Thin Dark S Loamy Mucl Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depr Marl (F10) (i Depleted Oc Iron-Mangar Umbric Surf Reduced Ve Piedmont FI | erwise note elow Surface (S9) ky Mineral ed Matrix (F3) Surface (Fark Surface (F11) chric (F11) nese Massiace (F13) (C) (F17) (ML ertic (F18) (c) coodplain S | ed.) ce (S8) (I) (LRR S, (F1) (LRF F2) 66) (F7) 8) (MLRA 1 es (F12) (LRR P, T RA 151) MLRA 15 oils (F19) | RR S, T, U T, U) (O) (S1) LRR O, P, (U) (MLRA 14 | Indicators Indica | PL=Pore Lir s for Problem Muck (A9) (Li Muck (A10) (Li ced Vertic (F1 nent Floodplai allous Bright L .RA 153B) Parent Materia Shallow Dark (Explain in R cators of hydr etland hydrolo less disturbed | atic Hydric S RR O) RR S) 8) (outside N n Soils (F19) oamy Soils (F I (TF2) Surface (TF1: emarks) cphytic veget | Solls ³ : ILRA 150A,E (LRR P, S, T F20) 2) ation and esent, |
| _ Dark Su estrictive | l Matrix (S6) Irface (S7) (LRR P, S Layer (If observed): | | Anomalous | Bright Loai | ny sons (| r20) (WER | RA 149A, 1530 | -, 1330) | | |
| Type: | ches): | ANDRE DE LA COMPANION DE LA CO | | | | | Hydric Sol | I Present? | Yes X | No |
| | | | | | | | 1 | | | |
| | | | | | | | | | | |



Upland data point wcho005_u facing west.



Upland data point wcho005_u facing east.

| WETLAND DETERMINATION DATA FOR | M – Atlantic and Gulf Coastal Plain Region |
|--|---|
| Project/Site: City/C | County: Chesapeate Sampling Date: 10/20/19 |
| Applicant/Owner: Dominion | State: VA Sampling Point: wcho 009f |
| Investigator(s): L. Loper, S. Iosefa Section | on, Township, Range: None |
| Landform (hillslope, terrace, etc.): drainage, Canal Local | relief (concave, convex, none): NVVV Slope (%): 0 - 5 |
| Subregion (LRR or MLRA): LPRT Lat: 36.764 | Long: -76.32339 Datum: WGS8 |
| Soil Map Unit Name: Prayston-Urban land-Tomot | - PAL COMOLEX ANAL description: DED |
| V. | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Y | , , |
| Are Vegetation, Soil, or Hydrology significantly disturb | |
| Are Vegetation, Soil, or Hydrology naturally problems | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing sam | ppling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No | Is the Sampled Area |
| Hydric Soil Present? Yes X No | within a Wetland? Yes No |
| Wetland Hydrology Present? Yes No | |
| Remarks: | |
| | |
| | |
| NCWAM: Riverine Swamp Forest | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LRF | |
| Saturation (A3) Hydrogen Sulfide Odor (C | |
| Water Marks (B1) Oxidized Rhizospheres al | |
| Sediment Deposits (B2) Presence of Reduced Iron Drift Deposits (B3) Recent Iron Reduction in | |
| Algal Mat or Crust (B4) Thin Muck Surface (C7) | Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in Remark | |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | ΙΔ |
| Surface Water Present? Yes No Depth (inches): | 1 |
| Water Table Present? Yes X No Depth (inches): | <u> </u> |
| Saturation Present? Yes X No Depth (inches): | Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous) | vious inspections), if available: |
| Remarks: | |
| partially inundated (capal). | · |
| Partially mondated (cond). | |
| | |
| | 2. |
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VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: Wchologe co

| 201/2000 | Absolute Dominant | Indicator | Dominance Test worksheet: |
|---|---------------------|---------------|---|
| Tree Stratum (Plot size: 30 X 30 ft) | % Cover Species? | | Number of Dominant Species |
| 1. Quercus nigra | 10 Y | FAC | That Are OBL, FACW, or FAC:3 (A) |
| | | | |
| | | | Total Number of Dominant |
| 3 | | | Species Across All Strata: (B) |
| 4 | | | Percent of Dominant Species |
| 5 | | | That Are OBL, FACW, or FAC: (A/B) |
| | | - ASTERNATION | |
| 6 | | | Prevalence Index worksheet: |
| 7 | | | Total % Cover of: Multiply by: |
| 8 | | | |
| 50% of total cover: 5 | D = Total Cove | er | OBL species x 1 = |
| 500% of total amore: 5 | 20% of total cover | 2 | FACW species x 2 = |
| 50% of total coyer. | 20% of total cover. | | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 20 X 30) | | | FACU species x 4 = |
| 1. none | | | |
| 2 | | | UPL species x 5 = |
| | | | Column Totals: (A) (B) |
| 3. | | | |
| 4 | | | Prevalence Index = B/A = |
| 5 | | | Hydrophytic Vegetation Indicators: |
| 6 | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | | |
| 7 | | | ✓ 2 - Dominance Test is >50% |
| 8 | | | 3 - Prevalence Index is ≤3.01 |
| 50 | = Total Cov | er | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | | | |
| Herb Stratum (Plot size: 20 X 2) +) | | | |
| Herb Stratum (Plot size: 307 A) | G V | cnow. | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1. Phraymites australis | | FACW | |
| 2. Juneus effusus | 5 Y | OBL | Definitions of Four Vegetation Strata: |
| 3, | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| | | | more in diameter at breast height (DBH), regardless of |
| 4 | | | height. |
| 5 | | | |
| 6. | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| | | | At the All hands are supported plants, to good look |
| β | | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 9 | | | of size, and woody plants less than 3.20 it tall. |
| 10 | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11 | | | height. |
| | | | |
| 12 | 10 | | |
| | 10 = Total Cov | er | |
| 50% of total cover: 5 | 20% of total cover: | | |
| Woody Vine Stratum (Plot size: 30f+ x 30f+ | | | |
| | | | |
| 1. none | | | |
| 2 | | | |
| 3. | | | |
| | | | |
| 4 | | | |
| 5 | | | Hydrophytic |
| | = Total Cov | er | Vegetation Present? Yes No |
| 50% of total cover: | 20% of total cover | | Present? Yes No No |
| | | | |
| Remarks: (If observed, list morphological adaptations bel | ow). | | |
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| Profile Description: (Describe to the depth needed to document the indicator or | r confirm the absence of indicators.) |
|--|---|
| Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type | Loc ² Texture Remarks |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | L sulfidic odor |
| | I C |
| 15-20 104R3/2 100 | |
| | |
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| | |
| | |
| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grain | ns. ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) | Indicators for Problematic Hydric Soils ³ : |
| Histosol (A1) Polyvalue Below Surface (S8) (LR | |
| Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, | |
| Black Histic (A3) Loamy Mucky Mineral (F1) (LRR C | D) Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T) |
| Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) | Anomalous Bright Loamy Soils (F20) |
| Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Redox Dark Surface (F6) | (MLRA 153B) |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) | Red Parent Material (TF2) |
| Muck Presence (A8) (LRR U) Redox Depressions (F8) | Very Shallow Dark Surface (TF12) |
| 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) | Other (Explain in Remarks) |
| Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151 | |
| Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LF | |
| Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U | U) wetland hydrology must be present, unless disturbed or problematic. |
| Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150) | |
| Sandy Gleyed Matrix (S4) Sandy Redox (S5) Reduced Vertic (F18) (MLRA 150) Piedmont Floodplain Soils (F19) (N | |
| Stripped Matrix (S6) Anomalous Bright Loamy Soils (F2) | |
| Dark Surface (S7) (LRR P, S, T, U) | |
| Restrictive Layer (if observed): | |
| Type: | |
| Depth (inches): | Hydric Soli Present? Yes X No |
| Remarks: | |
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Wetland data point wcho009f_w facing southeast.



Wetland data point wcho009f_w facing northeast.

| WETLAND DETERMINATION DATA | FORM – Atlantic and Gulf Coastal Plain Region |
|---|---|
| Δ(β | 10/20/160 |
| Project/Site: A CP | City/County: Chl apearle Sampling Date: 10/20/19 |
| Applicant/Owner: VUIVIVIVIVIVIVIVIVIVIVIVIVIVIVIVIVIVIVI | State: V/1 Sampling Point: V |
| Investigator(s): L. ROPEN S. Iosefa | Section, Township, Range: None |
| Landform (hillslope, terrace, etc.): drainage, canal | Local relief (concave, convex, none): Concave Slope (%) 0-9 |
| Subregion (LRR or MLRA): LRR T 1 Lat: 36 | .76459 Long: -76.32342 Datum: WGS9 |
| Soil Map Unit Name: Drayston - Urban land - To | |
| Are climatic / hydrologic conditions on the site typical for this time of ye | |
| Are Vegetation, Soil, or Hydrology significantly | |
| Are Vegetation, Soil, or Hydrology naturally pro- | oblematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? YesX No Hydric Soil Present? YesX No Wetland Hydrology Present? YesX No | Is the Sampled Area within a Wetland? Yes No |
| Remarks: | |
| powerline easement | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B1 | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) | |
| X Saturation (A3) X Hydrogen Sulfide (| |
| | eres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduc | |
| | tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | |
| Iron Deposits (B5) Other (Explain in R Inundation Visible on Aerial Imagery (B7) | |
| Water-Stained Leaves (B9) | FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | Spriagrum moss (bo) (LRR 1, b) |
| Surface Water Present? Yes No Depth (inches | WA |
| Water Table Present? Yes X No Depth (inches | A CONTRACT OF THE CONTRACT OF |
| Saturation Present? Yes X No Depth (inches) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photo | s, previous inspections), if available: |
| | |
| Remarks: | |
| | |
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VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: WChologe_w

| 20 × 20 Ft | | Dominant | | Dominance Test worksheet: | | |
|--|---------|--------------|------|---|----------------------------------|---|
| Tree Stratum (Plot size: 30 X 30++) | % Cover | | | Number of Dominant Species That Are OBL, FACW, or FAC: _ | 2 | (A) |
| 2 | | | | Total Number of Dominant Species Across All Strata: | 2 | (B) |
| | | | | Charles Valores Valores | | / |
| 4 | | | | Percent of Dominant Species | 100 | (A/B) |
| 5 | | | | That Are OBL, FACW, or FAC: _ | 100 | . (٨١) |
| 6 | | | | Prevalence Index worksheet: | | |
| 7 | | | | Total % Cover of: | Multiply by: | _ |
| 8 | 7 | | | OBL species x 1 | = | _ |
| | | = Total Cov | /er | FACW species x 2 | | |
| 50% of total cover: | 20% of | total cover | : | FAC species x 3 | | |
| Sapling/Shrub Stratum (Plot size: 30 (3()+1) | | | | FACU species x 4 | | |
| 1. none | | | | UPL species x 5 | | |
| 2 | | | | Column Totals: (A) | | 100000000000000000000000000000000000000 |
| 3. | | | | Coldinii Totais. | | _ (-) |
| 4 | | | | Prevalence Index = B/A = _ | | _ |
| 5 | | | | Hydrophytic Vegetation Indicate | ors: | |
| 6. | | | | 1 - Rapid Test for Hydrophytic | | |
| 7. | | | | X 2 - Dominance Test is >50% | | |
| 8. | | | | 3 - Prevalence Index is ≤3.01 | | |
| | / / | = Total Co | ver | Problematic Hydrophytic Vege | etation1 (Expl | ain) |
| 50% of total cover: | 20% of | total cover | | | | |
| Herb Stratum (Plot size: 3013011) | 10 | V | FACW | ¹ Indicators of hydric soil and wetla be present, unless disturbed or pro | | must |
| 1. Phragmites australis | 100 | 1 | OBL | Definitions of Four Vegetation S | | |
| 2. Jungus effusus | 10/1/ | | 000 | | | |
| 3 | | | | Tree - Woody plants, excluding vi | nes, 3 in. (7.6 | cm) or |
| 4 | | | | more in diameter at breast height (| (DBH), regard | liess of |
| 5 | | | | | | |
| 6 | | | | Sapling/Shrub - Woody plants, e than 3 in. DBH and greater than 3 | xcluding vine .28 ft (1 m) ta | s, less |
| 8. | | | | Herb – All herbaceous (non-wood of size, and woody plants less that | y) plants, reg | ardless |
| 9 | | | | or size, and woody plants less that | 11 3.20 It tail. | |
| 10 | | | | Woody vine – All woody vines green height. | eater than 3.2 | 28 ft in |
| | | | | | | |
| 12. | TAG | = Total Co | Ver | | | 1 |
| 50% of total cover: 50 | 2006 0 | total cove | 21) | | | |
| 30% ditotal cover. <u>070</u> | 20% 0 | total cove | | | | |
| Woody Vine Stratum (Plot size:3() X3077) | | | | 1 | | |
| 1. none | | | | | | - 1 |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | Hydrophytic | | |
| | | = Total Co | | Vegetation Present? Yes X | No | |
| 50% of total cover: | 20% o | f total cove | r: | 110001111 | | |
| Remarks: (If observed, list morphological adaptations bel- | ow). | | | | | |
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| Profile Description: (Describe to the depth | needed to document the maicator of confirm | the absence of indicators.) |
|--|---|--|
| Depth Matrix | Redox Features | |
| (inches) Color (moist) % | Color (moist) % Type Loc² | Texture Remarks |
| 0-15 10YR3/1 100 | | L sulfidic odor |
| 155-20 10 YR3/2 1011 _ | | LS |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| ¹ Type: C=Concentration, D=Depletion, RM=R | educed Matrix, MS=Masked Sand Grains. | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil Indicators: (Applicable to all LF | Rs, unless otherwise noted.) | Indicators for Problematic Hydric Solls ³ : |
| 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) |
| X 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) |
| Organic Bodies (A6) (LRR P, T, U) | Redox Dark Surface (F6) | (MLRA 153B) |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) | Depleted Dark Surface (F7) Redox Depressions (F8) | Red Parent Material (TF2) Very Shallow Dark Surface (TF12) |
| Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) | Marl (F10) (LRR U) | Other (Explain in Remarks) |
| Depleted Below Dark Surface (A11) | Depleted Ochric (F11) (MLRA 151) | - Company of the Company |
| Thick Dark Surface (A12) | Iron-Manganese Masses (F12) (LRR O, P, | T) ³ Indicators of hydrophytic vegetation and |
| Coast Prairie Redox (A16) (MLRA 150A) | Umbric Surface (F13) (LRR P, T, U) | wetland hydrology must be present, |
| Sandy Mucky Mineral (S1) (LRR O, S) | Delta Ochric (F17) (MLRA 151) | unless disturbed or problematic. |
| Sandy Gleyed Matrix (S4) | Reduced Vertic (F18) (MLRA 150A, 150B) | Market Land |
| Sandy Redox (S5) | Piedmont Floodplain Soils (F19) (MLRA 14 | |
| Stripped Matrix (S6) | Anomalous Bright Leamy Soils (F20) (MLR. | A 149A, 153C, 153D) |
| | | |
| Dark Surface (S7) (LRR P, S, T, U) | | I |
| Restrictive Layer (If observed): | | ., |
| Restrictive Layer (If observed): Type: | _ | Hydric Soil Present? Yes X No |
| Restrictive Layer (if observed): Type: Depth (inches): | _ | Hydric Soli Present? Yes X No |
| Restrictive Layer (If observed): Type: | | Hydric Soli Present? Yes X No |
| Restrictive Layer (if observed): Type: Depth (inches): | _ | Hydric Soli Present? Yes X No |
| Restrictive Layer (if observed): Type: Depth (inches): | _ | Hydric Soil Present? Yes No |
| Restrictive Layer (if observed): Type: Depth (inches): | _ | Hydric Soli Present? Yes No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soll Present? Yes X No No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soll Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soll Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soll Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soll Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soll Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soli Present? Yes X No No |
| Restrictive Layer (if observed): Type: Depth (inches): | | Hydric Soll Present? Yes X No No |



Wetland data point wcho009e_w facing south.



Wetland data point wcho009e_w facing west.

| WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region |
|--|
| Project/Site: ACP City/County: Chesapeake Sampling Date: 10/20/15 Applicant/Owner: DUMINION State: VA Sampling Point: Wcho 00' Investigator(s): Leoper 5 Ioseta Section, Township, Range: NA Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-2 Subregion (LRR or MLRA): Lert Lat: 36.76466 Long: -716.32344 Datum: M/7559 |
| Soil Map Unit Name: Dragston-Urban land-Tomotley complex NWI classification: NA |
| |
| 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 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? Hydric Soil Present? Wetland Hydrology Present? Yes No Yes No Yes No No Yes No Remarks: |
| HYDROLOGY Western Western Section 1 and 1 |
| Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) 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) Thin Muck Surface (C7) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) Field Observations: |
| Surface Water Present? Yes No Depth (inches): NA Water Table Present? Yes No Depth (inches): 15 Saturation Present? Yes No Depth (inches): 15 (includes capillary fringe) Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |
| Remarks: Could not auger past 15 inches |

| 20/20 | Absolute | | Indicator | Dominance Test worksheet: |
|--|---------------|--|-----------|--|
| Tree Stratum (Plot size: 30 x 30 | | Species? | | Number of Dominant Species |
| 1. Lia wdambar Ayraciflua | 25 | - 1/ | FAC | That Are OBL, FACW, or FAC:(A) |
| 2. Prunus serotina | 10 | _ N | FACU | Total Number of Dominant |
| 3. Quercus Phellos | 35 | | FACW | Species Across All Strata: (B) |
| 4 | | | | Percent of Dominant Species |
| 5 | | | | That Are OBL, FACW, or FAC: 881 (A/B) |
| 6. | | | | |
| 7. | | | | Prevalence Index worksheet: |
| 8. | | | | Total % Cover of: Multiply by: |
| · | | = Total Co | ver | OBL species x 1 = |
| 50% of total cover: 35 | | total cover | | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 2013011) | 20% 0 | total cover | | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 2014 2011) | 21 | ٧ | FACW | FACU species x 4 = |
| 1. Quercus phellos | 40 | N | FAC | UPL species x 5 = |
| 2 Quercus nigra | | 10 | | Column Totals: (A) (B) |
| 3. Buercus alba | 15 | 1 | FACU | Column rotals. |
| 4 | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7. | | | | X 2 - Dominance Test is >50% |
| 8. | | | | 3 - Prevalence Index is ≤3.0¹ |
| | 40 | = Total Co | ver | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 20 | | | | Problematic Hydrophytic Vegetation (Explain) |
| Herb Stratum (Plot size: 30 x 30 ++) | 20700 | total cover | | |
| Herb Stratum (Pict size: 30 k 30 FT) | 5 | V | FACU | Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 1. Quercus phellos | 10 | Contract of the Contract of th | FAC | |
| 2. Querous nigra | 10 | | FHC | Definitions of Four Vegetation Strata: |
| 3 | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of |
| 5 | | | | height. |
| 6 | | - 1 1 1 | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| | | | | |
| 10 | | | | Woody vine – All woody vines greater than 3.28 ft in height. |
| 11 | | | | neight. |
| 12 | 15 | | | |
| 7 | | = Total Co | - | |
| 50% of total cover: | <u> 20% o</u> | f total cove | r | |
| Woody Vine Stratum (Plot size: 30 x 30 Pt) | <u>-</u> | | FIG | |
| 1. Smilax rotundifolia | 9 | <u> </u> | FHC | |
| 2. Vitis rotundifolia | 3 | 7 | FHC | |
| 3. | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| J | 8 | = Total Co | wer | Vegetation |
| 5000 -54-4-1 | | f total cove | 1 4 | Present? Yes No No |
| 50 % of total cover: | | i total cove | 1 | |
| Remarks: (If observed, list morphological adaptations beli | ow). | | | |
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| | tion: (Bosenbo | | modada to accam | | | the absence | or maioarbi s., | |
|-----------------|------------------------|---------------|--------------------|--------------------|------------------|-----------------------|-------------------|-------------------------------|
| Depth _ | Matrix | | | Features | | | | |
| (inches) | Color (moist) | - % | Color (moist) | % Type | Loc ² | Texture | R | emarks |
| 1-15 | 04K 414 | 100 | | | | ra. | | |
| | | | | | | | | |
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| - | | | | | | 2 | | |
| 'Type: C=Cond | entration, D=Depl | letion, RM=F | Reduced Matrix, MS | =Masked Sand G | rains. | | PL=Pore Lining. | |
| Hydric Soil Inc | licators: (Application | able to all L | RRs, unless other | | | | | : Hydric Soils ³ : |
| Histosol (A | 1) | | Polyvalue Bel | ow Surface (S8) (| LRR S, T, U | | uck (A9) (LRR (| 5.15 (9) |
| Histic Epip | edon (A2) | | Thin Dark Sur | face (S9) (LRR S | , T, U) | | uck (A10) (LRR | |
| Black Histin | (A3) | | Loamy Mucky | Mineral (F1) (LR | R O) | | | outside MLRA 150A,B) |
| Hydrogen 8 | Sulfide (A4) | | Loamy Gleyer | d Matrix (F2) | | Piedmo | ent Floodplain So | oils (F19) (LRR P, S, T) |
| Stratified L | ayers (A5) | | Depleted Matr | | | | lous Bright Loan | ny Soils (F20) |
| Organic Bo | dies (A6) (LRR P, | T, U) | Redox Dark S | | | 1.00 | A 153B) | |
| 5 cm Muck | y Mineral (A7) (LF | R P, T, U) | Depleted Dark | Surface (F7) | | | rent Material (Ti | |
| Muck Pres | ence (A8) (LRR U |) | Redox Depres | ssions (F8) | | | nallow Dark Surf | |
| 1 cm Muck | (A9) (LRR P, T) | | Marl (F10) (LF | | | Other (| Explain in Rema | arks) |
| Depleted B | elow Dark Surface | e (A11) | Depleted Och | ric (F11) (MLRA | 151) | | | |
| Thick Dark | Surface (A12) | | Iron-Mangane | se Masses (F12) | (LRR O, P, | T) ³ Indic | ators of hydroph | ytic vegetation and |
| Coast Prair | ie Redox (A16) (N | 1LRA 150A) | Umbric Surface | e (F13) (LRR P, | T, U) | wet | and hydrology m | nust be present, |
| Sandy Mud | ky Mineral (S1) (L | .RR O, S) | Delta Ochric (| F17) (MLRA 151) | 1 | unie | ss disturbed or p | problematic. |
| Sandy Gle | yed Matrix (S4) | | Reduced Vert | ic (F18) (MLRA 1 | 50A, 150B) | | | |
| Sandy Red | ox (S5) | | Piedmont Floo | odplain Soils (F19 |) (MLRA 149 | 9A) | | |
| Stripped M | atrix (S6) | | Anomalous Br | right Loamy Soils | (F20) (MLR/ | A 149A, 153C, | 153D) | |
| Dark Surfa | ce (S7) (LRR P, S | , T, U) | | | | | | |
| Restrictive Lay | er ((f,observed): | | | | | | | |
| Type: () | WEARIN | | | | | | | |
| Depth (inche | 1.5- | | | | | Hydric Soll | Present? Yes | s No X |
| Deput (mone | | | | | | | | |
| Demonstra | -/- | | | | | | | |
| Remarks: | | | | 48. | | - | | |
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Upland data point wcho009_u facing southwest.



Upland data point wcho009_u facing northeast.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

| Project/Site: ACP Applicant/Owner: DOMINION State: VA Sampling Date: 12/3/19 Sampling Point: Wcho 0104 |
|---|
| Investigator(s): ESI-M. Smith, K. MUTPhrey Section, Township, Range: |
| Investigator(s): Section, Township, Range. |
| Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): None Slope (%) 0-2 |
| Subregion (LRR or MLRA): LRR T Lat: 36,76531 Long: -76.31464 Datum: W652 |
| Soil Map Unit Name: Tomotley-Nimmo complex, 0-1% Sores NWI classification: PFO |
| 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 Vegetation, Scil, 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? Hydric Soil Present? Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No |
| NCWAM; Pinc Flat |
| HYDROLOGY |
| Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) |
| 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) Thin Muck Surface (C7) Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in Remarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) |
| Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) |
| Field Observations: |
| Surface Water Present? Yes NoDepth (inches): |
| Water Table Present? Yes No Depth (inches): >20 |
| Saturation Present? Yes No Depth (inches): 12 Wetland Hydrology Present? Yes No No |
| (includes capillary fringe) |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |
| Remarks: |
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| 2 4 4 4 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|---|------------------------|------------------------|--|
| Tree Stratum (Plot size: 308+X 308+) | to the termination of the same and the same | Species? | Status | Number of Dominant Species |
| 1. Pinus taeda | 30 | <u>y</u> | FAC | That Are OBL, FACW, or FAC: (A) |
| 2. Liquidambar styracistus | 10 | 7 | FKC | Total Number of Dominant Species Across All Strata: |
| 4. | | | | |
| 5. | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: 1000 (A/B) |
| 6. | No Parish States | Light for the further. | ALICE STREET, SANGE | Prevalence Index worksheet: |
| 7. | BUGGS TO THE | | A RELIGIOUS | Total % Cover of: Multiply by: |
| 8 | 40 | THE PART OF LAND | | OBL species x 1 = |
| 2 0 | 40 | = Total Co | rer _ | FACW species x 2 = |
| 50% of total cover: 20 | 20% of | total cover | 0 | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 3081 X 3081) | 1- | V | FAC | FACU species x 4 = |
| 1. Pinas taeda | 15 | | | UPL species x 5 = |
| 2. Liquidambar Stylaciflua | 10 | | FAC | Column Totals: (A) (B) |
| 3. Quercus nigra | 5 | N N | FAC | Column Totals (1) |
| 4. Prunus serotina | 5 | - 1 | FACU | Prevalence Index = B/A = |
| 5. Movella celifera | 7 | | FAC | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8. | - | | | 3 - Prevalence Index is ≤3.0 ¹ |
| | 34 | = Total Co | rer | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: | 20% of | total cover | 6.8 | |
| Herb Stratum (Plot size: 3087 X 3087) 1. A randinaria sigentea | 90 | | FACW | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| | DATE AND | | THE PERSON NAME OF THE | Definitions of Four Vegetation Strata: |
| 2. | | TOURS OF THE PARTY | | |
| 3. | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of height. |
| 6 | CAMPAGE STREET | | | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | - | 218 No. 191 | er stelle b | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 9 | AN ARMADA STATE | | | Woody vine – All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12. | 90 | = Total Cov | er er | The second of the second secon |
| 50% of total cover: 45 | Down town in a facilitate of | total cover | . 01 | |
| Woody Vine Stratum (Plot size: 2054 X 305) | 20 /0 0 | .cai covei | PAG YAYARE | |
| 1. Smilax rotandisolia | 20 | V | FAC | |
| 1. Stifften Totalians | | -/- | 100 | |
| | 7000 770 | 30771457 | | |
| | Va.VIII SEL | | | |
| 4. | 5 12 3 miles (1875) | | | |
| 5. | 20 | | E2018 77 | Hydrophytic Vegetation |
| 10 | solemic relationship | = Total Co | Let- | Present? Yes No |
| 50% of total cover: 10 | and the second property | total cover | | THE THREE PARTY CONTROL OF THE |
| Remarks: (If observed, list morphological adaptations belo | w). | | | |
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| - 1985년에는 PC 2002년 1일 | | | | |

| Profile Desc | ription: (Describe t | o the dept | th needed to docum | nent the l | ndicator | or confirm | n the absence of | Indicators.) |
|--|--|---|--|--|----------------------------------|------------------|--|--|
| Depth (inches) | Matrix Color (moist) | % | Color (moist) | x Features | Type | Loc ² | Texture | Remarks |
| (inches) | 2.892.5/1 | 100 | Cad (mast) | | TYPE | | FSL | |
| 4 1 | | | 10,01-11 | 10 | - | ΔΔ. | SL | |
| 0-10 | 104R'5/1 | 90 | 104R6/6 | 10 | | /// | | |
| 12-20 | 104RS/1 | 90 | 104R6/6 | 10 | | M | SCL | |
| | | | | | | | | |
| | | | | | | Total A | | |
| | A TOWN BUT BY | | | | | | | |
| | | PR 10 10 10 10 10 10 10 10 10 10 10 10 10 | | 2501623 | | | | |
| | | | 5 4 4 4 4.6 | | | | 21 postion: D | L=Pore Lining, M=Matrix. |
| Type: C=Co | oncentration, D=Depl indicators: (Applica | etion, RM= | Reduced Matrix, Mc | wise note | ed.) | allis. | | r Problematic Hydric Solis ³ : |
| | | ible to an | Polyvalue Be | | | RRSTI | | ck (A9) (LRR O) |
| Histosol | pipedon (A2) | | Thin Dark Su | | | | the Artist Control of the Control of | ck (A10) (LRR S) |
| Black His | | | Loamy Mucky | STATE OF STATE OF STATE OF | The latest the first the beauty | | | Vertic (F18) (outside MLRA 150A,B) |
| The state of the s | n Sulfide (A4) | | Loamy Gleye | d Matrix (| F2) | | The state of the s | t Floodplain Soils (F19) (LRR P, S, T) |
| Stratified | Layers (A5) | | Depleted Mat | | | | | us Bright Loamy Soils (F20) |
| Account to the state of the sta | Bodies (A6) (LRR P, | The second second second | Redox Dark S | STATE OF THE PARTY | The last of the last of the last | | (MLRA | |
| The state of the s | cky Mineral (A7) (LR | | Depleted Dar | | | | The second secon | ent Material (TF2) Illow Dark Surface (TF12) |
| Committee of the Commit | esence (A8) (LRR U) | | Redox Depre Marl (F10) (L | AND THE RESERVE OF THE PARTY OF | B) | | | xplain in Remarks) |
| The second of th | ck (A9) (LRR P, T) Below Dark Surface | (Δ11) | Depleted Oct | The state of the s | (MLRA 1 | 51) | Other (2. | Aprail III Nomanay |
| | rk Surface (A12) | (311) | Iron-Mangane | | | | T) 3Indicat | ors of hydrophytic vegetation and |
| Chil Symbolic collusions | rairie Redox (A16) (N | ILRA 150A | Experience of the second secon | | | | wetlar | nd hydrology must be present, |
| C 2004 - Programme Control (1982) | lucky Mineral (S1) (L | | Delta Ochric | (F17) (ML | RA 151) | | unles | s disturbed or problematic. |
| Sandy G | sleyed Matrix (S4) | | Reduced Ver | | | | | |
| and the second state of the second state of | edox (S5) | | Piedmont Flo | odplain S | oils (F19) | (MLRA 14 | 49A) | E2D) |
| C | Matrix (S6) | | Anomalous B | Bright Loar | ny Soils (| F20) (WLF | RA 149A, 153C, 1 | 530) |
| | rface (S7) (LRR P, S Layer (if observed): | | | | 12 45 468 TV 1.1 | grane hada | | |
| | Layer (II observed). | | | | | | | |
| Type: | | | | | | | Hydric Soll P | resent? Yes No |
| Depth (inc | cnes): | | | | | | Tiyane con t | The second secon |
| Remarks: | | | | | | | | |
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| Section Contracts | | The Alman | | STATE OF | all the sale factor | | SAN AND RELATED AND AND AND AND AND AND AND AND AND AN | |



Wetland data point wcho010f_w facing northeast.



Wetland data point wcho010f_w facing southwest.

Photo Sheet 1 of 1

| | M – Atlantic and Gulf Coastal Plain Region |
|--|---|
| Project/Site: ACP City/C | County: Checapeate Sampling Date: 10/20/19 |
| Applicant/Owner: DOMINION | State: VA Sampling Point: WWW.0000e. |
| Investigator(s): L-ROPER G. TWEFA Section | on, Township, Range: N/A |
| Landform (hillslope, terrace, etc.): Terrace Local | relief (concave, convex, none): <u>none</u> Slope (%). 0-2 |
| Subregion (LRR or MLRA): LRRT Lat: 36,764 | 039 Long: -76.32019 Datum: WASO |
| Soil Map Unit Name: Tomotley - Nimmo complex | A |
| Are climatic / hydrologic conditions on the site typical for this time of year? | ./ |
| Are Vegetation, Soil, or Hydrology significantly distur | |
| Are Vegetation, Soil, or Hydrology naturally problems | |
| SUMMARY OF FINDINGS - Attach site map showing san | npling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No | Is the Sampled Area within a Wetland? Yes No |
| Powerline easement | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LRI | R U) Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide Odor (C | C1) Moss Trim Lines (B16) |
| Water Marks (B1) Oxidized Rhizospheres a | along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduced Iro | n (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) Thin Muck Surface (C7) | Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in Remark | |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | A 1/\(\) |
| Surface Water Present? Yes No Depth (inches): | NIT |
| Water Table Present? Yes No _X Depth (inches): | × 12 |
| Saturation Present? Yes No _X Depth (inches): | Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: |
| | * |
| Remarks: could not auger past 12 inches | |
| (out of dage prosent | |
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| Eq. | |

| 2202744 | | Dominant | | Dominance Test worksheet: |
|---|----------|---------------|--------|---|
| Tree Stratum (Plot size: 20 X30++) | % Cover | Species? | Status | Number of Dominant Species |
| 1. none | | | | That Are OBL, FACW, or FAC: (A) |
| 2. | | | | Total Number of Deminant |
| 3. | | | | Total Number of Dominant Species Across All Strata: (B) |
| | | | | Openies Across Arrenals. |
| 4 | | | | Percent of Dominant Species |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| · 6 | | | | Prevalence Index worksheet: |
| 7 | | | | |
| 8 | | | | Total % Cover of:Multiply by: |
| | () | = Total Cov | /er | OBL species x 1 = |
| 50% of total cover; | 20% of | | | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30 X 30 + 1) | | total cover | | FAC species x 3 = |
| | | | | FACU species x 4 = |
| 1. none | | | | UPL species x 5 = |
| 2 | | | | Column Totals: (A) (B) |
| 3. | | | | Column Totals(A)(B) |
| 4. | | | | Prevalence Index = B/A = |
| 5 | | | | |
| | | | | Hydrophytic Vegetation Indicators: |
| 6. | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7. | | | | 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.01 |
| | | = Total Co | /er | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | 20% of | total cover | - | |
| Herb Stratum (Plot size: 30 X 30 A) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Panicum Virgatum | 60 | V | FAC | be present, unless disturbed or problematic. |
| | 20 | N | | |
| 2. Arundinaria gigantea | | | FACH | Definitions of Four Vegetation Strata: |
| 3. Solidago altissima | 15 | N | FACU | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. Solidago bicolor | 0 | IA | UPL | more in diameter at breast height (DBH), regardless of |
| 5. Dicharthelium acuminatum | 30 | У | FAC | height. |
| 6. Rubus arguhus | 10 | N | FAL | Sapling/Shrub - Woody plants, excluding vines, less |
| | 15 | N | FAL | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7. Sacharum giganteram | -10 | | 11/60 | 3 SERVINE AND CORP. THE SECTION OF STREET, THE SECTION OF SECTION |
| 8. | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12 | | | | 10.0 |
| 12. | 155 | = Total Co | /er | |
| 50% of total cover: 771 | = 2001 - | - Idai oo | . 21 | |
| 50% of total cover: 771 | 20% 0 | r total cover | . 31 | |
| Woody Vine Stratum (Plot size: 3017017) | | | | |
| 1. none | | | | |
| 2 | | | | |
| 3. | | | | |
| | | | | |
| 4 | | - | | |
| 5 | | | | Hydrophytic |
| | | = Total Co | | Vegetation Present? Yes No |
| 50% of total cover: | 20% o | f total cove | r: | Plesenti 163 4 110 |
| Remarks: (If observed, list morphological adaptations bel | | | | |
| Tremains. (II observed, iist merpherogram and pro- | | | | |
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| Lining Des | cription: (Describe | to the debut | needed to docu | ment the t | ndicator | or confirm | the absence | of indicators.) |
|--------------------------------|-----------------------------------|----------------|---------------------------|-------------|--------------|--------------|---------------|---|
| Depth | Matrix | | Redo | ox Feature | | | | |
| (inches) | Color (moist) | 0/10 1/ | Color (moist) | % | Type | Loc² | Texture | Remarks |
| 0-12 | 104K 4/1 | 90 10 | 14R310 | 10 | (1 | M | C | Graves preferi |
| 17- | | | | | | | | , |
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| - | | | | | | | 2 | |
| 'Type: C=C | Concentration, D=Dep | letion, RM=Re | educed Matrix, M | S=Maskec | Sand Gra | ains. | | PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (Applic | able to all LR | | | | | | s for Problematic Hydric Soils ³ : |
| Histoso | | 19 | Polyvalue Be | | | | | Muck (A9) (LRR O) |
| | pipedon (A2) | 24 | Thin Dark S | | | | | Muck (A10) (LRR S) |
| | listic (A3) | 9 | Loamy Muck | - | | 0) | | ced Vertic (F18) (outside MLRA 150A,B) nont Floodplain Soils (F19) (LRR P, S, T) |
| | en Sulfide (A4) ed Layers (A5) | | Loamy Gley X Depleted Ma | | F2) | | | alous Bright Loamy Soils (F20) |
| | Bodies (A6) (LRR P | TU | Redox Dark | | 6) | | | RA 153B) |
| _ | ucky Mineral (A7) (LI | | Depleted Da | , | • | | • | Parent Material (TF2) |
| | resence (A8) (LRR L | | Redox Depr | essions (F | 3) | | Very S | Shallow Dark Surface (TF12) |
| _ | uck (A9) (LRR P, T) | | Marl (F10) (I | LRR U) | | | Other | (Explain in Remarks) |
| Deplete | ed Below Dark Surfac | e (A11) | Depleted Oc | | | | - | |
| | ark Surface (A12) | | Iron-Mangar | | | | • | cators of hydrophytic vegetation and |
| _ | Prairie Redox (A16) (1 | | Umbric Surf | | | , U) | | tland hydrology must be present, |
| | Mucky Mineral (S1) (I | LRR O, S) | Delta Ochric | | | 0.5.4508) | un | less disturbed or problematic. |
| | Gleyed Matrix (S4) | | Reduced Ve Piedmont FI | | | | 241 | |
| | Redox (S5) d Matrix (S6) | | Anomalous | | | | | 2. 153D) |
| | urface (S7) (LRR P, \$ | s. T. U) | Alomaious | Drigin Loui | 11) 00113 (1 | 20) (111211) | 1 14071, 1000 | , 1002/ |
| | מוומטט (טוי) (בווווני) | , ,, ,, | | | | | | |
| Restrictive | Laver (if observed): | | | | | | | |
| | Layer (if observed) | n | | | | | | |
| Type: | comput 10 | n | _ | | | | Hydric Sol | 1 Present? Yes X No |
| Type: Depth (in | comput 10 | n | - | | | | | I Present? Yes X No |
| Type: Depth (in Remarks: | comput 10 | n | t 10 in | chor | due | to 1 | | |
| Type: Depth (in | comput 10 | n | + 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | + 12 in | chs, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | + 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | t 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | + 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - + 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - + 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | t 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - + 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | t 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | t 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - + 12 in | ches, | due | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - + 12 in | ches, | | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - + 12 in | ches, | | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - + 12 in | ches, | | to | | |
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| Type: Depth (in Remarks: | comput 10 | n | - 1 12 in | ches, | | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - 1 12 in | ches, | | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - + 12 in | ches, | | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - + 12 in | ches, | | to | | |
| Type: Depth (in Remarks: | comput 10 | n | - + 12 in | ches, | | to | | |



Wetland data point wcho010e_w facing south.



Wetland data point wcho010e_w facing east.

| WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region |
|--|
| Project/Site: ACP City/County: CMS9PEAKe Sampling Date: 10/20/1 |
| Applicant/Owner: DOMMON State: VA Sampling Point: WChoUI |
| Investigator(s): L-Rober, S-Togefd Section, Township, Range: N/A |
| Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): NVL Slope (%): 0 - 7 |
| Subregion (LRR or MLRA): LRRT Lat: 36.76404 Long: -76.32039 Datum: WAS |
| Soil Map Unit Name: Tomotley - Nimmo complex NWI classification: NA |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.) |
| Are Vegetation X, Soil X, 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? Hydric Soil Present? Wetland Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No |
| Remarks: |
| powerline easement |
| HYDROLOGY |
| Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) |
| 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) |
| Drift Deposits (B3) Recent Iron Reduction in Tilled 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): N/A |
| Water Table Present? Yes No X Depth (inches): 12 |
| Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |
| |
| Remarks: could not auger past 12 inches |
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| 201205 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|--|----------|---------------|------------------------------|---|
| Tree Stratum (Plot size: 30 x 30 x +) | 15.00 | Species? | 10011071110711107 | Number of Dominant Species |
| 1. none | | | | That Are OBL, FACW, or FAC: (A) |
| 2. | | | | Total Number of Dominant |
| 3 | | | | Species Across All Strata: (B) |
| 4 | | | | Percent of Dominant Species 67 (A/R) |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | 00.1100.000.000.000.000 | Prevalence Index worksheet: |
| 7 8 | | | | Total % Cover of: Multiply by: |
| ð | 0 | = Total Cov | er er | OBL species x 1 = |
| 50% of total cover: | | | | FACW species x 2 = |
| Carling (Charles Clasters (Diet aires 30X30FF) | | | | FAC species x 3 = |
| 1. Liquidam bar styraciflua | 10 | γ | FAC | FACU species x 4 = |
| | | | | UPL species x 5 = |
| 2. | | | 1907, 2004, 1909, 1909, 1909 | Column Totals: (A) (B) |
| 3 | | | | B. Janatana B.A. |
| 4 | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | - 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| B | 10 | = Total Cov | | 3 - Prevalence Index is ≤3.0¹ |
| 5 | 2004 = | total cover | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Herb Stratum (Plot size: 30x30++) | 20% 6 | total cover | | |
| 1. Senna obtusifolia | 36 | Y | FACU | Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| 2 Rhus copillinum | TO | -1 | UPL | Definitions of Four Vegetation Strata: |
| | | 10 | FAC | Definitions of Four Vegetation Strata. |
| 3. Panicum vigatom | 30 | -1 | FAC | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. Setaria Pumila | 25 | | FACW | more in diameter at breast height (DBH), regardless of height. |
| 5. Arundinaria gigantea | 20 | -N | | |
| 6. Solidago altissima | 10) | _ N | FACU | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7 | | | | than 3 in. DBH and greater than 3.20 it (1 iii) tail. |
| 8 | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12 | 120 | | | |
| 1.0 | 130 | = Total Co | | |
| 50% of total cover: | 20% o | f total cover | | |
| Woody Vine Stratum (Plot size: 20 x 20 0 77) | | | | |
| 1. none | | | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic |
| | 0 | = Total Co | ver | Vegetation Present? Yes No |
| 50% of total cover: | 20% o | f total cover | : | Present? Yes V No |
| Remarks: (If observed, list morphological adaptations beld | ow). | | | |
| | | | | |
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| Profile Des | cription: (Describe | to the depth | needed to docu | ment the i | indicator | or confirm | the absence (| of indicators.) |
|-------------|--|-----------------|----------------------------|----------------|------------|------------|---------------|--|
| Depth | Matrix Color (maint) | % | Redo Color (moist) | x Feature % | S Type | Loc² | Texture | Remarks |
| (inches) | LOVIR 211 | 100 | Cold (most) | -70 | Туре | Loc | 1 exture | Remarks |
| 17-16 | TOTR ZIT | 100 | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | 24 | Di Basa Halasa Mandala |
| 'Type: C=C | oncentration, D=Dep Indicators: (Applic | etion, RM=Re | Re unless othe | DeMasker | ad I | ains. | | PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ : |
| 1 | | able to all Liv | Polyvalue Be | | | RRSTII | | uck (A9) (LRR O) |
| Histoso | pipedon (A2) | | Thin Dark St | | | | 2 A | uck (A10) (LRR S) |
| | istic (A3) | | Loamy Muck | | | | | d Vertic (F18) (outside MLRA 150A,B) |
| | en Sulfide (A4) | | Loamy Gley | ed Matrix (| (F2) | | | ent Floodplain Soils (F19) (LRR P, S, T) |
| | d Layers (A5) | | Depleted Ma | | | | | lous Bright Loamy Soils (F20) |
| | Bodies (A6) (LRR P | | Redox Dark | | | | | A 153B) rent Material (TF2) |
| | ucky Mineral (A7) (LF resence (A8) (LRR U | | Depleted Da Redox Depre | | | | | nallow Dark Surface (TF12) |
| | uck (A9) (LRR P, T) | , | Marl (F10) (I | | -, | | | Explain in Remarks) |
| - | d Below Dark Surface | e (A11) | Depleted Oc | hric (F11) | (MLRA 1 | 51) | | |
| | ark Surface (A12) | | Iron-Mangan | ese Mass | es (F12) (| LRR O, P, | | ators of hydrophytic vegetation and |
| | rairie Redox (A16) (M | | Vmbric Surfa | | | , U) | | and hydrology must be present, ss disturbed or problematic. |
| | Mucky Mineral (S1) (L Gleyed Matrix (S4) | .KK O, S) | Delta Ochric Reduced Ve | | | DA 150B) | unie | ss distarbed of problematic. |
| | Redox (S5) | | Piedmont Flo | | | | 9A) | |
| | Matrix (S6) | | | | | | A 149A, 153C, | 153D) |
| | ırface (S7) (LRR P, S | | | | | | | |
| | Layer (if observed): | n | | | | | | |
| Type: | COMPACTIO | 11 1 | _ | | | | | Present? Yes X No |
| Depth (in | | | _ | | | | | |
| Remarks: | 1 | | | | 1 | 10 10 | Caran | paction, no gravel. |
| COMI | a not au | ger pe | ast 121 | Inun | er au | le Ti | lossi! | partion, no graver. |
| 0 | L | / " | | | | | , | |
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Upland data point wcho010_u facing west.



Upland data point wcho010_u facing southeast.

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

| | City/County: Chesupe | | | |
|--|--|---|--|--|
| Applicant/Owner: Pominion | na Ambaniana Santa na Para ana ana ana ana | State: VA Samplin | g Point: WChrol) OZe_ | |
| Investigator(s): L. Roper, R. Turnbull | Section, Township, Range: V | none | | |
| Subregion (LRR or MLRA): LRR T Lat: 36 | | 76,30858 | Datum: W 6584 | |
| Soil Map Unit Name: Tomothey - Nimmo cor | | | | |
| Are climatic / hydrologic conditions on the site typical for this time of ye | | | | |
| Are Vegetation, Soil, or Hydrology significantly | y disturbed? Are "Normal | Circumstances" present? | Yes No | |
| Are Vegetation, Soil, or Hydrology naturally pr | roblematic? (If needed, e | explain any answers in Rem | narks.) | |
| SUMMARY OF FINDINGS - Attach site map showing | g sampling point location | ons, transects, impor | tant features, etc. | |
| Hydrophytic Vegetation Present? Yes | i is the Sampled Area | Yes_X_ No | | |
| Could not evaluate soils powerline easement, Tid | on/near ; | power plo | unt | |
| HYDROLOGY | 965) 1899) Physical Common (1997) | | | |
| Wetland Hydrology Indicators: | | Secondary Indicators (mini | imum of two required) | |
| Primary Indicators (minimum of one is required; check all that apply) | | Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) | | |
| Surface Water (A1) Aquatic Fauna (B1 High Water Table (A2) Marl Deposits (B19 Saturation (A3) Hydrogen Sulfide (Control of the Control of the | Surface Soil Cracks (B6) 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) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U) | | | |
| Surface Water Present? Yes No _X Depth (inches | s): NH | | | |
| Water Table Present? Yes No Depth (inches | A Secretary of the second seco | | V | |
| Saturation Present? Yes No Depth (inches | :): Wetland H | lydrology Present? Yes | No | |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo | os, previous inspections), if ava | ilable: | The second secon | |
| Remarks: | | | | |
| portion of wetland inun Could not evaluate si | | hydrolagy | onlaga | |
| power plant | | .,0,0,0,0,7 | J. Incor | |
| | | | | |

| | | Dominant Species? | | Dominance Test worksheet: Number of Dominant Species |
|--|------------------|--------------------------|---|--|
| Mone | 23 | | | That Are OBL, FACW, or FAC:(A) |
| The state of the s | | | | Total Number of Dominant Species Across All Strata: (B) |
| AN AND THE PROPERTY OF THE PRO | The second | deser-in-re- | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 1851 St. 1829 | | Control provide and | | That 700 OBE, 17, OVI, G. 1710. |
| Safestanian in procession and services and | +400 | 2014 | <u> </u> | Prevalence Index worksheet: Total % Cover of: Multiply by: |
| The second of th | - o | Manager and | - | OBL species x1 = |
| and the second second second second second second second | | = Total Co | | FACW species x 2 = |
| 50% of total cover: | 20% of | f total cover | ar suesa ass | FAC species x3 = |
| pling/Shrub Stratum (Plot size: 30 ft x 30 ft) | | | - 10 20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 | FACU species x 4 = |
| MONE | of South Land | | | UPL species x 5 = |
| Activities (Activities (Activi | | | | Column Totals: (A) (B) |
| territorio de la companio del la companio del la companio de la companio del la companio de la companio del la companio della companio de | | | | Prevalence Index = B/A = |
| | | | | Hydrophytic Vegetation Indicators: |
| | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | | | Z - Dominance Test is >50% |
| | | | | 3 - Prevalence Index is ≤3.01 |
| | | = Total Co | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | 20% of | f total cove | r | |
| erb Stratum (Plot size: 3014 x 3011) | 95 | V | FACW | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| Phraymites australis | 73 | N | FAC | Definitions of Four Vegetation Strata: |
| Rubbs argutus | | 1500000000 | FILE | |
| | | The transport of the for | Magnine and the April of the | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| | | | | more in diameter at breast height (DBH), regardless of height. |
| | | | | THE RESERVE AND A STREET OF THE STREET, AND A STREET, AND |
| THE CONTRACTOR OF STREET | | | | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| AND TORREST PROVINCE MARKETS | | | | Herb – All herbaceous (non-woody) plants, regardless |
| COST NAMES CONTINUES CONTI | - | | | of size, and woody plants less than 3.28 ft tall. |
| | - | | 1000 | Woody vine – All woody vines greater than 3.28 ft in height. |
| | | | Leaster Tip | neight. |
| 2. | 100 | = Total Co | ver | Table 10 miles of the control of the |
| 50% of total cover: 50 | | | 02 : | Research to the second of the |
| Voody Vine Stratum (Plot size: 30f+ x30f+) | | | | |
| none | | | | |
| The second secon | | eng transfer | | |
| | | | | 100 |
| | | | | |
| | and the constant | | | Hydrophytic |
| | 0 | = Total Co | over | Vegetation |
| | 20% 0 | of total cove | | Present? Yes No |
| 50% of total cover: | | EXPORT OF THE PARTY. | 44. | A CONTROL OF THE PROPERTY OF T |

| Depth | on: (Describe to Matrix Color (moist) | 11.0 m | | ment the In ex Features % | | Loc ² | the absence of In | dicators.) Remarks |
|--|--|--|---|--|---|---|---|--|
| Hydric Soil Indic Histosol (A1) Histic Epiped Black Histic (Hydrogen Su Stratified Lay Organic Bodi 5 cm Mucky I Muck Presen 1 cm Muck (A Depleted Bel Thick Dark S Coast Prairie Sandy Mucky Sandy Gleye Sandy Redox Stripped Mate | Ion (A2) A3) Idfide (A4) Idfide (A4) Idfide (A5) Idfide (A5) Idfide (A6) Idfide (A7) Idfide (A7) Idfide (A7) Idfide (A7) Idfide (A8) Idfide (A12) Idfide (A12) Idfide (A16) Id | To all LRRs To all LRRs | , unless othe Polyvalue Be Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Marl (F10) (L Depleted Oc Iron-Mangan Umbric Surfa Delta Ochric Reduced Ve Piedmont Fle | rwise noted low Surface (S9) (y Mineral (Fed Matrix (F3) Surface (F6 rk Surface (F8).RR U) hric (F11) (Fese Masset (F13) (L (F17) (MLF rtic (F18) (N codplain So | d.) e (S8) (L LRR S, -1) (LRR S, -1) (LRR S) F7) MLRA 15 S (F12) (I RR P, T, RA 151) ILRA 15 | RR S, T, U) T, U) O) ARR O, P, T U) DA, 150B) (MLRA 145 | Indicators for F 1 cm Muck 2 cm Muck Reduced Vi Piedmont F Anomalous (MLRA 1: Red Parent Very Shallo Other (Expl | (A10) (LRR S) ertic (F18) (outside MLRA 150A,B) floodplain Soils (F19) (LRR P, S, T) Bright Loamy Soils (F20) 53B) Material (TF2) w Dark Surface (TF12) ain in Remarks) s of hydrophytic vegetation and hydrology must be present, listurbed or problematic. |
| Type: | | | | | | | Hydric Soil Pres | sent? Yes No |
| Remarks: | | evalu | ate | soil | 5 | on/ | | ower plant |
| | | | | | | | | |



Wetland data point wchro002e_w facing southeast



Wetland data point wchro002e_w facing northeast

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| | county: Chesapeake Sampling Date: 12/16/15 |
|---|--|
| Applicant/Owner: Dominion | State: Sampling Point: wchrp DOZ- |
| Investigator(s): L. Poper, R. Tumbull Section | |
| | relief (concave, convex, none): NDV & Slope (%): 5-21 |
| Subregion (LRR or MLRA): LRR T Lat: 36.76 | |
| Soil Map Unit Name: Tomotley-Urban land | complex NWI classification: NA |
| Are climatic / hydrologic conditions on the site typical for this time of year? You | es No (If no, explain in Remarks.) |
| Are Vegetation, Soil, or Hydrology significantly disturt | \/ |
| Are Vegetation, Soil, or Hydrology naturally problema | |
| SUMMARY OF FINDINGS – Attach site map showing sam | |
| Hydrophytic Vegetation Present? Yes | Is the Sampled Area within a Wetland? Yes No |
| Remarks: | and the second s |
| Could not evaluate soils on | mear power plant |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LRR | # 100 Page 1 |
| Saturation (A3) Hydrogen Sulfide Odor (C | [[기계: [[기계: [기계: [기계: [기계: [기계: [기계: [기계 |
| Water Marks (B1) Oxidized Rhizospheres al | 송에 두드라면 하면 하면 다른데 되어 보다는 데 프로프트 이번 등에서 마음이라면서 그렇게 되었다면서 있다면 하는데 바로 다른데 보다는 것이다. |
| Sediment Deposits (B2) Presence of Reduced Iron | 20.70.20.11.20.11.11.11.11.11.11.11.11.11.11.11.11.11 |
| Drift Deposits (B3) Recent Iron Reduction in Algal Mat or Crust (B4) Thin Muck Surface (C7) | [1] [1 B] [1 B] [1 B] [2 B] [3 B] [3 B] [3 B] [4 B] |
| Rigal Mat 6 Crost (64) Thin Mock Surface (67) Other (Explain in Remark: | Geomorphic Position (D2) Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | Shahow Addition (D3) FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | |
| Surface Water Present? Yes No X Depth (inches): | NA |
| Water Table Present? Yes No Depth (inches): | papera perdana di menero de Mora sede di mora procede del 1 debendo de como de las sedestros. Al como de las sedestros de las |
| Saturation Present? Yes No Depth (inches): | Wetland Hydrology Present? Yes No X |
| (includes capillary fringe) | Alter and the state of the stat |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev | nous inspections), if available: |
| Remarks: | |
| Could not evaluate su | bsurface hydrology |
| on/near power plant No surface water indicators present | - |
| I consider indicators present | |
| No surtace water | |
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VEGETATION (Four Strata) – Use scientific names of plants.

| 1205 124 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|-----------------------|-------------------------|---|--|
| Tree Stratum (Plot size: 30ff x30ff) 1. Pinus taeda | 20 | Species? | FAL | Number of Dominant Species That Are OBL, FACW, or FAC: |
| 2. Liguidambar styraciflua 3. | 15 | <u> </u> | FAL | Total Number of Dominant Species Across All Strata: (B) |
| 4. | | Transport of the second | | Percent of Dominant Species That Are OBL. FACW, or FAC: 931 (A/B) |
| 5. | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | 1951 | | | Total % Cover of: Multiply by: |
| 8. | 27- | White the second con- | | OBL species x 1 = |
| and the second s | 33 | = Total Cov | /er | FACW species x 2 = |
| 50% of total cover: 17 | 3 20% of | total cover | | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 30++ x30++) | 14 | V | Ch | FACU species x 4 = |
| 1. Pinus tacha | 10 | 7 | FAC | UPL species x 5 = |
| 2. Juniperus virginiana | 5 | <u> </u> | FACU | [[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[|
| 경기 (2017년 1977년 1971년 - 전기 | 10 MT - 11 | oleting. | | Column Totals: (A) (B) |
| 4. Name construction and the contract of the co | or compared to be 1 | and the state of the | and a second of the second | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6. | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | X 2 - Dominance Test is >50% |
| A Charge Stage Construction of the Constructio | | | | 3 - Prevalence Index is ≤3.0¹ |
| 8. | 15 | = Total Co | /er | |
| 50% of total cover: 71 | 2000 | - Total Co | 3 | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 3011 30 et lotal cover: | 20% 0 | total cover | | A company against the first that it is a second of the sec |
| Herb Stratum (Plot size: 30++ y30++) 1. Kubus argutus | 5 | <u> Y</u> | FAC | ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. |
| | | | S. Programmer (Cr.) | Definitions of Four Vegetation Strata: |
| 3. | | | (i trong a material) | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | | | | more in diameter at breast height (DBH), regardless of |
| 5. | | | A director toward por | height. |
| And a second sec | CONTRACTOR CONTRACTOR | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 6, | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7. | | | | |
| 8. | - | | 100 to | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 9. | | - | | of size, and woody plants less than 3.20 it tail. |
| 10 | | | X | Woody vine - All woody vines greater than 3.28 ft in |
| 11, | | | | height. |
| 12. | | | AND THE PROPERTY. | |
| | 5 | = Total Co | ver | |
| 50% of total cover: 215 | 20% 0 | f total cove | r: | Takanan (San San San San San San San San San San |
| Woody Vine Stratum (Plot size: 30++ x30++) | | | | The second secon |
| 1. Smilax rotundifolia | 10 | V | FYAL | |
| | na rango Panjaga | | | |
| 2 | | | | 2000 |
| A CONTROL OF THE PROPERTY OF T | - | - | - | |
| <u></u> | | | | |
| 5 | 10 | | | Hydrophytic Vegetation |
| | 10 | = Total Co | 7 | Present? Yes X No |
| 50% of total cover: | 20% c | f total cove | r: <u> </u> | |
| Remarks: (If observed, list morphological adaptations beli | ow). | | | As sure one make the second |
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| Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. PL=Pore Lining, Matrix (A1) Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: for Problematic | |
|--|---------------------------------|
| dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) | |
| dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) | |
| dric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) | FICURES OF A PROPERTY OF |
| dric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) | |
| dric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) | √l=Matrix. |
| Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Corganic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Loamy Sufface (F6) Granic Bodies (A6) (LRR P, T, U) Seed Matrix (F3) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) Loamy Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Coald Not evaluate S01 S On Near Power Hydric Soil Present? Yes Coald Not evaluate S01 S On Near Power | |
| Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Anomalous Bright Loamy Anomalous Bright Loamy MIRRA 153B Sem Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) 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) Delta Ochric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Coast Prairie Redox (A16) Depleted Ochric (F18) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes Coast Ochric (F18) Hydric Soil Present? Yes | 5) |
| Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Organic Bodies (A6) (LRR P, T, U) Som Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) And (F10) (LRR U) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Coold Not evaluate Soils on Mean Foundation of the Caulaute Soils (F20) (MLRA 149A, 153C, 153D) Demarks: Coold Not evaluate Soils on Mean Power | |
| Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depended Dehric (F1) (MLRA 150A) Depleted Ochric (F1) (MLRA 150A) Depleted Ochric (F1) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Jelta Ochric (F13) (LRR P, T, U) Wetland hydrology mu unless disturbed or pr wetland hydrology mu unless disturbed or pr wetland hydrology mu unless disturbed or pr Mark Surface (S7) (LRR P, S, T, U) Delta Ochric (F18) (MLRA 150A, 150B) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Depth (inches): Demarks: Could not evaluate Soils on hear power | |
| Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Surface 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Remark) Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology mucky Mineral (S1) (LRR O, S) Delta Ochric (F13) (MLRA 151) Unless disturbed or presently sandy Redox (S5) Reduced Vertic (F18) (MLRA 150A, 150B) 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) Depth (Inches): Hydric Soil Present? Yes Pemarks: | 2) |
| Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Delta Ochric (F18) (MLRA 150A, 150B) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Depth (Inches): Depth (Inches): Demarks: Coold not evaluate Soils on hear power | |
| Thick Dark Surface (A12) | (5) |
| Sandy Mucky Mineral (S1) (LRR O, S) | |
| Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes emarks: Could not evaluate Soils on near power | 성하면 10명(45년) 전기(18명 18명(18명)) |
| Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) estrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes emarks: Could not evaluate soils on near power | |
| estrictive Layer (If observed): Type: Depth (Inches): emarks: Could not evaluate soils on near power | |
| Type: | |
| could not evaluate soils on/near power | |
| Could not evaluate soils on/near power | No |
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Upland data point wchro002_u facing southwest



Upland data point wchro002_u facing northwest

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region Project/Site: ___ A C P City/County: Chesapeake Sampling Date: 12/15/2015 State: VA Sampling Point: WLhro DOZE-WZ Applicant/Owner: Dominion Section, Township, Range: None Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): _____ n *n & Lat: 36,76973 Long: -76,3080Z Subregion (LRR or MLRA): LRR T Datum: WGS8 Soil Map Unit Name: Tomotley - Nimmo complex 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: Proverthe easement Could not evaluate soils on near power plant HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Surface Water (A1) ___ Aquatic Fauna (B13) __ High Water Table (A2) ___ Drainage Patterns (B10) ___ Marl Deposits (B15) (LRR U) ___ Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16) _ Saturation (A3) Oxidized Rhizospheres along Living Roots (C3) __ Dry-Season Water Table (C2) Water Marks (B1) _ Sediment Deposits (B2) ___ Crayfish Burrows (C8) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) __ Drift Deposits (B3) ___ Algal Mat or Crust (B4) Geomorphic Position (D2) ___ Thin Muck Surface (C7) Shallow Aquitard (D3) Iron Deposits (B5) Other (Explain in Remarks) X FAC-Neutral Test (D5) Inundation Visible on Aerial Imagery (B7) X Water-Stained Leaves (B9) Sphagnum moss (D8) (LRR T, U) Field Observations: Yes ____ No X Depth (inches): ___ Surface Water Present? Yes _____ No ____ Depth (inches): _ Water Table Present? Wetland Hydrology Present? Yes / Saturation Present? __ No __ __ Depth (inches): _ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: could not evaluate subsurface hydrology on/near power plant

Sampling Point:

| Tree Stratum (Plot size: 30f+ x 30f+ | Absolute % Cover | | t Indicator | Dominance Test worksheet: | | |
|--|--|---------------|---------------|--|--|----------|
| 1. None | | | | Number of Dominant Species That Are OBL, FACW, or FAC: | 2 | _ (A) |
| 2. | | | | Total Number of Dominant Species Across All Strata; | 2 | _ (B) |
| l | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: | 100 | _ (A/B |
| | | | | Prevalence Index worksheet: | | |
| | - | 1 100000000 | | Total % Cover of: | Multiply by: | |
| l, | <u>D</u> | | | OBL species x | 1 = | |
| 500/ -51-1-1 | | = Total Co | | FACW species x | Control of Control of Control of Control | 414 0021 |
| 50% of total cover: | 20% of | total cove | r. —— | FAC species x | | |
| Sapling/Shrub Stratum (Plot size: 30ff x 30ff) Phys talda | 1 | NA | FAC | FACU species x | | |
| | | | | UPL species x | | |
| | | | | Column Totals: (A | | |
| | | | | Prevalence Index = B/A = | | |
| | | | | Hydrophytic Vegetation Indica | | |
| | | | | 1 - Rapid Test for Hydrophyt | tic Vegetation | |
| | | | | ✓ 2 - Dominance Test is >50% | ó | |
| | | | | 3 - Prevalence Index is ≤3.0 | 1 | |
| | : | = Total Co | ver | Problematic Hydrophytic Ve | getation¹ (Exp | lain) |
| 50% of total cover: | 20% of | total cover | r: <u>0.4</u> | | | |
| lerb Stratum (Plot size: 30f4 x 30ff) | 15 | .1 | -F-Mail | Indicators of hydric soil and wetl | land hydrology | y must |
| Sautarum giganteum | 10 | - N | FACW | be present, unless disturbed or p | Manager State Control | 4500 |
| Lubus argutus Juneus Effusus | 30 | N | FAC | Definitions of Four Vegetation | Strata: | |
| | THE RESERVE AND ADDRESS OF THE PERSON NAMED IN | 7 | | Tree - Woody plants, excluding | | |
| . Pichanthelium acuminatum | 50 | 1/ | FAC | more in diameter at breast heigh | t (DBH), regar | dless o |
| Andropogon glomeratus | 10 | - 27 | FACW | height. | | |
| Microstegium viminium | 20 | 10 | FAC | Sapling/Shrub – Woody plants, than 3 in. DBH and greater than | | |
| | | | | Herb - All herbaceous (non-woo of size, and woody plants less th | | gardless |
| 0 | | | | | | 70 A :- |
| 1. | | | | Woody vine – All woody vines g height. | reater than 3. | 28 Tt In |
| 2 | | | | | | |
| | 140 | = Total Co | ver _ | | | |
| 50% of total cover: 70 | 20% of | total cover | 128 | | | |
| Voody Vine Stratum (Plot size: 30ff x 30ff) | | | | | | |
| . None, | | | | | | |
| | | | TOTAL LE | | | |
| | | | | | | |
| | | | | | | |
| | | | | Hydrophytic | | |
| | 0 | = Total Cover | | Vocatation | | |
| | Thirty with part | | | Present? Yes | No | |
| 50% of total cover | AND THE RESERVE OF THE | 50761 | | | | |
| 50% of total cover: | 7441 | | | | | |
| 50% of total cover: Remarks: (If observed, list morphological adaptations below | ow). | | | | | |
| | ow). | | | | | |
| | ow). | | | | | |
| | ow). | | | | | |
| | ow). | | | | | |

| Depth (inches) Co | | | Dada | | | | |
|--|--|----------------|------------------|------------------------|--------------------------------------|--|--|
| | Matrix lor (moist) | % | Color (moist) | x Features % | Type¹ Loc² | Texture | Remarks |
| | | | | A PROPERTY | | | |
| | | | | | | | |
| 91 | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | _ | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | And the state of the state of | |
| | <u> </u> | | | | | - Marine 19 | |
| Type: C=Concentra | ation, D=Depletic | on, RM=Re | duced Matrix, MS | S=Masked | Sand Grains. | ² Location: PL | =Pore Lining, M=Matrix. |
| Hydric Soil Indicate | ors: (Applicable | e to all LRI | Rs, unless other | wise note | d.) | Indicators for | Problematic Hydric Solis ³ : |
| Histosol (A1) | | | Polyvalue Be | low Surfac | e (S8) (LRR S, T, L | J) 1 cm Muc | k (A9) (LRR O) |
| Histic Epipedon | (A2) | | Thin Dark Su | | | | k (A10) (LRR S) |
| Black Histic (A3 | A Company of the Comp | | Loamy Muck | | | | Vertic (F18) (outside MLRA 150A,B) |
| Hydrogen Sulfic | | | Loamy Gleye | | | | Floodplain Soils (F19) (LRR P, S, T) |
| Stratified Layers | | | Depleted Ma | | | | is Bright Loamy Soils (F20) |
| | (A6) (LRR P, T, | u) - | Redox Dark | | 3) | (MLRA | [1] 2. [1] 1 [1] 2. [1] 2. [1] 2. [1] 2. [1] 2. [1] 2. [1] 2. [1] 2. [1] 2. [1] 2. [1] 2. [1] 2. [1] 2. [1] 2. |
| | neral (A7) (LRR | CRAPTOR THE P. | Depleted Dar | terror and the last to | | | nt Material (TF2) |
| Muck Presence | | 1 11 - | Redox Depre | | | | low Dark Surface (TF12) |
| 1 cm Muck (A9) | | rek . T | Marl (F10) (L | | , | THE RESERVE THE PROPERTY OF TH | plain in Remarks) |
| | Dark Surface (A | 111) | Depleted Oct | | MLRA 151) | 5.1161 (EX | p.a (torriama) |
| Thick Dark Surf | | - (''' | | | s (F12) (LRR O, P, | T) ³ Indicate | ers of hydrophytic vegetation and |
| and the second s | edox (A16) (MLF | 20 1500) | Umbric Surfa | | | | d hydrology must be present, |
| | | | | | | | disturbed or problematic. |
| Sandy Mucky M | | (0, 3) _ | Delta Ochric | | 얼마나 되었다면 가는 가지 않는데 그는 것이 없는데 그렇게 하다. | | distarbed of problematic. |
| Sandy Gleyed N | | | | | ILRA 150A, 150B) | | |
| Sandy Redox (S | | <u> </u> | | | ils (F19) (MLRA 14 | | (3D) |
| Stripped Matrix | | | Anomalous E | right Loam | y Soils (F20) (MLR | (A 149A, 153C, 1 | 30) |
| | 7) (LRR P, S, T, | , 0) | | | | | |
| Restrictive Layer (I | Tobservea): | | | | | | |
| | | Male Company | | | | | |
| Туре: | NUMBER OF STREET | | | | | Hydric Soil Pro | esent? Yes No |
| Type: Depth (inches): _ | | | | | | | |
| Depth (inches): _ | | | | - Transport | | | |
| Depth (inches): _ Remarks: | , , | 1 | | | | | |
| Depth (inches): _ | t evalu | vate, | Spile | 20 | linear - | 10.5.0 | laust |
| Depth (inches): _ | t evalu | rate | 507/5 | on | lnear F | power p | lant |
| Depth (inches): _ | t evalu | rate | 501/5 | on | lnear F | power p | lant |
| Depth (inches): _ | t evalu | rate | 507/5 | On | lnear F | power p | lant |
| Depth (inches): _ | t evalu | rate | 507/5 | on | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 507/5 | On | lnear F | power p | lant |
| Depth (inches): _ | t evalu | rate | 507/5 | ØN | lnear F | power p | lant |
| Depth (inches): _ | t evalu | rate | 507/5 | Øn | lnear F | power p | lant |
| Depth (inches): _ | t evalu | rate | 501/5 | DN | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 501/5 | DN | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 501/5 | DN | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 5015 | On | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 5015 | On | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 5015 | On | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 5015 | On | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 5015 | on | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 5015 | on | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 50115 | on | lnear F | power p | lant |
| Depth (inches): _ Remarks: | t evalu | nate | 50115 | on | lnear F | power p | lant |
| S. O. O. Legisla, Consumpression asserts | t evalu | nate | 50115 | on | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 50115 | on | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 50115 | on | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 50115 | on | lnear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 50115 | on | Mear F | power p | lant |
| Depth (inches): _ | t evalu | nate | 50115 | on | Mear F | power p | lant |



Wetland data point wchro002e_w2 facing southwest



Wetland data point wchro002e_w2 facing southeast

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| n/P | 01-11-11-11-11-11-11-11-11-11-11-11-11-1 |
|---|--|
| | County: Chesapeake Sampling Date: 12/15/15 |
| Applicant/Owner: Dominion | State: VA Sampling Point: wchrol02f-u |
| Investigator(s): L. Roper, R. Turnbull Section | on, Township, Range: NOVE |
| Landform (hillslope, terrace, etc.): + (1) Local | relief (concave, convex, none): NOVL Slope (%): 1)-2/1 |
| Subregion (LRR or MLRA): LRR T Lat: 30.7 | 6975 Long: -76, 30792 Datum: W6584 |
| Soil Map Unit Name: Tomotley - Nimmo comp | CONTROL OF THE PROPERTY OF THE |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| Are Vegetation, Soil, or Hydrology significantly distur | |
| Are Vegetation, Soil, or Hydrology naturally problem. | |
| SUMMARY OF FINDINGS – Attach site map showing san | 보이면 보고 있다. 그런 이 경기에 되었다. 그런 사람들은 사람들이 되었다면 보고 있다면 보고 있다. 보고 있다면 보고 있는 것이 되었다면 보고 있다면 보고 있다면 보고 있다면 보고 있다면 보고 있다면 보고 있다. |
| Hydrophytic Vegetation Present? Yes | Is the Sampled Area within a Wetland? Yes No |
| Wetland Hydrology Present? Yes X No No Remarks: | |
| Could not evaluate soils on NCWAM classification: Estuari | . 2001년 2월 12일 - 1일 |
| | ne boddery decreased |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LRI Saturation (A3) Hydrogen Sulfide Odor (I | |
| Saturation (AS) Hydrogen stands Cook (| |
| Sediment Deposits (B2) Presence of Reduced Iro | H MANGETHEN HENGEN HENGEN EN SEN EL SONE LEAGHE ANGEN HENGENHEIMEN HENGEN HENGEN HENGEN EN EL HELLE EL HELLE HE |
| Drift Deposits (B3) Recent Iron Reduction in | 하게 5.1이 나는 사람들은 얼마나 하는데 그리고 하는데 |
| Algal Mat or Crust (B4) Thin Muck Surface (C7) | Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in Remark | ks) Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | 4 |
| Surface Water Present? Yes No _X_ Depth (inches): | NA |
| Water Table Present? Yes No Depth (inches): | |
| Saturation Present? Yes No Depth (inches): | Wetland Hydrology Present? Yes No No |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | evious inspections), if available: |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre Remarks: Could not evaluate Subsurfa power plant | |
| Remarks: | |
| 1 and purpose subsurti | ace hydrology on mear |
| C0010 1101 000 | ' 01 |
| STANFOR DIANT | [2] : |
| 1 1000001 1 1001 | 사상, 보기가 어땠다면서 기계가 내려가 하게 되느냐 다니? |
| | 이 교통에 이렇게 하는데 하는데 하다 하다 하다. |
| | |
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| | |
| | (B F)(B 12) [12] [14] [15] [15] [15] [15] [15] [15] [15] [15 |
| | 전 경기 등 전 경기 개발 전 기계 등 기계 등 전 기계 등 기계 등 전 기계 등 지 등 지 등 지 등 지 등 지 등 지 등 지 등 지 등 지 등 |
| | |

| 2.51.2-01 | Absolute | Dominar | nt Indicator | Dominance Test worksheet: |
|--|--|---------------|--------------|--|
| Tree Stratum (Plot size: 30f4x 30f4) | % Cove | Species | ? Status | |
| 1. Liquidambar styracitlua | 20 | _ Y | FAC | That Are OBL, FACW, or FAC: (A) |
| 2 | | | | Total Number of Dominant |
| 3. | | | | Species Across All Strata: (B) |
| 4 | | | | Descript of Deminent Species 1 - 5 |
| 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 6. | | | | |
| 7 | | | | Prevalence Index worksheet: |
| 8 | | | | Total % Cover of: Multiply by: |
| | 20 | = Total Co | over | OBL species x 1 = |
| 50% of total cover: | 20% | of total cove | - 4 | FACW species x 2 = |
| Sapling/Shrub Stratum (Plot size: 30f+x30f+) | | | 1000 | FAC species x 3 = |
| 1. Liquidam par styraciflua | OI | V | FAC | FACU species x 4 = |
| A CONTROL OF THE PROPERTY OF T | The Established | | | UPL species x 5 = |
| 2 | | | | Column Totals: (A) (B) |
| 3. | | | | |
| 4 | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | - | | | _X 2 - Dominance Test is >50% |
| 8. | 1700000 | | | 3 - Prevalence Index is ≤3.01 |
| | 10 | = Total Co | over | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: 5 | 20% c | of total cove | r: | |
| Herb Stratum (Plot size: 30ff x 30ff) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. none | | | | be present, unless disturbed or problematic. |
| 2. | | | | Definitions of Four Vegetation Strata: |
| 3. | | | | |
| 4. | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of |
| 5. | | | | height. |
| | | | | |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7 | | | | and one portain greater than 2.25 K(1 m) tan |
| 8. | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9. | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11. | | 1-2-1-2 | | height. |
| 12 | | | | |
| | 0 | = Total Co | over | |
| 50% of total cover: | 20% c | of total cove | r: | |
| Woody Vine Stratum (Plot size: 30++ x 30++) | | | | |
| 1. Smilax rotundifolia | 10 | <u> </u> | FAC | |
| 2. | | | | |
| 3. | Procedure and the | | | |
| 4. | | | | |
| 5. | | | | Understands. |
| | 10 | = Total Co | W/OF | Hydrophytic Vegetation |
| 500% of total answer 5 | | of total cove | | Present? Yes \(\) No |
| 50% of total cover: | The State of the S | or total cove | | |
| Remarks: (If observed, list morphological adaptations belo | DW). | | | |
| | | | | 그 사람들이 아이에 얼마를 하다면 돼요 됐다. 그래 하다 |
| | | | | 그 그리고 게 그렇지만 하면서 그렇게 그렇게 되었다. |
| | | | | |
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| Profile Descr Depth | ription: (Describe Matrix | to the depth | | ment the ox Feature | | or confirm | the absence of li | ndicators.) |
|---|---|-----------------------------|--|---|--|---|--|--|
| (inches) | Color (moist) | % | Color (moist) | % | Type | _Loc ² | Texture | Remarks |
| Type: C=Col ydrlc Soll Ir Histosol (, Histic Epi Black His Hydrogen Stratified Organic E 5 cm Muc Muck Pre 1 cm Muc Depleted Thick Dar Coast Pra Sandy Mu | ncentration, D=Departicators: (Application (A2)) tic (A3) subject (A4) Layers (A5) Sodies (A6) (LRR Picky Mineral (A7) (LRR Picky Mineral (A7)) Below Dark Surface (A12) sirie Redox (A16) (Iucky Mineral (S1) (Iucky Mineral (S1)) | , T, U) RR P, T, U) e (A11) | educed Matrix, M RRs, unless othe Polyvalue Bo Thin Dark So Loamy Much Loamy Gley Depleted Ma Redox Dark Depleted Da Redox Depromoved Marl (F10) (I Depleted Octoric | IS=Masked Prwise not elow Surfa urface (S9 ky Mineral ed Matrix (F3) Surface (F urk Surface essions (F LRR U) chric (F11) nese Mass ace (F13) (F17) (ML | d Sand Gried.) (ce (S8) (L) (LRR S, (F1) (LRR (F2) (MLRA 15) (MLRA 15) (LRR P, T | ains. RR S, T, U T, U) O) 51) LRR O, P, | 2Location: PL= Indicators for) 1 cm Muck 2 cm Muck Reduced V Piedmont F Anomalous (MLRA 1 Red Paren Very Shalld Other (Exp | =Pore Lining, M=Matrix. Problematic Hydric Solis³: (A9) (LRR O) (A10) (LRR S) /ertic (F18) (outside MLRA 150A,E Floodplain Soils (F19) (LRR P, S, T |
| Sandy Glo Sandy Re Stripped N Dark Surf | eyed Matrix (S4) edox (S5) | s, T, U) | Reduced Ve | rtic (F18) (oodplain S | (MLRA 15 Soils (F19) | (MLRA 149 | | |
| Type: | | | | | | | Hydric Soll Pre | sent? Yes No |
| Remarks: | | | | | , | | Part Comment of the C | |
| Could | not e | Jalua | te soi | 15 | on/r | lear | Power | plant |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |



Wetland data point wchro002f_w facing south



Wetland data point wchro002f_w facing east

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

| Project/Site: ACP | City/County: Chesapeake Sampling Date: 12/15/15 |
|--|--|
| Applicant/Owner: DOMINION | State: VFT Sampling Point: WCN70002-A |
| | Section, Township, Range: NONE |
| | Local relief (concave, convex, none): None Slope (%): 0-2/1 |
| Subregion (LRR or MLRA): LPLT Lat: 36. | 76982 Long: -76, 30802 Datum: W684 |
| Soil Map Unit Name: Tomotley-Nimmo Con | nolex NWI classification: NA |
| Are climatic / hydrologic conditions on the site typical for this time of ye | ear? Yes X No (If no, explain in Remarks.) |
| Are Vegetation X, Soil, or Hydrology significantly | disturbed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrology naturally pro | oblematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes | Is the Sampled Area within a Wetland? Yes No |
| Powerline easement Could not evaluate soils on | hear power plant |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B1 | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15 | (LRR U) Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide C | 경에서 12시간 중요하다 15시간 4 시간 2시간 (1915년 12시간 12시간 12시간 12시간 12시간 12시간 12시간 12시간 |
| [1] Control of the first the first that the first the first that the first that the first the first that the fi | eres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduc | ##요즘 가는 사람들 하나면 있는데 그리고 있다면 보고 있다. 그리고 있는데 그리고 있는데 그리고 있는데 그리고 있는데 그리고 있다면 다른데 그리고 있다면 다른데 그리고 있다면 |
| | tion in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | 대통령 등 경기에 있는 사람들은 이번 경기를 받는다. 이번 전에 가장 이번 경기를 받는다면 하는데 보다는 이번 경기를 받는다면 하는데 보다는다면 하는데 보다는데 하는데 보다면 보다면 하는데 보다면 보다면 되었다면 보다면 보다면 보다면 되었다면 보다면 되었다면 보다면 되었다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보다면 보 |
| Iron Deposits (B5) Other (Explain in R Inundation Visible on Aerial Imagery (B7) | emarks) Shallow Aquitard (D3) FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | |
| Surface Water Present? Yes No _X Depth (inches | : NA |
| Water Table Present? Yes No Depth (inches | (2018-1984) |
| Saturation Present? Yes No Depth (inches | : Wetland Hydrology Present? Yes No X |
| (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photo | os, previous inspections), if available: |
| | |
| Could not evaluate subsur- | face hydrology on/near |
| Powerplant | |
| | - present |
| No surface water indicatos | 'S Preservi |
| | |
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| | |
| | 않는 마네네트 열대는 등이 가게 되는 사람들이 얼마나 나를 하는데 되었다. |

| 2261 2267 | Absolute I | Dominant | Indicator | Dominance Test worksheet: |
|--|-------------------------------|---------------|--|---|
| Tree Stratum (Plot size: 30ffx30ff) 1. MONE | | | | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2 | | | | Total Number of Dominant Species Across All Strata: (B) |
| 4 5 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC:(A/ |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| 8 | | | | OBL species x 1 = |
| | | Total Cov | | FACW species x 2 = |
| 50% of total cover: | 20% of to | otal cover | | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 30f4 x 30 ff) | 1 | ALA | CINC | FACU species x 4 = |
| Pinus tarda | | | | UPL species x 5 = |
| | | | | Column Totals: (A) (E |
| . <u></u> | | | | Column Totals (A) |
| | | | | Prevalence Index = B/A = |
| | | | | Hydrophytic Vegetation Indicators: |
| 3. | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | | | ∠ 2 - Dominance Test is >50% |
| | | | | 3 - Prevalence Index is ≤3.01 |
| | _2 = | | | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: | 20% of to | otal cover | 0.4 | |
| Herb Stratum (Plot size: 30++ x 30++) | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| . Andropogon glomeratus | 20 | N | FACW | be present, unless disturbed or problematic. |
| Rubus argutus | 10 | N | FAC | Definitions of Four Vegetation Strata: |
| . Dichanthelium acuminatum | 60 | 4 | FAC | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) |
| Juncus debilis | 40 | Y | OBL | more in diameter at breast height (DBH), regardless |
| | PART HER AND DAY OF THE PARTY | | | height. |
| 5. | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| | | | THE RESERVE OF THE PARTY OF THE | Herb – All herbaceous (non-woody) plants, regardles |
| | | | PERSONAL PROPERTY OF | of size, and woody plants less than 3.28 ft tall. |
| 0 | | | CANADA CHARACTER SOLATION | |
| 1. | | | | Woody vine – All woody vines greater than 3.28 ft in height. |
| 2. | | | | noight. |
| | 130 = | Total Cov | er | |
| 50% pf total cover: 65 | 20% of to | otal cover | 26 | |
| Voody Vine Stratum (Plot size: 30++ x 30++) | | au cover | | |
| none, | | | | |
| | | | | |
| | | THE TAX STORY | THE PARTY | |
| | THE PARTY OF THE PARTY | | | |
| | | | 100 | |
| | 12000 | T-1-1 O- | | Hydrophytic Vegetation |
| 500 (1.11) | | Total Cov | | Present? Yes No No |
| 50% of total cover: | and the second second | otal cover | | |
| Remarks: (If observed, list morphological adaptations belo | w). | | | |
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| Depth (inches) | Matrix | | | ox Feature | | ,, сопши | the absence of in | |
|--|---|------------------|-------------------------|-------------|-----------|------------------|---------------------------------|--|
| | Color (moist) | % | Color (moist) | % | Type | Loc ² | Texture | Remarks |
| | | | | | | | | |
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| | | | | 7 | 7 75125 | Tronsiture. | | |
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| | The second second | | | | 75.00 | YOUNG | | |
| | | | | | | | | |
| | ncentration, D=Dep idicators: (Applic | | | | | ins. | | Pore Lining, M=Matrix. Problematic Hydric Solls ³ : |
| | | | | | | | | |
| _ Histosol (| pedon (A2) | | Polyvalue B Thin Dark S | | | | 1 cm Muck 2 cm Muck | 장과 교통(), 현생 및 (14.43) 전문 기업 (14.45 - 14.55) (14.55) - 이 시네이네 |
| Black His | | | Loamy Muc | | | | | ertic (F18) (outside MLRA 150A,E |
| | Sulfide (A4) | | Loamy Gley | | | ٥, | | loodplain Soils (F19) (LRR P, S, T |
| The second secon | Layers (A5) | | Depleted M | | / | | | Bright Loamy Soils (F20) |
| | Bodies (A6) (LRR P | T, U) | Redox Dark | | 6) | | (MLRA 1 | 53B) |
| 5 cm Muc | ky Mineral (A7) (LF | R P, T, U) | Depleted Da | ark Surface | (F7) | | Red Parent | Material (TF2) |
| _ Muck Pre | sence (A8) (LRR U |) | Redox Depr | ressions (F | 3) | | the bold of the section and the | w Dark Surface (TF12) |
| | k (A9) (LRR P, T) | | Marl (F10) (| | | | Other (Expl | ain in Remarks) |
| | Below Dark Surfac | e (A11) | Depleted O | | | | - 3 ₁₋₁₇₋₁ | -614 |
| | k Surface (A12) | 11 DA 450A) | Iron-Manga | | | | | of hydrophytic vegetation and |
| | irie Redox (A16) (N ucky Mineral (S1) (L | | Umbric Surf | | | U) | | hydrology must be present, isturbed or problematic. |
| | eyed Matrix (S4) | .KK 0, 3) | Delta Ochric | | | 14 150B) | umess u | starbed of problematic. |
| Sandy Re | | | Piedmont F | | | | (A) | |
| Stripped | | | | | | | 149A, 153C, 153 | D) |
| | ace (S7) (LRR P, S | , T, U) | | | | | | |
| Restrictive L | ayer (if observed): | | Marine San Service | | | S. SHIPAN | | |
| Туре: | | | | | | | | |
| Depth (incl | nes): | | | | | | Hydric Soil Pres | ent? Yes No |
| emarks: | | Property McComp. | | 90.922.00 | | | A SECTION POLICE | |
| | | . 1 | to coi | 14 0 | nlno | 1000 | DOINIEN : | plant |
| -1 | | In IIIA | 16 201 | 15 0 | 11/11/16 | 04 | 200001 | Plocific |
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| Coold | not e | 1001000 | | | | | | |
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| Coold | not e | 0001000 | | | | | | |



Upland data point wchro002_u2 facing northwest



Upland data point wchro002_u2 facing north

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

| Project/Site: ACP | City/County: Chesapeake Sampling Date: 12/15/15 |
|---|---|
| Applicant/Owner: Dominion | State: VA Sampling Point: Wtho 012e_ |
| Investigator(s): L. Roper, R. Turnbull | |
| Landform (hillslope, terrace, etc.): | Local relief (concave, convex, none): Slope (%): |
| | 77018 Long: 76:308144 Datum: W6589 |
| | DEM. |
| | TVII classification. |
| Are climatic / hydrologic conditions on the site typical for this time of | |
| Are Vegetation, Soil, or Hydrology significant | tly disturbed? Are "Normal Circumstances" present? Yes No |
| Are Vegetation, Soil, or Hydrology naturally p | problematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | ng sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No | In the Semulari Area |
| Hydric Soil Present? Yes No | - Is the Sampled Area - within a Wetland? Yes No |
| Wetland Hydrology Present? Yes No | within a wetland? |
| Remarks: | |
| paverline eusement | |
| | |
| could not evaluate soils | new lot Dowler Dlant |
| | THEORY TOUT POUNCE POUR |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply | |
| Surface Water (A1) Aquatic Fauna (B | : : : : : : : : : : : : : : : : : : : |
| High Water Table (A2) Marl Deposits (B1 | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 |
| Saturation (A3) Hydrogen Sulfide | ## [H. 1] [H. 1 |
| | oheres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Redu | ************************************** |
| | uction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surfact Iron Deposits (B5) Other (Explain in | 274 July 1885 1886 1886 1887 1887 1887 1887 1887 1888 1886 1887 1887 |
| Iron Deposits (B5) Other (Explain in Injundation Visible on Aerial Imagery (B7) | Remarks) Shallow Aquitard (D3) X FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | Spriagram moss (bo) (ERR 1, b) |
| Surface Water Present? Yes No _X Depth (inche | es): <u>NA</u> |
| Water Table Present? Yes No Depth (inche | |
| Saturation Present? Yes No Depth (inche | |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial pho | otos, previous inspections), if available: |
| Remarks: | |
| portions of wetland in | undated |
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| Coblo and the variable is its | X 1 TAPL |
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| 2501 2501 | Absolute Dominant Indicator | Dominance Test worksheet: | | |
|---|-----------------------------|--|--|--|
| Tree Stratum (Plot size: 30ff x 30 ff) 1. NONE | % Cover Species? Status | Number of Dominant Species That Are OBL, FACW, or FAC: (A) | | |
| 2. | | Total Number of Dominant Species Across All Strate: 2 (B) | | |
| 3. | | Species Across All Strata: (B) | | |
| 5 | | Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B) | | |
| 6 | | Prevalence Index worksheet: | | |
| 7. | | | | |
| 8 | | | | |
| | = Total Cover | OBL species x 1 = | | |
| 50% of total cover: | 20% of total cover: | FACW species x 2 = | | |
| Sapling/Shrub Stratum (Plot size: 30ff x 30ff) | | FAC species x 3 = | | |
| 1. none | | FACU species x 4 = | | |
| 2. | | UPL species x 5 = | | |
| 3. | | Column Totals: (A) (B) | | |
| 4 | | Prevalence Index = B/A = | | |
| 5 | | Hydrophytic Vegetation Indicators: | | |
| 6. | | 1 - Rapid Test for Hydrophytic Vegetation | | |
| 7 | | 2 - Dominance Test is >50% | | |
| 8 | | 3 - Prevalence Index is ≤3.01 | | |
| | = Total Cover | Problematic Hydrophytic Vegetation¹ (Explain) | | |
| 50% of total cover: | 20% of total cover: | | | |
| Herb Stratum (Plot size: 30f+ x 30f+) | | ¹ Indicators of hydric soil and wetland hydrology must | | |
| 1. Andropogon glomeratus | ZO Y FACW | be present, unless disturbed or problematic. | | |
| 2. Phragmites abstralis | 10 N PACW. | Definitions of Four Vegetation Strata: | | |
| 3. Arundinaria gigantea | 10 N FACW | To Mindustrate audiciding time 2 in (7.6 cm) or | | |
| 4. (4) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 N FAC+ | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of | | |
| 5. Juncus effusus | 30 Y OBL | height. | | |
| 6. Setaria pumila | 10 N FAC | Sanling/Shrub Wandy plants avaluding vines less | | |
| 7 | | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. | | |
| 8 | | Herb – All herbaceous (non-woody) plants, regardless | | |
| 9 | | of size, and woody plants less than 3.28 ft tall. | | |
| 10 | | Woody vine - All woody vines greater than 3.28 ft in | | |
| 11 | | height. | | |
| 12. | 90 | | | |
| 45 | 10 = Total Cover | | | |
| 50% of total cover: 45 | 20% of total cover: | | | |
| Woody Vine Stratum (Plot size: 30ft x 30ft) | | | | |
| 1. <u>None</u> | | | | |
| 2. | | | | |
| 3, | | | | |
| 4 | | | | |
| 5 | | Hydrophytic | | |
| | = Total Cover | Vegetation Present? Yes X No | | |
| 50% of total cover: | 20% of total cover: | Present? Yes No | | |
| Remarks: (If observed, list morphological adaptations below | v). | | | |
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Sampling Point: WchollZew

| Profile Description: (Describe to the depth needed to document the Indicator or confirm the absence of Indicators.) | | | | | | | | |
|--|---------------------------------|------------------------|-----------------------------|----------------------|--|--|--|--|
| Depth (inches) | Matrix Color (moist) % | Color (moist) | x Feature % | Type Loc2 | Texture | Remarks | | |
| Tirreries) | COIG (IIIOISI) 70 | - Coo (most) | -/0 | 1400 | Textore | Kemaks | | |
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| | D State Light Copies 1 States . | | | | | | | |
| ¹Type: C=Co | ncentration, D=Depletion, R | M=Reduced Matrix, M | S=Masked | Sand Grains. | ² Location: PL: | =Pore Lining, M=Matrix. | | |
| Hydric Soil Ir | idicators: (Applicable to a | III LRRs, unless other | rwise not | ed.) | Indicators for | Problematic Hydric Solls ³ : | | |
| Histosol (| A1) | Polyvalue Be | low Surfa | ce (S8) (LRR S, T, U |) 1 cm Muck | (A9) (LRR O) | | |
| Histic Epi | pedon (A2) | Thin Dark Su | | | | (A10) (LRR S) | | |
| Black His | | | | (F1) (LRR O) | | /ertic (F18) (outside MLRA 150A,B) | | |
| The same of the court of the light of the li | Sulfide (A4) | Loamy Gleye | | | | Floodplain Soils (F19) (LRR P, S, T) | | |
| A CONTRACTOR OF THE PARTY OF TH | Layers (A5) | Depleted Ma | | | | s Bright Loamy Soils (F20) | | |
| | Bodies (A6) (LRR P, T, U) | Redox Dark | | 6) | (MLRA1 | | | |
| | ky Mineral (A7) (LRR P, T, | | | | | t Material (TF2) | | |
| | sence (A8) (LRR U) | Redox Depre | | , , | | ow Dark Surface (TF12) | | |
| | k (A9) (LRR P, T) | Marl (F10) (L | | | marks and a company of the company o | olain in Remarks) | | |
| | Below Dark Surface (A11) | Depleted Oc | all the second state of the | (MLRA 151) | | | | |
| The second secon | k Surface (A12) | | | es (F12) (LRR O, P, | T) ³ Indicator | rs of hydrophytic vegetation and | | |
| to an a supplier of the control of the control | airie Redox (A16) (MLRA 15 | | | | | i hydrology must be present, | | |
| The second secon | ucky Mineral (S1) (LRR O, S | | | | | disturbed or problematic. | | |
| The state of the s | eyed Matrix (S4) | | | MLRA 150A, 150B) | | | | |
| Sandy Re | | | | oils (F19) (MLRA 14 | 9A) | | | |
| Stripped | | | | ny Soils (F20) (MLR/ | | 3D) | | |
| | ace (S7) (LRR P, S, T, U) | | | ., (, (| | | | |
| The state of the s | ayer (If observed): | | | | | | | |
| Туре: | | | | | | | | |
| Depth (incl | nec). | | | | Hydric Soll Pre | sent? Yes No | | |
| | 103). | | | | Tryant Con 110 | 30IR. 103 NO | | |
| Remarks: | | | | | | | | |
| 0.111 | not evaluat | 01 . | -/ | 1 | | | | |
| Could | not evaluat | e 5011 01 | MAY | ound DOV | Ner DIA | nt | | |
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Wetland data point wcho012e_w facing southwest



Wetland data point wcho012e_w facing northwest

| Project/Site: ACP | City/County: Chesapeake Sampling Date: 12/15/15 |
|---|--|
| Applicant/Owner: Dominion | State: VA Sampling Point: WChoOl2-W |
| Investigator(s): L. Roper, R. Turnbull | |
| | Local relief (concave, convex, none): None Slope (%): 0-21. |
| | |
| | 770193 Long: -76.30809 Datum: W6584 |
| Soil Map Unit Name: Udorthents-Urban land | |
| Are climatic / hydrologic conditions on the site typical for this time of y | (2018년) 1884년 (1884년) 1884년 |
| Are Vegetation, Soil, or Hydrology significantly | y disturbed? Are "Normal Circumstances" present? Yes 🔀 No |
| Are Vegetation, Soil, or Hydrology naturally pr | roblematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | g sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No No Wetland Hydrology Present? Yes No X | Is the Sampled Area within a Wetland? Yes No |
| Remarks: | |
| powerline easement | |
| Could not evaluate soils o | in/near power plant |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B1 | |
| High Water Table (A2) Marl Deposits (B1: | 5) (LRR U) Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide | |
| | neres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Redu | |
| | ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | 2는 등이 가는 전에서 1000 PP 이 나이 사용을 받는데 하는데 100 PP 이 100 PP |
| Iron Deposits (B5) Other (Explain in F | 1 전 : (1) [[[[[[[[[[[[[[[[[[[|
| Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) | FAC-Neutral Test (D5) |
| Field Observations: | Sphagnum moss (D8) (LRR T, U) |
| Surface Water Present? Yes No X Depth (inches | ». NA |
| Water Table Present? Yes No Depth (inches | |
| Saturation Present? Yes No Depth (inches (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial phot | os, previous inspections), if available: |
| Remarks: | |
| | inface hydrology near/at |
| power plant | avese a + |
| No surface water indicator | 5 preserva |
| | |
| | |
| | |
| | |

| | Absolute Dominant Indicator | Deminance Test worksheet: |
|---|--|--|
| Tree Stratum (Plot size: 30ff x 30ff) | % Cover Species? Status | Dominance Test worksheet: |
| | | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 1. none | | That Are OBL, FACW, or FAC: (A) |
| 2 | | Total Number of Dominant |
| 3 | | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | |
| ■ 2017 日本の日本の大きの大きをはない。 1920年 日本の日本の大きの日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の | | Percent of Dominant Species That Are OBL, FACW, or FAC: 501 (A/B) |
| 5 | | That Are OBL, FACW, or FAC: (A/B) |
| 6. | | Prevalence Index worksheet: |
| 7. | | |
| 8 | | Total % Cover of: Multiply by: |
| | = Total Cover | OBL species x 1 = |
| E00/ -51-4-1 | | FACW species |
| 50% or total cover: | 20% of total cover: | FAC species 15 x3 = 45 |
| Sapling/Shrub Stratum (Plot size: 30f4 x 30f4) | | FACU species 55 x4 = 220 |
| 1. hone | | |
| 2. | | UPL species x 5 = |
| | | Column Totals: 95 (A) 315 (B) |
| 3. | | |
| 4 | | Prevalence Index = B/A = 3.32 |
| 5 | | Hydrophytic Vegetation Indicators: |
| 6. | | |
| | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | 2 - Dominance Test is >50% |
| 8. | | 3 - Prevalence Index is ≤3.01 |
| | O = Total Cover | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | 20% of total cover: | |
| Herb Stratum (Plot size: 30f+ x30f+) | | |
| Mel Stratom (Flot size. 501 + A 5011) | E AL ENGLI | Indicators of hydric soil and wetland hydrology must |
| 1. Andropogon glomeratus | 5 N FACW | be present, unless disturbed or problematic. |
| 2. Eupatorium capillifolium | 5 N FACU | Definitions of Four Vegetation Strata: |
| 3. Symphyotrichum pilosum | 20 Y FACW | |
| 4. Setaria pumila | 15 N FAC | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of |
| 5. Eleusine indica | | height. |
| The Control of the Annual States of Control | Charten and the second | Troight. |
| 6, | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7. | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | |
| | | Herb – All herbaceous (non-woody) plants, regardless |
| 9. | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | Woody vine - All woody vines greater than 3.28 ft in |
| 11 | | height. |
| 12. | | |
| | 95 | |
| 47 | = Total Cover | |
| 50% of total cover: | 5 20% of total cover: 19 | |
| Woody Vine Stratum (Plot size: 30ff x 30ff) | | |
| 1. Mone | | |
| 2. | | |
| | C. S. privatski sa na nakodnji slikova da sa nakodnjih sa | |
| 3. | | |
| 4 | | |
| 5 | | Hydrophytic |
| | D = Total Cover | Vegetation |
| F00/ -51-1-1 | | Present? Yes No |
| 50% of total cover: | See a security of the second s | |
| Remarks: (If observed, list morphological adaptations below | w). | |
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| Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture | Remarks |
|---|--|
| | |
| | |
| | Martiner (2001) Amazin (2001) Amazin (2001) |
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| ¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Linin | |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problemat | |
| Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR | |
| Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LR | |
| | (outside MLRA 150A,B) Soils (F19) (LRR P, S, T) |
| Stratified Layers (A5) Depleted Matrix (F2) Anomalous Bright Loa | |
| Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) | any cons (r 20) |
| 5 cm Mucky Mineral (A7) (LRR P, T, U) Depleted Dark Surface (F7) Red Parent Material (| TF2) |
| Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark Su | |
| 1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Other (Explain in Rem | narks) |
| Depleted Below Dark Surface (A11) Depleted Ochric (F11) (MLRA 151) | |
| | phytic vegetation and |
| Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) wetland hydrology | |
| Sandy Mucky Mineral (S1) (LRR O, S) Delta Ochric (F17) (MLRA 151) unless disturbed o | r problematic. |
| Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) 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): | |
| Type: | |
| Depth (inches): Hydric Soil Present? Y | es No |
| Remarks: | |
| | 1 1 |
| Could not evaluate soils on/near power p | plant |
| 0000 110. 000.00. | |
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Upland data point wcho012_u facing southeast



Upland data point wcho012_u facing northeast

| Project/Site: ACP City/Cour | inty: Chesapeake Sampling Date: 12/15/15 |
|---|--|
| Applicant/Owner: Dominion | |
| A | State: VH Sampling Point: Wcho 0(4f- |
| Investigator(s): L. ROPER, R. TURN DUI Section, | |
| | ief (concave, convex, none): NONC Slope (%): 0-21/ |
| Subregion (LRR or MLRA): LRR T Lat: 36.7730 | 06 Long: -76, 30535 Datum: W6584 |
| Soil Map Unit Name: Urband Land | NWI classification: PFO |
| Are climatic / hydrologic conditions on the site typical for this time of year? Yes | |
| Are Vegetation, Soil, or Hydrology significantly disturbed | |
| Are Vegetation, Soil, or Hydrology naturally problematic | |
| SUMMARY OF FINDINGS – Attach site map showing sampl | |
| | |
| Hydrophytic Vegetation Present? Yes No Is | s the Sampled Area |
| Hydric Soil Present? Yes No | vithin a Wetland? Yes No |
| Wetland Hydrology Present? Yes _ No | |
| Remarks: | 1 |
| ditch beside old railroad ber | d |
| could not evaluate soils on In- | ear power plant |
| NCWAM Classification: Hardw | and Flat |
| HYDROLOGY | THE FLAT |
| Wetland Hydrology Indicators: | Connection Indicators (minimum of two conviced) |
| Primary Indicators (minimum of one is required; check all that apply) | Secondary Indicators (minimum of two required) |
| 120 - W. Servet Windshill Conference | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) High Water Table (A2) Marl Deposits (B15) (LRR U | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Saturation (A3) Marl Deposits (B15) (LRR U Hydrogen Sulfide Odor (C1) | |
| Water Marks (B1) Oxidized Rhizospheres along | |
| Sediment Deposits (B2) Presence of Reduced Iron (C | |
| Drift Deposits (B3) Recent Iron Reduction in Till | 18 18 18 18 18 18 18 18 18 18 18 18 18 1 |
| 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) | X FAC-Neutral Test (D5) |
| X Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | 0. |
| Surface Water Present? Yes X No Depth (inches): | ++ |
| Water Table Present? Yes No Depth (inches): | |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe) | Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous | us inspections), if available: |
| | |
| Remarks: | |
| portions of wetland inundate could not evaluate subsurface hyd | , |
| Post of Welland Inundat | ted 1 1 |
| and and addingte substitutes land | tralogy on/near power plant. |
| Could not evaluate substitute nyo | ~ 0100) |
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| Tree Stratum (Plot size: 30ft x 30ft) 1. Liquidambar styraciflua 2. 3. 4. 5. 6. | | Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (B) (A/B) |
|---|---|---|
| Sapling/Shrub Stratum (Plot size: 30ft x 30ft) 1. Morella cerifera | 10 = Total Cover 20% of total cover: 2 20 Y FALL 5 Y FAC | UPL species x 5 = (B) |
| 5 | | Z - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) Indicators of bydric soil and wetland bydrology must |
| 4 | | more in diameter at breast height (DBH), regardless of height. Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine – All woody vines greater than 3.28 ft in height. |
| 50% of total cover: 2.5 Woody Vine Stratum (Plot size: 30ff x 30ff) 1. Smilax Yntundifolia 2. 3. 4. 5. | 5 Y FAC | Hydrophytic Vegetation Present? YesX No |
| Remarks: (If observed, list morphological adaptations below | ow). | |

| | | | | | cator or confir | m the absence of In | dicators.) |
|--|-----------------|--|---|--|-----------------|-------------------------------|--|
| Depth (inches) | Color (moi | st) % | Color (moist) | % Features | ype Loc² | Texture | Remarks |
| Tinches | Color (Intol | 70 | Coldi (Moist) | | ype Loc | rexture | Remarks |
| | | | | | | | SOURCE CONTRACTOR SOURCE STATE OF STATE |
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| IT | | - Davidia - DM | D-4 | | 10 | 2 | |
| | | | =Reduced Matrix, M LRRs, unless othe | | | | Pore Lining, M=Matrix. |
| | | ppiicable to aii | | | | | Problematic Hydric Soils ³ : |
| Histosol | | | | | S8) (LRR S, T, | | ###################################### |
| The second secon | ipedon (A2) | | Thin Dark S | | | | (A10) (LRR S) |
| Black His | Sulfide (A4) | | | y Mineral (F1) | | | ertic (F18) (outside MLRA 150A,B) |
| | Layers (A5) | | COLUMN TO SERVICE STATE OF THE PARTY OF THE | ed Matrix (F2) | | | loodplain Soils (F19) (LRR P, S, T) |
| The second secon | Bodies (A6) (L | PP P T III | Depleted Ma | | | | Bright Loamy Soils (F20) |
| | | 7) (LRR P, T, U) | | rk Surface (F7 | 1 | (MLRA 1 | Material (TF2) |
| | esence (A8) (L | | Redox Depre | | , | | w Dark Surface (TF12) |
| | ck (A9) (LRR I | | Marl (F10) (I | | | | ain in Remarks) |
| | Below Dark S | | | hric (F11) (ML | RA 151) | 0.1101 (Exp. | an in Normania, |
| The second of th | rk Surface (A1 | manufactures transfer to the control of the control | | | F12) (LRR O, F | P. T) ³ Indicators | of hydrophytic vegetation and |
| To the Land of the Allendar | | 16) (MLRA 150) | | ace (F13) (LRI | | | hydrology must be present. |
| Y | | S1) (LRR O, S) | Delta Ochric | | | | isturbed or problematic. |
| The second of the contract of | leyed Matrix (S | | | | RA 150A, 150B | | |
| Sandy Re | edox (S5) | | | The second secon | (F19) (MLRA 1 | | |
| Stripped | Matrix (S6) | | Anomalous I | Bright Loamy 8 | Soils (F20) (ML | RA 149A, 153C, 153 | D) |
| Dark Sur | face (S7) (LRF | R P, S, T, U) | | | | | |
| Restrictive L | ayer (if obser | ved): | | TOTAL TARE | | | |
| Туре: | | | | | | | |
| Depth (inc | hes): | | | | | Hydric Soll Pres | ent? Yes No |
| Remarks: | | | | | | | |
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| Carla | · nont | and live | to coil | 410/1 | | power F | ala int |
| C00 10 | 1101 | CValue | 116 2011 | 00/1 | near | POVVEY + | JIWN C |
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Wetland data point wcho014f_w facing northwest



Wetland data point wcho014f_w facing northeast

| Project/Site: ACP City/C | County: Chesapeake Sampling Date: 12/15/15 |
|---|---|
| Applicant/Owner: Pominion | State: VA Sampling Point: wcha 014-4 |
| . 0 - 0 - 1 11 | |
| | on, Township, Range: NONE |
| 0 0 | relief (concave, convex, none): None Slope (%): 0-21 |
| | 302 Long: -76.30537 Datum: W6584 |
| Soil Map Unit Name: Urban Land | NWI classification: NH |
| Are climatic / hydrologic conditions on the site typical for this time of year? | |
| Are Vegetation, Soil, or Hydrology significantly disturb | rbed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrology naturally problem | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS – Attach site map showing san | npling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No _X | Is the Sampled Area |
| Hydric Soil Present? Yes No | within a Wetland? Yes No |
| Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No X | within a Wetland? |
| Remarks: | |
| old railroad bed | |
| could not evaluate soils or | Inear powerplant |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LRI | R U) Drainage Patterns (B10) |
| Saturation (A3) Hydrogen Sulfide Odor (6 | C1) Moss Trim Lines (B16) |
| Water Marks (B1) Oxidized Rhizospheres a | along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Reduced Iro | on (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) Thin Muck Surface (C7) | Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in Remark | ss) 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: | NA |
| | NA |
| Water Table Present? Yes No Depth (inches): | |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe) | Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: |
| Remarks: | |
| Could not evaluate subsurfa | ace hydrology on hear |
| power Plant | |
| No surface water indicators prese | nt. |
| | |
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| 3061 3067 | Absolute Dominant Indicator | Dominance Test worksheet: |
|--|-----------------------------|--|
| Tree Stratum (Plot size: 30ff x 30ff, | % Cover Species? Status | Number of Dominant Species |
| | | That Are OBL, FACW, or FAC: (A) |
| 2 | | Total Number of Dominant |
| 3 | | Species Across All Strata: (B) |
| 4 | | Bernart of Bernart Species |
| 5. | | Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B) |
| 6. | | |
| 7. | | Prevalence Index worksheet: |
| 8 | | Total % Cover of: Multiply by: |
| | = Total Cover | OBL species x 1 = |
| 50% of total cover: | 20% of total cover: | FACW species x 2 = 4 |
| Sapling/Shrub Stratum (Plot size: 30ffx30ff) | | FAC species x 3 = FACU species x 4 = ZO |
| 1. none | | FACU species 5 x 4 = 20 |
| 2. | | UPL species x 5 = |
| | | Column Totals: 7 (A) 24 (B) |
| 3 | | |
| 4 | | Prevalence Index = B/A = 3 , 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 |
| | = Total Cover | Problematic Hydrophytic Vegetation¹ (Explain) |
| | 20% of total cover: | |
| Herb Stratum (Plot size: 3014 x 3014) | - 1 | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Eupatorium capillifolium | 5 Y FACU | be present, unless disturbed or problematic. |
| 2. Hndropogon glomeratus | Z Y FACW | Definitions of Four Vegetation Strata: |
| 3 | | Tree Meady plants evaluding since 2 in (7.6 cm) or |
| 4 | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of |
| 5 | | height. |
| 6. | | San Hard Shareh Manda alondo avaludina sino a lace |
| 7. | | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | |
| | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| 9 | | of size, and woody plants less than 5.26 it tall. |
| 10 | | Woody vine - All woody vines greater than 3.28 ft in |
| 11 | | height. |
| 12. | | |
| 25 | = Total Cover | |
| | 20% of total cover: 114 | |
| Woody Vine Stratum (Plot size: 30+4 x 30+4) | | |
| 1. non-e | | |
| 2. | | |
| 3. | | |
| 4 | | |
| 5 | | Hydrophytic |
| | = Total Cover | Vegetation |
| 50% of total cover: | 20% of total cover: | Present? Yes No No |
| Remarks: (If observed, list morphological adaptations belo | | |
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| Profile Desc | ription: (Desc | ribe to the dept | h needed to docui | nent the Indica | tor or confirm | n the absence of Inc | dicators.) |
|--|--|-------------------|--|--|-----------------|----------------------|--|
| Depth (inches) | Mat | | | x Features | -1 1-2 | Taut | Dam-str. |
| (inches) | Color (mois | t) % | Color (moist) | | e Loc2 | | Remarks |
| | | | | | | Example Mo | |
| | | | | | | | |
| | TOTAL STREET | | | | | | |
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| | | | Reduced Matrix, M | | Grains. | | Pore Lining, M=Matrix. |
| Hydric Soil I | ndicators: (Ap | plicable to all L | RRs, unless other | | | | roblematic Hydric Solls ³ : |
| Histosol | (A1) | | | low Surface (St | | J) 1 cm Muck (| A9) (LRR O) |
| Histic Ep | ipedon (A2) | | | rface (S9) (LRF | | 2 cm Muck (| A10) (LRR S) |
| Black Hi | COLUMN STREET, ST. ST. ST. ST. ST. ST. ST. ST. ST. | | Loamy Muck | y Mineral (F1) (| LRR O) | Reduced Ve | ertic (F18) (outside MLRA 150A,B) |
| A STATE OF THE PARTY OF THE PAR | n Sulfide (A4) | | Loamy Gleye | d Matrix (F2) | | Piedmont Fl | oodplain Soils (F19) (LRR P, S, T) |
| | Layers (A5) | | Depleted Ma | | | | Bright Loamy Soils (F20) |
| | Bodies (A6) (LF | | Redox Dark | the same of the same of the same of the same | | (MLRA 15 | (1984) : [10] [10] [10] [10] [10] [10] [10] [10] |
| | |) (LRR P, T, U) | | k Surface (F7) | | | Material (TF2) |
| | esence (A8) (LF | | Redox Depre | | | | w Dark Surface (TF12) |
| | ck (A9) (LRR P | | Marl (F10) (L | | | Other (Expla | in in Remarks) |
| | Below Dark Su | | Control of the Contro | nric (F11) (MLR | | - 3, | |
| A STATE OF THE STA | rk Surface (A12 | | Iron-Mangan | | | | of hydrophytic vegetation and |
| | ucky Mineral (S | | Umbric Surfa | | | | nydrology must be present, |
| The second of the second of the second | leyed Matrix (S | | Delta Ochric | | | | sturbed or problematic. |
| The second secon | edox (S5) | 7) | | tic (F18) (MLR/ odplain Soils (F | | | |
| the second second second second second | Matrix (S6) | | | | | A 149A, 153C, 153I | 2) |
| 1.00 March 10 March 1 | face (S7) (LRR | PSTIN | ^ | ingin Loamy Go | 13 (1 20) (INEK | A 143A, 133C, 133L | 2) |
| | ayer (If observ | | | | | | |
| Type: | | | | | | | |
| Depth (inc | hac): | | | | | Undrie Call Broom | ant2 Vac No |
| | nes) | | | | | Hydric Soil Prese | ent? Yes No |
| Remarks: | | | | | | | |
| 1 | innt | 0.10/120 | to soi | 1 20 | lugare | power | alant |
| 6000 | 1101 | enamo | 110 201 | 10 011 | mear | power | Plane |
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| | | THE RESERVE | | | | | |



Upland data point wcho014_u facing southwest



Upland data point wcho014_u facing southeast

| Project/Site: ACP City/County: Chesapeake sampling Date: 12/15/15 |
|---|
| Applicant/Owner: Dominion State: VA Sampling Point: Wchallbe |
| Investigator(s): L. Roper, R. Turnoull Section, Township, Range: None |
| Landform (hillslope, terrace, etc.): + a+ Local relief (concave, convex, none): NONE Slope (%): D = 7 |
| Subregion (LRR or MLRA): LPFT Lat: 36.77428 Long: -76.29722 Datum: W(58 |
| Soil Map Unit Name: Udorthents-Urban land complex NWI classification: EZEM |
| 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 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? Hydric Soil Present? Wetland Hydrology Present? YesX No No No No Remarks: Is the Sampled Area within a Wetland? YesX No |
| Tidal emergent wetland |
| Could not evaluate soils on/near power plant |
| HYDROLOGY |
| Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) |
| 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) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C3) |
| Sediment Persoits (PG) |
| Drift Deposits (P2) |
| Brit Deposits (B3) Recent fron Reduction in Tilled 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) |
| |
| Field Observations: |
| Surface Water Present? Yes No _X Depth (inches): NA |
| Water Table Present? Yes No Depth (inches): |
| Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: |
| Remarks: |
| portions of wetland inundated |
| Could not evaluate subsurface hydrology on near |
| power plant |
| |
| |
| |
| |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: wchoblee_w

| 2.51 2551 | Absolute | Dominan | t Indicator | Dominance Test worksheet: |
|---|------------|-------------|-------------|---|
| Tree Stratum (Plot size: 30 F+x30 F+) | % Cover | Species | ? Status | Number of Dominant Species |
| 1. none | | | | That Are OBL, FACW, or FAC: (A) |
| 2 | | | | Value of the Constitution |
| 3 | | | | Total Number of Dominant |
| | | | | Species Across All Strata: (B) |
| 4 | | | | Percent of Dominant Species |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | |
| 7 | | | | Prevalence Index worksheet: |
| 8 | | | | Total % Cover of: Multiply by: |
| | 0 : | - Total Co | \/Ar | OBL species x 1 = |
| | | | | FACW species x 2 = |
| 50% of total cover: | _ 20% 01 | total cove | r | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 30 Ft x 30 Ft) | | | | |
| 1. none | | | | FACU species x 4 = |
| 2 | | | | UPL species x 5 = |
| 3 | | | | Column Totals: (A) (B) |
| 4 | | | | |
| | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.01 |
| F | 0 = | Total Co | ver | |
| 50% of total cover: | | | | Problematic Hydrophytic Vegetation ¹ (Explain) |
| Herb Stratum (Plot size: 30 Ff x 30 Ff) | _ 20 70 01 | iolai covei | | |
| 1. Thragmites australis | 9- | N | Enchl | ¹ Indicators of hydric soil and wetland hydrology must |
| | 15 | 7_ | FACW | be present, unless disturbed or problematic. |
| 2 | | | | Definitions of Four Vegetation Strata: |
| 3 | | | | Too Month stock and discussion 2 is (7.9. |
| 4 | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of |
| 5 | | | | height. |
| | | | | |
| 6 | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | | | Herb - All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | |
| 11 | | | | Woody vine - All woody vines greater than 3.28 ft in height. |
| 12 | | | | neight. |
| 12. | 05 | | | |
| 11 | 95 = | Total Cov | /er | |
| 50% of total cover: 4713 | 20% of t | otal cover | 17 | |
| Woody Vine Stratum (Plot size: 30++ x 30++) | | | | |
| 1. none | | | | |
| 2 | | | | |
| 3. | | | | |
| | | | | |
| 4 | | - | | |
| 5 | | | | Hydrophytic |
| | <u> </u> | Total Cov | er | Vegetation |
| 50% of total cover: | 20% of t | otal cover | | Present? Yes X No |
| Remarks: (If observed, list morphological adaptations below | | | | |
| (control in the proof of a daptation of bottom | ,. | | | |
| | | | | |
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| Depth | Matrix | Redox Features | | | |
|----------------|--------------------------|---|-------------------|----------------------------------|-------------------------------|
| (inches) | Color (moist) | | ype Loc2 | Texture | Remarks |
| | | | | | |
| | | | | | |
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| | | , | | | |
| Tune: C-C- | | | | | |
| type. C=Co | disators: (Applicable | n, RM=Reduced Matrix, MS=Masked Sa to all LRRs, unless otherwise noted.) | nd Grains. | ² Location: PL=Pore L | |
| | | | | Indicators for Proble | matic Hydric Solls": |
| Histosol (| f . | Polyvalue Below Surface (| S8) (LRR S, T, U) | | |
| | pedon (A2) | Thin Dark Surface (S9) (LI | | 2 cm Muck (A10) | |
| Black His | | Loamy Mucky Mineral (F1) | | Reduced Vertic (F | 18) (outside MLRA 150A,B |
| 777 | Sulfide (A4) | Loamy Gleyed Matrix (F2) | | Piedmont Floodpla | ain Soils (F19) (LRR P, S, T) |
| | Layers (A5) | Depleted Matrix (F3) | | Anomalous Bright | Loamy Soils (F20) |
| _ Organic E | Bodies (A6) (LRR P, T, I | J) Redox Dark Surface (F6) | | (MLRA 153B) | |
| _ 5 cm Mud | ky Mineral (A7) (LRR P | |) | Red Parent Mater | |
| | sence (A8) (LRR U) | Redox Depressions (F8) | | Very Shallow Dark | |
| | k (A9) (LRR P, T) | Marl (F10) (LRR U) | | Other (Explain in I | Remarks) |
| | Below Dark Surface (A | | | | |
| | k Surface (A12) | Iron-Manganese Masses (| |) Indicators of hyd | rophytic vegetation and |
| | irie Redox (A16) (MLR/ | | | wetland hydrole | ogy must be present, |
| | icky Mineral (S1) (LRR | | | unless disturbe | d or problematic. |
| | eyed Matrix (S4) | Reduced Vertic (F18) (MLI | | | |
| _ Sandy Re | | Piedmont Floodplain Soils | | | |
| | Matrix (S6) | Anomalous Bright Loamy S | ioils (F20) (MLRA | 149A, 153C, 153D) | |
| | ace (S7) (LRR P, S, T, | n) | | | |
| Restrictive La | yer (If observed): | | | | |
| Туре: | | | | | |
| Depth (inch | es): | | | Hydric Soil Present? | YesNo |
| emarks: | | | | | |
| Could | not pu | Muate 50713 | on/nea | r Dower | plant |
| 011111 | | C1000 - | 1 | | PICTIO |
| 0010 | 1101 600 | | | | |
| 20010 | VIU I EUC | | | 1 | |
| 2010 | 101 600 | | | , | 1 |
| 20010 | YIUT EUC | | | ľ | |
| 20010 | VIO 1 EOC | | | | |
| 2010 | VIO 1 EOC | | | | |
| 2010 | VIO 1 EOC | | | | |
| | V101 E00 | | | | |
| 20010 | VIO 1 EOC | | | | |
| 20010 | VIO 1 EOC | | | | |
| 20010 | VIO 1 EOC | | | | |
| 20010 | VIO 1 EOC | | | | |
| 20010 | VIO 1 EOC | | | | |
| 20010 | VIO 1 EOC | | | | |
| | V10 1 EOC | | | | |
| | V10 1 EOC | | | | |
| | V10 1 EOC | | | | |
| | VIO 1 EOC | | | | |
| | V10 1 E00 | | | | |
| | V10 1 E00 | | | | |
| | V10 1 E00 | | | | |
| | V10 1 E00 | | | | |
| | V10 1 E00 | | | | |



Wetland data point wcho016e_w facing west



Wetland data point wcho016e_w facing south

| Project/Site: ACP City/C | County: Chesa peake Sampling Date: 12/15/15 |
|---|---|
| Applicant/Owner: Dominion | State: VA Sampling Point: WC/10016 F- |
| Investigator(s): Li Roper, Ri Turnbull Section | |
| | relief (concave, convex, none): NONE Slope (%): U-Z' |
| Subregion (LRR or MLRA): LRR T Lat: 310:774 | |
| | |
| Soil Map Unit Name: Udorth ents-Urban land | |
| Are climatic / hydrologic conditions on the site typical for this time of year? Y | |
| Are Vegetation, Soil, or Hydrology significantly distur | bed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrology naturally problems | atic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing san | apling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No | |
| Hydric Soil Present? Yes No | Is the Sampled Area within a Wetland? Yes No |
| Wetland Hydrology Present? Yes X No | within a Wetland? Yes /\ No |
| D | 10000 |
| Could not evaluate soils on/r | lear power plant |
| | |
| 11011011 Class C. 1501 3 14 1 | |
| NCWAM Classification: Bottom | and Hardwood torest |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (LRF | |
| Saturation (A3) Hydrogen Sulfide Odor (C | |
| Water Marks (B1) Oxidized Rhizospheres a Sediment Deposits (B2) Presence of Reduced Iro | |
| Drift Deposits (B3) Recent Iron Reduction in | |
| Algal Mat or Crust (B4) Thin Muck Surface (C7) | Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in Remark | Shallow Aquitard (D3) |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| X Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | NA |
| | 14.41 |
| Water Table Present? Yes No Depth (inches): | — v v |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe) | Wetland Hydrology Present? Yes X No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre | vious inspections), if available: |
| Remarks: | |
| portions of wetland inund | ated |
| 1 2 | |
| could not evaluate subsur | face hydrology on/near |
| 2000 | |
| power plant | |
| | |
| | |
| | |
| | |
| | 1 |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: wchoolef-w

| - 01 - 01 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------------|---------------|-----------|--|
| 1. Acer rubrum | % Cover | Species? | Status | Number of Dominant Species That Are OBL, FACW, or FAC: (A) |
| 2. Liquidambar styracitlua | 5 | | FAC | Total Number of Descinant |
| | | | | Total Number of Dominant Species Across All Strata: (B) |
| 4 | | | | Percent of Dominant Species |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of: Multiply by: |
| 8. | 15 | = | | OBL species x 1 = |
| 7.5 | | = Total Co | | FACW species x 2 = |
| 50% of total cover: 715 | 20% of | total cove | | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 30ff x 30ff) | | | | FACU species x 4 = |
| 1. none | | | | UPL species x 5 = |
| 2 | | | | Column Totals: (A) (B) |
| 3 | | | | Column Totals (A) (B) |
| 4 | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| 7 | | | | ∠ 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.01 |
| | 0 | = Total Co | ver | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | 20% o | f total cove | r: | |
| Herb Stratum (Plot size: 30 ft x 30 ft) | × 1 | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Rubus arqutus | 5 | X | FAC | be present, unless disturbed or problematic. |
| 2 | | | | Definitions of Four Vegetation Strata: |
| 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m | | | | |
| 3 | 787 MODESTAN | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of |
| 4 | | | | height. |
| 5 | | | | |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7 | | | | |
| 8 | | | | Harb – All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12 | | | | |
| 523 | _5_ | = Total Co | | |
| 50% of total cover: 2: | <u>5</u> 20% o | f total cove | r: | |
| Woody Vine Stratum (Plot size: 30ff x 30ff) | | | | |
| 1. Smilax rotunditolia | 5 | У | FAC | |
| 2. | | • | | |
| 2 | | | | |
| 3 | | | | |
| 4 | | | | |
| 5 | | | | Hydrophytic Vegetation |
| 7 | 5 | = Total Co | | Present? Yes No No |
| 50% of total cover: 2 | | of total cove | r | |
| Remarks: (If observed, list morphological adaptations bel | ow). | | | |
| | | | | |
| | | | | |
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| | | | | |
| | | | | AND SECRET AND |

| | Matrix | | Redox Feat | ires | | he absence | | |
|---------------------------|--|---|--|---------------|------------------|--|--|----------------|
| Depth | Color (moist) | % Cole | or (moist) % | | Loc ² | Texture | Remark | s |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | 91000000 | | | |
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| | | | | | | | | 200 |
| | | | ed Matrix, MS=Masi | | ins. | | PL=Pore Lining, M=M | |
| | | | unless otherwise r | | | | for Problematic Hydr | ic Solls": |
| Histosol (A: Histic Epipe | 1. Track (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | | Polyvalue Below Su Thin Dark Surface (| | | | luck (A9) (LRR O) luck (A10) (LRR S) | |
| Black Histic | | | Loamy Mucky Mine | | | The second secon | ed Vertic (F18) (outsid | e MLRA 150A,B) |
| Hydrogen S | | | Loamy Gleyed Matr | 100 | | | ont Floodplain Soils (F | |
| Stratified La | | 50.95 Sept. 20 | Depleted Matrix (F3 | | | | lous Bright Loamy Soi | ls (F20) |
| _ | dies (A6) (LRR P, | | Redox Dark Surface | | | • | RA 153B) arent Material (TF2) | |
| | / Mineral (A7) (LR ence (A8) (LRR U) | | Depleted Dark Surfa Redox Depressions | | | | hallow Dark Surface (T | F12) |
| | (A9) (LRR P, T) | | Mari (F10) (LRR U) | | | | Explain in Remarks) | / |
| | elow Dark Surface | (A11) | Depleted Ochric (F1 | 1) (MLRA 15 | 1) | | | |
| | Surface (A12) | | Iron-Manganese Ma | | | | ators of hydrophytic ve | |
| | | | Umbric Surface (F1 | | U) | | and hydrology must be ess disturbed or proble | |
| | ky Mineral (S1) (L red Matrix (S4) | CONTRACTOR | Delta Ochric (F17) (Reduced Vertic (F1 | | A. 150B) | ume | ess distalbed of proble | manc. |
| Sandy Red | | | Piedmont Floodplain | | | A) | | |
| Stripped Ma | atrix (S6) | _ | Anomalous Bright L | oamy Soils (F | 20) (MLRA | 149A, 153C, | 153D) | |
| | e (S7) (LRR P, S, | , T, U) | | | | | | |
| | er (if observed): | | | | | | | |
| Type: Depth (inche | | | | | - 1 | Hydrlc Soll | Present? Yes | No |
| | 5). | | | | | Trydite con | 11030111 103 | |
| Damarke: | | | | 1 | | | | 1 |
| Remarks: | | 1 | 1 | | | | 1 | |
| | not el | aluate | soils | tonly | Par | DOW | Yer Dlant | |
| | not ev | alvate | , soils | on/r | ear | POW | ver plant | U |
| | not ev | valuate | , soils | on/r | ear | POW | ver plant | U |
| | not ev | alvate | , soils | on/h | ear | Pow | her plant | |
| | not ev | valuate | , soils | 5n/h | eur | Pow | her plant | |
| | not ev | valuate | , soils | on/r | eur | Pow | her plant | |
| | not ev | alvate | , soils | on/r | eur | Pow | her plant | |
| | not ev | alvate | , soils | 5n/r | ear | Pow | her plant | |
| | not ev | alvate | , soils | 5n/r | ear | Pow | her plant | |
| | not ev | valuate | , soils | on/r | ear | Pow | her plant | |
| | not ev | alvate | , soils | on/r | | Pow | her plant | |
| | not ev | alvate | , soils | | | Pow | her plant | |
| | not ev | alvate | , soils | | | Pow | her plant | |
| | not ev | alvate | , soils | | | Pow | her plant | |
| | not ev | alvate | soils | | | Pow | her plant | |
| | not ev | alvate | soils | | | Pow | her plant | |
| | not ev | alvate | soils | | | Pow | her plant | |
| | not ev | alvate | soils | | | Pow | her plant | |
| | not ev | alvate | soils | | | Pow | her plant | |
| | not ev | alvate | soils | | | Pow | her plant | |



Wetland data point wcho016f_w facing northwest



Wetland data point wcho016f_w facing northeast

| Project/Site: ACP City | //County: Chesapeake Sampling Date: 12/15/15 |
|---|--|
| Applicant/Owner: Dominian | State: VA Sampling Point: WCho Dlb - u |
| | ction, Township, Range: NOVL |
| Landform (hillslope, terrace, etc.): | cal relief (concave, convex, none): NONE Slope (%) D-2/ |
| Subregion (LRR or MLRA): LPR T Lat: 36.77 | 418 Long: -710, 29799 Datum: W658 |
| Soil Map Unit Name: Udorthents-Urban lan | 110 |
| | ~ 1 |
| Are climatic / hydrologic conditions on the site typical for this time of year? | ~ |
| Are Vegetation, Soil, or Hydrology significantly dist | |
| Are Vegetation, Soil, or Hydrology naturally proble | |
| SUMMARY OF FINDINGS – Attach site map showing sa | ampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes No | Is the Sampled Area |
| Hydric Soil Present? Yes No | within a Wetland? Yes No |
| Wetland Hydrology Present? Yes No | Within a Wettand? |
| Could not evaluate soils on | lhour pourse short |
| Could not evaluate sons on | mear power plant |
| | |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (L | |
| 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 I | ron (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) Thin Muck Surface (C7 | · · · · · · · · · · · · · · · · · · |
| Iron Deposits (B5) Other (Explain in Rema | |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) Field Observations: | Sphagnum moss (D8) (LRR T, U) |
| Surface Water Present? Yes No Depth (inches): | NA |
| Water Table Present? Yes No Depth (inches): | |
| Saturation Present? Yes No Depth (inches): | Wetland Hydrology Present? Yes No_X_ |
| (includes capillary fringe) | |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, p | revious inspections), if available: |
| Remarks: | |
| Could not evaluate subsu | rface hydrology on/near |
| power plant | |
| l'isolare are | +4.00 |
| No surface water indicators pres | jeri(· |
| No. | |
| | |
| | |
| | |
| | |
| | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: WWDONG-W

| 1-11 2211 | Absolute Dominant Ind | |
|--|--|---|
| Tree Stratum (Plot size: 30f4 x 30f4) | % Cover Species? S | |
| 1. Pinus taeda | | |
| 2. Acer ruhrum | SYF | AC Tatal Number of Dominant |
| | | Total Number of Dominant Species Across All Strata: (B) |
| 3 | | |
| 4 | | Percent of Dominant Species |
| 5 | | That Are OBL, FACW, or FAC: (A/B) |
| · 6 | | Bl |
| 7. | | Prevalence Index worksheet: |
| 8 | | Total % Cover of: Multiply by: |
| 0 | = Total Cover | OBL species x 1 = |
| 5 | 20% of total cover: | 7 FACW species x 2 = |
| 50% of total cover: | 20% of total cover: | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 30ff x 30ff) | | |
| 100106 | | FACU species x 4 = |
| | | UPL species x 5 = |
| 2 | | Column Totals: (A) (B) |
| 3 | | |
| 4 | | Prevalence Index = B/A = |
| 5 | | Hydrophytic Vegetation Indicators: |
| 6. | | |
| | | |
| 7 | The state of the s | |
| 8 | | 3 - Prevalence Index is ≤3.01 |
| | = Total Cover | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: | 20% of total cover: | |
| Herb Stratum (Plot size: 30ff x 30ff) | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Rubus argutus | ID V F | be present, unless disturbed or problematic. |
| 1. KUDUS AVADTUS | | D. S. W |
| 2 | | Definitions of Four Vegetation Strata: |
| 3 | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. | | |
| 5 | | height |
| A STATE OF THE STA | | |
| 6 | | then 3 in DDU and greater than 3.78 ft (1 m) tall |
| 7 | | III all 3 III. Doi'l alld grouter than 0.20 it (1 iii) |
| 8 | | Herb - All herbaceous (non-woody) plants, regardless |
| 9. | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | |
| | | |
| 11 | | neight. |
| 12 | | |
| | = Total Cover | |
| 50% of total cover: | 20% of total cover: | |
| Woody Vine Stratum (Plot size: 30ff x 30ff) | | |
| | 1- V C | in/ |
| 1. Lonicera japonica | - 10 - 1 | 20/ |
| 2. Smilax rotunditolia | <u> </u> | FIC |
| 3. | | |
| 4 | | |
| - | | Undershade |
| 5 | 20 | Hydrophytic |
| | 20 = Total Cover | Vegetation Present? Yes No No |
| 50% of total cover: |) 20% of total cover: | 1 11050111 |
| Remarks: (If observed, list morphological adaptations be | ow). | |
| Transmis. (Il opportou) not life prioregioni acceptantino ac- | W250 5 3 | |
| | | |
| | | |
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| | | |
| | | |
| | | |
| I control of the cont | | |

| epth | Matrix | o mo dopi | h needed to docu Red | ox Feature | | or commi | tile appendo o | maio at or or, |
|--|--|---------------|------------------------------|------------|--------------|------------|--------------------------|--|
| nches) | Color (moist) | % | Color (moist) | % | Type | _Loc² | Texture | Remarks |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| /w.e. C=Cc | oncentration, D=Depl | etion RM= | Reduced Matrix, M | AS=Masker | Sand Gr | ains. | ² Location: P | L=Pore Lining, M=Matrix. |
| dric Soil I | ndicators: (Applica | able to all I | LRRs, unless othe | erwise not | ed.) | | | r Problematic Hydric Solls ³ : |
| _ Histosol | | | Polyvalue B | | | RR S, T, U | | ck (A9) (LRR O) |
| | ipedon (A2) | | Thin Dark S | | | | | ck (A10) (LRR S) |
| _ Black His | 16. 1.56. 15. 15. | | Loamy Muc Loamy Gley | | | (0) | | Vertic (F18) (outside MLRA 150A,8 t Floodplain Soils (F19) (LRR P, S, T |
| | n Sulfide (A4) I Layers (A5) | | Depleted M | | (1 2) | | | us Bright Loamy Soils (F20) |
| | Bodies (A6) (LRR P, | T, U) | Redox Dark | | -6) | | (MLRA | |
| _ | cky Mineral (A7) (LF | | Depleted Da | | | | | ent Material (TF2) |
| | esence (A8) (LRR U |) | — Redox Depr Marl (F10) (| | 8) | | | allow Dark Surface (TF12) xplain in Remarks) |
| | ck (A9) (LRR P, T) Below Dark Surface | e (A11) | Nan (F10) (| | (MLRA 1 | 51) | Other (E. | xpiain in Kemarks) |
| 75.4 | rk Surface (A12) | . (, , , , | Iron-Manga | nese Mass | es (F12) (| LRR O, P, | T) ³ Indicat | ors of hydrophytic vegetation and |
| _ Coast Pr | rairie Redox (A16) (N | ILRA 150A | | | | , U) | | nd hydrology must be present, |
| | lucky Mineral (S1) (L | RR O, S) | Delta Ochrid | | | 04 4508) | | s disturbed or problematic. |
| | leyed Matrix (S4) edox (S5) | | Reduced Ve | | | | | |
| | Matrix (S6) | | | | | | A 149A, 153C, 1 | 53D) |
| | | | | 21.31.11 | 1117 00113 (| , (| | , |
| | face (S7) (LRR P, S | i, T, U) | | Diigii Lou | my 00.13 (| , (| | |
| Dark Sur | | | | | | | | |
| _ Dark Sur estrictive L Type: | face (S7) (LRR P, S ayer (if observed): | | _ | | | | | |
| Dark Sur estrictive I Type: Depth (inc | face (S7) (LRR P, S ayer (if observed): | | | | | | | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (indemarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (indemarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (indemarks: | face (S7) (LRR P, S ayer (if observed): | | _ | | | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (indemarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (indemarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (inc emarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | | | Hydric Soll P | resent? Yes No |
| Dark Surestrictive L Type: Depth (incommarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | | | Hydric Soll P | resent? Yes No |
| Dark Surestrictive L Type: Depth (incommarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | | | Hydric Soll P | resent? Yes No |
| Dark Surestrictive L Type: Depth (incommarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (inc emarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (inc emarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | on/r | | Hydric Soll P | resent? Yes No |
| Dark Sur estrictive I Type: Depth (inc emarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (inc emarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | on/r | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (inc emarks: | rface (S7) (LRR P, S Layer (If observed): ches): | | _ | | on/r | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (inc emarks: | rface (S7) (LRR P, S _ayer (If observed): ches): | | _ | | on/r | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (inc emarks: | rface (S7) (LRR P, S _ayer (If observed): ches): | | _ | | on/r | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (indemarks: | rface (S7) (LRR P, S _ayer (If observed): ches): | | _ | | on/r | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (indemarks: | rface (S7) (LRR P, S _ayer (If observed): ches): | | _ | | on/r | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (indemarks: | rface (S7) (LRR P, S _ayer (If observed): ches): | | _ | | on/r | | Hydric Soll P | resent? Yes No |
| _ Dark Sur estrictive I Type: Depth (inc emarks: | rface (S7) (LRR P, S _ayer (If observed): ches): | | _ | | on/r | | Hydric Soll P | resent? Yes No |



Upland data point wcho016_u facing southwest



Upland data point wcho016_u facing southeast

| Project/Site: ACP | City/County: Chesapeake sampling Date: 12/15/15 |
|--|--|
| Applicant/Owner: Dominion | State: V A Sampling Point; we hold 7e-4 |
| Investigator(s): L. Roper, R. Turn bull | Section, Township, Range: NDNC |
| | Local relief (concave, convex, none):none Slope (%) D-Z'/ |
| 0 0 | 77428 Long: -76.29722 Datum: WG584 |
| Soil Map Unit Name: Udorthents - Urban Tax | |
| Asserting dates and the state of the state o | |
| Are climatic / hydrologic conditions on the site typical for this time of y | |
| Are Vegetation, Soil, or Hydrology significantly | |
| Are Vegetation, Soil, or Hydrology naturally pr | roblematic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing | g sampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? | |
| Hydric Soil Present? Yes No | To the Gampies Area |
| Wetland Hydrology Present? Yes No | within a Wetland? Yes No |
| Remarks: | night and and along |
| Could not evaluate soils | onthear power plant |
| | |
| | |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | |
| Surface Water (A1) Aquatic Fauna (B1 | |
| High Water Table (A2) Marl Deposits (B1 Saturation (A3) Hydrogen Sulfide | |
| | neres along Living Roots (C3) Dry-Season Water Table (C2) |
| Sediment Deposits (B2) Presence of Redu | |
| | ction in Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface | e (C7) Geomorphic Position (D2) |
| Iron Deposits (B5) Other (Explain in F | *** |
| Inundation Visible on Aerial Imagery (B7) | A FAC-Neutral Test (D5) |
| X Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | DE NA |
| Surface Water Present? Yes No Depth (inches | , |
| Water Table Present? Yes No Depth (inches Saturation Present? Yes No Depth (inches | |
| (includes capillary fringe) |): Wetland Hydrology Present? Yes No |
| Describe Recorded Data (stream gauge, monitoring well, aerial photo | os, previous inspections), if available: |
| Remarks: | |
| portions of wetland inund | |
| | 1 Proposition on mean |
| Could not evaluate su | bourface hydrology on/near |
| 1 | |
| power plant | |
| | |
| | |
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| | |

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: wcho DI7 end

| 22[1 20[1- | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------|--------------|-----------|---|
| Tree Stratum (Plot size: 30F+x30F+ | % Cover | Species? | Status | Number of Dominant Species |
| 1. None | | | | That Are OBL, FACW, or FAC: (A) |
| 2. | | | | Total Number of Deminant |
| | | | | Total Number of Dominant Species Across All Strata:(B) |
| 3 | | | | Species Across Air Strata. |
| 4 | | | | Percent of Dominant Species That Are OBL FACW or FAC: (A/B) |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| 6 | | | | |
| 7 | | | | Prevalence Index worksheet: |
| | | | | Total % Cover of: Multiply by: |
| 8 | 0 | | | OBL species x 1 = |
| | | = Total Co | | FACW species x 2 = |
| 50% of total cover: | 20% of | total cover | | FAC species x 3 = |
| Sapling/Shrub Stratum (Plot size: 30ff x30ff) | | | | |
| 1. Salix nigra | 10 | У | OBL | FACU species x 4 = |
| - U | | | | UPL species x 5 = |
| 2. | | | | Column Totals: (A) (B) |
| 3 | | | | |
| 4 | | | | Prevalence Index = B/A = |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6. | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| [1] [1] [2] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4 | | | | |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | 17 | | | 3 - Prevalence Index is ≤3.01 |
| - | 10 | = Total Co | ver | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50% of total cover: 5 | 20% of | total cover | . d_ | |
| Herb Stratum (Plot size: 30ff x 30ff) | | | 20.0300 | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Phragmites australis | 80 | У | FACW | be present, unless disturbed or problematic. |
| 7.1 | | | | |
| 2 | | | | Definitions of Four Vegetation Strata: |
| 3 | | | | Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of |
| 5. | | | | height. |
| | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 6. | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 7 | | | | than 5 m. DBH and greater than 5.25 m (1 m) to |
| 8 | | 11 | | Herb - All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| | | | | w |
| 10 | | | | Woody vine – All woody vines greater than 3.28 ft in height. |
| 11 | | | | neight. |
| 12 | 0 - | | | 2 |
| 4.0 | 80 | = Total Co | ver | |
| 50% of total cover: 40 | 20% 0 | f total cove | r: 16 | |
| Woody Vine Stratum (Plot size: 30f4 x30ff) | | | | |
| voody viile Stratom (Plot Size. | | | | |
| 1. hone | | | | |
| 2 | | | | |
| 3. | | | | |
| 4 | | | | |
| 7. | | | | |
| 5 | 6 | | | Hydrophytic |
| | | = Total Co | | Vegetation Present? Yes No |
| 50% of total cover: | 20% o | f total cove | r: | 11030111 |
| Remarks: (If observed, list morphological adaptations bel | cw). | | | |
| Melians. (II observed, iist iii opinelogiosi adaptament | | | | |
| | | | | |
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| Depth (inches) | Matrix | | Red | ox Feature | s | | the abs | | |
|-------------------|----------------------|---------------|-------------------|-------------|-------------|------------------|---------|--------------------|-----------------------------------|
| | Color (moist) | % | Color (moist) | | Type | Loc ² | Textu | re | Remarks |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | ncentration, D=Depl | -tion DM-D | aduced Matrix M | 1S-Mackac | 1 Sand Gr | nine | 21 000 | tion: DI =Dore I | ining, M=Matrix. |
| Type: C=Co | ncentration, D=Depi | etion, RM=R | Reduced Matrix, N | IS-Masket | ad I | aii15. | | | matic Hydric Soils ³ : |
| lydric Soil li | ndicators: (Applica | able to all L | | | | | | | |
| Histosol (| (A1) | | Polyvalue B | | | | | cm Muck (A9) (L | |
| Histic Ep | ipedon (A2) | | Thin Dark S | urface (S9 | (LRR S, | T, U) | | cm Muck (A10) | |
| Black His | stic (A3) | | Loamy Muci | ky Mineral | (F1) (LRF | (0) | R | educed Vertic (F | 18) (outside MLRA 150) |
| | n Sulfide (A4) | | Loamy Gley | ed Matrix (| F2) | | P | iedmont Floodpla | ain Soils (F19) (LRR P, S |
| | Layers (A5) | | Depleted Ma | atrix (F3) | 200 | | A | nomalous Bright | Loamy Soils (F20) |
| | Bodies (A6) (LRR P, | T. U) | Redox Dark | | -6) | | | (MLRA 153B) | |
| | cky Mineral (A7) (LF | | Depleted Da | | | | | ed Parent Mater | ial (TF2) |
| | esence (A8) (LRR U | | Redox Depr | | | | | | (Surface (TF12) |
| | ck (A9) (LRR P, T) | , | Marl (F10) (| | -/ | | | ther (Explain in I | |
| | | - (014) | D-1-1-10 | | (MIDA 1 | 51) | _ | the (Explain iii) | (Cinaria) |
| | Below Dark Surface | e (ATT) | | | | | T) | 3 Indicators of hy | drophytic vegetation and |
| | rk Surface (A12) | | Iron-Manga | | | | 1) | | |
| | airie Redox (A16) (N | | | | | , u) | | | ogy must be present, |
| Sandy M | ucky Mineral (S1) (L | .RR O, S) | Delta Ochrid | | | | | unless disturbe | ed or problematic. |
| Sandy G | leyed Matrix (S4) | | Reduced Ve | | | | | | |
| Sandy R | edox (S5) | | Piedmont Fl | loodplain S | ioils (F19) | (MLRA 14 | 9A) | | |
| Stripped | Matrix (S6) | | Anomalous | Bright Loai | my Soils (| F20) (MLR | A 149A, | 153C, 153D) | |
| Dark Sur | face (S7) (LRR P, S | , T, U) | | | | | | | |
| | ayer (if observed): | | | | | | | | |
| | | | | | | | | | |
| Туре: | | | _ | | | | | | |
| | | | | | | | Unidate | Call Danasanta | Van No |
| | hes): | | | | | | Hydrlo | Soil Present? | Yes No |
| Depth (inc | | | | | | | | | Yes No |
| Depth (inc | | ١ - ا | - :14 | n/v | lnear | אמכ ז | | | Yes No |
| Depth (inc | | Juate | - 50ils | DN | /near | Pov | | | Yes No |
| Depth (inc | | lvate | soils | DN | /near | Pov | | | Yes No |
| Depth (inc | not evo | lvate | soils | DN | /near | Pov | | | Yes No |
| Depth (inc | | lvate | soils | DN | /near | Pov | | | Yes No |
| Depth (inc | | lvate | soils | DN | /near | Pov | | | Yes No |
| Depth (inc | | lvate | - soils | ON | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | DΝ | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | ΟN | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | ΟN | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | DΝ | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | DΝ | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | on | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | DW | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | DW | /near | Pov | | | Yes No |
| Depth (inc | | lvate | soils | DW | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | OW | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | OW | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | OW | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | OW | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | on | /near | - Pov | | | Yes No |
| Depth (inc | | lvate | soils | on | /near | Pov | | | Yes No |
| Depth (inc | | lvate | soils | DW | /near | Pov | | | Yes No |
| Depth (inc | | lvate | soils | DW | /near | Pov | | | Yes No |
| Depth (inc | | lvate | soils | DW | /near | Pov | | | Yes No |
| Depth (inc | | lvate | soils | OW | /near | Pov | | | Yes No |
| Depth (inc | | lvate | soils | OW | /near | Pov | | | Yes No |



Wetland data point wcho017e_w facing southeast



Wetland data point wcho017e_w facing west

| Project/Site: ACP City | //County: Chesapeake Sampling Date: 12/15/15 |
|---|--|
| Applicant/Owner: Dominion | State: VA Sampling Point: JChobl7 - 4 |
| Investigator(s): LiRoper, RiTurnbull See | rtion Township Range: MDVP |
| 1 0 1 | cal relief (concave, convex, none): NDNC Slope (%) D-Z'/ |
| Landrorm (milisiope, terrace, etc.). 4 1001 Loc | |
| | 1378 Long: -76.29823 Datum: W6584 |
| Soil Map Unit Name: Udor thents - Orban lan | |
| Are climatic I hydrologic conditions on the site typical for this time of year? | |
| Are Vegetation, Soil, or Hydrology significantly dis- | turbed? Are "Normal Circumstances" present? Yes X No |
| Are Vegetation, Soil, or Hydrology naturally proble | matic? (If needed, explain any answers in Remarks.) |
| SUMMARY OF FINDINGS - Attach site map showing sa | ampling point locations, transects, important features, etc. |
| Hydrophytic Vegetation Present? Yes NoX | |
| Hydric Soil Present? Yes No | Is the Sampled Area within a Wetland? Yes No |
| Wetland Hydrology Present? Yes No | within a Wetland? Yes No |
| Remarks: | 1 1 |
| Could not evaluate soils or | Thear power plant |
| | 1 |
| | |
| | |
| HYDROLOGY | |
| Wetland Hydrology Indicators: | Secondary Indicators (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | Surface Soil Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B13) | Sparsely Vegetated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B15) (L | |
| Saturation (A3) Hydrogen Sulfide Odor | |
| Water Marks (B1) Oxidized Rhizospheres Presence of Reduced I Presence O | s along Living Roots (C3) Dry-Season Water Table (C2) ron (C4) Crayfish Burrows (C8) |
| Drift Deposits (B3) Recent Iron Reduction | |
| Algal Mat or Crust (B4) Thin Muck Surface (C7 | |
| Iron Deposits (B5) Other (Explain in Rema | |
| Inundation Visible on Aerial Imagery (B7) | FAC-Neutral Test (D5) |
| Water-Stained Leaves (B9) | Sphagnum moss (D8) (LRR T, U) |
| Field Observations: | NA |
| Surface Water Present? Yes No Depth (inches): | 1411 |
| Water Table Present? Yes No Depth (inches): No Depth (inches): No Depth (inches): No | |
| Saturation Present? Yes No Depth (inches): (includes capillary fringe) | Wetland Hydrology Present? Yes No _^ |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, p | revious inspections), if available: |
| | |
| Remarks: | |
| Could not evaluate substrace | hydrology onlinear |
| COOLO LIDI CIRLONIC DODDOLLORGE | , |
| 2001010 2001 | |
| power plant | |
| success mater indicators present | |
| POWER Plant No surface water indicators present | |
| | |
| | |
| | |
| | : |
| | |

| 2 (1 2 (1 | Absolute | Dominant | Indicator | Dominance Test worksheet: |
|---|----------|-------------|---|---|
| Tree Stratum (Plot size: 30ff x 30ff) | % Cover | Species? | Status | Number of Dominant Species |
| 1. none | | | | That Are OBL, FACW, or FAC: (A) |
| 2. | | | | Total Number of Dominant |
| 3. | | | | Species Across All Strata: (B) |
| | | | | |
| 4 | | | | Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) |
| 5 | | | | That Are OBL, FACW, or FAC: (A/B) |
| · 6 | | | | Prevalence Index worksheet: |
| 7 | | | | Total % Cover of:Multiply by: |
| 8 | | | | |
| | 0 | = Total Co | ver | OBL species 0 x1= 0 |
| 50% of total cover: | 20% of | total cover | | FACW species |
| Sapling/Shrub Stratum (Plot size: 30f+ x 30f+) | | | | FAC species |
| 1. Pinus trada | 7. | AIA | EAL. | FACU species 90 x4= 360 |
| | | | | UPL species D x 5 = D |
| 2 | | | | Column Totals: 117 (A) 426 (B) |
| 3. | | | | |
| 4 | | | | Prevalence Index = B/A = 3.64 |
| 5 | | | | Hydrophytic Vegetation Indicators: |
| 6 | | | | 1 - Rapid Test for Hydrophytic Vegetation |
| | | | | |
| 7 | | | | 2 - Dominance Test is >50% |
| 8 | | | | 3 - Prevalence Index is ≤3.0¹ |
| | _ | = Total Co | ver | Problematic Hydrophytic Vegetation¹ (Explain) |
| 50% of total cover: | 20% of | total cove | r: 0,4 | |
| Herb Stratum (Plot size: 30ft x 30ft) | | 1 | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Phraymites australis | 5 | N | FACW | be present, unless disturbed or problematic. |
| 2. Seteria pumila | 10 | N | FAL | Definitions of Four Vegetation Strata: |
| 3. Eremounion ophiuroides | 80 | У | FAW | - 20 |
| | | N | FACH | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4. Andrigogon alomeratis | 10 | 10 | · andreason and real real real real real real real real | more in diameter at breast height (DBH), regardless of height. |
| 5. Lespedeta Morata | 10 | 10 | FACU | neight. |
| 6 | | | | Sapling/Shrub - Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8. | | | | Herb - All herbaceous (non-woody) plants, regardless |
| | | | | of size, and woody plants less than 3.28 ft tall. |
| 9 | | | | or size, and troody plants root than older |
| 10 | | | | Woody vine - All woody vines greater than 3.28 ft in |
| 11 | | | | height. |
| 12 | | | | |
| | 115 | = Total Co | ver | |
| 50% of total cover: 57 | 5 20% of | total cove | 1: 23 | |
| Woody Vine Stratum (Plot size: 30ff x30ff) | | | | |
| | | | | |
| 1. none | | | | |
| 2 | | | | |
| 3 | | | | |
| 4. | | | | 1 |
| 5. | | | | Hydrophytic |
| J | () | = Total Co | Wer | |
| | | | | Present? Yes No No |
| 50% of total cover: | 20% 6 | total cove | r | |
| Remarks: (If observed, list morphological adaptations bel | ow). | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | * |
| | | | | |

| Sampling Point: | nchol | 017 | -0 |
|-----------------|-------|-----|----|
|-----------------|-------|-----|----|

| Profile Desc | | Anine | | aday Eastur | 207 | | | |
|--------------------------------------|--|---------------------|----------------|----------------|--------------|------------------|----------------------------|---|
| Depth (inches) | Color (moi | itrix % | Color (maist | Redox Featur | Type | Loc ² | Texture | Remarks |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | W11.7 1.1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 2000 1 20 | | | | | | | |
| Type: C=C(| oncentration [| D=Depletion, RM= | Reduced Matrix | . MS=Mask | ed Sand Gr | ains. | ² Location: PL= | Pore Lining, M=Matrix. |
| lydde Soil I | ndicators: 14 | Applicable to all L | RRs. unless o | therwise n | oted.) | | Indicators for I | Problematic Hydric Soils ³ : |
| | | ppiloubio to un a | Polyvalu | | | PPSTI | | |
| _ Histosol | | | | | | | 2 cm Muck | |
| | ipedon (A2) | | Thin Dar | | | | | |
| _ Black Hi | | | | lucky Minera | | (0) | | ertic (F18) (outside MLRA 15 |
| | n Sulfide (A4) | | | Sleyed Matrix | | | | loodplain Soils (F19) (LRR P, |
| - | Layers (A5) | | | Matrix (F3) | | | | Bright Loamy Soils (F20) |
| _ | Bodies (A6) (L | | | ark Surface | | | (MLRA 1 | |
| | | (7) (LRR P, T, U) | | Dark Surfa | | | | : Material (TF2) |
| | esence (A8) (I | | | epressions | (F8) | | | w Dark Surface (TF12) |
| _ | ck (A9) (LRR | | | 0) (LRR U) | | | Other (Expl | ain in Remarks) |
| _ Depleted | Below Dark S | Surface (A11) | | Ochric (F1 | | | | |
| Thick Da | rk Surface (A | 12) | Iron-Mar | iganese Ma | sses (F12) (| LRR O, P, | | s of hydrophytic vegetation an |
| Coast Pr | rairie Redox (A | (16) (MLRA 150A |) Umbric S | Surface (F13 |) (LRR P, T | , U) | wetland | hydrology must be present, |
| Sandy M | lucky Mineral | (S1) (LRR O, S) | Delta Oc | thric (F17) (N | ALRA 151) | | unless | listurbed or problematic. |
| Sandy G | leyed Matrix (| S4) | Reduced | Vertic (F18 |) (MLRA 15 | OA, 150B) | | |
| Sandy R | edox (S5) | | Piedmor | t Floodplain | Soils (F19) | (MLRA 14 | 9A) | |
| Stripped | Matrix (S6) | | Anomalo | us Bright Lo | amy Soils (| F20) (MLR | A 149A, 153C, 153 | ID) |
| | | R P, S, T, U) | 2-34 | | | | | |
| | | | | | | | | |
| | | rved): | | | | | | |
| Restrictive I | ayer (if obse | rved): | | | | | | |
| Restrictive I | ayer (if obse | rved): | | | | | Hudda Sall Bra | neut? Voc. No. |
| Restrictive I | ayer (if obse | rved): | _ | | | | Hydric Soli Pre | sent? Yes No |
| Type: Depth (inc Remarks: | Layer (if obse | | _ | | | | | sent? Yes No |
| Type: Depth (inc | Layer (if obse | | - Soils | as /v | 1000 | OOK)e | | sent? Yes No |
| Type: Depth (inc Remarks: | Layer (if obse | evaluate | soils | on/v | lear | Powe | | sent? Yes No |
| Type: Depth (inc Remarks: | Layer (if obse | | soils | on/v | lear | Powe | | sent? Yes No |
| Type: Depth (inc Remarks: | Layer (if obse | | soils | on/v | lear | powe | | sent? Yes No |
| Type: Depth (inclemanks: | Layer (if obse | | soils | on/v | lear | powe | | sent? Yes No |
| Type: Depth (inclemanks: | Layer (if obse | | soils | on/v | lear | powe | | sent? Yes No |
| Type: Depth (inc | Layer (if obse | | soils | on/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inc | Layer (if obse | | soils | on/v | lear | powe | r plant | sent? Yes No |
| estrictive I Type: Depth (incomerks: | Layer (if obse | | soils | on/v | lear | powe | r plant | sent? Yes No |
| estrictive I Type: Depth (incomerks: | Layer (if obse | | soils | on/v | lear | Powe | r plant | sent? Yes No |
| estrictive I Type: Depth (incomerks: | Layer (if obse | | soils | on/v | lear | powe | r plant | sent? Yes No |
| estrictive I Type: Depth (incomerks: | Layer (if obse | | soils | on/v | lear | Powe | r plant | sent? Yes No |
| Type: Depth (inc | Layer (if obse | | soils | on/v | lear | powe | r plant | sent? Yes No |
| estrictive I Type: Depth (incomerks: | Layer (if obse | | soi(s | on/v | lear | Powe | r plant | sent? Yes No |
| Type: Depth (inc | Layer (if obse | | soi(s | on/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inc | Layer (if obse | | soi(s | en/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inc | Layer (if obse | | soi(s | en/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inclemanks: | Layer (if obse | | soi(s | on/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inclemanks: | Layer (if obse | | soi(s | on/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inc | Layer (if obse | | soi(s | on/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inclemanks: | Layer (if obse | | soi(s | on/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inc | Layer (if obse | | soils | on/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inc Remarks: | Layer (if obse | | soils | on/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inc Remarks: | Layer (if obse | | soils | on/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inc Remarks: | Layer (if obse | | soils | on/v | lear | powe | r plant | sent? Yes No |
| Type: Depth (inc | Layer (if obse | | soils | on/v | lear | powe | r plant | sent? Yes No |



Upland data point wcho017_u facing southwest



Upland data point wcho017_u facing northwest

| Project/Site: Atlantic Coast Pipeline | City/County: City of Chesape | eake | Sampling Date: 8/24/2015 |
|--|---------------------------------|-------------------------------|-------------------------------|
| Project/Site: Atlantic Coast Pipeline Applicant/Owner: Dominion | | State: VA | Sampling Point: wcha001f_w |
| Investigator(s): GB, AS | | | |
| Landform (hillslope, terrace, etc.): flat | | | |
| Subregion (LRR or MLRA): T Lat: 36.773 | 338945 Long: | -76.28124446 | Datum: WGS 1984 |
| Soil Map Unit Name: Dragston-Tomotley complex, 0 to 2 percent slop | es | NWI classifica | ation: PFO1B |
| Are climatic / hydrologic conditions on the site typical for this time of ye | | | |
| Are Vegetation, Soil, or Hydrology significantly | | | |
| Are Vegetation, Soil, or Hydrology naturally pr | | | |
| SUMMARY OF FINDINGS – Attach site map showing | | | |
| | | ,, | |
| Hydrophytic Vegetation Present? Yes V No | | l. | |
| Hydric Soil Present? Yes V No No | within a Wetland? | Yes | No |
| Wetland Hydrology Present? Yes No | | | |
| Wetland data point for a seasonally saturated PFO wetland located o in an industrial area with development on three sides, likely receives a | | | , |
| HYDROLOGY | | | |
| Wetland Hydrology Indicators: | | Secondary Indicat | ors (minimum of two required) |
| Primary Indicators (minimum of one is required; check all that apply) | | Surface Soil C | Cracks (B6) |
| Surface Water (A1) Aquatic Fauna (B1 | 3) | Sparsely Veg | etated Concave Surface (B8) |
| High Water Table (A2) Marl Deposits (B1 | 5) (LRR U) | Drainage Patt | terns (B10) |
| Saturation (A3) Hydrogen Sulfide | | Moss Trim Lir | |
| | neres along Living Roots (C3) | | Vater Table (C2) |
| Sediment Deposits (B2) Presence of Redu | , , | Crayfish Burro | |
| | ction in Tilled Soils (C6) | | sible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) Thin Muck Surface Iron Deposits (B5) Other (Explain in F | | Geomorphic F | |
| Iron Deposits (B5) ✓ Other (Explain in F Inundation Visible on Aerial Imagery (B7) | Remarks) | Shallow Aquit ✓ FAC-Neutral 3 | |
| ✓ Water-Stained Leaves (B9) | | | oss (D8) (LRR T, U) |
| Field Observations: | | Opinagriam in | 000 (D0) (EIIII 1, 0) |
| Surface Water Present? Yes No Depth (inches | 3). | | |
| Water Table Present? Yes No Depth (inches | | | |
| Saturation Present? Yes No Depth (inches | | Hydrology Present | i? Yes ✓ No |
| (includes capillary fringe) | , | | 100 |
| Describe Recorded Data (stream gauge, monitoring well, aerial phot | os, previous inspections), if a | /ailable: | |
| | | | |
| Remarks: | | | |
| other = buttressed trunks on canopy trees; water stained leaves only depressional areas | in depressional areas, water | narks are faint and o | inly evident on trunks in |
| asprosos is a sac | | | |
| | | | |
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| | | | |

| Tree Stratum (Plot size: 30) % Cover (Special Cover) Special Cover (Specia | Yes FAC Yes FAC Yes FAC No FACW No FAC No FAC | Number of Dominant Species |
|---|---|--|
| 1. Liquidambar styraciflua 30 Y 2. Acer rubrum 10 Y 3. Quercus pagoda 8 N 4. Quercus phellos 8 N 5. Pinus taeda 8 N 6. Nyssa sylvatica 2 N 7 | Yes FAC Yes FAC Yes FAC No FACW No FAC Yes FAC Yes FAC No FAC | That Are OBL, FACW, or FAC: |
| 2. | No | Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 83.33333333 (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 0 x 1 = 0 FACW species 20 x 2 = 40 FAC species 107 x 3 = 321 FACU species 26 x 4 = 104 UPL species 0 x 5 = 0 Column Totals: 153 (A) 465 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: |
| 3. Quercus pagoda 8 N | No | Species Across All Strata: |
| 4. Quercus phellos 5. Pinus taeda 6. Nyssa sylvatica 7. 8. | No | Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: |
| 5. Pinus taeda 8 1 6. Nyssa sylvatica 2 1 7. 8. | No | Percent of Dominant Species That Are OBL, FACW, or FAC: 1 |
| 6. Nyssa sylvatica 2 N 7. | See | Prevalence Index worksheet: Total % Cover of: |
| 7. | al Cover | Total % Cover of: OBL species FACW species FAC species FACU species FACU species FACU species FACU species O FACU species FACU species O FACU speci |
| 8. | res FAC No FACU No FACU | Total % Cover of: OBL species FACW species FAC species FACU species FACU species FACU species FACU species O FACU species FACU species O FACU speci |
| Sapling/Shrub Stratum (Plot size: 15 15) | res FAC No FACU No FACU | OBL species 0 x 1 = 0 FACW species 20 x 2 = 40 FAC species 107 x 3 = 321 FACU species 26 x 4 = 104 UPL species 0 x 5 = 0 Column Totals: 153 (A) 465 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: |
| Sapling/Shrub Stratum (Plot size: 15) | res FAC No FACU No FACU | FACW species 20 |
| Sapling/Shrub Stratum Plot size: 15 20 Y 1. Acer rubrum 20 Y 2. Liquidambar styraciflua 5 N 3. Quercus phellos 2 N 4. Quercus nigra 2 N 5. Morus alba 2 N 6. Quercus michauxii 2 N 7. Nyssa sylvatica 1 N 8. 34 = Tot 50% of total cover: 17 20% of total | Cover: FAC No FAC No FACW No FAC No FACU No FACW | FACW species |
| 1. Acer rubrum 20 Y 2. Liquidambar styraciflua 5 N 3. Quercus phellos 2 N 4. Quercus nigra 2 N 5. Morus alba 2 N 6. Quercus michauxii 2 N 7. Nyssa sylvatica 1 N 8. 34 = Tot 50% of total cover: 17 20% of total | No | FACU species 26 x 4 = 104 UPL species 0 x 5 = 0 Column Totals: 153 (A) 465 Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: |
| 2. Liquidambar styraciflua 5 N 3. Quercus phellos 2 N 4. Quercus nigra 2 N 5. Morus alba 2 N 6. Quercus michauxii 2 N 7. Nyssa sylvatica 1 N 8. 34 = Tot 50% of total cover: 17 20% of total | No | UPL species 0 x 5 = 0 Column Totals: 153 (A) 465 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: |
| 3. Quercus phellos 2 N 4. Quercus nigra 2 N 5. Morus alba 2 N 6. Quercus michauxii 2 N 7. Nyssa sylvatica 1 N 8. 34 = Tot 50% of total cover: 17 20% of total | NO FACW NO FACU NO FACW | Column Totals: 153 (A) 465 (B) Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: |
| 4. Quercus nigra 2 N 5. Morus alba 2 N 6. Quercus michauxii 2 N 7. Nyssa sylvatica 1 N 8. 34 = Tot 50% of total cover: 17 20% of total | No FACU No FACW | Prevalence Index = B/A = 3.03 Hydrophytic Vegetation Indicators: |
| 5. Morus alba 2 N 6. Quercus michauxii 2 N 7. Nyssa sylvatica 1 N 8. 34 = Tot 50% of total cover: 17 20% of total | No FACU | Hydrophytic Vegetation Indicators: |
| 6. Quercus michauxii 7. Nyssa sylvatica 8. 34 = Tot 50% of total cover: 17 20% of total | No FACW | Hydrophytic Vegetation Indicators: |
| 6. Quercus michauxii 7. Nyssa sylvatica 2. N 8. 34 = Tot 50% of total cover: 17 20% of total | | |
| 8 | No FAC | 1 - Rapid Lest for Hydrophytic Vegetation |
| 8 | | |
| 50% of total cover:17 20% of total | | - 2 - Dominance Test is >50% |
| 50% of total cover: 20% of total | -1.0 | 3 - Prevalence Index is ≤3.0¹ |
| | 0.0 | Problematic Hydrophytic Vegetation ¹ (Explain) |
| | cover: | - |
| Herb Stratum (Plot size: 5 | F40 | ¹ Indicators of hydric soil and wetland hydrology must |
| 1. Microstegium vimineum 8 Y | es FAC | be present, unless disturbed or problematic. |
| 2 | | Definitions of Four Vegetation Strata: |
| 3 | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | more in diameter at breast height (DBH), regardless of |
| 5 | | height. |
| 6. | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7 | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| | | - ` . ` ` |
| 8 | | Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. |
| · · · · · · · · · · · · · · · · · · · | | _ Of size, and woody plants less than 5.20 it tall. |
| 10 | | Woody vine – All woody vines greater than 3.28 ft in |
| 11 | | height. |
| 12 | | - |
| | al Cover | |
| 50% of total cover:4 20% of total | cover: 1.6 | _ |
| Woody Vine Stratum (Plot size:) | | |
| - 1: | es FACU | _ |
| 2. Smilax rotundifolia 15 Y | es FAC | _ |
| 3. Campsis radicans 6 N | No FAC | _ |
| 4. Hedera helix 4 | lo FACU | |
| 5. | · · | - Hudranbudia |
| | al Cover | - Hydrophytic Vegetation |
| 50% of total cover:22.5 20% of total | 0 | Present? Yes No |
| Remarks: (If observed, list morphological adaptations below). | | - |

SOIL Sampling Point: wcha001f_w

| Depth | Matrix | | | Features | | | | | |
|--|--|---------------------------------------|--|---|--|---|---|---|--|
| inches) | Color (moist) | <u>%</u> | Color (moist) | <u>%</u> | Type ¹ | Loc ² | Texture | Remarks | |
| 0-3 | 10YR3/1 | 100 | | | | | SCL | | |
| 3-16 | 10YR5/1 | 80 | | | | | SCL | | |
| | 10YR5/1 | 20 | | | | | SCL | | |
| | | | | | | | | | |
| ydric Soil Histoso Histic E Black H Hydrogo Stratifie Organic 5 cm M | Concentration, D=Depl Indicators: (Application (A1) Ipipedon (A2) Idistic (A3) en Sulfide (A4) Id Layers (A5) E Bodies (A6) (LRR P, ucky Mineral (A7) (LR resence (A8) (LRR U) | tble to all LF T, U) R P, T, U) | | wise note ow Surface face (S9) Mineral (d Matrix (F3) Surface (F6) K Surface | d.) se (S8) (L (LRR S, | RR S, T, U) T, U) | Indicators 1 cm M 2 cm M Reduce Piedme Anoma (MLF Red Pa | PL=Pore Lining, M=Matifor Problematic Hydric Muck (A9) (LRR O) Muck (A10) (LRR S) ed Vertic (F18) (outside ont Floodplain Soils (F19 alous Bright Loamy Soils (RA 153B) arent Material (TF2) shallow Dark Surface (TF | Soils ³ : MLRA 150A,I) (LRR P, S, T (F20) |
| | uck (A9) (LRR P, T) | ' | Marl (F10) (Li | | • • | | - | (Explain in Remarks) | , |
| Thick D Coast F Sandy I Sandy (Sandy I Stripped Dark St | ed Below Dark Surface Park Surface (A12) Prairie Redox (A16) (M Mucky Mineral (S1) (L Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR P, S | ILRA 150A) RR O, S) | Depleted Och Iron-Mangane Umbric Surfac Delta Ochric (Reduced Vert Piedmont Floc Anomalous Br | ese Masse ce (F13) (I F17) (ML ic (F18) (I odplain Sc | es (F12) (I LRR P, T, RA 151) MLRA 15 Dils (F19) | LRR O, P, T U) DA, 150B) (MLRA 149 | weti unle | eators of hydrophytic vege land hydrology must be p ess disturbed or problem , 153D) | oresent, |
| estrictive | Layer (if observed): | | | | | | | | |
| Type: | | | <u>—</u> | | | | | | |
| Depth (in | nches): | | <u> </u> | | | | Hydric Soil | Present? Yes | No |
| emarks: | | | | | | | | | |
| mal conta | | | | | | | | | |
| | | | | | | | | | |



Photo 1
Wetland data point WCHA001f_w facing northeast



Photo 2
Wetland data point WCHA001f_w facing south

| Project/Site: Atlantic Coast Pipeline | | City/Count | y: City of Chesapea | ke | Sampling Date: 8/24/2015 |
|---|----------------------------|---------------------------|-------------------------|-------------------|--|
| Applicant/Owner: Dominion | | | , | State: VA | Sampling Date: 8/24/2015 Sampling Point: wcha001_u |
| | | Section T | ownship Range. No | PLSS in this are | a |
| Landform (hillslope, terrace, etc.): flat | | | | | |
| | | | | | Datum: WGS 1984 |
| Soil Map Unit Name: Dragston-Tomos | tley complex, 0 to 2 perce | ent slopes | Long | | |
| Are climatic / hydrologic conditions on | | | | | · |
| | * * | - | | | |
| Are Vegetation, Soil, c | | | | | |
| Are Vegetation, Soil, c | r Hydrology natu | urally problematic? | (If needed, e | explain any answe | ers in Remarks.) |
| SUMMARY OF FINDINGS – | Attach site map sh | owing sampli | ng point locatio | ns, transects | s, important features, etc. |
| Hydrophytic Vegetation Present? | Yes No _ | v | | | |
| Hydric Soil Present? | Yes No _ | | he Sampled Area | ., | • |
| Wetland Hydrology Present? | Yes No _ | | hin a Wetland? | res | No |
| Remarks: | | <u> </u> | | | |
| Upland data point for a seasonally sa | turated PFO wetland. | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| HYDROLOGY | | | | | |
| Wetland Hydrology Indicators: | | | | | ators (minimum of two required) |
| Primary Indicators (minimum of one | • | | | Surface Soil | |
| Surface Water (A1) | Aquatic Fa | | | | getated Concave Surface (B8) |
| High Water Table (A2) | | sits (B15) (LRR U) | | Drainage Pa | |
| Saturation (A3) | | Sulfide Odor (C1) | Linia - Danta (OO) | Moss Trim L | |
| Water Marks (B1) | | hizospheres along | - | - | Water Table (C2) |
| Sediment Deposits (B2) | | of Reduced Iron (C | | Crayfish Bur | |
| Drift Deposits (B3) | | n Reduction in Tille | a Solis (C6) | | risible on Aerial Imagery (C9) |
| Algal Mat or Crust (B4) | Thin Muck | | | | Position (D2) |
| Iron Deposits (B5) | | lain in Remarks) | | Shallow Aqu | |
| Inundation Visible on Aerial Ima Water-Stained Leaves (B9) | gery (br) | | | FAC-Neutra | |
| Field Observations: | | | 1 | Spilagilulii i | moss (D8) (LRR T, U) |
| | No 🗸 Depth | (inches): | | | |
| | No Depth | | | | |
| 1 | | , , | | | |
| Saturation Present? Yes (includes capillary fringe) | No 🗸 Depth | (inches): | Wetland H | lydrology Presei | nt? Yes No |
| Describe Recorded Data (stream ga | uge, monitoring well, aer | ial photos, previou | s inspections), if avai | ilable: | |
| | | | | | |
| Remarks: | | | | | ļ. |
| no hydrology indicators present | | | | | |
| | | | | | |
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| 20 | | Dominant | | Dominance Test worksheet: |
|---|--------|--------------|---------------|---|
| <u>Tree Stratum</u> (Plot size:) | | Species? | | Number of Dominant Species |
| 1. Liquidambar styraciflua | 45 | Yes | FAC | That Are OBL, FACW, or FAC: 4 (A) |
| 2. Acer rubrum | 6 | No | FAC | Total Number of Dominant |
| 3. Albizia julibrissin | 6 | No | | Species Across All Strata: 9 (B) |
| 4. Diospyros virginiana | 3 | No | FAC | Daniel of Daniel and One size |
| 5. Prunus serotina | 3 | No | FACU | Percent of Dominant Species That Are OBL, FACW, or FAC: 44.444444444444444444444444444444444 |
| 6 | | | | . , |
| 7 | | | | Prevalence Index worksheet: |
| 8 | | | | Total % Cover of: Multiply by: |
| | | = Total Cov | er | OBL species x 1 = 0 |
| 50% of total cover: 31.5 | 20% of | total cover: | 12.6 | FACW species x z = |
| Sapling/Shrub Stratum (Plot size:) | | | | FAC species x 3 = |
| 1. Morus alba | 8 | Yes | FACU | FACU species x 4 = |
| 2. Albizia julibrissin | 7 | Yes | | UPL species $0 \times 5 = 0$ |
| 3. Liquidambar styraciflua | 3 | Yes | FAC | Column Totals:154 |
| 4. Diospyros virginiana | 3 | Yes | FAC | Prevalence Index = R/A = 3.32 |
| 5. Prunus serotina | 3 | Yes | FACU | Trevalence index Birt |
| 6. Ligustrum sinense | 2 | No | FAC | Hydrophytic Vegetation Indicators: |
| Quercus michauxii | 2 | No | FACW | 1 - Rapid Test for Hydrophytic Vegetation |
| Quercus phellos | | No | FACW | 2 - Dominance Test is >50% |
| 8. Quereus prienes | | | | 3 - Prevalence Index is ≤3.0 ¹ |
| 50% of total cover: 16 | | = Total Cov | C 4 | Problematic Hydrophytic Vegetation ¹ (Explain) |
| 50 % Of total cover | 20% of | total cover: | | |
| Herb Stratum (Plot size:5 | | | | ¹ Indicators of hydric soil and wetland hydrology must |
| 1 | | | | be present, unless disturbed or problematic. |
| 2 | | | | Definitions of Four Vegetation Strata: |
| 3 | | | | Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or |
| 4 | | | | more in diameter at breast height (DBH), regardless of |
| 5 | | | | height. |
| 6 | | | | Sapling/Shrub – Woody plants, excluding vines, less |
| 7 | | | | than 3 in. DBH and greater than 3.28 ft (1 m) tall. |
| 8 | | | | Herb – All herbaceous (non-woody) plants, regardless |
| 9 | | | | of size, and woody plants less than 3.28 ft tall. |
| 10 | | | | Weeds sine All woods since greater than 2.29 ft in |
| 11. | | | | Woody vine – All woody vines greater than 3.28 ft in height. |
| 12. | | | | |
| | 0 | = Total Cov | er | |
| 50% of total cover: | | total cover: | • | |
| Woody Vine Stratum (Plot size: 30) | | 10101 00101 | · | |
| 1 Lonicera japonica | 25 | Yes | FACU | |
| 2. Campsis radicans | 18 | Yes | FAC | |
| 3 Parthenocissus quinquefolia | 15 | Yes | FACU | |
| Toxicodendron radicans | 10 | No | FAC | |
| 5. Smilax rotundifolia | 4 | No | FAC | |
| 5. Strillax Toturiuliolla | | | | Hydrophytic |
| 26 | | = Total Cov | | Vegetation Present? Yes No |
| 50% of total cover: <u>36</u> | 20% of | total cover: | 14.4 | 103 <u></u> 103 |
| Remarks: (If observed, list morphological adaptations below | w). | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

SOIL Sampling Point: wcha001_u

| Depth Matrix Redox Features | |
|--|-------------------------|
| (inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0-4 10YR3/2 100 SCL | |
| 4-11 10YR4/1 50 SCL | |
| 10YR5/1 46 SCL | |
| 10YR5/6 2 SCL CM | |
| 11-15 10YR4/1 98 SCL | |
| 10YR5/4 2 SCL CM | |
| | |
| ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils 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 MLR Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LR Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) | A 150A,B) R P, S, T) |
| 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) Marl (F10) (LRR U) Marl (F10) (LRR U) Other (Explain in Remarks) | |
| Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Delta Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be preserved with the problematic. Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be preserved unless disturbed or problematic. Meduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) | |
| Restrictive Layer (if observed): | |
| Type: | _ |
| Depth (inches): Hydric Soil Present? Yes No | · |
| Soil pits were not dug due to contaminated soils. Soil texture difficult to determine due to gloves to prevent dermal contamination. | |



Photo 1 Upland data point WCHA001_u facing north



Photo 2
Upland data point WCHA001_u facing west