

Land Use Application

| Project Information | | | |
|---|--|--------------------------------|---|
| Project Title:Walgraeves Industrial Park | | | |
| Brief Description: Annexation of a portion of property that | will have access | via SW Myslony Street. | |
| Property Information | The Park of the | The second second | |
| Address:11345 SW Herman Road, Tuala | tin OR | | |
| Assessor's Map Number and Tax Lots: 2S122D | | | |
| Applicant/Primary Contact | a de la cale de la cal | 100 | |
| Name: Beth Zauner | | Company Name: AAI Engine | eering |
| Address:4875 SW Griffith Dr. #300 | | | |
| City: Beaverton | | State: Oregon | zip: 97005 |
| Phone: 503-620-3030 | | Email: bethz@aaieng.con | n |
| Property Owner | | 14 18 18 18 | - 1 10 10 10 10 10 10 10 10 10 10 10 10 1 |
| Name: GARY A. WALLRAEVE | . Rick. | 4 Walgraev. | 0 |
| Address: 11345 S.W. HERMAN RO. | Brang | 4 Waight | |
| City: TO MATIN | | State: 6 R. | ZIP: 97062 |
| Phone: 503-692-6766 | Email: farmer boys e comcast. NET | | |
| Property Owner's Signature: | <u></u> | | |
| Cary A. walnesse | Redu | 4 Wolgsauer | Date: Sept 1'21 |
| (Note: Letter of authorization is required if not sign | ned by owner | - Wymuer | |
| AS THE PERSON RESPONSIBLE FOR THIS APPLIC INFORMATION IN AND INCLUDED WITH THIS A COUNTY ORDINANCES AND STATE LAWS REGA | PPLICATION IN ITS EN | ITIRETY IS CORRECT. I AGREE TO | |
| Applicant's Signature: | | | Date: |
| and Use Application Type: | | | |
| Annexation (ANN) | ☐ Historic Landma | ark (HIST) | ☐ Minor Architectural Review (MAR) |
| Architectural Review (AR) | ☐ Industrial Maste | er Plan (IMP) | ☐ Minor Variance (MVAR) |
| ☐ Architectural Review—Single Family (ARSF) | ☐ Plan Map Amendment (PMA) ☐ Sign Variance (SVAR) | | ☐ Sign Variance (SVAR) |
| ☐ Architectural Review—ADU (ARADU) | ☐ Plan Text Amendment (PTA) ☐ Variance (VAR) | | ☐ Variance (VAR) |
| ☐ Conditional Use (CUP) | ☐ Tree Removal/R | Review (TCP) | |
| Office Use | | | |
| Case No: | Date Received: | | Received by: |
| Fee: | V 5 | Receipt No: | |

Walgraeves submittal materials for AR

| GENERAL: |
|--|
| ☐ Land Use Application form |
| Narrative addressing all applicable approval criteria and |
| standards |
| Title Report |
| ☑ Hydraulic Modeling Worksheet |
| Service Provider Letter from Clean Water Services |
| ☐ Service Provider Letter/Agreement from Republic Services |
| PLANS: |
| Existing Conditions |
| ☑ Site Plan |
| Tree Preservation Plan |
| □ Grading Plan |
| Utility Plan |
| Zandscape Plan |
| Cighting Plan |
| Color Elevations |
| □ Materials Board |
| PUBLIC NOTICE: |
| Documentation for Neighborhood Developer Meeting |
| Certification of Sign Posting |
| |
| TYPICAL REPORTS: |
| ☐ Tree Assessment Report |
| ☐ Transportation Impact Study |
| ☑-Stormwater Management Report |
| |



25 NW 23rd Place Suite 1 / Commercial Dept Portland, OR 97210 Phone (503) 219-9088 Fax (503) 477-6476

WFG National Title Insurance Company Attn: Trevor Cheyne 25 NW 23rd Place Suite 1 / Commercial Dept Portland, OR 97210

Date Prepared: June 12, 2020

PRELIMINARY TITLE REPORT

Order Number: **20-207334**Escrow Officer: Trevor Cheyne
Phone: (503) 444-7047
Fax: (503) 296-5869

Email: tcheyne@wfgnationaltitle.com

Seller(s): Gary Walgraeve and Ricky Walgraeve Buyer(s): Phelan Development Company, LLC

Property: 11345 SW Herman Road, Tualatin, OR 97062

WFG National Title Insurance Company, is prepared to issue a title insurance policy, as of the effective date and in the form and amount shown on Schedule A, subject to the conditions, stipulations and exclusions from coverage appearing in the policy form and subject to the exceptions shown on Schedule B. This Report (and any Amendments) is preliminary to and issued solely for the purpose of facilitating the issuance of a policy of title insurance at the time the real estate transaction in question is closed and no liability is assumed in the Report. The Report shall become null and void unless a policy is issued and the full premium paid.

This report is for the exclusive use of the person to whom it is addressed. Title insurance is conditioned on recordation of satisfactory instruments that establish the interests of the parties to be insured; until such recordation, the Company may cancel or revise this report for any reason.

SCHEDULE A

1. The effective date of this preliminary title report is 8:00 A.M. on 9th day of June, 2020

2. The policies and endorsements to be insured and the related charges are:

Policy/Endorsement Description

Liability

Charge

ALTA 2006 Owners Policy

\$9,016,920.00

\$14,126.00

Basic Owner's Rate

\$14,126.00

Proposed Insured: Phelan Development Company, LLC

Government Service Fee:

\$25.00

This is a preliminary billing only, a consolidated statement of charges, credits and advances, if any, in connection with this order will be provided at closing.

3. Title to the land described herein is vested in:

Ricky Walgraeve and Gary Walgraeve, as tenants in common

4. The estate or interest in land is:

Fee Simple

5. The land referred to in this report is described as follows:

SEE ATTACHED EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF

EXHIBIT "A" LEGAL DESCRIPTION

A tract of land being a portion of that certain tract of land described in Deed to Gary Walgraeve and Ricky Walgraeve recorded November 12, 1993, as Fee No. 930943118, Washington County Deed Records, in the Southeast 1/4 of Section 22, Township 2 South, Range 1 West of the Willamette Meridian, County of Washington and State of Oregon, being more particularly described as follows:

Commencing at a 3-1/4" aluminum disk marking the South 1/4 corner of said Section 22; thence along the South line of said Southeast 1/4 of Section 22, North 89°37'22" East 69.55 feet to the Southwest corner of said Walgraeve tract: thence along the West line thereof, North 00°27'50" West 970.99 feet to the True Point of Beginning of the herein described tract of land; thence continuing along said West line, North 00°27'50" West 1220.09 feet to the Southeasterly right of way line of the Southern Pacific Railroad (60.00 feet wide); thence along said right of way line North 67°04'40" East 1179.33 feet to the North line of said Southeast 1/4 of Section 22; thence leaving said right of way line and along said North line North 89°40'09" East 167.37 feet; thence South 00°20'09" East 444.41 feet to the North line of Tract B, Partition Plat No. 2003-082, a duly recorded plat in said County; thence along said North line North 88°39'51" West 5.00 feet to the Northwest corner of said Tract B, also being the Northwest corner of that certain tract of land described in Deed to Swanpor Corporation recorded September 24, 1986, as Fee No. 86043361, said Deed Records; thence along the West line of said Swanpor tract South 00°20'09" East 1227.71 feet; thence leaving said West line South 89°37'22" West 1248.52 feet to the True Point of Beginning.

ALSO a tract of land being a portion of that certain tract of land described in Deed to Gary Walgraeve and Ricky Walgraeve, as tenants in common, recorded July 28, 2006 as Instrument No. 2006-090121, Washington County Records, situated in the Southeast quarter of Section 22, Township 2 South, Range 1 West of the Willamette Meridian, County of Washington, State of Oregon, being more particularly described as follows:

Commencing at a 3-1/4" aluminum disk marking the South quarter corner of said Section 22; thence along the South line of said Southeast quarter of Section 22, North 89°37'22" East 69.55 feet to the Southwest corner of said Walgraeve tract; thence along the West line thereof North 00°27'50" West 507.64 feet to the True Point of Beginning of the herein described tract of land; thence continuing along said West line North 00°27'50" West 463.34 feet; thence leaving said West line North 89°37'22" East 1248.52 feet to the West line of Parcel 1, Partition Plat 2003-082, a duly recorded Plat in Washington County; thence along said West line South 00°20'09" East 430.00 feet to the North line of that certain tract of land conveyed to Pascuzzi Investment LLC by Quitclaim Deed recorded June 2, 1995 as Instrument No. 95-037906, said Deed Records; thence along said North line South 89°37'22" West 495.00 feet to the Northwest corner of said Pascuzzi tract of land; thence North 00°22'38" West 30.00 feet to the beginning of a 2553.81 foot radius non-tangent curve to the left, a radial line bears North 00°22'38" West to said point; thence along the arc of said curve 438.46 feet through a central angle of 9°50'14" (the long chord bears South 84°42'15" West 437.93 feet); thence along a radial line North 10°12'52" West 7.00 feet to the beginning of a 2560.81 foot radius curve to the left, said curve being concentric with the aforementioned curve; thence along the arc of said curve 37.74 feet through a central angle of 0°50'40" (the long chord bears South 79°21°49" West 37.74 feet) to the beginning of a 1497.92 foot radius reverse curve to the right; thence along the arc of said curve 272.61 feet through a central angle of 10°25°38" (the long chord bears South 84°09'18" West 272.23 feet); thence South 89°22'07" West 6.87 feet to the true point of beginning. The bearings contained in this description are based on Survey No. 30526, Washington County Survey Records.

EXCEPTING THEREFROM a tract of land located in the Southeast One-Quarter of Section 22, Township 2 South, Range 1 West, Willamette Meridian, City of Tualatin, Washington County, Oregon and being more particularly described as follows: Beginning at the southwest corner of Parcel 1 of Partition Plat Number 2003-082, being a 3 inch brass disk inscribed "DE HAAS AND ASSOC. INC.", thence along the west line of said Parcel 1 North 00°20'09" West 395.59 feet to a 5/8 inch iron rod with a yellow plastic cap inscribed "DE HAAS & ASSOC. INC."; thence South 89°37'22" West 5.00 feet to the True Point of Beginning, being a 5/8 inch iron rod with a yellow plastic cap inscribed "DE HAAS & ASSOC. INC."; thence South 89°37'22" West 495.00 feet to a 5/8 inch iron rod with a yellow plastic cap inscribed "RYAN LS 58833"; thence North 00°22'38" West 140.00 feet to a point; thence North 89°37'22" East 495.10 feet to a point on the west line of said Parcel I; thence along said west line South 00°20'09" East 140.00 feet to the True Point of Beginning. The Basis of Bearings is per Washington County Survey Number 30837.

SCHEDULE B

GENERAL EXCEPTIONS

- 1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records; proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
- 2. Facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of the land or by making inquiry of persons in possession thereof.
- 3. Easements, or claims of easement, not shown by the public records; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
- 4. Any encroachment (of existing improvements located on the subject land onto adjoining land or of existing improvements located on adjoining land onto the subject land), encumbrance, violation, variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the subject land.
- 5. Any lien, or right to a lien, for services, labor, material, equipment rental or workers compensation heretofore or hereafter furnished, imposed by law and not shown by the public records.

SPECIAL EXCEPTIONS

- 6. As disclosed by the tax roll the premises herein described have been zoned or classified for farm use. At any time that said land is disqualified for such use, the property may be subject to additional taxes or penalties and interest.
- 7. Unpaid Taxes for 2019 -2020:

Levied Amount : \$66.94

Balance Owing : \$66.94, plus interest

Property ID No. : <u>R2159788</u> Levy Code : <u>023.76</u>

Map Tax Lot No. : 2S122D000550

8. Unpaid Taxes for 2019 -2020:

Levied Amount : \$2.028.91

Balance Owing : \$2,028.91, plus interest

Property ID No. : <u>R530624</u> Levy Code : <u>023.78</u>

Map Tax Lot No. : 2S122D000550

- 9. City liens, if any, of the City of Tualatin. We find none as of June 12, 2020.
- Rights of governmental bodies in and to any portion of the premises lying within an unnamed creek or tributary of <u>Hedges Creek</u>, for flood control and protection of anadromous fish and for wetlands protection.
- 11. Ordinance No. 685-86 of the City of Tualatin, including the terms and provisions thereof:

Regarding : Local Improvement District for sewer system improvements

Recorded : January 27, 1986

Recording No. : 86003933

12. Ordinance No. 684-86 of the City of Tualatin, including the terms and provisions thereof:

Regarding : Local Improvement District for water system improvements

Recorded : January 27, 1986

Recording No. : <u>86003934</u>

13. Easement, including the terms and provisions thereof:

For : Sanitary sewer line
Granted to : City of Tualatin
Recorded : May 12, 1987
Recording No. : 87024140

Affects : see Public Survey 31560 for location

14. Easement, including the terms and provisions thereof:

For : Storm water line to benefit property <u>south of Myslony Street</u>
Granted to : Pacific N.W. Properties Limited Partnership, and <u>assigns</u>

Recorded : December 24, 2007

Recording No. : <u>2007-130682</u>

Affects : Location to be determined

15. State Tax Warrant:

In favor of : State of Oregon Department of Revenue

 Against
 : Rick A Walgraeve

 Warrant No.
 : L0748665344

 Recorded
 : August 19, 2016

 Recording No.
 : 2016-066433

 Amount
 : \$7,907.84

16. State Tax Warrant:

In favor of : State of Oregon Department of Revenue

 Against
 : Rick A Walgraeve

 Warrant No.
 : L0115917568

 Recorded
 : April 7, 2017

 Recording No.
 : 2017-028179

 Amount
 : \$2,721.65

and

Notice of Renewal of Distraint Warrant:

Recorded : April 27, 2017 Recording No. : 2017-033784

- 17. This Commitment is subject to approval by personnel of WFG National Title Insurance Company and any additional limitations, requirements or exceptions made by WFG National Title Insurance Company.
- 18. The legal description herein covers more property than is intended for the transaction. We require that a surveyor's legal description for the intended parcel be provided prior to closing.

END OF EXCEPTIONS

NOTE: Please be advised that we have searched the records and do not find any open Deeds of Trust or Mortgages. If you should have knowledge of an outstanding obligation, please contact the Title Department for further review.

NOTE: In no event shall WFG National Title Insurance Company have any liability for the tax assessor's imposition of any additional assessments for omitted taxes unless such taxes have been added to the tax roll and constitute liens on the property as of the date of closing. Otherwise, such omitted taxes shall be the sole, joint and several responsibility of seller(s) and buyer(s), as they may determine between themselves.

NOTE: LINKS FOR ADDITIONAL SUPPORTING DOCUMENTS:

Vesting Deed 93094118

Vesting Deed 2006-090121 PLA

Vesting Deed 2007-117930 PLA

Vesting Deed 2010-102922 PLA

PS 30526 - 2006 PLA survey

PS 30320 - 2000 PLA Survey

PS 30837 - 2007 PLA survey

PS 31560 - 2010 PLA survey

PS 33560 - 2019 Myslony Street & 118th Ave survey

Partition Plat 2012-002 south of Myslony St

Partition Plat 2003-082 - adjacent east

Plat Map 3-11 Tualatin Valley Acres - adjacent west

86043361 deed to Swanpor- legal description reference

2010-102923 deed to Pascuzzi - legal description reference

map - WCO - Hedges Creek Greenway

map - NWN gas lines

map - WCO zoning

Photos - GoogleEarth-rTM

NOTE: Due to current conflicts or potential conflicts between state and federal law, which conflicts may extend to local law, regarding marijuana, if the transaction to be insured involves property which is currently used or is to be used in connection with a marijuana enterprise, including but not limited to the cultivation, storage, distribution, transport, manufacture, or sale of marijuana and/or products containing marijuana, the Company declines to close or insure the transaction, and this Preliminary Title Report shall automatically be considered null and void and of no force and effect.

NOTE: The following applicable recording fees will be charged by the county:

Washington County-First Page \$81.00
Each Additional Page \$5.00
Non-standard Document Fee \$20.00
E-recording Fee \$3.00

Washington County Ordinance No. 193, recorded May 13, 1977 in Washington County, Oregon imposes a tax of \$1.00 per \$1,000.00 or fraction thereof on the transfer of real property located within Washington County.

NOTE: IMPORTANT INFORMATION REGARDING PROPERTY TAX PAYMENTS

Fiscal Year: July 1st through June 30th

Taxes become a lien on real property, but are not yet payable.

Taxes become certified and payable (approximately on this date)

First one third payment of taxes are due

Second one third payment of taxes are due

Final payment of taxes are due

July 1st

October 15th

November 15th

February 15th

May 15th

Discounts: If two thirds are paid by November 15th, a 2% discount will apply.

If the full amount of the taxes are paid by November 15th, a 3% discount will apply.

Interest: Interest accrues as of the 15th of each month based on any amount that is unpaid by the due date.

No interest is charged if the minimum amount is paid according to the above mentioned payment

schedule.

NOTE: THE FOLLOWING NOTICE IS REQUIRED BY STATE LAW: YOU WILL BE REVIEWING, APPROVING AND SIGNING IMPORTANT DOCUMENTS AT CLOSING. LEGAL CONSEQUENCES FOLLOW FROM THE SELECTION AND USE OF THESE DOCUMENTS. YOU MAY CONSULT AN ATTORNEY ABOUT THESE DOCUMENTS. YOU SHOULD CONSULT AN ATTORNEY IF YOU HAVE QUESTIONS OR CONCERNS ABOUT THE TRANSACTION OR ABOUT THESE DOCUMENTS. IF YOU WISH TO REVIEW TRANSACTION DOCUMENTS THAT YOU HAVE NOT SEEN, CONTACT THE ESCROW AGENT.

End of Report

Your Escrow Officer

Trevor Cheyne WFG National Title Insurance Company 25 NW 23rd Place Suite 1 / Commercial Dept Portland, OR 97210

Phone: (503) 444-7047 Fax: (503) 296-5869

Email: TeamTrevor@wfgnationaltitle.com

Your Title Officer

Rosa Stombaugh
WFG National Title Insurance Company
12909 SW 68th Pkwy., Suite 350
Portland, OR 97223

Phone: (503) 431-8526 Fax: (503) 684-2978

Email: rstombaugh@wfgnationaltitle.com



WFG National Title Insurance Company is prepared to issue, as of the date specified in the attached Preliminary Title Report (the Report), a policy or policies of title insurance as listed in the Report and describing the land and the estate or interest set forth, insuring against loss which may be sustained by reason of any defect, lien or encumbrance not shown or referred to as a General or Specific Exception or not excluded from coverage pursuant to the printed Exclusions and Conditions of the policy form(s).

The printed General Exceptions and Exclusions from the coverage of the policy or policies are listed in Exhibit One to the Report. In addition, the forms of the policy or policies to be issued may contain certain contract clauses, including an arbitration clause, which could affect the party's rights. Copies of the policy forms should be read. They are available from the office which issued the Report.

The Report (and any amendments) is preliminary to and issued solely for the purpose of facilitating the issuance of a policy of title insurance at the time the real estate transaction in question is closed and no liability is assumed in the Report.

The policy(s) of title insurance to be issued will be policy(s) of WFG National Title Insurance Company.

Please read the Specific Exceptions shown in the Report and the General Exceptions and Exclusions listed in Exhibit One carefully. The list of Specific and General Exceptions and Exclusions are meant to provide you with notice of matters which are not covered under the terms of the title insurance policy to be issued and should be read and carefully considered.

It is important to note that the Report is not an abstract of title, a written representation as to the complete condition of the title of the property in question, and may not list all liens, defects and encumbrances affecting title to the land.

The Report is for the exclusive use of the parties to this transaction, and the Company does not have any liability to any third parties or any liability under the terms of the policy(s) to be issued until the full premium is paid. Until all necessary documents are recorded in the public record, the Company reserves the right to amend the Report.

Countersigned

Page 8 of 9

Exhibit One 2006 American Land Title Association Loan Policy 6-17-06 EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

- 1. (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
 - (i) the occupancy, use, or enjoyment of the Land;
 - (ii) the character, dimensions, or location of any improvement erected on the Land;
 - (iii) the subdivision of land; or
 - (iv) environmental protection;
 - or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
 - (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
- 2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
- . Defects, liens, encumbrances, adverse claims, or other matters
 - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
 - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
 - (c) resulting in no loss or damage to the Insured Claimant:
 - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 11, 13, or 14); or
 - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Insured Mortgage
- 4. Unenforceability of the lien of the Insured Mortgage because of the inability or failure of an Insured to comply with applicable doing-business laws of the state where the Land is situated.
- 5. Invalidity or unenforceability in whole or in part of the lien of the Insured Mortgage that arises out of the transaction evidenced by the Insured Mortgage and is based upon usury or any consumer credit protection or truth-in-lending law.
- 6. Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction creating the lien of the Insured Mortgage, is
 - (a) a fraudulent conveyance or fraudulent transfer, or
 - (b) a preferential transfer for any reason not stated in Covered Risk 13(b) of this policy.
- 7. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the Insured Mortgage in the Public Records. This Exclusion does not modify or limit the coverage provided under Covered Risk 11(b).

THE ABOVE POLICY FORM MAY BE ISSUED TO AFFORD EITHER Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following Exceptions from Coverage:

SCHEDULE B - GENERAL EXCEPTIONS FROM COVERAGE

- 1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records; proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
- 2. Facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of the land or by making inquiry of persons in possession thereof.
- 3. Easements, or claims of easement, not shown by the public records; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
- 4. Any encroachment (of existing improvements located on the subject land onto adjoining land or of existing improvements located on adjoining land onto the subject land), encumbrance, violation, variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the subject land.
- 5. Any lien, or right to a lien, for services, labor, material, equipment rental or workers compensation heretofore or hereafter furnished, imposed by law and not shown by the public records.

2006 AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY 6-17-06 EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy, and the Company will not pay loss or damage, costs, attorneys' fees, or expenses that arise by reason of:

- . (a) Any law, ordinance, permit, or governmental regulation (including those relating to building and zoning) restricting, regulating, prohibiting, or relating to
 - $\hbox{(i)} \qquad \hbox{the occupancy, use, or enjoyment of the Land;} \\$
 - (ii) the character, dimensions, or location of any improvement erected on the Land;
 - (iii) the subdivision of land: or
 - (iv) environmental protection;
 - or the effect of any violation of these laws, ordinances, or governmental regulations. This Exclusion 1(a) does not modify or limit the coverage provided under Covered Risk 5.
- (b) Any governmental police power. This Exclusion 1(b) does not modify or limit the coverage provided under Covered Risk 6.
- 2. Rights of eminent domain. This Exclusion does not modify or limit the coverage provided under Covered Risk 7 or 8.
- 3. Defects, liens, encumbrances, adverse claims, or other matters
 - (a) created, suffered, assumed, or agreed to by the Insured Claimant;
 - (b) not Known to the Company, not recorded in the Public Records at Date of Policy, but Known to the Insured Claimant and not disclosed in writing to the Company by the Insured Claimant prior to the date the Insured Claimant became an Insured under this policy;
 - (c) resulting in no loss or damage to the Insured Claimant;
 - (d) attaching or created subsequent to Date of Policy (however, this does not modify or limit the coverage provided under Covered Risk 9 and 10; or
 - (e) resulting in loss or damage that would not have been sustained if the Insured Claimant had paid value for the Title.
- Any claim, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that the transaction vesting the Title as shown in Schedule A, is
 - (a) a fraudulent conveyance or fraudulent transfer; or
 - (b) a preferential transfer for any reason not stated in Covered Risk 9 of this policy.
- 5. Any lien on the Title for real estate taxes or assessments imposed by governmental authority and created or attaching between Date of Policy and the date of recording of the deed or other instrument of transfer in the Public Records that vests Title as shown in Schedule A.

SCHEDULE B - GENERAL EXCEPTIONS FROM COVERAGE

- 1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records; proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
- 2, Facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of the land or by making inquiry of persons in possession thereof.
- 3. Easements, or claims of easement, not shown by the public records; reservations or exceptions in patents or in Acts authorizing the issuance thereof; water rights, claims or title to water.
- 4. Any encroachment (of existing improvements located on the subject land onto adjoining land or of existing improvements located on adjoining land onto the subject land), encumbrance, violation, variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the subject land.

Any lien, or right to a lien, for services, labor, material, equipment rental or workers compensation heretofore or hereafter furnished, imposed by law and not shown by the public records.



Plain English Privacy Statement for Appraisal, Title & Escrow Customers

WFG believes it is important to protect your privacy and confidences. We recognize and respect the privacy expectations of our customers. We believe that making you aware of how we collect information about you, how we use that information, and who we share that information will form the basis for a relationship of trust between us. This Privacy Policy provides that explanation. We reserve the right to change this Privacy Policy from time to time.

Williston Financial Group, LLC, WFG National Title Insurance Co. and each of the affiliates listed below (collectively "WFG" or the "WFG Family") are obligated to comply with Federal and state privacy laws. While there are some common requirements to those laws, the definitions and duties differ significantly from law-to-law and state-to-state. A privacy statement drafted to comply with all of the applicable privacy laws and their differing definitions would likely be confusing. Therefore, in an attempt to better communicate our privacy policies, WFG designed this "Plain English" explanation, followed by the Gramm-Leach-Bliley Act model form and State-Specific Privacy Notices in order to provide you with the complete, legal privacy notices and disclosures required under Federal and applicable State Laws.

WFG's primary business is providing appraisal, title insurance and, escrow services for the sale or refinance of real property. This can be a complicated process, involving multiple parties, many of whom have been selected by our customers, each filling a specialized role. In part, you have hired WFG to coordinate and smooth the passage of the information necessary for an efficient settlement or closing.

In the course of this process, WFG collects a significant amount of personal and identifying information about the parties to a transaction, including sensitive items that include but are not limited to: your contact information including email addresses, Social Security numbers, driver's license and, other identification numbers and information; financial, bank and insurance information; information about past and proposed mortgages and loans; about properties you currently or previously owned; your mortgage application package; and the cookie, IP address, and other information captured automatically by computer systems.

Much of this information is gathered from searches of public land records, tax, court and credit records to make certain that any liens, challenges, or title defects are addressed properly. Some of the information that is collected is provided by you, or the computer systems you use. We also may receive information from real estate brokers and agents, mortgage brokers and, others working to facilitate your transaction. We also may receive information from public, private or governmental databases including credit bureaus, 'no-fly' lists, and terrorist 'watch lists', as well as from your lenders and credit bureaus.

What Information is Shared?

WFG DOES NOT SELL any of your information to non-affiliated companies for marketing or any other purpose.

However, some of the same information <u>does get shared</u> with persons inside and outside the WFG Family in order to facilitate and complete your transaction.

For example:

- Information, draft documents, and closing costs will pass back and forth between WFG and your mortgage broker and lender to facilitate your transaction.
- Information, including purchase agreements and amendments, will pass back and forth between WFG and
 the real estate agents and brokers, the mortgage brokers and lenders, your lawyers and accountants, and
 others involved in facilitating the transaction.
- WFG may order property searches and examinations from title searchers, abstractors and title plants.
- WFG may use third parties to obtain tax information, lien information, payoff information, condominium and, homeowners' association information and payoff information.
- Third parties may be engaged to prepare documents in connection with your transaction.
- Surveys, appraisals and, inspections may be ordered.
- Within the WFG Family of companies, we may divide up the work to handle each closing in the most
 efficient and compliant manner possible and to meet specific legal and licensing requirements. Certain
 parts of your closing (for example a search or disbursement) may be handled by another division or
 company within the WFG family.

- When it is time for signatures, your complete closing package may be sent to a notary, remote online notary, or notary service company who will arrange to meet with you to sign documents. The notary will, in turn, send signed copies back to us along with copies of your driver's license or other identity documents usually by mail, UPS, Federal Express or another courier service.
- Your deed, mortgage and other documents required to perfect title will be recorded with the local recorder of deeds.
- In some cases, we use an outside service to coordinate the recording or electronic-recording of those instruments, and they will receive copies of your deeds, mortgages and other recordable documents to process, scan and send on to the recording office.
- Various government agencies get involved. The law requires us to provide certain information to the IRS, the US Treasury, local and state tax authorities and other governmental agencies.

You have a choice in the selection of a mortgage broker, lender, real estate broker or agent and others that make up your 'transaction team.' Information flows to and from the members of the transaction team you have selected to facilitate an efficient transaction for you.

When WFG selects and engages a third-party provider, we limit the scope of the information shared with that third party to the information reasonably necessary for that service provider to provide the requested services. With most, we have entered into express agreements in which they expressly commit to maintain a WFG customer's information in strict confidence and use the information only for purposes of providing the requested services, clearing title, preventing fraud and addressing claims under our title insurance policies.

How does WFG use your Information?

We may use your personal information in a variety of ways, including but not limited to:

- Provide the products, services and title insurance you have requested and to close and facilitate your transaction.
- Coordinate and manage the appraisal process.
- Handle a claim or provide other services relating to your title insurance policies.
- · Create and manage your account.
- Operate and improve WFG's applications and websites, including WFG MyHome WFG's secure communication and transaction portal. Your information is used for access management, payment processing, site administration, internal operations, troubleshooting, data analysis, testing, research, and for statistical purposes.
- Respond to your requests, feedback, or inquiries.
- Comply with laws, regulations, and other legal requirements.
- Comply with relevant industry standards and our policies, including managing WFG's risk profile through reinsurance.
- Protect and enforce your rights and the rights of other users against unlawful activity, including identity theft and fraud.
- Protect and enforce our collective rights arising under any agreements entered into between WFG and you
 or any other third party;
- Protect the integrity and maintain security of our applications, websites, and products;
- Operate, evaluate, and improve our business; and
- Provide you with information about products, services, and promotions, from WFG or third parties that may interest you.

How Do We Store and Protect Your Personal Information?

Although no system can guarantee the complete security of your personal information, we will use our best efforts to maintain commercially reasonable technical, organizational, and physical safeguards, consistent with applicable law, to protect your personal information and our systems and sites from malicious intrusions or hacking.

How Long Do We Keep Your Personal Information?

We keep your personal information for as long as necessary to comply with the purpose for which it was collected, our business needs, and our legal and regulatory obligations. We may store some personal information indefinitely. If we dispose of your personal information, we will do so in a way that is secure and appropriate to the nature of the information subject to disposal.

Computer Information

When you access a WFG website, or communicate with us by e-mail, we may automatically collect and store more information than you are expressly providing when you fill out a survey or send an email. This may include:

- Your IP Address.
- Your email address, your alias and, social media handles.
- (Internet Protocol Address) and domain name.
- The type of browser and operating system you use.
- The time of your visit.
- The pages of our site you visit.
- Cookies.

In order to provide you with customized service, we make use of Web browser cookies. Cookies are files that help us identify your computer and personalize your online experience. You may disable cookies on your computer, but you may not be able to download online documents or access certain sites unless cookies are enabled.

The technical information we collect is used for administrative and technical purposes and to prevent fraud and provide identity verification. For instance, we may use it to count the number of visitors to our site and determine the most popular pages. We may also use it to review types of technology you are using, determine which link brought you to our Web site, assess how our advertisements on other sites are working, help with maintenance, and improve our customers' experience.

We may compare information gathered on previous visits to verify that we are interacting with the same parties and not a potential imposter.

If we ask you to fill out any forms or surveys, we will use the information we receive only for the specific purposes indicated in those forms or surveys.

The information you and your transaction team send us in emails or attached to an email, or provide through any of our online tools, is used for purposes of providing title, escrow and appraisal management services and used for the purposes described above.

Links to Third Party Sites

Our Applications and Websites may contain links to third-party websites and services. Please note that these links are provided for your convenience and information, and the websites and services may operate independently from us and have their own privacy policies or notices, which we strongly suggest you review. This Privacy Notice applies to WFG's applications and websites only.

Do Not Track

Because there is not an industry-standard process or defined criteria to permit a user to opt-out of tracking their online activities (Do Not Track or DNT), our websites do not currently change the way they operate based upon detection of a "Do Not Track" or similar signal. Likewise, we cannot assure that third parties are not able to collect information about your online activities on WFG websites or applications.

Social Media Integration

Our applications, websites, and products contain links to and from social media platforms. You may choose to connect to us through a social media platform, such as Facebook, Twitter, Google, etc. When you do, we may collect additional information from or about you, such as your screen names, profile picture, contact information, contact list, and the profile pictures of your contacts, through the social media platform. The social media platforms may also collect information from you.

When you click on a social plug-in, such as Facebook's "Like" button, Twitter's "tweet" button or the Google+, that particular social network's plugin will be activated and your browser will directly connect to that provider's servers. Your action in clicking on the social plug-in causes information to be passed to the social media platform.

We do not have control over the collection, use and sharing practices of social media platforms. We, therefore, encourage you to review their usage and disclosure policies and practices, including their data security practices, before using social media platforms.

How Can You "Opt-Out?"

We do not sell your information; therefore there is no need to opt-out of such reselling. Under various laws, you can opt-out of the sharing of your information for more narrow purposes. For additional detail, consult the Links under the "Legal" Notices attached below.

The "Legal" Notices

To comply with various federal and state laws, we are required to provide more complete legal notices and disclosures. In reviewing these, you will find that these notices incorporate the definitions and terminology used in the respective privacy laws which can often be somewhat convoluted and may even seem inconsistent with the descriptions above. The state-specific statutes may also give residents of those states additional rights and remedies.

How to Contact Us

If you have any questions about WFG's privacy policy or how we protect your information, please contact WFG:

· By email: Consumerprivacy@willistonfinancial.com

• By telephone: 833-451-5718

By fax: 503-974-9596

By mail: 12909 SW 68th Pkwy, Suite 350, Portland, OR 97223

In-person: 12909 SW 68th Pkwy, Suite 350, Portland, OR 97223

WFG FAMILY

WILLISTON FINANCIAL GROUP LLC
WFG NATIONAL TITLE INSURANCE COMPANY
WFG LENDER SERVICES, LLC
WFGLS TITLE AGENCY OF UTAH, LLC
WFG NATIONAL TITLE COMPANY OF WASHINGTON, LLC
WFG NATIONAL TITLE COMPANY OF CALIFORNIA
WFG NATIONAL TITLE COMPANY OF TEXAS, LLC D/B/A WFG NATIONAL TITLE COMPANY
UNIVERSAL TITLE PARTNERS, LLC
VALUTRUST SOLUTIONS, LLC
WILLISTON ENTERPRISE SOLUTIONS & TECHNOLOGY, LLC
WFG NATIONAL TITLE COMPANY OF CLARK COUNTY, WA, LLC D/B/A WFG NATIONAL TITLE

Page 4 of 11

Rev. 12/2019

| | Rev. 12/2019 | | | |
|--------------------|--|--|--|--|
| FACTS | WHAT DOES WILLISTON FINANCIAL GROUP DO | | | |
| | WITH YOUR PERSONAL INFORMATION? | | | |
| Why? | Financial companies choose how they share your personal information. Federal law gives consumers the right to limit some but not all sharing. Federal law also requires us to tell you how we collect, share, and protect your personal information. Please read this notice carefully to understand what we do. | | | |
| What? | The types of personal information we collect and share depend on the product or service you have with us. This information can include: | | | |
| | Social Security number and other government identification information | | | |
| | Your name, address, phone, and email | | | |
| | Information about the property, any liens and restrictions | | | |
| | Financial Information including credit history and other debt | | | |
| | Financial account information, including wire transfer instructions. | | | |
| How? | All financial companies need to share customers' personal information to run their everyday business. | | | |
| | In the section below, we list the reasons financial companies can share their customers' personal | | | |
| | information; the reasons Williston Financial Group chooses to share; and whether you can limit this | | | |
| | sharing. | | | |
| Reasons we can sha | re your personal information Does Williston Financial Group Can you limit this | | | |

| Reasons we can share your personal information | Does Williston Financial Group share? | Can you limit this sharing? |
|---|---------------------------------------|-----------------------------|
| For our everyday business purposes— | Yes | No |
| such as to process your transactions, maintain your | | |
| account(s), respond to court orders and legal | | |
| investigations, or report to credit bureaus | | |
| For our marketing purposes— | Yes | No |
| to offer our products and services to you | | |
| For joint marketing with other financial companies | No | We don't share |
| For our affiliates' everyday business purposes— | Yes | No |
| information about your transactions and experiences | | |
| For our affiliates' everyday business purposes— | No | We don't share |
| information about your creditworthiness | | |
| For our affiliates to market to you | No | We don't share |
| For nonaffiliates to market to you | No | We don't share |

| 1 of Horianniates to market to you | | 110 | vvc don t share |
|------------------------------------|---|---|-----------------|
| To limit our sharing | | ur menu will prompt you through your cho it.ly/WFGsConsumerPrivacyInformationRe listonfinancial.com | |
| | Please note: | | |
| | 1 - | can begin sharing your information [30] da our customer, we continue to share your | - |
| | However, you can contact us at any time to limit our sharing. | | |
| Questions? | Call 833-451-5718 or Email cor | nsumerprivacy@willistonfinancial.com | |

| Mail-In Form | | | |
|--|---|---|--|
| If you have a joint policy, your choices will apply to everyone on your account. | Mark any/all you want to limit: [] Do not share information about my creditworthiness with your affiliates for their everyday business purposes. [] Do not allow your affiliates to use my personal information to market to me. [] Do not share my personal information with nonaffiliates to market their products and services to me. | | |
| | Name Address City, State, Zip File Number | me Mail to: dress Williston Financial Group PRIVACY DEPT 12909 SW 68th Pkwy, #350 Portland, OR 97223 Portland, OR 97223 | |

Page 2

| Page 2 | | | |
|--|--|--|--|
| Who we are | | | |
| Who is providing this notice | Williston Financial Group, LLC and its affiliates and subsidiaries as listed below: | | |
| What we do | | | |
| How does Williston Financial Group protect my personal information? | To protect your personal information from unauthorized access and use, we use security measures that comply with federal law. These measures include computer safeguards and secured files and buildings. We limit access to your information to employees that need to use the information to process or protect transaction. We take industry standard (IPSEC) measures to protect against malicious intrusions or hacking | | |
| How does Williston Financial Group collect my personal information? | We collect your personal information, for example, when you Apply for insurance Engage us to provide appraisal, title and escrow services Give us your contact information Provide your mortgage information Show your driver's license We also collect your personal information from others, such as real estate agents and brokers, mortgage brokers, lenders, credit bureaus, affiliates, and others | | |
| Why can't I limit all sharing? | Federal law gives you the right to limit only sharing for affiliates' everyday business purposes—information about your creditworthiness affiliates from using your information to market to you sharing for nonaffiliates to market to you State laws and individual companies may give you additional rights to limit sharing. See below for more on your rights under state law. | | |
| What happens when I limit sharing for an account I hold jointly with someone else? | Your choices will apply to everyone on your policy. | | |
| Definitions | | | |
| Affiliates | Companies related by common ownership or control. They can be financial and nonfinancial companies. | | |
| | Our affiliates include companies with a common corporate identity, including those listed below. | | |
| Nonaffiliates | Companies not related by common ownership or control. They can be financial and nonfinancial companies. | | |
| | Nonaffilliates we share with can include real estate agents and brokers, mortgage brokers, lenders, appraisers, abstractors and title searchers and others as appropriate to facilitate your transaction. | | |
| Joint marketing | A formal agreement between nonaffiliated financial companies that together market financial products or services to you. | | |
| | Williston Financial Group does not jointly market. | | |
| Other important information | | | |

Other important information

As a resident or citizen of certain states, we may have to provide additional state-specific privacy notices and you may have rights other than as set forth above. The privacy notices below will provide state-specific information:

PRIVACY NOTICE FOR CALIFORNIA RESIDENTS

This PRIVACY NOTICE FOR CALIFORNIA RESIDENTS supplements the information contained in the Privacy Statement of WFG NATIONAL TITLE INSURANCE COMPANY and its parent, subsidiaries and affiliates (collectively, "WFG" "we," "us," or "our") and applies solely to customers, parties to real estate transactions, visitors, users, and others who reside in the State of California ("consumer" or "you"). We have adopted this notice to comply with the California Consumer Privacy Act of 2018 ("CCPA") and other California privacy laws. Any terms defined in the CCPA have the same meaning when used in this notice.

Your Rights as a California Consumer

Under California Law, you have the right to request that WFG disclose what personal information we collect, use, disclose, and sell. You have the right to opt-out of a sale of your personal information, and you may request the deletion of your personal information. You will not receive discriminatory treatment by WFG if you exercise any of your privacy rights under CCPA.

You may also designate an authorized agent to make a request under the CCPA on your behalf.

These are not absolute rights, they are subject to exceptions and limitations which we are happy to discuss as they may apply to your particular circumstances and the services you have engaged WFG to supply.

If you would like to exercise any of these rights or to designate an authorized agent, you may start the process by:

- Emailing us at consumerprivacy@willistonfinancial.com
- Going to http://bit.ly/WFGsConsumerPrivacyInformationRequestPage
- Calling us at: 833-451-5718; or
- Going into any WFG office and making the request in person.

In exercising any of these rights, we must make absolutely certain we are dealing with you or your authorized agent. So depending on how you submit your request, we will be asking you to confirm your identity, which may include providing additional documentation or information to verify it is really you, and we may send a notary or other person to meet with you in person or require you to come into a WFG office to verify your identity. Some of the identification process may be handled through an online portal and may include knowledge-based identification questions.

Information We Collect

WFG's primary business is providing appraisal, title and escrow services for the sale or refinance of real estate. This can be a complicated and legalistic process. In part, you have hired WFG to centralize and smooth the passage of all the information necessary for your real estate transaction and to have us coordinate a smooth and efficient closing. In the course of providing those services to you, we collect a significant amount of personal information.

We do not knowingly collect, maintain or use personal information from children under the age of 18 and no part of our Services are directed or targeted to children. If you become aware that a child under the age of 18 has provided WFG with personal information in violation of this Privacy Policy, please alert us at Consumerprivacy@willistonfinancial.com.

The CCPA requires us to list the statutory categories of consumers' personal information that we have collected about any consumers in the preceding 12 months. Much of this information is gathered from our searches of the land, tax, court and credit records to make certain that any liens, challenges, or title defects are addressed properly. Some of it is provided by you, or your computer systems. Some come from real estate agents and brokers, mortgage brokers and others working to facilitate your transaction, and some are provided by your lenders and credit bureaus. Here's how it breaks down:

| Category and Examples | From where do we get this Information? | Purpose Collected | 3 rd Parties with whom shared |
|--|---|--|---|
| Identifiers. Such as your name, spouse's name, maiden names, family member's names, aliases, postal address, unique personal identifier, online identifiers, Internet Protocol address, email address, account name, Social Security number, driver's license number, passport number, or other similar identifiers Personal information categories listed | phone Real estate agents and brokers involved in the transaction Mortgage brokers, lenders and credit bureaus Surveyors, appraisers, abstractors, title plants, title searchers Lien searchers and clearance companies You your family and agents | Each Category of information will be used in various combinations for the following purposes: To provide the services and products requested, including title and settlement services, evaluating the state of title of a property and identifying the liens and encumbrances affecting that property, to close | See Below "Disclosure of Personal Information for a Business Purpose" |
| in Cal. Civ. Code § 1798.80(e) such as your name, signature, Social Security number, physical characteristics or description, address, telephone number, passport number, driver's license or state identification card number, insurance policy number, education, employment, employment history, bank account number, credit card number, debit card number, or any other financial information | Your computer, tablet and cell phone Real estate agents and brokers involved in the transaction Mortgage brokers, lenders and credit bureaus Surveyors, appraisers, abstractors, title plants, title searchers Lien searchers and clearance companies | loans, to record your deeds, mortgages and other instruments affecting title, make filings with government agencies, clearing title defects, to provide customer support to you and others involved in your transaction. To prevent fraud in transactions, to find, prevent and respond to | "Disclosure of Personal Information for a Business Purpose" |
| Protected classification characteristics under California or federal law including your age, race, color, marital status, sex, physical disability, and veteran or military status as such information appears in driver license and other identity documents and in loan application materials. | You, your family and agents Real estate agents and brokers involved in the transaction Mortgage brokers, lenders and credit bureaus | online and offline security issues, and for purposes of Identity verification For Government and regulatory compliance and reporting, to comply with relevant industry standards and best practices and WFG | See Below "Disclosure of Personal Information for a Business Purpose" |
| Commercial information mostly in the form of real property records, mortgage records and lien records. | You, your family and agents Your computer, tablet and cell phone Real estate agents and brokers involved in the transaction Mortgage brokers, lenders and credit bureaus Surveyors, appraisers, abstractors, title plants, title searchers Lien searchers and clearance companies | policies. To maintain and supplement title plants, databases of prior policies, subdivision master | See Below "Disclosure of Personal Information for a Business Purpose" |
| Biometric information as contained in drivers licenses and identity documents; captured on security cameras in our offices; and as | You, your family and agents Notaries and others handling | resources and improve our websites and apps and present their contents to you; while maintaining the | See Below "Disclosure of Personal Information for a |

| required for notarization and a | closing and signing functions | Т | integrity and coourity of our | Rusiness |
|---|---|-------------------|--|---|
| required for notarization and e- notarization in some states. | closing and signing functions | | integrity and security of our applications, websites and | Business Purpose" |
| notarization in come diatec. | Your computer, tablet and cell | | products. | i dipoco |
| | phone | • | To provide you with email, | |
| Internet or other similar network | You, your family and agents | 1 | text and video alerts, event registrations and other | See Below |
| activity such as information on how | | | notices concerning our | "Disclosure of |
| you interact with and use our | Your computer, tablet and cell | | products or services, or | Personal |
| websites, applications, emails, texts | phone | | events or news, that may | Information for a |
| and other electronic resources | | | • | Business |
| | | • | To carry out our obligations and enforce our rights | · |
| | You, your family and agents | | arising from the contracts | See Below |
| of the location of your property and when and where someone may be meeting you for signatures, etc. | Real estate agents and brokers involved in the transaction | | entered into between you and us, and with others, | "Disclosure of Personal Information for a |
| Theoding you lot olgitatures, ote. | Mortgage brokers, lenders and credit bureaus | | including for billing and collections and handling of claims under a title policy. | |
| | Surveyors, appraisers, abstractors, title plants, title searchers | • | For testing, research, analysis and product development. | |
| | Lien searchers and clearance | | As necessary or | |
| | companies | | appropriate to protect the | |
| | Notaries and those handling closing | | rights, property or safety of us, insureds, our | |
| | and signing | | customers, and others. | |
| | Your computer, tablet and cell | • | To respond to law | |
| | phone | | enforcement, regulatory, | |
| Audio, electronic, visual, thermal, | You, your family and agents | $\left\{ \right.$ | and lender requests and as required by applicable | See Below |
| olfactory, or similar information. | Trou, your family and agents | | law, court order, or | "Disclosure of |
| ondetery, or ominar information. | Your computer, tablet and cell | | governmental regulations. | Personal |
| Should you choose to interact with us | phone | • | As described to you when | Information for a |
| by phone, video link or come into our offices your voice or images may be | | | INTORMATION OF AC OTHERWICE | Business |
| recorded | | | set forth in the CCPA and | Purpose" |
| Professional or employment-related | You, your family and agents | 1 | the Gramm-Leach-Bliley | See Below |
| information. | | | Act. To evaluate or conduct a | "Disclosure of |
| | Mortgage brokers, lenders and | | merger, divestiture, | Personal |
| Current or past job history is often a part of loan applications and | credit bureaus | | restructuring, | Information for a |
| statements of information. | | | reorganization, dissolution, or other sale or transfer of | Business |
| | | | some or all of our assets, | |
| · | You, your family and agents | | whether as a going | See Below |
| information. | Your computer, tablet and cell phone | | concern or as part of bankruptcy, liquidation, or similar proceeding, in | "Disclosure of Personal Information for a |
| | Real estate agents and brokers involved in the transaction | | which personal information held by us is among the | |
| | Mortgage brokers, lenders and credit bureaus | | assets transferred. | |
| | Surveyors, appraisers, abstractors, title plants, title searchers | | | |
| | Lien searchers and clearance companies | | | |
| t | • | _ | | |

Disclosure of Personal Information for a Business Purpose

WFG DOES NOT SELL your information for monetary or other valuable consideration for marketing or any other purpose.

However, some of your information <u>does get shared</u>, and within the last 12 months has been shared with persons outside of the WFG family of companies in order to better facilitate and complete your transactions and for other business and commercial purposes.

For example:

- WFG may order property searches and examinations from title searchers, abstractors and title plants.
- WFG may use third parties to obtain tax information, lien information, mortgage payoff information, condominium, and homeowners' association information and payoff information.
- WFG may engage third parties to prepare documents in connection with your transaction.
- WFG may order surveys, appraisals, and inspections and/or communicate with those service providers.

Those services can't be ordered without providing basic information about the property involved, the parties, and/or the liens to those service providers.

- Within the WFG family of companies, we divide up the work to handle each closing most efficiently and to
 meet specific legal and licensing requirements. So certain parts of your closing (for example a search or
 disbursement) may be handled by another division or company within the WFG family.
- When it is time for signatures, your complete closing package may be sent to a mobile notary, remote
 online notary, or notary service company who will arrange to meet with you to sign documents. The notary
 will, in turn, send signed copies back to us along with copies of your driver's license or other identity
 documents usually by mail, UPS, Federal Express or other courier service and sometimes by email or
 another electronic transmission.
- Your deed, mortgage and other documents required to perfect or clarify title will be recorded with the local recorder of deeds.
- We may use an outside service to coordinate the recording or e-recording of those instruments, and they
 will receive copies of deeds, mortgages and other recordable documents to process, scan and send on to
 the recording office.
- Information and draft documents will pass back and forth between WFG and the lenders and mortgage brokers to facilitate your transaction.
- Information, including purchase agreements and amendments, will pass back and forth between WFG and the Real estate agents and brokers, lenders, the mortgage brokers and others facilitating the transaction; and
- Various government agencies get involved. The law requires us to provide certain information to the IRS, the US Treasury, local and state tax authorities, recorders of deeds and other governmental agencies.
- In resolving claims and mitigating losses, we may engage outside counsel and other service providers (such as surveyors and appraisers) to assist in resolving the claim.
- From time to time, we are required to respond to law enforcement, regulatory, and lender requests and as required by applicable law, court order, or governmental regulations.

Contact for More Information

If you have any questions or comments about this notice, our Privacy Statement, the ways in which we collect and use your personal information, your choices and rights regarding such use, or wish to exercise your rights under California law, please do not hesitate to contact us at:

- Emailing us at consumerprivacy@willistonfinancial.com
- Going to http://bit.ly/WFGsConsumerPrivacyInformationRequestPage
- Calling us at: 833-451-5718; or
- Going into any WFG office and making the request in person.

The business is not subject to requirements set forth section 999.317(g) of the California Consumer Privacy Act Regulations

Changes to Our Privacy Notice

We reserve the right to amend this privacy notice at our discretion and at any time. When we make changes to this privacy notice, we will notify you by email or through a notice on our website homepage.

Privacy Notice for Oregon Residents

We may not disclose personal or privileged information about you unless we provide you with a disclosure authorization form that is executed by you or your representative and otherwise complies with certain statutory requirements. Any such authorization is not valid for more than 24 months and may be revoked by you at any time, subject to the rights of anyone who relied on the authorization prior to your notice of revocation.

In addition, if your personal or privileged information was collected or received by us in connection with a title insurance transaction, we cannot disclose such information if the disclosure authorization form that you executed is more than one year old or if the requested disclosure is for a purpose other than a purpose expressly permitted by statute.

You have the right at any time to request in writing access to recorded personal information about you that is reasonably described by you and reasonably available to us. Within 30 days of the date of our receipt of any such written request from you, we will inform you of the nature and substance of any such information, permit you to see and copy that information or obtain a copy by mail, disclose the identity, if recorded, of the persons to whom we have disclosed such information during the previous two years, and provide you with a summary of the procedures by which you may request that such information be corrected, amended or deleted.

- Emailing us at consumerprivacy@willistonfinancial.com
- Calling us at: 833-451-5718; or
- Going into any WFG office and making the request in person.

Revised 12/31/19



PO Box 398 Camas, WA 98607 360.834.2519 www.kcdevelopment.net

PROVIDING SURVEYING AND PLANNING SERVICES WITH A PERSONAL COMMITMENT TO EXCELLENCE.

Walgraeves Annexation **Legal Description**

October 1, 2021

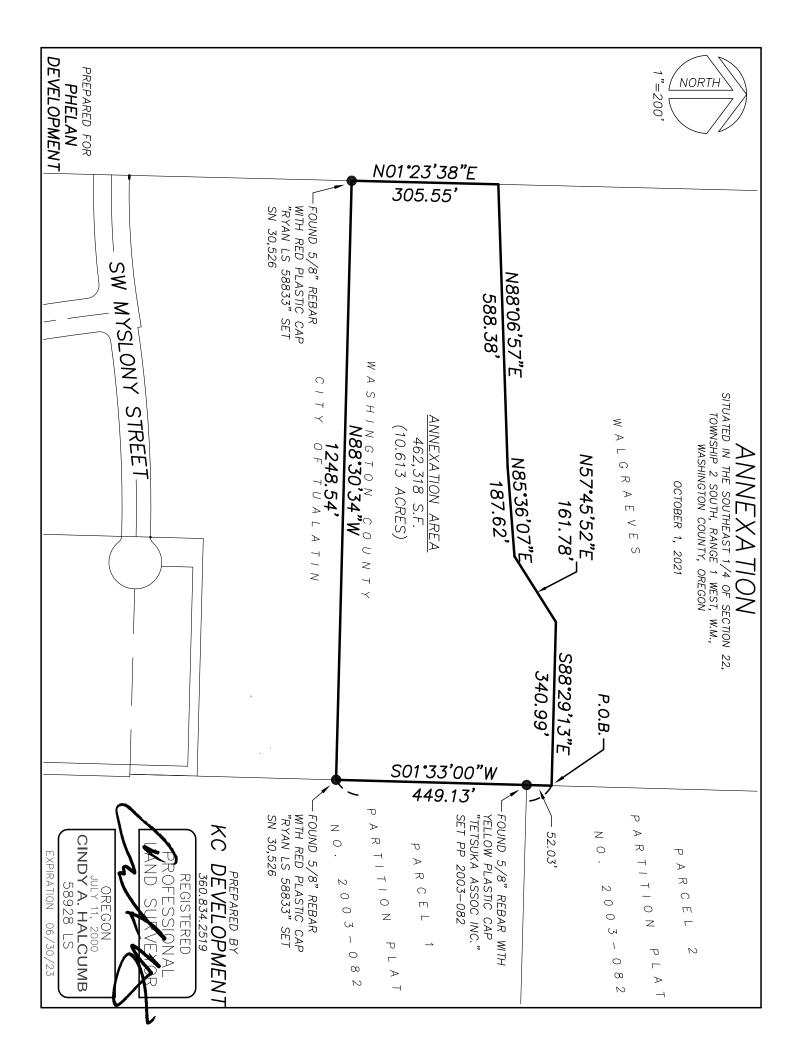
A Portion of the Southeast 1/4 of Section 22, Township 2 South, Range 1 West, W.M., Washington County, Oregon, being more particularly described as follows:

Beginning at a point on the West line of Parcel 2, Partition Plat No. 2003-082, at a point which bears N01°33'00"E, 52.03 feet from the 5/8" Rebar with a Yellow Plastic cap marking the Southwest Corner thereof; thence along the West line of said Parcel 2, and continuing along the West line of Parcel 1 of said Partition Plat, S01°33'00"W, 449.13 feet to the 5/8" Rebar with a Red Plastic Cap inscribed "Ryan LS 58833" as set in Survey Number 30,526 at the Southeast Corner of Tract 2 of that Property Line Adjustment recorded in Document Number 2006-090121, Washington County Records, being also the City Limits Line; thence along the South line of said Tract 2 and said City Limits Line, N88°30'34"W, 1248.54 feet to the 5/8" Rebar with a Red Plastic Cap inscribed "Ryan LS 58833" as set in Survey Number 30,526 at the Southwest Corner of said Tract 2; thence along the West line of said Tract 2, N01°23'38"E, 305.55 feet; thence leaving said line, N88°06'57"E, 558.38 feet; thence N85°36'07"E, 187.62 feet; thence N57°45'52"E, 161.78 feet; thence S88°29'13"E, 340.99 feet to the Point of Beginning.

Containing 462,318 Square Feet (10.613 Acres).

REGISTERED SSIONAL 2000 58928 LS

EXPIRATION 06/30/23





| Project No.: Project | et: Walaraeus |
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| Date: Sept 16, 2021 Time Subject: Walgraeves New Mey | Meeting Field Conversation act Info.: Zeem modulg |
| 1. Daye Kiersey ! 2. Cozelle Tran-caffe | avestibus 114. Cdavere Kierseyandmemillian. Lisa. Maxillipse nike.com |
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| 4875 SW Griffith Drive Suite 300 Beaverton, OR 97005 | |

ZAMPELL TUALATIN LLC 3 STANLEY TUCKER DR NEWBURYPORT, MA 01950 WETLANDS CONSERVANCY INC 4640 SW MACADAM AVE #50 PORTLAND, OR 97239 TUALATIN CITY OF 18880 SW MARTINAZZI AVE TUALATIN, OR 97062

WASHINGTON CO. FACILITIES MGMT. 169 N 1ST AVE #42 HILLSBORO, OR 97124 WALGRAEVE GARY & WALGRAEVE RICKY 11345 SW HERMAN RD TUALATIN, OR 97062 TUALATIN CITY OF PO BOX 723597 ATLANTA, GA 31139

PHIGHT LLC ONE BOWERMAN DR BEAVERTON, OR 97005

TUALATIN YARDS LLC 19100 SW 51ST AVE TUALATIN, OR 97062 TUALATIN INDUSTRIAL VENTURES LLC 1101 SE TECH CENTER DR #160 VANCOUVER, WA 98683

TAMARISK TUALATIN LLC 1099 18TH STE 2900 DENVER, CO 80202 SIDIEL LLC PO BOX 1696 BEAVERTON, OR 97075 SEASONAL PRODUCTS LLC 4112 NW SANDPIPER DR WOODLAND, WA 98674

S BENNER HEATHERBRAE LLC & M BENNER HEATHERBRAE LLC 3329 WINTERCREEK CT EUGENE, OR 97405 PASCUZZI INVESTMENT LLC 10250 SW NORTH DAKOTA TIGARD, OR 97223 PNWP LLC #5 6600 SW 105TH AVE STE 175 BEAVERTON, OR 97008

PACIFIC METAL COMPANY 10700 SW MANHASSET DR TUALATIN, OR 97062 OFIPLEX OR LLC 5348 VEGAS DR LAS VEGAS, NV 89108 NORSTAR BUSINESS CENTER WEST #2 LLC

BEAVERTON, OR 97075

PO BOX 1696

NDH LLC & HOLMES THOMAS L PO BOX 111 CANBY, OR 97013 MYSLONY LLC 11555 SW MYSLONY ST TUALATIN, OR 97062 MORGAN WILLIAM RAY & JANICE ELLEN REV LIV TRUST

4500 SW ADVANCE RD WILSONVILLE, OR 97070

MARSHALL ASSOCIATED LLC PO BOX 278 TUALATIN, OR 97062 MARINE LUMBER COMPANY 11800 SW MYSLONY ST TUALATIN, OR 97062 METRO 600 NE GRAND AVE PORTLAND, OR 97232

MAJNARICH FAMILY LP 8338 SW 11TH AVE PORTLAND, OR 97219 LUMBER FAMILY CO LLC PO BOX 1427 TUALATIN, OR 97062 MANHASSET BUSINESS CENTER OWNERS ASSOC 1498 SE TECH CENTER PL #150 VANCOUVER, WA 98683

LIGHTSPEED TECHNOLOGIES INC 11509 SW HERMAN RD TUALATIN, OR 97062 LIC LLC 7650 SW VILLAGE GREEN CIR WILSONVILLE, OR 97070 HEDGES A AN LLC PO BOX 15523 SEATTLE, WA 98115 HEDGES B AN LLC PO BOX 15523 SEATTLE, WA 98115 HEDGES C AN LLC PO BOX 15523 SEATTLE, WA 98115 HEDGES D AN LLC PO BOX 15523 SEATTLE, WA 98115

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GARSKE TRAVIS W PO BOX 729 COLBERT, WA 99005 FUJIMI CORPORATION 11200 SW LEVETON DR TUALATIN, OR 97062

CJO PROPERTIES LLC 14859 SW 162ND TER TIGARD, OR 97224 CEDAR LANDSCAPE MAINTENANCE LLC 6107 SW MURRAY BLVD #175 BEAVERTON, OR 97008

BT PROPERTY LLC 55 GLENLAKE PKWY NE ATLANTA, GA 30328

BENNETT LIV TRUST 10550 S KELLAND CT OREGON CITY, OR 97045

BC CALKIN LLC PO BOX 3450 TUALATIN, OR 97062 AXIOM INDUSTRIES INC PO BOX 1147 TUALATIN, OR 97062

AW & JS ENTERPRISES LLC PO BOX 849 TUALATIN, OR 97062 AMU PROPERTIES LLC 20049 SW 112TH AVE TUALATIN, OR 97062

ABBOTT TUALATIN LLC 3030 BRIDGEWAY, STE 100 SAUSALITO, CA 94965

112TH & MYSLONY JPMJD/USICV LLC 450 NEWPORT CENTER DR STE 405 NEWPORT BEACH, CA 92660 D&B PROPERTY LEASING LLC 8060 SW PFAFFLE ST STE 200 TIGARD, OR 97223 EVE LAND INVESTMENTS LLC PO BOX 19856 PORTLAND, OR 97280

AFFIDAVIT OF MAILING NOTICE

| STATE OF OREGON) |
|--|
|) SS COUNTY OF WASHINGTON) |
| |
| |
| I, ALISON BAKER being first duly sworn, depose and say: |
| That on the day of |
| |
| Signature |
| |
| SUBSCRIBED AND SWORN to before me this day of day of 20 |
| OFFICIAL STAMP SERENA T SMITH NOTARY PUBLIC-OREGON COMMISSION NO. 995986 MY COMMISSION EXPIRES JANUARY 20, 2024 My commission expires: 01 20 7674 |
| |

NOTICE OF NEIGHBOR/DEVELOPER MEETING

9/1/2021

AAI Engineering 4875 SW Griffith Dr, #100 Beaverton, Oregon 97005

RE: Walgraeves Industrial Park.

Dear Property Owner,

You are cordially invited to attend an online meeting on Sept. 16, 2021 at 6:00pm. This meeting shall be held to discuss an Annexation application and an Architecture Review application for the same property. It is important to note that the property under consideration is not the entire lot. Rather, the project site is a portion of the property to the south that will take access off of SW Myslony Street, NOT SW Herman Rd.

This will be a FREE online meeting.

Please join the meeting from a computer, tablet or smartphone. https://zoom.us/join

Meeting ID: 823 5620 3004

Passcode: 611526

You can also dial in using your phone.

United States: (253) 215-8782

This is an informational meeting to share the development proposal with interested neighbors. You will have the opportunity to review preliminary plans and identify topics of interest or consideration. Feel free to contact me with any questions or commentary.

Regards,

Beth Zauner AAI Engineering, Inc. 503-620-3030; bethz@aaieng.com

CERTIFICATION OF SIGN POSTING

| NOTICE |
|-------------------|
| NEIGHBORHOOD / |
| DEVELOPER MEETING |
| //2010 _:m. |
| SW |
| 503 |

In addition to the requirements of TDC 32.150, the 18" x 24" sign must display the meeting date, time, and address as well as a contact phone number. The block around the word "NOTICE" must remain **orange** composed of the **RGB color values Red 254, Green 127, and Blue 0**. A PowerPoint template of this sign is available at: https://www.tualatinoregon.gov/planning/land-use-application-sign-templates.

| As the applicant for the | project, I hereby |
|---|-------------------|
| certify that on this day, $9/2/2021$ sign(s) was/were posted on the subject property in | accordance with |
| signal, was were posted of the subject property in | accordance with |
| the requirements of the Tualatin Development Code and the Community Development Division. | |
| Applicant's Name: Both Zouner (Please Print) | |
| Applicant's Signature: | į. |
| Date: 9/2/2021 | X 1 |



WALGRAVES INDUSTRIAL PARK

11345 SW Herman Road Pre-Application Meeting Summary

Thank you for discussing your proposed industrial development project. Below you will find a summary of our discussion points. If there is anything else from our meeting that you wish to document, please respond with your notes as well. Thank you.

Required Land Use Reviews

Submit electronically via eTrakit: https://permits.ci.tualatin.or.us/eTrakit/.

Neighborhood/Developer meeting

- Holding a Neighborhood/Developer meeting is required for both Annexation and Architectural Review applications. The same meeting may be used for both applications.
- Neighborhood/Developer meetings should generally be held no more than six months prior to application. More detailed information about this meeting, is online here: https://www.tualatinoregon.gov/planning/neighborhood-developer-meetings
- Applicants are responsible for mailing and posting notice of your Neighborhood Developer meeting. The City can provide a list of addresses for your notice letters. This mailing list includes neighboring property owners, but communicating with your current residents is also encouraged to proactively address concerns. Please email us at planning@tualatin.gov to request a Mailing List for a \$32 fee.

Property Line Adjustment (PLA) Application Considerations:

- A portion of the property is located within Tualatin city limits, though Ordinance 1218-06.
- Minimum lot size in the Tualatin MG zoning district is 20,000 square feet Table 60-2
- Washington County zoning is FD-10.

Annexation:

- An annexation application based on legal description may be submitted concurrent with the property line adjustment (PLA) application.
- Findings regarding proposed connection to public sanitary sewer, stormwater, and water systems should be described in your narrative. Further comments regarding the available systems are under Public Utilities below.
- Application packet: https://www.tualatinoregon.gov/planning/annexation-ann-application
- Work with Washington County Assessment and Taxation's Cartography staff to obtain a certified tax map and have your other application forms certified: https://www.co.washington.or.us/AssessmentTaxation/GISCartography/index.cfm



• Examples of recent annexation applications are found on our projects website:

https://www.tualatinoregon.gov/projects?term node tid depth=All&field project status valu

e=All&field project type tid=All&keys=ANN

Architectural Review Application:

Type III Land Use Decision – See TDC 33.020(3)

https://www.tualatinoregon.gov/sites/default/files/fileattachments/planning/page/5081/ar instruction s 2019 withforms.pdf

Type III AR applications and examples for industrial development found here: https://www.tualatinoregon.gov/planning/ar-19-0008-tualatin-industrial-park

Criteria to address for your AR narrative includes:

- Tualatin Municipal Code:
 - o 03-02: Sewer Regulations;
 - o 03-03: Water Service;
 - o <u>03-05: Soil Erosion, Surface Water Management, Water Quality Facilities, and Building & Sewers;</u>
- Tualatin Development Code:
 - o 32: Procedures;
 - o 33.020: Architectural Review;
 - o 33.110: Tree Removal Permit/Review;
 - o 61: General Manufacturing Zone;
 - o 63: Industrial Uses Environmental Regulations;
 - o 70: Floodplain District
 - o 72: Natural Resource Project Overlay District
 - o 73A, 73B, and 73C: Design Standards;
 - o 74: PublicImprovements
 - o 75: Access Management

Type III Timeline:

- AR application may be submitted while the Annexation application is being processed. Please
 note that the ARB hearing will only be scheduled once the annexation boundary change is
 recorded with Metro and the Department of Revenue and the PLA survey and deed are
 recorded with the County. Be advised that final action on a complete land use application may
 be extended at the applicant's request. The total of all extensions must not exceed 245 days, per
 ORS 227.178.
- Decided by Architectural Review Board, meets as needed on Wednesdays: https://www.tualatinoregon.gov/arb
 - o 30 day Completeness Review
 - Hearing typically scheduled within 60 days of complete application. Decision typically issued with 7 days of hearing, unless hearing is continued or appealed. Final local decision must be within 120 days of complete application, unless extended by applicant.
 - Notice of Hearing:
 - o 20 day prior to hearing
 - o Those who comment gain standing for potential appeal

- Notice of Decision:
 - 14 day appeal period opportunity to appeal decision to City Council

Highlighted Site Design Standards

Permitted and conditional uses are listed in <u>Table 61-1</u>, and use categories are described in <u>Chapter 39</u>. Manufacturing and warehousing are permitted within the MG zone; however a conditional use permit is required for the warehousing of building materials and supplies.

- TDC 73A.500(1): Walkways must be provided between the main building entrances and other on-site buildings, accessways, and sidewalks along the public right-of-way;
- TDC 73B.020(3): The MG zones requires a minimum of 15% landscaping of the total area to be developed.
- TDC 73B.060(1): Minimum 5-foot-wide landscaped area must be located along all building perimeters viewable by the general public from parking lots or the public right-of-way, but the following may be used instead of the 5-foot-wide landscaped area requirement
- TDC 73C.20(4) Landscape island required for every eight continuous parking stalls
- <u>TDC 73D.010(1)</u>: The requirements of the waste and recyclables management standards apply to all new industrial developments.

Tree Removal:

Tree removal is reviewed under the Architectural Review application. A tree preservation plan and a tree assessment report prepared by a certified arborist are required to address the approval criteria for tree removal found in TDC 33.110(5).

Natural resources:

Clean Water Services will comment on additional natural resource, through their Review process. The Service Provider Letter from CWS is a requirement of a complete land use or Engineering permit submittal. For more information, see http://www.cleanwaterservices.org/permits-development/step-by-step-process/environmental-review/

- Wetland Conservation Natural Areas (NRPO-WCNA) and Open Space Preservation District (OSNA) overlays are located on or within the project vicinity, as shown on Figure 72-1.
- With exceptions, listed in <u>TDC 72.060(2)</u>, no building, structure, grading, excavation, placement of fill, vegetation removal, impervious surface, use, activity or other development shall occur within the Wetland and Open Space Natural Areas.
- Criteria for determining significant natural resources that are identified on <u>Figure 72-3</u> are listed in TDC 72.011.



Natural Resources Protection Overlay District Wetland Preservation District

- Wetland Conservation District
 - Open Space Preservation District
- Greenway

Natural Resources

Public Utilities and Other Site Development

- Request available public utility as-builts by emailing tdoran@tualatin.gov.
- Apply for Tualatin Erosion Control, Public Works, and Water Quality Permits electronically via eTrakit: https://permits.ci.tualatin.or.us/eTrakit/. The Flood Hazard Area Development Permit application may be available online.
- An Erosion Control permit is required from Tualatin for projects disturbing over 500 square feet.
 - Additionally if between one and five acres are disturbed, a 1200CN is needed from CWS.
 - o If over five acres are disturbed, a 1200C is needed from DEQ.
- FEMA identified 100-year/1% annual-chance/Base Flood is shown varying through this vicinity with elevations from approximately 134.6 to 142.1 feet, NAVD 1988.
 - o TMC 3-5-250 and TDC 70 requirements are for up to the 100-year/1% annual-chance/Base Flood.
 - o A free floodplain permit will be needed. Elevation certificates for structures must be submitted for Construction Drawings and Final Construction.
 - o Balanced cut-and fill within the floodplain must be reflected on permit plan sheets.



- A Water Quality Permit is needed for construction and modification of public and private impervious areas. The permit will include wetland mitigation/revegetation required by CWS SPL in addition to treatment, detention as required for conveyance, and hydromodification per CWS D&CS Ch 4.
 - o Include all private stormwater treatment and conveyance within a maintenance agreement including existing facilities.
 - o For water quality permit application completeness submit stormwater plans and calculations certified by an Oregon registered, professional engineer in accordance with TMC 3-5-390(1) proving proposed systems:
 - In accordance with TMC 3-5-200 through 3-5-430, TDC 74.630 and 74.650, Public Works Construction Code (PWCC), and Clean Water Services' (CWS)
 Design and Construction Standards (D&CS) Chapter 4.
 - Show onsite facilities for proposed new and modified impervious areas.
 - Address runoff from all new and modified private impervious areas.
 - Treat new and modified impervious areas in accordance with CWS D&CS 4.08.1.d meeting phosphorous removal in accordance with TMC 3-5-350 per the design storm in accordance with TMC 3-5-360 and CWS D&CS 4.08.2.
 - Detain up to the 25 year storm event in accordance with the Hedges Creek Subbasin, TMC 3-5-220, TMC 3-5-230, and CWS D&CS 4.08.
 - Accommodate hydromodification in accordance with CWS D&CS 4.03.5.

- Include conveyance calculations that accommodates up to a 25-year storm event with 100-year overland flow to the public stormwater system in accordance with TDC 74.640 and CWS D&CS 5.05.2.d.
 - Downstream evaluation with a maximum of 82% capacity within public lines per TMC 3-5-210 Review of Downstream System
- Demonstrate compliance with the Clean Water Services' Service Provider Letter CWS conditions sufficient to obtain a Stormwater Connection Permit Authorization Letter in accordance with TDC 74.650(2) and CWS D&CS 3.01.2(d).
- If the proposed water quality facility includes infiltration in the design, a
 Geotech/soil/infiltration report will need to be submitted to Engineering for a complete land use application.
- A Public Works Permit is needed for any sanitary sewer, stormwater, or water line work within right-of-way or public easements.
 - Public sanitary sewer is within SW Myslony Street and a public easement meandering from SW 112th Avenue to the northeast.
 - o Public stormwater and water lines exist within SW Myslony Street. Hedges Creek may be a location for direct private stormwater release.
 - Dedication and construction of SW Myslony Street to the west of SW 112th Avenue may be allowed to match the existing bridge crossing Hedges Creek pending Traffic Impact Analysis confirmation.
 - SW Myslony Street from the west side of SW 112th Avenue to the east would match a Connector cross-section with the addition of a 12-foot wide multi-use path on the north side instead of a 6-foot wide sidewalk. This path would need to connect to the southwest corner of the intersection of SW 112th Avenue and SW Mylony Street.
 - O A public stormwater treatment and detention facility is needed to treat the right-of-way which could include a LIDA facility within a planter strip. The existing public facility at the southwest corner of SW 112th Avenue and SW Myslony Street is currently proposed to be modified to accommodate the eastern extension of SW Myslony Street. If there is consideration to modify it again for this project, there could be inclusion of requirements of this development to only modify once.
- SW Herman Road is expected to become access restricted by the Railroad in the future, therefore access of all developable areas must be enabled access to SW Mylony Street. A 24-foot wide access to SW Myslony Street must be extended to serve any remaining lots between the railroad tracks and SW Myslony Street. A public utility easement including sanitary sewer, stormwater, water, and franchises must be recorded. A conceptual plan for extension of the access and these utilities must be provided to prove acceptable easement locations.
- Driveways must be a minimum of 150 feet from the intersection of the local street and Collectors such as SW 112th Avenue and SW Myslony Street. A possibility of a fourth leg to this intersection may be discussed.
 - o TDC 75.040. Driveway Approach Requirements
- Record an 8-foot wide public utility easement adjacent to right-of-way. Underground utilities unless over 50kv (then associated existing utilities may remain above).
 - Work directly with PGE regarding any existing lines and poles vs what they will require to serve your site.
 - o Your conversations with PGE may result in their request of special circumstances to the City. Please provide us PGE's response early so we can provide any needed input.

- Hydraulic Modeling is required for over 48,300 square footage of new building area, 870 gallons/acre/day use, and/or more than 49 residential units. Hydraulic Modeling may be requested in advance of application for a land use to confirm availability and requirements, but may need to be updated depending on changes due to conditions of approval. When submitting a modeling application include:
 - Requirements/alternatives allowed by Tom Mooney, TVF&R (503) 259-1419; thomas.mooney@tvfr.com
 - Hydrant flow test results. Request testing via https://www.tualatinoregon.gov/publicworks/hydrant-flow-tests. For questions contact
 Terrance Leahy, Water Division Manager, (503) 691-3095; tleahy@tualatin.gov
 - After submittal Staff will coordinate with you regarding payment of the fee per the current <u>fee schedule</u>. (Currently \$300/building)

Transportation and Site Access

 Your transportation engineer must contact Mike McCarthy, Principal Traffic Engineer, mmccarthy@tualatin.gov (please also copy tdoran@tualatin.gov) to confirm proposed Traffic Impact Analysis scope. Mike will coordinate with any other applicable agencies and jurisdictions. Mike may also be reached at (503) 691-3674.

Fire

- Tom Mooney, TVF&R (503) 259-1419; thomas.mooney@tvfr.com)
- A TVF&R Service Provider Letter will be required as part of your Architectural Review submittal, apply here: https://protect-us.mimecast.com/s/2I9QC1wPByIBNqETLICJc?domain=tvfr.com
- Flow testing: Terrance Leahy, Water Division Manager, (503) 691-3095; tleahy@tualatin.gov)

Parks

- The regional Ice Age Tonquin Trail is proposed along this property.
- Rich Mueller, Parks Planning & Development Manager (503) 691-3064; rmueller@tualatin.gov

Fees

- Current fee schedule: https://www.tualatinoregon.gov/finance/fee-schedule
- For calculating SDC fees, please work with Lauren Gonzalez, lgonzalez@tualatin.gov



November 22, 2021

MIKE DEARMEY PHELAN DEVELOPMENT COMPANY 450 NEWPORT CENTER DRIVE, SUITE 405 NEWPORT BEACH, CA 92660

RE: LOT LINE ADJUSTMENT | SW HERMAN ROAD | TUALATIN OR CWS FILE NO. 20-002007 (Tax map 2S122D0 Tax lot 00550, 551, 552)

Clean Water Services has received your Sensitive Area Certification and assessment for the above referenced site. District staff has reviewed the submitted materials including site conditions and the description of your project. Staff concurs that the above referenced project will not significantly impact the existing Sensitive Areas found near the site. In light of this result, this document will serve as your Service Provider letter as required by Resolution and Order 19-5, Section 3.02.1, as amended by Resolution and Order 19-22. Per Section 3.09.2.c, requirements for easements, tracts and improvements to the Vegetated Corridor will apply to subsequent land use or development applications on the subject properties. All required permits and approvals must be obtained and completed under applicable local, state, and federal law.

This letter does NOT eliminate the need to protect Sensitive Areas if they are subsequently identified on your site.

If you have any questions, please feel free to call me at (503) 681-3653.

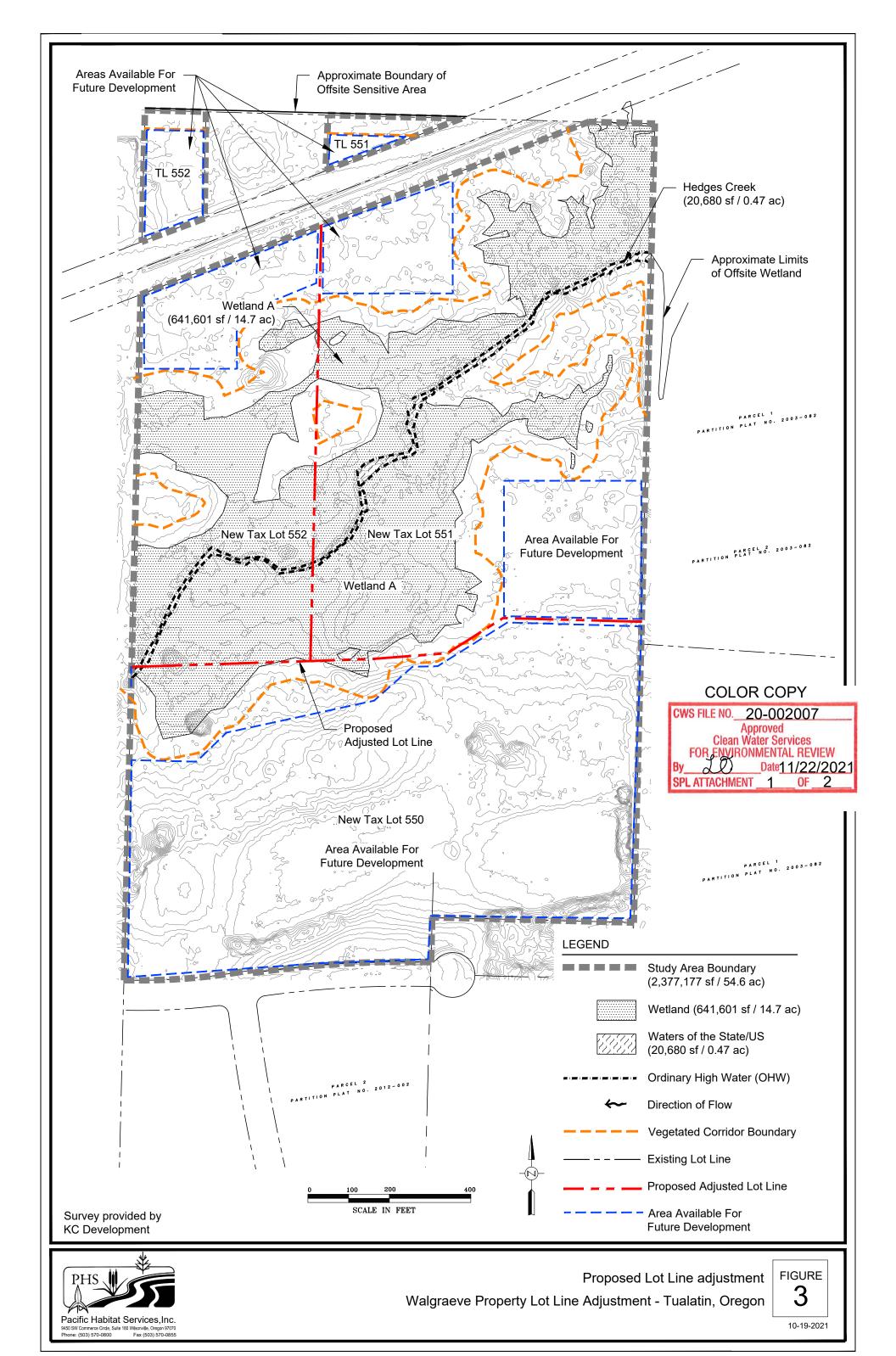
Sincerely,

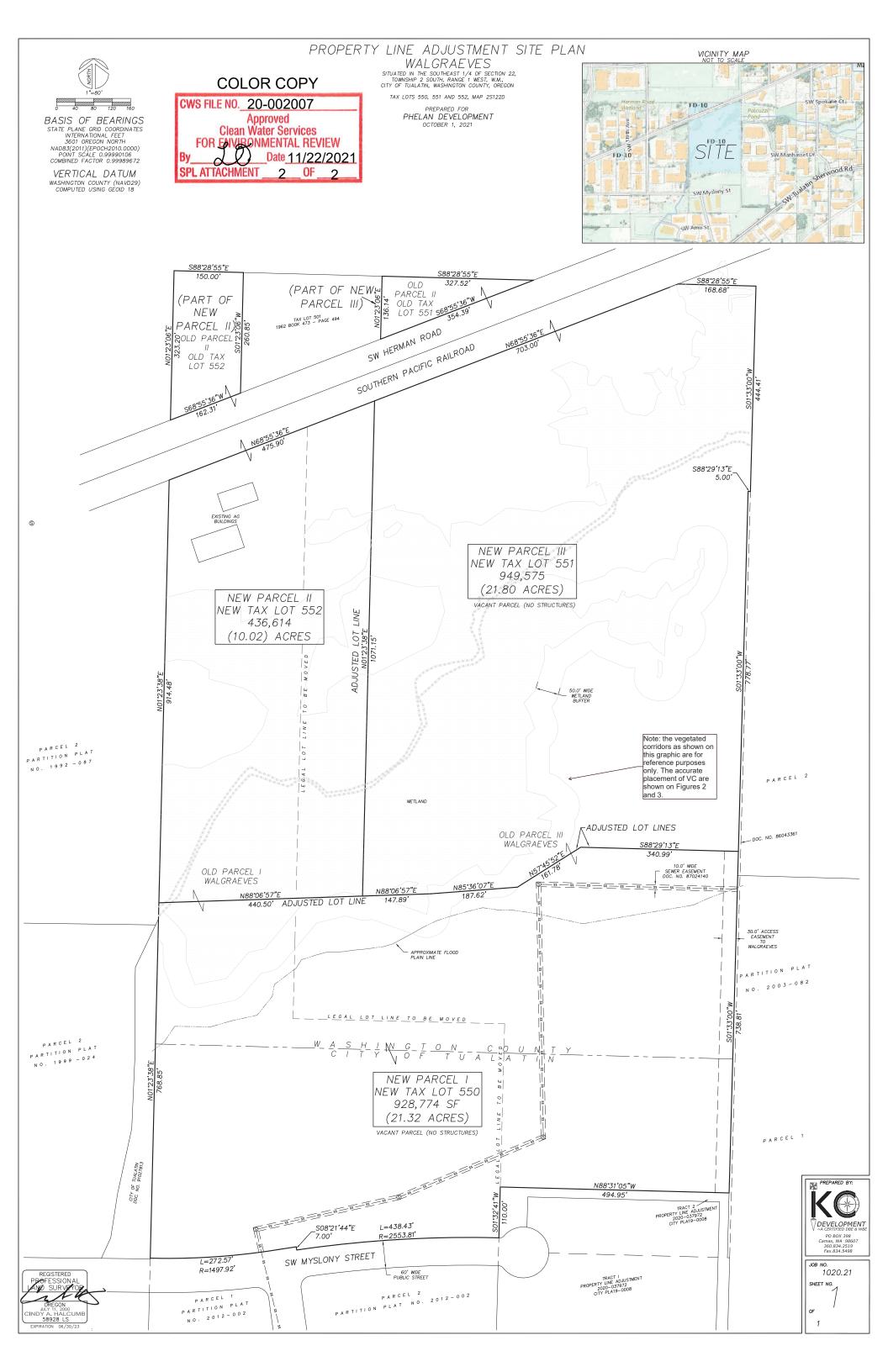
Lindsey Obermiller

Environmental Plan Review

Lindsey Tarmiller

Attachment (2)







Service Provider Letter

| C | WS File Number |
|---|----------------|
| | 22-000820 |

This form and the attached conditions will serve as your Service Provider Letter in accordance with Clean Water Services Design and Construction Standards (R&O 19-5, as amended by R&O 19-22).

| Jurisdiction: | Washington County | Review Type: | Tier 2 Analysis |
|--|---|--|---|
| Site Address / Location: | SW Myslony St / SW 112th Ave Tualatin, OR 97062 | SPL Issue Date: SPL Expiration Date: | March 29, 2022 March 28, 2024 |
| Applicant Infor | mation: | Owner Information: | |
| Name | MIKE DEARMEY | Name | |
| Company | CV QOZP HEDGES CREEK LLC | Company CV (| QOZP HEDGES CREEK LLC |
| Address | 450 NEWPORT CENTER DRIVE NEWPORT BEACH, CA 92660 | Address NEV | NEWPORT CENTER DRIVE VPORT BEACH, CA 92660 |
| | SUITE 405 | SUI | TE 405 |
| Phone/Fax | (714) 330-0759 | Phone/Fax (714 |) 330-0759 |
| E-mail: | mdearmey@phelandevco.com | E-mail: mde | armey@phelandevco.com |
| 2S122D0005 | Tax lot ID | Light Industrial Dev | evelopment Activity elopment |
| Sensitive Area F Vegetated Corrio Vegetated Corrio | dor Width: 50 | Post Dev Sensitive Area Presen Vegetated Corridor Wi | |
| Enhancement of Vegetated Corr | | Square Footage to b | e enhanced: |
| | Encroachments into Pre-Deve | elopment Vegetated Corr | idor: |
| Buildings, Parkir | n of Encroachment: ng (Permanent Encroachment; Mitigation Require cess (Temporary Encroachment; Restoration Pla | | Square Footage: 21,574 254 |
| | Mitigation Ro | equirements: | |
| | VC Mitigation Requirement Met Through Purchar or Public Benefit to Water Quality | se of Wetland Mitigation Ba | Sq. Ft./Ratio/Cost 21,574 13,652 |
| X Conditions | Attached X Development Figures Attached (| 3) Planting Plan Atta | ched Geotech Report Required |

This Service Provider Letter does NOT eliminate the need to evaluate and protect water quality sensitive areas if they are subsequently discovered on your property.

In order to comply with Clean Water Services water quality protection requirements the project must comply with the following conditions:

- 1. No structures, development, construction activities, gardens, lawns, application of chemicals, uncontained areas of hazardous materials as defined by Oregon Department of Environmental Quality, pet wastes, dumping of materials of any kind, or other activities shall be permitted within the sensitive area or Vegetated Corridor which may negatively impact water quality, except those allowed in R&O 19-5, Chapter 3, as amended by R&O 19-22.
- 2. Prior to any site clearing, grading or construction the Vegetated Corridor and water quality sensitive areas shall be surveyed, staked, and temporarily fenced per approved plan. During construction the Vegetated Corridor shall remain fenced and undisturbed except as allowed by R&O 19-5, Section 3.06.1, as amended by R&O 19-22 and per approved plans.
- 3. Prior to any activity within the sensitive area, the applicant shall gain authorization for the project from the Oregon Department of State Lands (DSL) and US Army Corps of Engineers (USACE). The applicant shall provide Clean Water Services or its designee (appropriate city) with copies of all DSL and USACE project authorization permits.
- 4. An approved Oregon Department of Forestry Notification is required for one or more trees harvested for sale, trade, or barter, on any non-federal lands within the State of Oregon.
- 5. Prior to any ground disturbing activities, an erosion control permit is required. Appropriate Best Management Practices (BMP's) for Erosion Control, in accordance with Clean Water Services' Erosion Prevention and Sediment Control Planning and Design Manual, shall be used prior to, during, and following earth disturbing activities.
- 6. Prior to construction, a Stormwater Connection Permit from Clean Water Services or its designee is required pursuant to Ordinance 27, Section 4.B.
- 7. Activities located within the 100-year floodplain shall comply with R&O 19-5, Section 5.10, as amended by R&O 19-22.
- 8. Removal of native, woody vegetation shall be limited to the greatest extent practicable.
- 9. The water quality swale and detention pond shall be planted with Clean Water Services approved native species, and designed to blend into the natural surroundings.
- 10. Should final development plans differ significantly from those submitted for review by Clean Water Services, the applicant shall provide updated drawings, and if necessary, obtain a revised Service Provider Letter.
- 11. The Vegetated Corridor width for sensitive areas within the project site shall be a minimum of 50 feet wide, as measured horizontally from the delineated boundary of the sensitive area.
- 12. For Vegetated Corridors up to 50 feet wide, the applicant shall enhance the entire Vegetated Corridor to meet or exceed good corridor condition as defined in R&O 19-5, Section 3.14.2, Table 3-3, as amended by R&O 19-22.
- 13. Removal of invasive non-native species by hand is required in all Vegetated Corridors rated ""good."" Replanting is required in any cleared areas larger than 25 square feet using low impact methods. The applicant shall calculate all cleared areas larger than 25 square feet prior to the preparation of the required Vegetated Corridor enhancement/restoration plan.
- 14. Prior to any site clearing, grading or construction, the applicant shall provide Clean Water Services with a Vegetated Corridor enhancement/restoration plan. Enhancement/restoration of the Vegetated Corridor shall be provided in accordance with R&O 19-5, Appendix A, as amended by R&O 19-22, and shall include planting specifications for all Vegetated Corridor, including any cleared areas larger than 25 square feet in Vegetated Corridor rated ""good.""
- 15. Prior to installation of plant materials, all invasive vegetation within the Vegetated Corridor shall be removed per methods described in Clean Water Services' Integrated Pest Management Plan, 2019. During removal of invasive vegetation care shall be taken to minimize impacts to existing native tree and shrub species.
- 16. Clean Water Services and/or City shall be notified 72 hours prior to the start and completion of enhancement/restoration activities. Enhancement/restoration activities shall comply with the

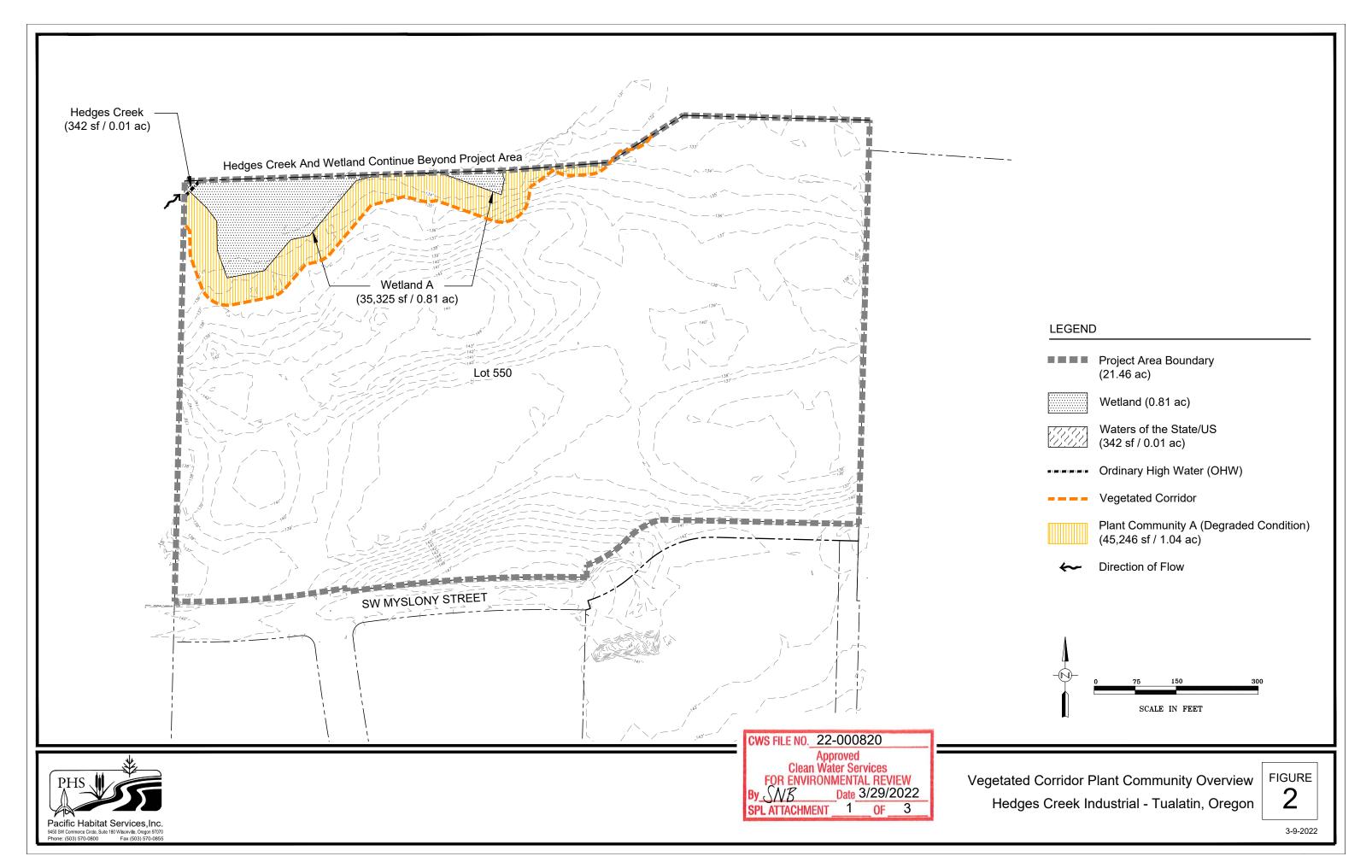
- guidelines provided in Planting Requirements (R&0 19-5, Appendix A, as amended by R&O 19-22).
- 17. Maintenance and monitoring requirements shall comply with R&O 19-5, Section 2.12.2, as amended by R&O 19-22. If at any time during the warranty period the landscaping falls below the 80% survival level, the owner shall reinstall all deficient planting at the next appropriate planting opportunity and the two year maintenance period shall begin again from the date of replanting.
- 18. Performance assurances for the Vegetated Corridor shall comply with R&O 19-5, Section 2.07.2, Table 2-1 and Section 2.11, Table 2-2, as amended by R&O 19-22.
- 19. Clean Water Services shall require an easement over the Sensitive Area and Vegetated Corridor conveying storm and surface water management to Clean Water Services or the City that would prevent the owner of the Vegetated Corridor from activities and uses inconsistent with the purpose of the corridor and any easements therein.
- 20. Final construction plans shall include landscape plans. In the details section of the plans, a description of the methods for removal and control of exotic species, location, distribution, condition and size of plantings, existing plants and trees to be preserved, and installation methods for plant materials is required. Plantings shall be tagged for dormant season identification and shall remain on plant material after planting for monitoring purposes.
- 21. A Maintenance Plan shall be included on final plans including methods, responsible party contact information, and dates (minimum two times per year, by June 1 and September 30).
- 22. Final construction plans shall clearly depict the location and dimensions of the sensitive area and the Vegetated Corridor (indicating good, marginal, or degraded condition). Sensitive area boundaries shall be marked in the field.
- 23. Protection of the Vegetated Corridors and associated sensitive areas shall be provided by the installation of permanent fencing and signage between the development and the outer limits of the Vegetated Corridors. Fencing and signage details to be included on final construction plans.

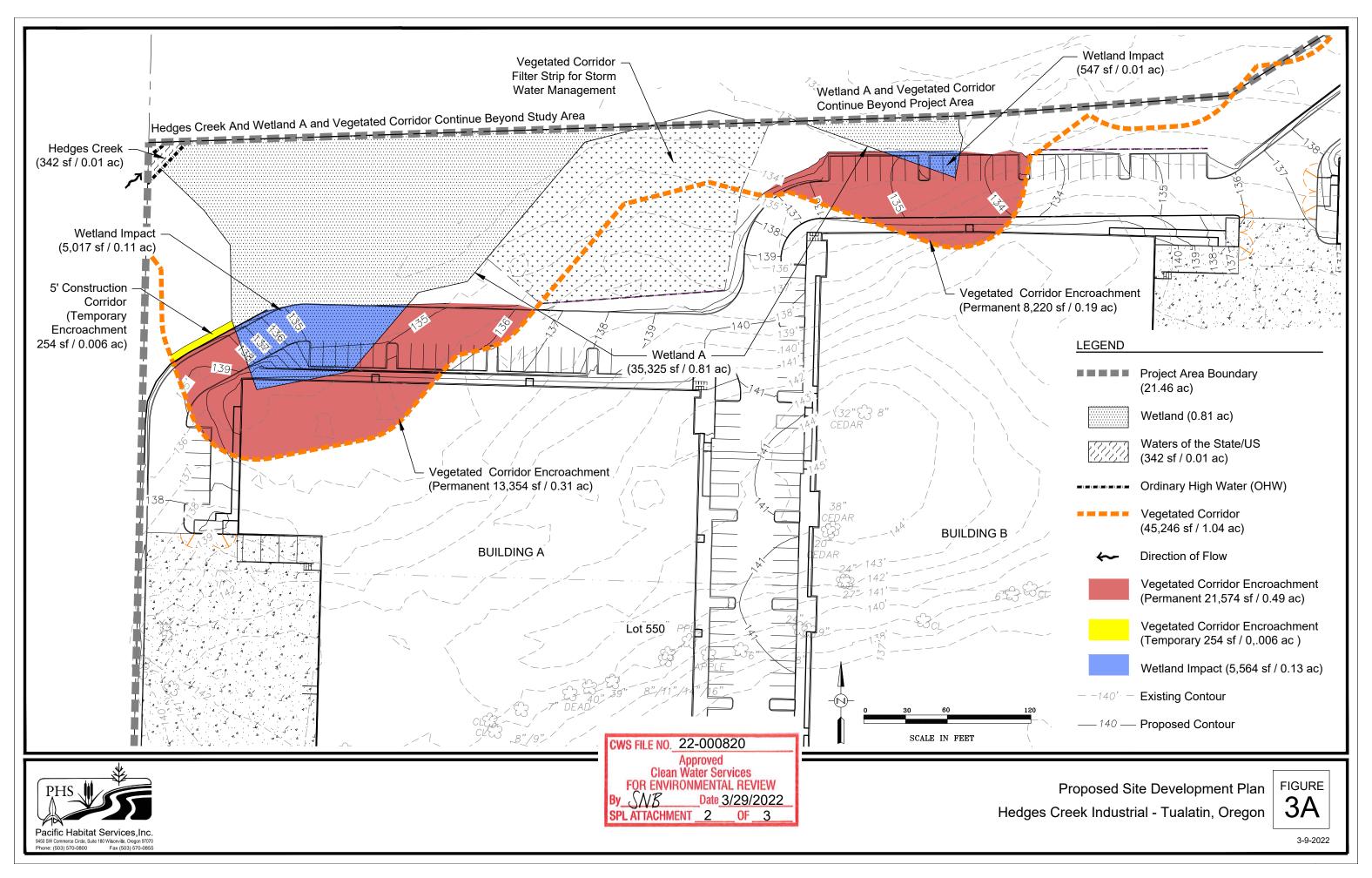
This Service Provider Letter is not valid unless CWS-approved site plan is attached.

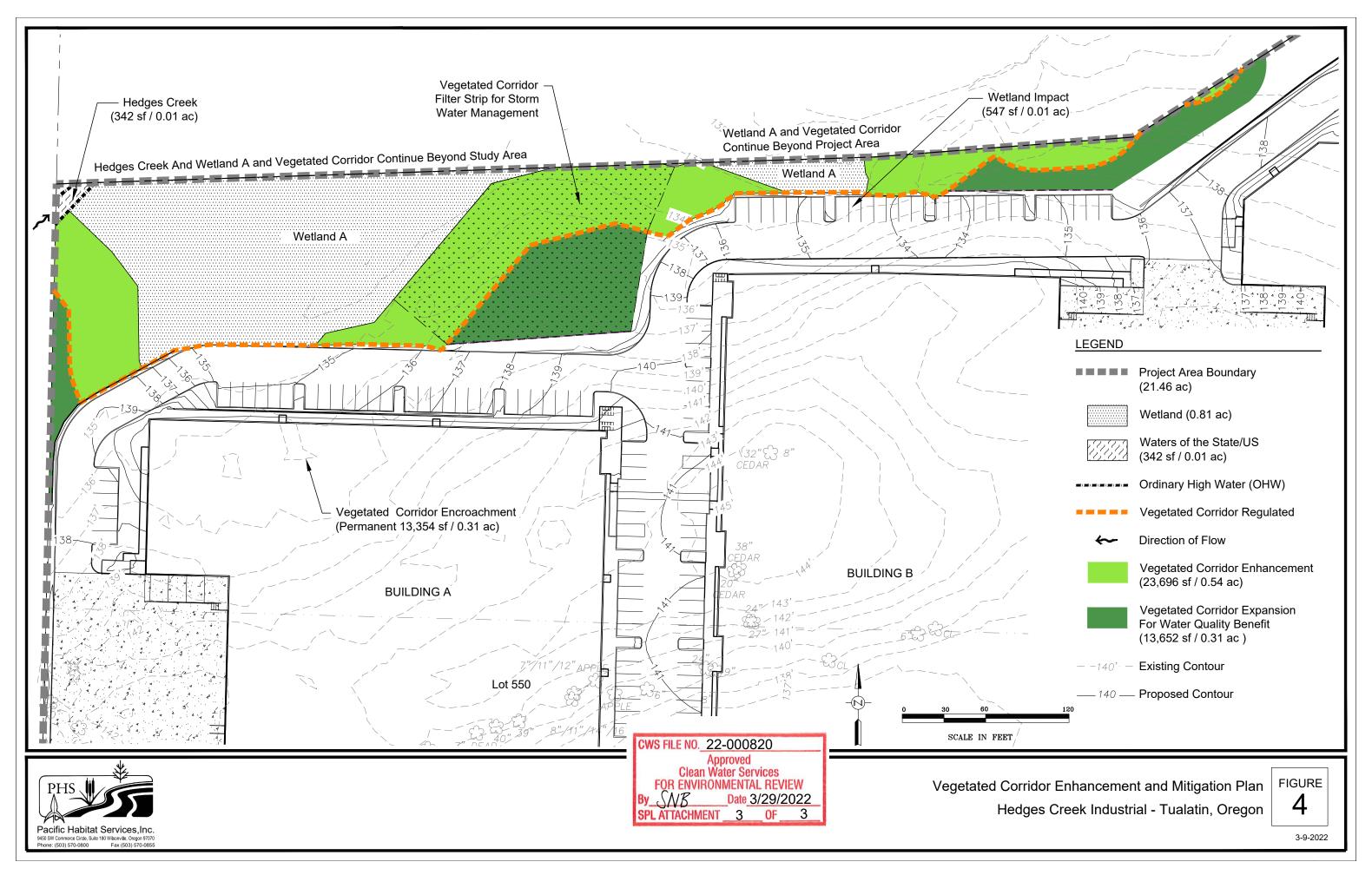
Stacy Benjamin

Environmental Plan Review

Attachments (3)







Natural Resource Assessment for Lot Line Adjustment on the Walgraeve Parcels in Tualatin

Prepared for

Phelan Development Company LLC
Attn: Mike DeArmey
450 Newport Center Dr, Suite 405
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Prepared by

Shawn Eisner

Pacific Habitat Services, Inc.

9450 SW Commerce Circle, Suite 180 Wilsonville, Oregon 97070 (503) 570-0800 (503) 570-0855 FAX PHS Project Number: 6904

October 22, 2021



TABLE OF CONTENTS

| | | | <u>Page</u> |
|-----|-----------|---|-------------|
| 1.0 | INTRODUC | CTION | 1 |
| 2.0 | EXISTING | CONDITIONS | 1 |
| 3.0 | DISCUSSIO | ON OF WATER QUALITY SENSITIVE AREAS | 1 |
| 4.0 | | ED CORRIDOR ASSESSMENTated Corridor Width Determination | |
| 5.0 | _ |) PROJECT | |
| 6.0 | REFERENC | CES | 3 |
| | | | |
| APP | ENDIX A: | Figures | |
| APP | ENDIX B: | Wetland Delineation Data Forms | |
| APP | ENDIX C: | Photo Documentation | |

1.0 INTRODUCTION

Pacific Habitat Services, Inc. (PHS) conducted a Natural Resources Assessment (NRA) on three parcels located along Herman Road in Tualatin (Township 2 South, Range 1 West, Section 22D, tax lots 550, 551 & 552). The largest parcel is lot 550, which includes property south of Herman Road. Lots 551 and 552 are much smaller and are located north of Herman Road. These three parcels are proposed for lot line adjustments that will decrease the size of lot 550; extending lots 551 and 552 to include land south of Herman Road.

This report is submitted in compliance with requirements as established by Clean Water Services (CWS) for a Simplified Site Assessment. A Simplified Site Assessment is proposed in accordance with the proposed development action, which entails lot line adjustments of the three lots noted above. A Simplified Site assessment is satisfactory for this project because it does not result in additional impervious surface; does not include development that could encroach closer to existing sensitive areas; and no action is proposed on a slope greater than 25%. Figure 1 shows the project location; Figure 2 includes existing conditions, including slopes and the corresponding limits of vegetated corridor (VC), and Figure 3 includes a drawing of the proposed lot line adjustments. All figures are in Appendix A.

2.0 EXISTING CONDITIONS

The study area is split by Herman Road and the adjoining Southern Pacific Railroad, though the northern lots are just 1.0 and 0.5 acres in size; much smaller than lot 550 to the south, which is over 53 acres in size. All three parcels are actively utilized for agriculture. Lot 552 includes a cultivated northern portion with overgrown shrub and mowed grass lands across its southern extent. Lot 551 has been a cultivated field for decades. The northwest corner of lot 550 includes two agricultural buildings, with all but the southern extent of the lot being utilized for grazing of cattle. The southern extent includes fields planted in various agricultural crops from year to year.

Hedges Creek flows northeastward across the central portion of lot 550. Vegetation within the non-cultivated areas reflects disturbance associated with a history of grazing. Despite the grazing however much of the parcel remains forested and includes both evergreen and deciduous dominated habitats. The forested areas are dominated by a native tree canopy, with shrub cover in forested areas also largely native. The remaining areas include a mosaic of shrub dominated and herbaceous habitats. These areas by contrast are largely non-native, and including primarily pasture grasses and weedy forbs, with Himalayan blackberry the single most common shrub species.

3.0 DISCUSSION OF WATER QUALITY SENSITIVE AREAS

PHS delineated sensitive areas within the project area based on the presence of wetland hydrology, hydric soils, and hydrophytic vegetation; in accordance with the Routine On-site Determination, as described in the *Corps of Engineers Wetland Delineation Manual, Wetlands Research Program Technical Report Y-87-1* ("The 1987 Manual") and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region*, May 2010). The field work on this site began with a delineation of sensitive areas on lot 550 on July 1, 2020. The full site was returned to on September 15, 2021, at which time lots 551 and 552 were assessed and additional delineation and vegetated corridor data collected.

The results of the delineation are discussed below, with supporting wetland delineation data forms included in Appendix B.

Wetland A

Wetland A (14.73 acres) is a mosaic of forested, shrub and herbaceous habitat that dominates the Hedges Creek floodplain. The wetland roughly parallels the creek, extending several hundred feet to both sides. Though slopes generally decrease toward the creek, they are gentle and topography undulates a bit, resulting in variations in site hydrology, and even some areas of upland within the larger wetland area.

The swale's Cowardin class ranges from palustrine emergent through scrub-shrub and forested, with a hydrologic modifier of seasonally flooded in the areas adjoining Hedges Creek. The north and southern limits of wetland do not appear to be seasonally flooded, though would appear to be seasonally saturated, as evidenced by the abundance of oxidized rhizospheres. While the hydrogeomorphic (HGM) class is Slope, largely due to its moderate to shallow gradient and groundwater sources, seasonal overbank flooding along Hedges Creek would result in a limited area of Riverine flow-through as well.

Dominant vegetation is somewhat variable, but because of grazing, is generally dominated by mixed pasture grasses and weedy forbs. Shrubby areas are dominated by Himalayan blackberry, though there remain a few small, forested areas that are dominated by Oregon ash. Like the more open areas, the understory in forested areas has been grazed. Common shrubs include Himalayan blackberry, several species of rose, and snowberry. The herbaceous layer, where present, generally includes the same grass and forb species as the open areas.

4.0 VEGETATED CORRIDOR ASSESSMENT

The following assessment is limited to the determination of VC width as an assessment of VC condition is not required for a simplified assessment associated with a lot line adjustment because this development activity does not trigger enhancement requirements.

4.1 Vegetated Corridor Width Determination

The slopes adjacent to all sensitive areas were assessed to determine the regulated width of the VC. The location of the VC, adjacent slopes and corridor widths are shown on Figure 2. The regulated VC widths of identified sensitive areas were determined as follows:

Table 1. Summary of VC Widths

| Sensitive Areas | VC Width | Justification |
|--|----------|---|
| Onsite floodplain wetlands associated with Hedge Creek; offsite wetlands to the north and east | 50 feet | >0.5 acresSlopes <25% |
| Small, isolated areas located south of the larger floodplain wetland | 25 feet | ≤0.5 acres and isolated Slopes <25% |

As slopes are generally quite gentle across all three existing lots and the main wetland is much larger than one-half acre in size, most VC widths across the site are 50 feet wide. There are two small areas of wetland separated from the larger wetland by about 20 feet. As these areas are not subject to inundation that would provide a connection between the wetlands and Hedge Creek (except during periods of extensive flooding), these isolated wetlands have a VC width of 25 feet.

The total area of regulated VC within the 3 lots is 384,379 square feet (8.82 acres). As the proposed action is a property line adjustment and no physical development will occur, this simplified site assessment does not include a determination of plant community boundaries or assessment of community condition.

5.0 PROPOSED PROJECT

The proposed project includes the adjustment of common lines between lots 550, 551 and 552 (see Figure 3). The result of adjustment will be an increase in the size of lots 551 and 552, which will extend south of Herman Road; the size of lot 550 will be decreased in proportion. Following line adjustment lot 550 will be annexed into the City of Tualatin, whereas lots 551 and 552 will remain in Washington County. To affirm that each of the proposed lots will be buildable under current CWS D&C standards Figure 3 roughly identifies the limits of potential development areas on each lot. Though no development is proposed on lot 550, a 30 foot wide access easement will be provided across the east side of lot 550, to provide legal access from the right of way of Myslony Street north to the south end of proposed lot 551. Sheet 1 (following Figure 3) includes the details of the proposed properly line adjustment.

6.0 REFERENCES

Clean Water Services, 2019. Design and Construction Standards (R&O 19-5 as Amended by R&O 19-22).

PortlandMaps.com, 2021. Air photo and tax lot boundary of project site. Website accessed September 21, 2021.

Appendix A

Figures

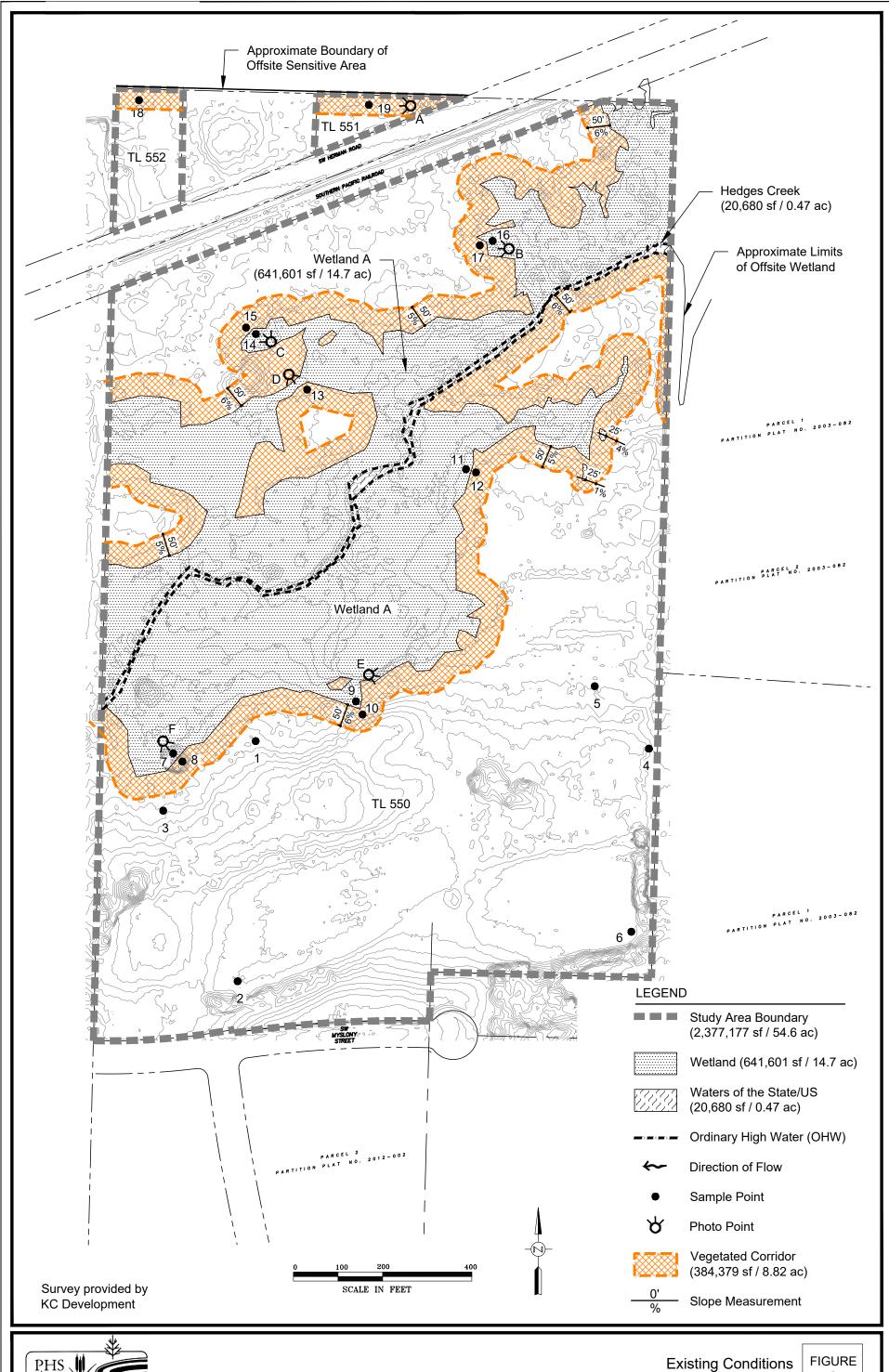




Project #6904 10/6/21

Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Site location and approximate boundaries Walgraeve property lot line adjustments PortlandMaps.com 2021 FIGURE

1

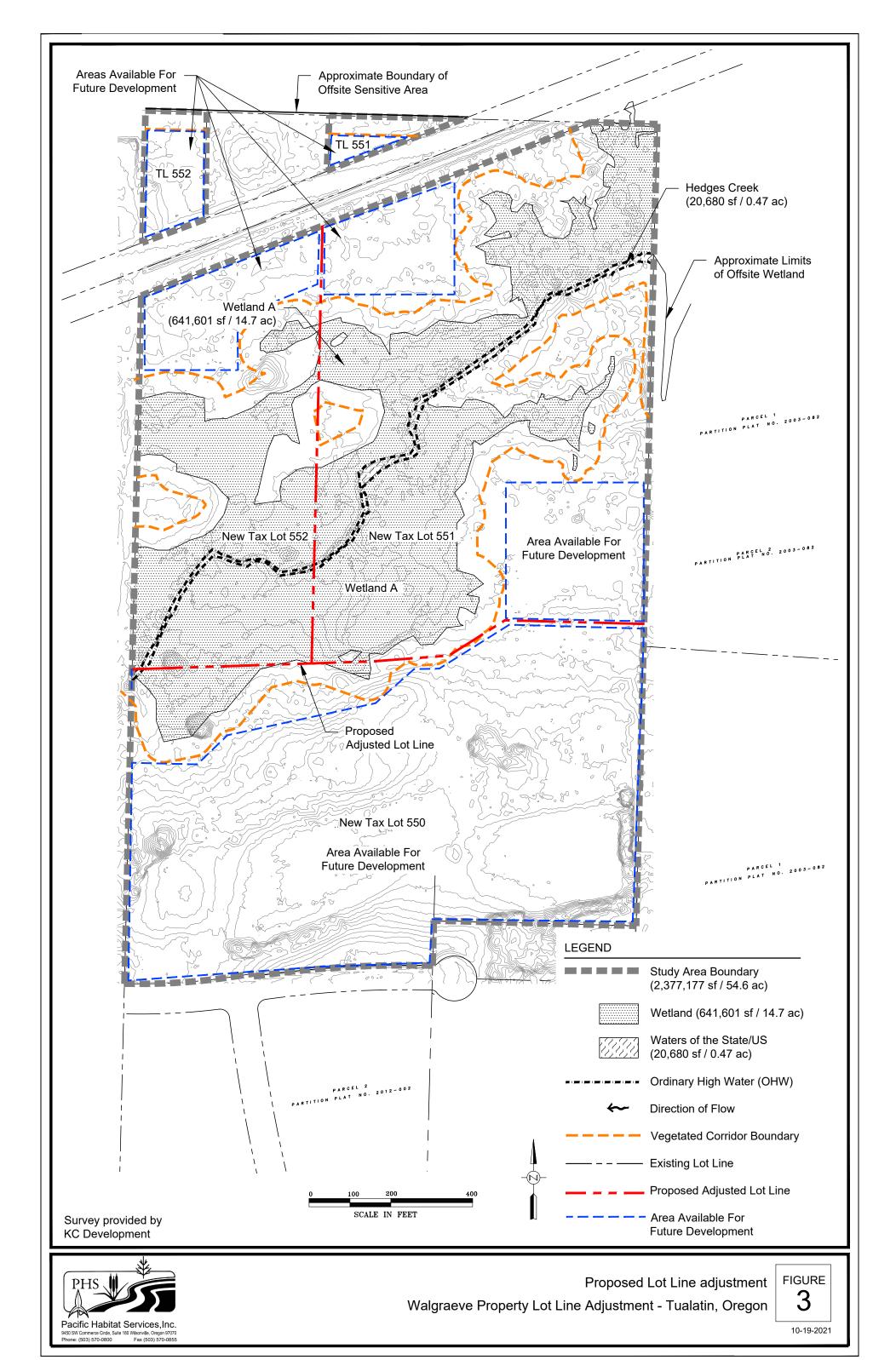


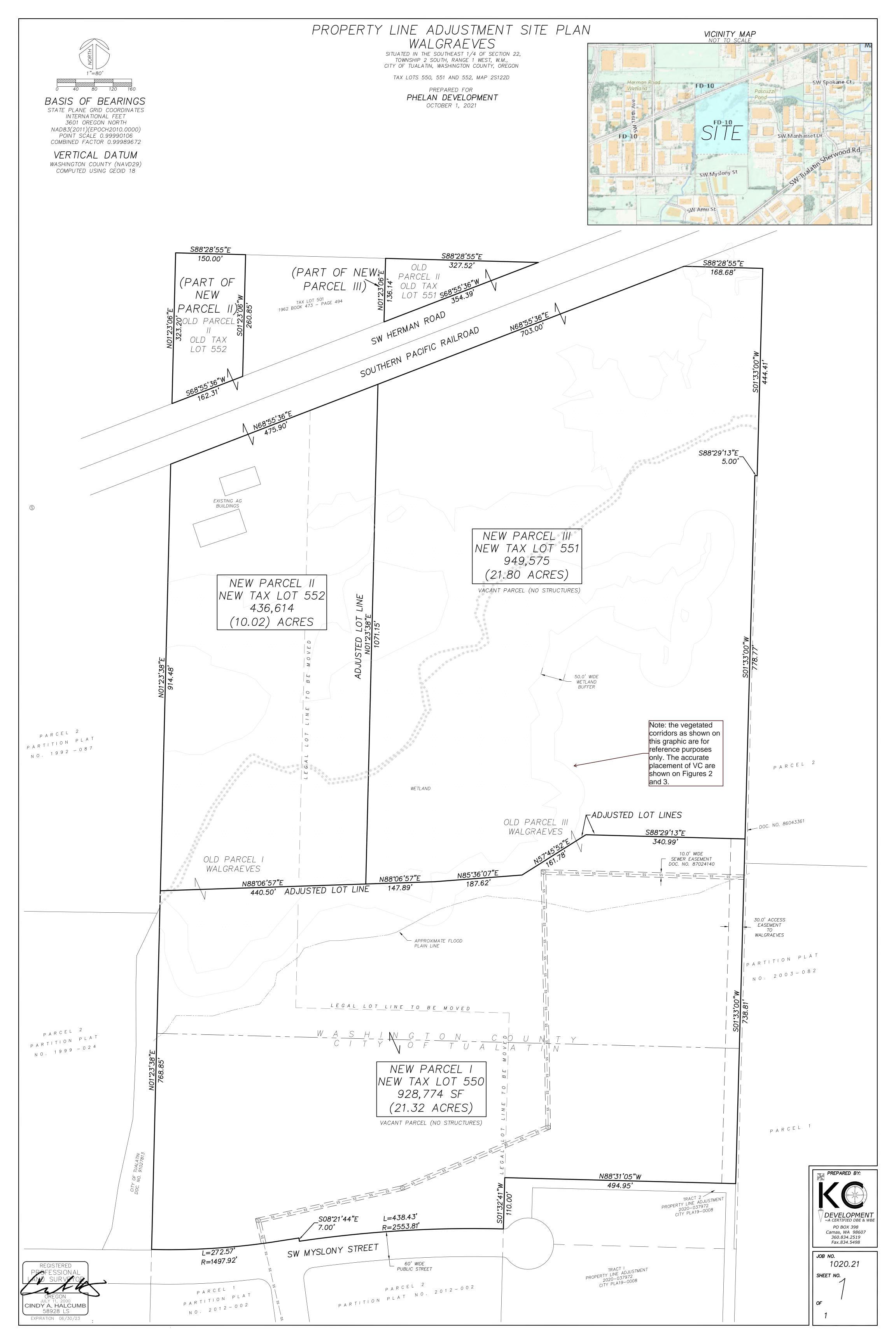


Walgraeve Property Lot Line Adjustment - Tualatin, Oregon

2

10-6-2021





Appendix B

Wetland Delineation Data Forms



6904

| oject/Site: | Walgrave | e Property | <u> </u> | City/County: | Tualat | tin/Washington | Sampling Date: | 7/1 | /2020 |
|------------------------------|--------------|--------------|---------------------|----------------------|---------------------------|--|--|---------------------------------|------------|
| plicant/Owner: | Phelan Dev | velopmen | t | | | State: | OR | Sampling Point: | 1 |
| vestigator(s): | | JT | | Section, To | wnship, Range: | Section | on 22, Township 2 | S, Range 1W | |
| ndform (hillslope, terr | race, etc.:) | | Depress | ion | Local relief (cor | ncave, convex, none): | | Slope (%): | 2 |
| bregion (LRR): | , | LRR A | | Lat: | , | Long: | | Datum: | |
| il Map Unit Name: | | | | itama loam | | | assification: | | |
| climatic/hydrologic | | the site two | | | Yes | | · | plain in Remarks) | |
| , , | | ,, | | significantly dist | | | , | • | |
| vegetation | | - | | | | | . , | | |
| vegetation | 5011 | or Hyar | ology | naturally proble | matic? if needed | , explain any answers in Re | emarks.) | | |
| JMMARY OF FI | INDINGS - | - Attach | ı site mar | showing san | npling point | locations, transect | s, important fea | tures, etc. | |
| Irophytic Vegetation | Present? | Yes | ΧN | lo | | | | | |
| Iric Soil Present? | | Yes | N | lo X | Is Sampled Ar a Wetlar | rea within Yes | | No X | |
| tland Hydrology Pre | sent? | Yes | | lo X | a vvetiai | iu: | | | |
| narks: | | | | | | | | | |
| | | | | | | | | | |
| GETATION - U | se scient | tific name | • | | Indiant | Dominanaa Taat | rkohoo*: | | |
| | | | absolute % cover | Dominant Species? | Indicator Status | Dominance Test wo | rksneet: | | |
| <u>e Stratum</u> (plot si | ze: |) | | · - · | | Number of Dominant Spe | ecies | | |
| | | | | | | That are OBL, FACW, or | FAC: | 4 | (A) |
| | | | | | | | | | • |
| | | | | | | Total Number of Domina | nt | | |
| | | | | | | Species Across All Strata | a: | 7 | (B) |
| | | _ | 0 | = Total Cover | | | | | |
| ling/Shrub Stratum | (plot size: | 15 |) | | | Percent of Dominant Spe | ecies | | |
| Rubus armenia | VI | | , 5 | x | FAC | That are OBL, FACW, o | | 57% | (A/B) |
| Sambucus nigr | | | 5 | x | FAC | | | | , , |
| | | | | | | Prevalence Index W | orksheet: | | |
| | | | | | | Total % Cover of | Multiply b | y: | |
| | | | | | | OBL Species | x 1 = | 0 | |
| | | | 10 | = Total Cover | | FACW species | x 2 = | 0 | |
| | | | | | | FAC Species | x 3 = | | |
| <u>b Stratum</u> (plot si | | 5) | | | | FACU Species | x 4 = | | |
| Bromus tectoru | | | 30 | <u> </u> | UPL | UPL Species | x 5 = | | |
| Lolium perenne | | | 20 | <u> </u> | FAC | Column Totals | 0 (A) | 0 | (B) |
| Hordeum jubatu | | | 10 | <u> </u> | FAC | | D/A | #DIV//C! | |
| Anthemis cotul | a | | 10 | <u> </u> | FACU | Prevalence Index = | :R\Y = | #DIV/0! | |
| Vulpia myuros | vulsara | | 10 5 | X | FACU FACU | Hydrophytic Vessta | tion Indicators: | | |
| Leucanthemum Taraxacum offic | | | 5 | · | FACU | Hydrophytic Vegeta | | Ironhytia \/a==t=±:- | n |
| Tanacetum vulg | | | 5 | | FACU | x | 1- Rapid Test for Hyd2- Dominance Test is | | 11 |
| ranacetum vuig | gui 6 | | 95 | = Total Cover | 1 700 | | 3-Prevalence Index is | | |
| | | - | | 1 3141 30461 | | | 4-Morphological Adap | | supporting |
| ody Vine Stratum | (plot size: | |) | | | | data in Remarks or o | n a separate sheet | t) |
| | | | | . <u></u> | | | 5- Wetland Non-Vasc | ular Plants ¹ | |
| | | | | | | | Problematic Hydrophy | ytic Vegetation ¹ (E | xplain) |
| | | | 0 | = Total Cover | | ¹ Indicators of hydric soil a | | must be present, | unless |
| | | _ | | | | disturbed or problematic. | | | |
| | | | | | | Harabara is 41 - | | | |
| Bare Ground in Herb | Stratum | 0 | | | | Hydrophytic Vegetation | Yes X | No | |

| SOIL | | | | | | | | | | | | |
|---|--|--|-------------------------------------|----------------------------|---|---|--|---|--------------|---|--|---|
| Profile Descri | iption: (Describe to | the depth n | eeded to d | documen | t the indica | ator or conf | firm the absenc | e of indicators.) | | | | |
| Depth | Matrix | | | | | Features | | , | | | | |
| (Inches) | Color (moist) | % | Color (m | noist) | % | Type ¹ | Loc ² | Texture | | Ren | narks | |
| 0-2 | 10YR 3/2 | 100 | | | | | | Silt Loam | | | | |
| 2-4 | 7.5YR 3/2 | 100 | | | | | | Silt Loam | | | | |
| 4-14 | 7.5YR 3/3 | 100 | | | | | | Silt Loam | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | - | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | centration, D=Depleti | | | | | | d Grains. | | | PL=Pore Lining | | 3 |
| - | Indicators: (Appli | icable to a | all LRRs, | unless | | | | Indic | cators for P | Problematic | - | s": |
| | Histosol (A1) | | | - | | andy Redox | | | | 2 cm Muck | | |
| | Histic Epipedon (A2) | | | - | | tripped Matr | | | | Red Parent | Material (TF2 |) |
| | Black Histic (A3) | | | - | Lo | oamy Mucky | y Mineral (F1) (e | xcept MLRA 1) | | Very Shallo | w Dark Surfac | e (TF12) |
| | Hydrogen Sulfide (A4 | !) | | _ | Lo | oamy Gleye | d Matrix (F2) | | | Other (expla | ain in Remark | s) |
| | Depleted Below Dark | Surface (A | 11) | _ | D | epleted Mat | trix (F3) | | | | | |
| | Thick Dark Surface (A | A12) | | _ | R | edox Dark S | Surface (F6) | | | | | |
| | Sandy Mucky Minera | I (S1) | | _ | D | epleted Dar | k Surface (F7) | | | of hydrophytic must be prese | | |
| | Sandy Gleyed Matrix | (S4) | | _ | R | edox Depre | ssions (F8) | | riyurology | problen | | urbed or |
| Depth (inches | s): | | | | | | | Hydric Soil Pre | esent? Yes | <u> </u> | No | Х |
| Depth (inches | <u> </u> | | | | | | | Hydric Soil Pre | esent? Yes | S | No | X |
| Depth (inches | <u> </u> | rs: | | | | | | Hydric Soil Pre | esent? Yes | | No | X |
| Depth (inches Remarks: HYDROLO Wetland Hy | OGY | | lired; che | ck all tha | at apply) | | | Hydric Soil Pre | | ary Indicators | | |
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| Primary India | ody cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B | of one requiped to the second | iired; che | ck all tha | W 1, S: A | , 2, 4A, and alt Crust (B ² quatic Invertydrogen Sul | d Leaves (B9) (E 4B) 11) tebrates (B13) Ifide Odor (C1) | Except MLRA | Seconda | water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ | (2 or more ed Leaves (BS, , 4A, and 4B) atterns (B10) Water Table /isible on Aeri c Position (D2 | required))) (C2) al Imagery (|
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| Depth (inches Remarks: HYDROLO Wetland Hy | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B-1) Iron Deposits (B5) | of one requipment of one requi | | ck all that | W 1, 1, Si A A B B B B B B B B B B B B B B B B B | alt Crust (B' quatic Inveri ydrogen Sul xidized Rhiz resence of F ecent Iron F tunted or St | d Leaves (B9) (E 4B) 11) tebrates (B13) Iffide Odor (C1) zospheres along Reduced Iron (C | Except MLRA Living Roots (C3) 4) wed Soils (C6) | Seconda | ary Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı Fac-Neutral Raised Ant | (2 or more ed Leaves (BS, 4A, and 4B) atterns (B10) Water Table /isible on Aeri c Position (D2 uitard (D3) Test (D5) | required) (C2) al Imagery ((|
| Depth (inches Remarks: HYDROLO Wetland Hyd Primary India | cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (| of one requipment of one requi | ery (B7) | ck all tha | W 1, 1, Si A A B B B B B B B B B B B B B B B B B | alt Crust (B' quatic Inveri ydrogen Sul xidized Rhiz resence of F ecent Iron F tunted or St | d Leaves (B9) (E 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plot ressed Plants (E | Except MLRA Living Roots (C3) 4) wed Soils (C6) | Seconda | ary Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı Fac-Neutral Raised Ant | (2 or more ed Leaves (BS, 4A, and 4B) atterns (B10) Water Table //isible on Aeri c Position (D2 uitard (D3) Test (D5) Mounds (D6) | required) (C2) al Imagery (|
| Depth (inches Remarks: HYDROLO Wetland Hy Primary India | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated C | of one requipment of one requi | ery (B7) | ck all tha | W 1, 1, Si A A B B B B B B B B B B B B B B B B B | alt Crust (B' quatic Inveri ydrogen Sul xidized Rhiz resence of F ecent Iron F tunted or St | d Leaves (B9) (E 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plot ressed Plants (E | Except MLRA Living Roots (C3) 4) wed Soils (C6) | Seconda | ary Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı Fac-Neutral Raised Ant | (2 or more ed Leaves (BS, 4A, and 4B) atterns (B10) Water Table //isible on Aeri c Position (D2 uitard (D3) Test (D5) Mounds (D6) | required) (C2) al Imagery (|
| Pepth (inches Remarks: HYDROLO Wetland Hyd Primary India | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B2) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Catorial Controls) | of one requipment of one requi | ery (B7) rface (B8) | - - - - - - | W 1, Si A A H O P R Si O O | alt Crust (B' quatic Inveri ydrogen Sul xidized Rhiz resence of F ecent Iron F tunted or St ther (Explain | d Leaves (B9) (E 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plot ressed Plants (E | Except MLRA Living Roots (C3) 4) wed Soils (C6) | Seconda | ary Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqı Fac-Neutral Raised Ant | (2 or more ed Leaves (BS, 4A, and 4B) atterns (B10) Water Table //isible on Aeri c Position (D2 uitard (D3) Test (D5) Mounds (D6) | required) (C2) al Imagery (|
| Depth (inches Remarks: HYDROLO Wetland Hy Primary India Field Obser Surface Water | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (C) Vations: | of one requipment of one requi | ery (B7) rface (B8) | - - - - - - | W 1, 1, Si A A H O O Pr R Si O O Depth (ir | alt Crust (B' quatic Invertydrogen Sul xidized Rhiz resence of F ecent Iron F tunted or St tunted or St tther (Explain | d Leaves (B9) (E 4B) 111) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plor ressed Plants (I n in Remarks) | Except MLRA Living Roots (C3) 4) wed Soils (C6) D1) (LRR A) | X | ary Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqu Fac-Neutral Raised Ant Frost-Heave | (2 or more ed Leaves (BS, 4A, and 4B) atterns (B10) Water Table //isible on Aeri c Position (D2 uitard (D3) Test (D5) Mounds (D6) | required) (C2) al Imagery (|
| Primary Indi | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Catorians: The Present? Yes Present? Yes Present? Yes Present? Yes Present? Yes Present? Yes | of one requipment of one requi | ery (B7) rface (B8) No No | - - - - - - | W 1, Si A A H O P R Si O O | alt Crust (B' quatic Invert ydrogen Sul xidized Rhiz resence of F ecent Iron F tunted or St ther (Explain | d Leaves (B9) (E 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plot ressed Plants (E | Except MLRA Living Roots (C3) 4) wed Soils (C6) | X | ary Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqu Fac-Neutral Raised Ant Frost-Heave | (2 or more ed Leaves (BS, 4A, and 4B) atterns (B10) Water Table //isible on Aeri c Position (D2 uitard (D3) Test (D5) Mounds (D6) | required) (C2) al Imagery (Ca) |
| Primary India Field Obser Surface Water Water Table P Saturation Pre includes capillar | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Catorians: The Present? Yes Present? Yes Present? Yes Present? Yes Present? Yes Present? Yes | of one requiped (2) (32) (4) (86) Aerial Imag | nery (B7) rface (B8) No No | x x x x | W 1, Si Ai H O Pi R Si O Depth (ir | alt Crust (B' quatic Invert ydrogen Sul xidized Rhiz resence of F ecent Iron F tunted or St tther (Explain | d Leaves (B9) (E 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plor ressed Plants (E n in Remarks) | Except MLRA Living Roots (C3) 4) wed Soils (C6) D1) (LRR A) | Seconda X | ary Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqu Fac-Neutral Raised Ant Frost-Heave | (2 or more ed Leaves (BS, 4A, and 4B) atterns (B10) Water Table //isible on Aeri c Position (D2 uitard (D3) Test (D5) Mounds (D6) e Hummocks | required) (C2) al Imagery (C |
| Primary India Field Obser Surface Water Water Table P Saturation Pre includes capillar | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Catorial Control of Present? Yes Present? Y | of one requiped (2) (32) (4) (86) Aerial Imag | nery (B7) rface (B8) No No | x x x x | W 1, Si Ai H O Pi R Si O Depth (ir | alt Crust (B' quatic Invert ydrogen Sul xidized Rhiz resence of F ecent Iron F tunted or St tther (Explain | d Leaves (B9) (E 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plor ressed Plants (E n in Remarks) | Except MLRA Living Roots (C3) 4) wed Soils (C6) D1) (LRR A) | Seconda X | ary Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqu Fac-Neutral Raised Ant Frost-Heave | (2 or more ed Leaves (BS, 4A, and 4B) atterns (B10) Water Table //isible on Aeri c Position (D2 uitard (D3) Test (D5) Mounds (D6) e Hummocks | required) (C2) al Imagery ((|
| Primary India Field Obser Surface Water Water Table P Saturation Pre includes capillar | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Catorial Control of Present? Yes Present? Y | of one requiped (2) (32) (4) (86) Aerial Imag | nery (B7) rface (B8) No No | x x x x | W 1, Si Ai H O Pi R Si O Depth (ir | alt Crust (B' quatic Invert ydrogen Sul xidized Rhiz resence of F ecent Iron F tunted or St tther (Explain | d Leaves (B9) (E 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres along Reduced Iron (C Reduction in Plor ressed Plants (E n in Remarks) | Except MLRA Living Roots (C3) 4) wed Soils (C6) D1) (LRR A) | Seconda X | ary Indicators Water stain (MLRA1, 2 Drainage Pa Dry-Season Saturation \ Geomorphic Shallow Aqu Fac-Neutral Raised Ant Frost-Heave | (2 or more ed Leaves (BS, 4A, and 4B) atterns (B10) Water Table //isible on Aeri c Position (D2 uitard (D3) Test (D5) Mounds (D6) e Hummocks | required) (C2) al Imagery ((LRR A) D7) |

6904

| oject/Site: | Walgrav | e Proper | ty | City/County: | Tualat | tin/Washington | San | npling Date: | 7/1 | /2020 |
|------------------------|---------------------|-------------------------|---------------------|--------------------------|---------------------|---------------------------------------|--|--|---|------------------------------|
| pplicant/Owner: | Phelan De | velopme | nt | | | State | OR | ; | Sampling Point: | 2 |
| estigator(s): | | JT | | Section, To | wnship, Range: | Sect | ion 22, To | | Range 1W | |
| ndform (hillslope, te | errace, etc.:) | | none | - | | ncave, convex, none): | | none | Slope (%): | |
| bregion (LRR): | | LRR A | \ | Lat: | | Lon | j: | | | |
| il Map Unit Name: | | | Quata | - ama loam | | | | n: | | |
| climatic/hydrologi | | | | ne of year? | Yes | X N | 0 | (if no, expla | in in Remarks) | |
| e vegetation X | Soil X | or Hy | drology | significantly dist | urbed? | Are "Normal Circumsta | nces" pres | ent? (Y/N) | Υ | |
| vegetation | | _ | | _ | | , explain any answers in | Remarks.) | , , | | • |
| | | _ | | | | | | | | |
| IMMARY OF I | FINDINGS | Attac | h site map | showing san | npling point | locations, transec | ts, impo | rtant featu | res, etc. | |
| drophytic Vegetatio | on Present? | Yes | No. | X | Is Sampled Ar | ea within | | | | |
| dric Soil Present? | | Yes _ | No | X | a Wetlan | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | s | ^ | lo X | - |
| tland Hydrology Pi | resent? | Yes | No. | X | | | | | | |
| GETATION - | | | nes of plant | ts. | | n has therefore bee | | | | |
| | | | absolute % cover | Dominant Species? | Indicator Status | Dominance Test w | orksheet: | | | |
| ee Stratum (plot | size: |) | | | | Number of Dominant S | pecies | | | |
| | | | | | | That are OBL, FACW, | or FAC: | - | | (A) |
| | | | | | | | | | | |
| | | | | | | Total Number of Domir | ant | | | |
| | | | | | | Species Across All Stra | ta: | | | (B) |
| | | | 0 | = Total Cover | | | | | | |
| oling/Shrub Stratur | <u>n</u> (plot size | /I | _) | | | Percent of Dominant S | pecies | | | |
| | | | | | | That are OBL, FACW, | or FAC: | #[| OIV/0! | (A/B) |
| | | | | | | | | | | |
| | | | | | | Prevalence Index \ | Vorkshee | | | |
| | | | | | | Total % Cover of OBL Species | _ | Multiply by: x 1 = | _ 0 | |
| | | | 0 | = Total Cover | | FACW species | | x1= | 0 | - |
| | | | | 10101 00101 | | FAC Species | 1 | x 3 = | 0 | • |
| <u>b Stratum</u> (plot | size: |) | | | | FACU Species | | x 4 = | 0 | - |
| | | | | | | UPL Species | | x 5 = | 0 | • |
| | | | | | | Column Totals | 0 | (A) | 0 | (B) |
| | | | | | | | | | | |
| | | | | | | Provolonce Index | =B/A = | #[| OIV/0! | - |
| | | | | | | Prevalence Index | 2,, , | | | |
| | | | | | | | | cators: | | |
| | | | | | | Hydrophytic Veget | ation Indi | | phytic Vegetatio | on |
| | | | | | | | ation Indi 1- Rapid | | phytic Vegetatic | on |
| | | | | = Total Cover | | | ation Indi 1- Rapid 2- Domin | Test for Hydro | 50% | on |
| | | | | = Total Cover | | | ation Indi 1- Rapid 2- Domin 3-Prevale | Test for Hydro ance Test is > ence Index is ≤ | 50% | |
| | | | | = Total Cover | | | 1- Rapid 2- Domin 3-Prevale 4-Morpho | Test for Hydro ance Test is > ence Index is ≤ ological Adapta emarks or on a | 50% 3.0 ¹ tions ¹ (provide sa separate shee | supporting |
| | | | | = Total Cover | | | 1- Rapid 2- Domin 3-Prevale 4-Morpho data in R 5- Wetlar | Test for Hydro ance Test is > ence Index is ≤ ological Adapta emarks or on a nd Non-Vascul | 50% 3.0 ¹ Itions ¹ (provide : a separate shee ar Plants ¹ | supporting t) |
| | | | | | | Hydrophytic Veget | ation Indi 1- Rapid 2- Domin 3-Prevale 4-Morpho data in R 5- Wetlar | Test for Hydro ance Test is > ence Index is ≤ blogical Adapta emarks or on a nd Non-Vascul atic Hydrophyti | 50% 3.0 ¹ ations ¹ (provide as eparate shee ar Plants ¹ c Vegetation ¹ (E | supporting t) Explain) |
| | | | | = Total Cover | | | 1- Rapid 2- Domin 3-Prevale 4-Morpho data in R 5- Wetlar Problema | Test for Hydro ance Test is > ence Index is ≤ blogical Adapta emarks or on a nd Non-Vascul atic Hydrophyti | 50% 3.0 ¹ ations ¹ (provide as eparate shee ar Plants ¹ c Vegetation ¹ (E | supporting t) Explain) |

| SOIL | | | PHS# | 6904 | | | Sampling Point: | 2 |
|--|--|------------|----------------------|---|-------------------|---------------------|---|---------------------|
| Profile Descr | iption: (Describe to t | he depth | needed to docume | nt the indicator or co | nfirm the abser | ce of indicators.) | | |
| Depth | Matrix | | | Redox Features | . 2 | | | |
| (Inches) | Color (moist) | % | Color (moist) | % Type' | Loc ² | Texture | Remarks | |
| 0-14 | 10YR 2/1 | 100 | | | | Silty Clay Loam | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | - | |
| | · | | | | · | | - | |
| | · —— | | | | | | | |
| | <u> </u> | | | | | | | |
| Гуре: C=Con | centration, D=Depletion | on, RM=Re | educed Matrix, CS= | Covered or Coated Sar | nd Grains. | | ² Location: PL=Pore Lining, M=N | Matrix. |
| • | | | | s otherwise noted. | | Indica | ators for Problematic Hydri | |
| | Histosol (A1) | | | Sandy Redo | ox (S5) | | 2 cm Muck (A10) | |
| | Histic Epipedon (A2) | | | Stripped Ma | trix (S6) | | Red Parent Materi | ial (TF2) |
| | • | | | | ky Mineral (F1) (| evcent MI RA 1) | Very Shallow Dark | |
| | Black Histic (A3) | | | | | except with 1) | | , , |
| | Hydrogen Sulfide (A4 | - | | | ed Matrix (F2) | | Other (explain in F | kemarks) |
| | Depleted Below Dark | Surface (| A11) | Depleted M | atrix (F3) | | | |
| | Thick Dark Surface (A | A12) | | Redox Dark | Surface (F6) | | 3 | |
| | Sandy Mucky Mineral | (S1) | | Depleted Da | ark Surface (F7) | | ³ Indicators of hydrophytic vegeta hydrology must be present, unl | |
| | Sandy Gleyed Matrix | (S4) | | Redox Depi | essions (F8) | | problematic. | ess disturbed of |
| Restrictive | Layer (if present): | | | | | | | |
| Туре: | , | | | | | | | |
| • • | , | | | | | | 10. 14 | |
| Depth (inche | s) | | | | | Inyunc Son Fres | sent? Yes | No X |
| HYDROLO | OGY | | | | | | | |
| Wetland Hy | drology Indicator | s: | | | | | | |
| Primary Indi | icators (minimum o | f one req | uired; check all th | nat apply) | | | Secondary Indicators (2 or | more required) |
| | Surface Water (A1) | | | | ed Leaves (B9) | Except MLRA | Water stained Lea | ` ' |
| | High Water Table (A2 | 2) | | 1, 2, 4A, an | d 4B) | | (MLRA1, 2, 4A, a | ind 4B) |
| | Saturation (A3) | | | Salt Crust (I | 311) | | Drainage Patterns | (B10) |
| | Water Marks (B1) | | | Aquatic Inve | ertebrates (B13) | | Dry-Season Wate | r Table (C2) |
| | Sediment Deposits (E | 32) | | Hydrogen S | ulfide Odor (C1) | | Saturation Visible | on Aerial Imagery (|
| | Drift Deposits (B3) | | | Oxidized Rh | nizospheres alor | g Living Roots (C3) | Geomorphic Posit | ion (D2) |
| | Algal Mat or Crust (B | 4) | | Presence of | Reduced Iron (| C4) | Shallow Aquitard (| (D3) |
| | Iron Deposits (B5) | | | Recent Iron | Reduction in Pl | owed Soils (C6) | Fac-Neutral Test (| D5) |
| | Surface Soil Cracks (| B6) | | Stunted or S | Stressed Plants | (D1) (LRR A) | Raised Ant Mound | ds (D6) (LRR A) |
| | • ` | | | | | | Frost-Heave Humi | |
| | Inundation Visible on | | agery (B7) | Other (Explain | ain in Remarks) | | | mocks (D7) |
| | Inundation Visible on Sparsely Vegetated C | Aerial Ima | , , | Other (Expl | ain in Remarks) | | | mocks (D7) |
| Field Ohse | Sparsely Vegetated C | Aerial Ima | , , | Other (Expl | ain in Remarks) | 1 | | mocks (D7) |
| | Sparsely Vegetated C | Aerial Ima | urface (B8) | | ain in Remarks) | | | mocks (D7) |
| Surface Wate | Sparsely Vegetated Crvations: | Aerial Ima | urface (B8) No X | Depth (inches): | | Wotland U. | | mocks (D7) |
| Surface Wate Water Table F | Sparsely Vegetated Crvations: r Present? Yes Present? Yes | Aerial Ima | No X | Depth (inches): | >14 | Wetland Hyd | rology Present? | . , |
| Field Obsersurface Water Water Table Faturation Pre | Sparsely Vegetated Crvations: r Present? Yes Present? Yes esent? Yes | Aerial Ima | urface (B8) No X | Depth (inches): | | Wetland Hyd | rology Present? | mocks (D7) No X |
| Surface Wate Water Table F Saturation Pre (includes capilla | Sparsely Vegetated Corvations: r Present? Yes Present? Yes esent? Yes any fringe) | Aerial Ima | No X No X No X | Depth (inches): | >14 | · | rology Present? | . , |
| Surface Wate Water Table F Saturation Pre (includes capilla | Sparsely Vegetated Corvations: r Present? Yes Present? Yes esent? Yes any fringe) | Aerial Ima | No X No X No X | Depth (inches): Depth (inches): Depth (inches): | >14 | · | rology Present? | |
| Surface Wate Water Table F Saturation Pre includes capilla | Sparsely Vegetated Corvations: r Present? Yes Present? Yes esent? Yes any fringe) | Aerial Ima | No X No X No X | Depth (inches): Depth (inches): Depth (inches): | >14 | · | rology Present? | |
| Surface Wate Water Table F Saturation Pre includes capilla | Sparsely Vegetated Corvations: r Present? Yes Present? Yes esent? Yes any fringe) | Aerial Ima | No X No X No X | Depth (inches): Depth (inches): Depth (inches): | >14 | · | rology Present? | |
| Surface Wate Water Table F Saturation Pre includes capilla Describe Rece | Sparsely Vegetated Corvations: r Present? Yes Present? Yes esent? Yes any fringe) | Aerial Ima | No X No X No X | Depth (inches): Depth (inches): Depth (inches): | >14 | · | rology Present? | |

6904

| oject/Site: | Walgrav | e Proper | rty | City/County: | Tuala | tin/Washington | San | npling Date: | 7/ | 1/2020 |
|------------------------|----------------|-----------|---------------|---------------------|---------------------------|---|-------------------------------------|------------------------------------|---|---------------|
| olicant/Owner: | Phelan De | velopme | ent | | | State | OR | 5 | Sampling Poin | t: 3 |
| estigator(s): | | JT | | Section, To | wnship, Range: | Secti | on 22, To | — ownship 2S, | · - | |
| ndform (hillslope, te | errace, etc.:) | | | _ | Local relief (cor | ncave, convex, none): | | oncave | Slope (% | |
| oregion (LRR): | | | 4 | Lat: | | Long | | | — Datum | : WSG85 |
| I Map Unit Name: | | | | - ama loam | | <u>-</u> | | n: | _ | |
| climatic/hydrologi | | | | | Yes | | | (if no, explai | |) |
| , , | | | • • | • | urbed? | Are "Normal Circumstar | | - ' | | • |
| | | _ | - | _ | | , explain any answers in R | | one: (1714) | | _ |
| vegetation | | _ 01119 | | - naturally problem | mano: minecaea | , explain any answers in it | cinario. | | | |
| MMARY OF | FINDINGS | - Attac | ch site map | showing san | npling point | locations, transect | s, impo | rtant featu | res, etc. | |
| Irophytic Vegetation | on Present? | Yes | No | X | | *** | | | | |
| Iric Soil Present? | | Yes | No | Х | Is Sampled Ar a Wetlar | 1/ | | N | o X | |
| tland Hydrology P | resent? | Yes | No | Х | | | | _ | | ' |
| narks: | | | | | | | | | | |
| nple site is lo | cated in a lo | w point | in topography | y. | | | | | | |
| | | | | | | | | | | |
| GETATION - | Use scien | tific nar | mes of plant | s. | | | | | | |
| | | | absolute | Dominant | Indicator | Dominance Test wo | rksheet: | | | |
| Ctuature () | -i | | % cover | Species? | Status | | | | | |
| <u>e Stratum</u> (plot | size: |) | 1 | | | Number of Dominant Sp | | | • | (4) |
| | | | | | | That are OBL, FACW, o | r FAC: | | 2 | _(A) |
| | | | | | | Total Number of Demine | | | | |
| | | | | | | Total Number of Domina Species Across All Strat | | | 4 | (B) |
| | | | 0 | = Total Cover | | Species Acioss Ali Strat | a. | - | - | _(D) |
| | | | | - Total Cover | | | | | | |
| ling/Shrub Stratur | | e: 15 | | v | | Percent of Dominant Sp | | _ | | (A (D) |
| Rubus armen | | | 5 | <u>X</u> | FAC | That are OBL, FACW, o | or FAC: | | 50% | _ (A/B) |
| Sambucus nig | gra | | 20 | X | FAC | Daniel and the daniel | /I I | 4. | | |
| | | | | | | Prevalence Index W | orksnee | | | |
| | | | | | | Total % Cover of OBL Species | = | Multiply by: x 1 = | _ 0 | |
| | | | 25 | = Total Cover | | FACW species | | _ x2= | 0 | _ |
| | | | | - Total Gover | | FAC Species | | x3= | 0 | _ |
| <u>b Stratum</u> (plot | size: | 5) |) | | | FACU Species | | x 4 = | 0 | _ |
| Bromus tecto | rum | | 40 | X | UPL | UPL Species | | x 5 = | 0 | |
| Leucanthemu | m vulgare | | 30 | X | FACU | Column Totals | 0 | (A) | 0 | (B) |
| Lolium pereni | ne | | 10 | | FAC | | | | | |
| | | | | | | Prevalence Index : | =B/A = | #0 | IV/0! | _ |
| | | | | | | | | | | |
| | | | | | | Hydrophytic Vegeta | | | | |
| | | | | | | | - | Test for Hydro | _ | ion |
| | | | 80 | - Total Cava | | | - | ance Test is >: ence Index is ≤ | | |
| | | | OU | = Total Cover | | | | ence index is ≤ ological Adapta | | supporting |
| | | | | | | I | - | | " separate she | |
| ody Vine Stratum | (plot size: | |) | | | | data in R | emarks or on a | i oopalato one | |
| ody Vine Stratum | (plot size: | |) | | | | | emarks or on a nd Non-Vascula | | |
| oody Vine Stratum | (plot size: | | _) | | | | 5- Wetlar | | ar Plants ¹ | (Explain) |
| ody Vine Stratum | (plot size: | <u> </u> | | = Total Cover | | ¹ Indicators of hydric soil | 5- Wetlar Problema and wetlar | nd Non-Vasculatic Hydrophytic | ar Plants ¹ c Vegetation ¹ | |
| oody Vine Stratum | (plot size: | | | = Total Cover | | disturbed or problematic | 5- Wetlar Problema and wetlar | nd Non-Vasculatic Hydrophytic | ar Plants ¹ c Vegetation ¹ | |
| ody Vine Stratum | | <u></u> | | = Total Cover | | | 5- Wetlar Problema and wetlar | nd Non-Vasculatic Hydrophytic | ar Plants ¹ c Vegetation ¹ | t, unless |

| SOIL | | | PHS# | - 65 | 004 | - | | Sampling Point: 3 |
|---|--|---------------------------------------|---|-------------------------|--|---|---|--|
| Profile Descri | ption: (Describe to | the depth i | needed to docum | ent the indi | cator or co | nfirm the absend | ce of indicators.) | |
| Depth | Matrix | | | | x Features | | | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type ' | Loc ² | Texture | Remarks |
| 0-4 | 7.5YR 3/2 | 100 | | | | | Silt Loam | |
| 4-6 | 7.5YR 2/2 | 99 | 7.5YR 4/6 | 1 | С | M | Silt Loam | Fine |
| 6-14 | 7.5YR 3/2 | 100 | | | | | Silt Loam | |
| | | | | | | · | | |
| | | | | | | | | • |
| | | | | | | | | |
| Type: C=Con | centration, D=Depleti | on, RM=Re | educed Matrix, CS | =Covered or | Coated Sar | nd Grains. | | ² Location: PL=Pore Lining, M=Matrix. |
| Hydric Soil | Indicators: (Appli | icable to | all LRRs, unle | ss otherw | ise noted. |) | Indic | cators for Problematic Hydric Soils ³ : |
| | Histosol (A1) | | | | Sandy Redo | ox (S5) | | 2 cm Muck (A10) |
| | Histic Epipedon (A2) | | | | Stripped Ma | atrix (S6) | | Red Parent Material (TF2) |
| | Black Histic (A3) | | | | | ky Mineral (F1) (e | xcept MLRA 1) | Very Shallow Dark Surface (TF12) |
| | Hydrogen Sulfide (A4 | 1) | | | - | ved Matrix (F2) | . , | Other (explain in Remarks) |
| | Depleted Below Dark | - | \11) | | Depleted Ma | , , | | culor (explain in remaile) |
| | Thick Dark Surface (| , | , | | • | Surface (F6) | | |
| | Sandy Mucky Minera | • | | | | ark Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland |
| | Sandy Mucky Millera Sandy Gleyed Matrix | | | | • | ressions (F8) | | hydrology must be present, unless disturbed or problematic. |
| Restrictive | Layer (if present) | | | | | | | |
| Depth (inche | s): | | | | - - | | Hydric Soil Pre | esent? Yes NoX |
| Depth (inche | s): | | | | - | | Hydric Soil Pre | esent? Yes NoX |
| Type: Depth (inchest Remarks: | GY | | | | - | | Hydric Soil Pre | esent? Yes NoX |
| Depth (inchest Remarks: HYDROLO Wetland Hy | IGY drology Indicator | | uirod: chock all | that apply | - | | Hydric Soil Pre | |
| Depth (inchest Remarks: HYDROLO Wetland Hy Primary Indi | OGY drology Indicator cators (minimum c | | uired; check all | | | | | Secondary Indicators (2 or more required |
| Depth (inchest Remarks: HYDROLO Wetland Hy Primary Indi | drology Indicator cators (minimum c | of one req | uired; check all | | Water stain | ed Leaves (B9) (| | Secondary Indicators (2 or more required Water stained Leaves (B9) |
| Primary Indi | drology Indicator cators (minimum o Surface Water (A1) High Water Table (A2 | of one req | uired; check all | | Water staine | ed Leaves (B9) (E d 4B) | | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| Pepth (inchest Remarks: HYDROLO Vetland Hy Primary Indi | drology Indicator cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) | of one req | uired; check all | | Water staine 1, 2, 4A, and Salt Crust (E | ed Leaves (B9) (B d 4B) B11) | | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) |
| HYDROLC Vetland Hy Primary Indi | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) | of one req | uired; check all | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve | ed Leaves (B9) (E d 4B) B11) ertebrates (B13) | | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| Primary Indi | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B | of one req | uired; check all | | Water staind 1, 2, 4A, and Salt Crust (I Aquatic Inve Hydrogen S | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) | Except MLRA | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager |
| Primary Indi | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) | of one req 2) B2) | uired; check all | | Water staine 1, 2, 4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along | Except MLRA | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) |
| Pepth (inchest Remarks: HYDROLO Vetland Hy Primary Indi | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- | of one req 2) B2) | uired; check all | | Water staine 1, 2, 4A, and Salt Crust (If Aquatic Inve Hydrogen S Oxidized Rh Presence of | ed Leaves (B9) (E d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along | Except MLRA g Living Roots (C3) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) |
| Pepth (inchesternation) Permarks: HYDROLC Vetland Hy Primary Indi | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) | of one req 2) B2) 4) | uired; check all | | Water staine 1, 2, 4A, and Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C) Reduction in Plo | Except MLRA g Living Roots (C3) (4) wed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) |
| emarks: HYDROLC Vetland Hy Primary Indi | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (| of one req 2) B2) 4) (B6) | | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C | Except MLRA g Living Roots (C3) (4) wed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| IYDROLC Vetland Hy | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on | 2) B2) 4) (B6) Aerial Image | gery (B7) | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C) Reduction in Plo | Except MLRA g Living Roots (C3) (4) wed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) |
| Pepth (inchesternarks: | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundator) | 2) B2) 4) (B6) Aerial Image | gery (B7) | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C | Except MLRA g Living Roots (C3) (4) wed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Pepth (inchesternarks: HYDROLO Vetland Hy Primary Indi | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B2 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Invations: | 2) B2) 4) (B6) Aerial Image | gery (B7) urface (B8) | | Water staine 1, 2, 4A, and Salt Crust (If Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C | Except MLRA g Living Roots (C3) (4) wed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Pepth (inchese Remarks: HYDROLO Wetland Hy Primary Indi | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Invations: | 2) B2) 4) (B6) Aerial Image | gery (B7) urface (B8) No <u>X</u> | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C) Reduction in Ploto Stressed Plants (Edini in Remarks) | Except MLRA g Living Roots (C3) (4) wed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| Pepth (inchese Remarks: HYDROLO Vetland Hy Primary Indi Field Obsertion of the Courface Water | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Covations: Present? Yes | 2) B2) 4) (B6) Aerial Image | gery (B7) urface (B8) | Depth | Water staine 1, 2, 4A, and Salt Crust (If Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) dulfide Odor (C1) nizospheres along f Reduced Iron (Cl Reduction in Plotostressed Plants (Edini in Remarks) | Except MLRA g Living Roots (C3) (4) wed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Primary Indi Field Obser Surface Water Water Table F Saturation Pre | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (C) vations: Present? Yes sent? Yes | 2) B2) 4) (B6) Aerial Image | gery (B7) urface (B8) No <u>X</u> | Depth | Water staine 1, 2, 4A, and Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C) Reduction in Ploto Stressed Plants (Edini in Remarks) | Except MLRA g Living Roots (C3) (4) wed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| Primary Indi Field Obser Surface Water Water Table F Saturation Pre includes capilla | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (C) vations: Present? Yes sent? Yes | 2) B2) 4) (B6) Aerial Imag | gery (B7) urface (B8) No X No X No X | _ Depth _ Depth _ Depth | Water staine 1, 2, 4A, and Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain (inches): (inches): (inches): | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plot Stressed Plants (Edini in Remarks) | Except MLRA g Living Roots (C3) (4) wed Soils (C6) D1) (LRR A) Wetland Hy | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| Primary Indi Field Obser Surface Water Water Table F Saturation Pre includes capilla | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (C1 Vations: Present? Yes Iresent? Yes Sent? Yes Syrfringe) | 2) B2) 4) (B6) Aerial Imag | gery (B7) urface (B8) No X No X No X | _ Depth _ Depth _ Depth | Water staine 1, 2, 4A, and Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain (inches): (inches): (inches): | ed Leaves (B9) (Ed 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plot Stressed Plants (Edini in Remarks) | Except MLRA g Living Roots (C3) (4) wed Soils (C6) D1) (LRR A) Wetland Hy | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |

6904

| Project/Site: | Walgrave P | roperty | City/County: | Tuala | tin/Washington | Sampling Date | 7/1/2 | 2020 |
|----------------------|----------------|----------------------------|---------------------|-----------------|--|--|-----------------------|------------|
| Applicant/Owner: | Phelan Develo | | - | | State: | • | Sampling Point: | 4 |
| Investigator(s): | | Т | Section, To | wnship, Range: | | on 22, Township 2 | - | |
| Landform (hillslope, | | Ditch | | | ncave, convex, none): | concave | Slope (%): | 1 |
| Subregion (LRR): | | .RR A | Lat: | • | Long: | | | WSG85 |
| Soil Map Unit Name: | | | silty clay loam | | | assification: | | |
| | | e site typical for this ti | | Yes | | | plain in Remarks) | |
| Are vegetation | | or Hydrology | significantly dist | | Are "Normal Circumstar | ` ′ | • | |
| | | | | | d, explain any answers in R | . , | <u> </u> | |
| Are vegetation | | | naturally problet | nauc: ii needed | a, explain any answers in ix | emarks. | | |
| SUMMARY OF | FINDINGS - A | Attach site map | showing san | npling point | locations, transect | s, important fea | itures, etc. | |
| Hydrophytic Vegetati | on Present? Ye | s X No | o | | | | | |
| Hydric Soil Present? | Ye | s No | X | Is Sampled Ai | | | No X | |
| Wetland Hydrology F | Present? Ye | es No | x | | | | | |
| Remarks: | | | | | | | | |
| romano. | | | | | | | | |
| | | | | | | | | |
| VEGETATION - | Use scientific | c names of plan | nts. | | | | | |
| | | absolute | Dominant | Indicator | Dominance Test wo | rksheet: | | |
| _ | | % cover | Species? | Status | | | | |
| Tree Stratum (plo | |) | | | Number of Dominant Sp | | | (A) |
| 1 Fraxinus latif | olia | 100 | X | FACW | That are OBL, FACW, or | FAC: | 3 (| (A) |
| 2 | | | | | | | | |
| 3 | | | | | Total Number of Domina | | 4 | (D) |
| 4 | | 100 | - T-4-LO | | Species Across All Strate | a: | 4 (| (B) |
| | | 100 | = Total Cover | | | | | |
| Sapling/Shrub Stratu | m (plot size: | 15) | | | Percent of Dominant Spe | ecies | | |
| 1 Crataegus me | | | <u> </u> | FAC | That are OBL, FACW, o | r FAC: | 75% | (A/B) |
| 2 Oemleria cera | asitormis | 10 | X | FACU | | | | |
| 3 | | | | | Prevalence Index W | | | |
| 5 | | | | | Total % Cover of OBL Species | Multiply I x 1 = | | |
| <u> </u> | | 40 | = Total Cover | | FACW species | x 2 = | | |
| | | | - Total Govel | | FAC Species | x 3 = | | |
| Herb Stratum (plo | t size: 5 |) | | | FACU Species | x 4 = | = 0 | |
| 1 Geranium luc | idum | 40 | X | (FAC) | UPL Species | x 5 = | = 0 | |
| 2 | | | | | Column Totals | 0 (A) | <u> </u> | (B) |
| 3 | | | | | | | | |
| 4 | | | | | Prevalence Index = | =B/A = | #DIV/0! | |
| 5 | | | | | | | | |
| 6 | | | | | Hydrophytic Vegeta | | | |
| 7 | | | | | | 1- Rapid Test for Hy | | 1 |
| 8 | | | _ T-1 1 C | | | 2- Dominance Test i | | |
| | | 40 | = Total Cover | | | 3-Prevalence Index i4-Morphological Ada | | upportina |
| Woody Vine Stratum | (plot size: |) | | | | data in Remarks or o | | |
| 1 | _ | · | | | | 5- Wetland Non-Vas | | |
| 2 | | | | | | - Problematic Hydroph | nytic Vegetation¹ (Ex | plain) |
| • | | 0 | = Total Cover | | ¹ Indicators of hydric soil | - | | |
| | | | | | disturbed or problematic | | | |
| | orh Stratum | | | | Hydrophytic Vegetation | Vos V | No | |
| % Baro Craundin !! | ะเม อแสเนเน | | | | vegetation | Yes X | No_ | |
| % Bare Ground in He | | | | | Present? | - | | |

| | PHS # | 6904 | | Sampling Point: 4 |
|--|--|---|--|--|
| Profile Description: (Describe to the de | pth needed to docume | nt the indicator or conf | irm the absence of indicate | ors.) |
| Depth Matrix | | Redox Features | | |
| (Inches) Color (moist) % | Color (moist) | % Type¹ | Loc ² Texture | e Remarks |
| 0-14 10YR 3/2 100 | <u> </u> | · · | Silt Loa | m |
| <u> </u> | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Type: C=Concentration, D=Depletion, BM | I-Paduaad Matrix, CS- | Covered or Costed Sand | Crains | ² Location: PL=Pore Lining, M=Matrix. |
| Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators: (Applicable | | | | Indicators for Problematic Hydric Soils ³ : |
| Histosol (A1) | to an Errito, amoo | Sandy Redox | | 2 cm Muck (A10) |
| | | Stripped Matr | | |
| Histic Epipedon (A2) | | ·· | , | Red Parent Material (TF2) |
| Black Histic (A3) | | | Mineral (F1) (except MLRA 1) | |
| Hydrogen Sulfide (A4) | | Loamy Gleye | • • | Other (explain in Remarks) |
| Depleted Below Dark Surface | ce (A11) | Depleted Mat | ` , | |
| Thick Dark Surface (A12) | | Redox Dark S | Surface (F6) | ³ Indicators of hydrophytic vegetation and wetland |
| Sandy Mucky Mineral (S1) | | Depleted Dar | k Surface (F7) | hydrology must be present, unless disturbed or |
| Sandy Gleyed Matrix (S4) | | Redox Depre | ssions (F8) | problematic. |
| Restrictive Layer (if present): | | | | |
| Depth (inches): | | | nyuric Soi | Il Present? Yes NoX |
| Remarks: | | | | |
| | | | | |
| | | | | |
| | | | | |
| HYDROLOGY | | | | |
| Wetland Hydrology Indicators: | | | | |
| | | | | |
| Primary Indicators (minimum of one | required; check all t | nat apply) | | Secondary Indicators (2 or more required) |
| Surface Water (A1) | required; check all t | Water stained | Leaves (B9) (Except MLRA | Water stained Leaves (B9) |
| , | required; check all t | , | | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| Surface Water (A1) | required; check all t | Water stained | 4B) | Water stained Leaves (B9) |
| Surface Water (A1) High Water Table (A2) | required; check all t | Water stained 1, 2, 4A, and Salt Crust (B1 | 4B) | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| Surface Water (A1) High Water Table (A2) Saturation (A3) | required; check all t | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert | 4B) | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) | required; check all t | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert | 4B) 11) tebrates (B13) | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (|
| Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) | required; check all t | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz | 4B) I1) tebrates (B13) fide Odor (C1) | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (|
| Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) | required; check all t | Water stained 1, 2, 4A, and Salt Crust (B¹ Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F | 4B) 11) tebrates (B13) fide Odor (C1) toospheres along Living Roots | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) |
| Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) | required; check all t | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R | 4B) I1) tebrates (B13) fide Odor (C1) tospheres along Living Roots Reduced Iron (C4) | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) |
| 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) | | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str | 4B) I1) tebrates (B13) fide Odor (C1) cospheres along Living Roots Reduced Iron (C4) teduction in Plowed Soils (C6) | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) |
| 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) Surface Soil Cracks (B6) | Imagery (B7) | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str | 4B) (11) (bebrates (B13)) (fide Odor (C1)) (cospheres along Living Roots (Reduced Iron (C4)) (deduction in Plowed Soils (C6)) (ressed Plants (D1) (LRR A)) | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concav | Imagery (B7) | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str | 4B) (11) (bebrates (B13)) (fide Odor (C1)) (cospheres along Living Roots (Reduced Iron (C4)) (deduction in Plowed Soils (C6)) (ressed Plants (D1) (LRR A)) | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concav | Imagery (B7) | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or Str | 4B) (11) (bebrates (B13)) (fide Odor (C1)) (cospheres along Living Roots (Reduced Iron (C4)) (deduction in Plowed Soils (C6)) (ressed Plants (D1) (LRR A)) | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concav Field Observations: Surface Water Present? Yes | Imagery (B7) re Surface (B8) | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sull Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain | 4B) Ith property of the prope | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concav Field Observations: Surface Water Present? Yes Water Table Present? Yes | Imagery (B7) re Surface (B8) No X No X | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Stunted or St Other (Explain Depth (inches): | 4B) In the property of the pr | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) d Hydrology Present? |
| 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concav Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes | Imagery (B7) re Surface (B8) | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Invert Hydrogen Sull Oxidized Rhiz Presence of F Recent Iron R Stunted or Str Other (Explain | 4B) Ith property of the prope | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concav Field Observations: Surface Water Present? Yes Water Table Present? Yes | Imagery (B7) Ye Surface (B8) No X No X No X | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverted the Hydrogen Sulter of Fresence of Fresence of Stunted or | 4B) In the property of the pr | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) d Hydrology Present? |
| 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concav Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) | Imagery (B7) Ye Surface (B8) No X No X No X | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverted the Hydrogen Sulter of Fresence of Fresence of Stunted or | 4B) In the property of the pr | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) d Hydrology Present? |
| 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concav Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe] | Imagery (B7) Ye Surface (B8) No X No X No X | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverted the Hydrogen Sulter of Fresence of Fresence of Stunted or | 4B) In the property of the pr | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) d Hydrology Present? |
| 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concav Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, n | Imagery (B7) Ye Surface (B8) No X No X No X | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverted the Hydrogen Sulter of Fresence of Fresence of Stunted or | 4B) In the property of the pr | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) d Hydrology Present? |
| 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) Surface Soil Cracks (B6) Inundation Visible on Aerial Sparsely Vegetated Concav Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe] | Imagery (B7) Ye Surface (B8) No X No X No X | Water stained 1, 2, 4A, and Salt Crust (B1 Aquatic Inverted the Hydrogen Sulter of Fresence of Fresence of Stunted or | 4B) In the property of the pr | Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) d Hydrology Present? |

6904

| ject/Site: Walgra | ve Prope | rty | City/County: | Tuala | tin/Washington | Sampling Date | : 7/1/ | /2020 |
|---|------------|------------|------------------------------------|------------------|--|---|-----------------------------------|------------|
| pplicant/Owner: Phelan Development ovestigator(s): JT | | ent | | State: | | | Sampling Point: | 5 |
| | | | | ownship, Range: | Sectio | n 22, Township | 2S, Range 1W | |
| dform (hillslope, terrace, etc.:) | | FI | at | Local relief (co | ncave, convex, none): | none | Slope (%): | 1 |
| region (LRR): | LRR A | A | Lat: | | Long: | | Datum: | WSG85 |
| Map Unit Name: | | Verbo | ort silty clay loam | | | ssification: | | |
| climatic/hydrologic conditions | | | | Yes | | | plain in Remarks) | |
| vegetation X Soil | | | | turbed? | Are "Normal Circumstand | | | |
| vegetation Soil | | | | | | , , , | | |
| | | , u. c.egy | | | ., o.p.a a, aee.e | | | |
| MMARY OF FINDINGS | S – Attac | ch site m | ap showing sar | npling point | locations, transects | s, important fea | atures, etc. | |
| ophytic Vegetation Present? | Yes | X | No | Is Sampled A | wa a sedda in | | | |
| ic Soil Present? | Yes | | No X | a Wetla | | | No X | |
| and Hydrology Present? | Yes | X | No | | | | | |
| arks: | | | <u> </u> | | | | | |
| sample area is grazed. | | | | | | | | |
| | | | | | | | | |
| GETATION - Use scie | ntific naı | mes of p | lants. | | | | | |
| | | absolu | | Indicator | Dominance Test wor | ksheet: | | |
| Stratum (plot size: | 30 | % cove | er Species? | Status | Number of Deminent C | cios | | |
| Fraxinus latifolia | | 40 | X | FACW | Number of Dominant Spe That are OBL, FACW, or | | 4 | (A) |
| Taxinus lautona | | | | IACV | That are OBL, I ACW, or | | | (^) |
| | | - | | | Total Number of Dominan | ıt | | |
| | | | | | Species Across All Strata | | 5 | (B) |
| | | 40 | = Total Cover | | ' | | | () |
| ling/Shrub Stratum (plot siz | 1 <u>5</u> | ` | | | Devent of Deminent Con- | -i | | |
| Rubus armeniacus | ze: 15 | _' 20 | X | FAC | Percent of Dominant Spec That are OBL, FACW, or | | 80% | (A/B) |
| Crataegus monogyna | | 10 | $-\frac{\lambda}{X}$ | FAC | That are OBE, I ACW, Or | | 0078 | (A/D) |
| Rosa pisocarpa | | 5 | | FAC | Prevalence Index Wo | orksheet: | | |
| | | | | | Total % Cover of | Multiply | by: | |
| | | | | | OBL Species | x 1 | | |
| | | 35 | = Total Cover | | FACW species | x 2 | = 0 | |
| | | | | | FAC Species | x 3 | = 0 | |
| Stratum (plot size: | 5) |) | | | FACU Species | x 4 | = 0 | |
| Leucanthemum vulgare | | 50 | X | FACU | UPL Species | x 5 | | |
| Agrostis capillaris | | 30 | X | FAC | Column Totals | 0 (A) | 0 | (B) |
| Prunella vulgaris | | | _ | FACU | | | "DD "01 | |
| Parentucellia viscosa | | 5 | | FAC | Prevalence Index = | B/A = | #DIV/0! | |
| | | | | | Hydrophytic Vegetati | ion Indicators: | | |
| | | - | | | | 1- Rapid Test for Hy | dronhytic Vegetatio | n |
| | | | | | | 1- Rapid Test for Hy 2- Dominance Test i | - | |
| | | 105 | = Total Cover | | | 3-Prevalence Index | | |
| | | | <u> </u> | | | 4-Morphological Ada | aptations ¹ (provide s | supporting |
| dy Vine Stratum (plot size: | | _) | | | | data in Remarks or | on a separate sheet | i) |
| | | | | | | 5- Wetland Non-Vas | | |
| | | | | | | Problematic Hydrop | | |
| | | 0 | = Total Cover | | ¹ Indicators of hydric soil a | nd wetland hydrolog | y must be present, | unless |
| | | | | | disturbed or problematic. | | | |
| | | | | | Hydronhytic | | | |
| are Ground in Herb Stratum | | | | | Hydrophytic Vegetation | Yes X | No | |

| Depth (Inches) 0-3 3-14 Type: C=Concentr Hydric Soil Indi | Matrix Color (moist) 10YR 2/1 10YR 2/1 | 97 100 | Color (moist) 7.5YR 4/6 | Redox Fea | | Texture Silty Clay Loam Silty Clay Loam | Remarks | | | |
|--|--|---|-------------------------|----------------------------|-----------------------------------|---|--|--|--|--|
| (Inches) 0-3 3-14 Type: C=Concentr Hydric Soil Indi | 10YR 2/1 10YR 2/1 | 97 | | % T | ype ¹ Loc ² | Silty Clay Loam | Remarks | | | |
| 0-3 3-14 Type: C=Concentr Hydric Soil Indi | 10YR 2/1 10YR 2/1 | 97 | | | · | Silty Clay Loam | Remarks | | | |
| 3-14 Type: C=Concentrelydric Soil Indi | 10YR 2/1 | | 7.5YR 4/6 | | C PL | | | | | |
| Type: C=Concentr | | 100 | | | | Silty Clay Loam | | | | |
| lydric Soil Indi | ration, D=Depletion | | | | | | | | | |
| lydric Soil Indi | ration, D=Depletion | | | | | | | | | |
| lydric Soil Indi | ration, D=Depletion | | | | | _ | | | | |
| lydric Soil Indi | ration, D=Depletion | · | | | | | | | | |
| lydric Soil Indi | ration, D=Depletior | <u> </u> | | | | | | | | |
| ydric Soil Indi | ration, D=Depletior | | _ | | | | | | | |
| lydric Soil Indi | ration, D=Depletior | | | | | _ | | | | |
| _ | | n, RM=Red | duced Matrix, CS= | Covered or Coa | ted Sand Grains. | | ² Location: PL=Pore Lining, M=Matrix. | | | |
| | icators: (Applic | | | | | Indica | itors for Problematic Hydric Soils ³ : | | | |
| Histo | osol (A1) | | | | dy Redox (S5) | | 2 cm Muck (A10) | | | |
| Histi | c Epipedon (A2) | | | Strip | ped Matrix (S6) | | Red Parent Material (TF2) | | | |
| | k Histic (A3) | | | | ny Mucky Mineral (F1 | 1) (except MLRA 1) | Very Shallow Dark Surface (TF12 | | | |
| | rogen Sulfide (A4) | | | | ny Gleyed Matrix (F2) | | Other (explain in Remarks) | | | |
| | leted Below Dark S | Surface (A | 11) | | eted Matrix (F3) | , | | | | |
| | k Dark Surface (A | • | • • • • | | ox Dark Surface (F6) | | | | | |
| | dy Mucky Mineral (| • | | | eted Dark Surface (F | | ³ Indicators of hydrophytic vegetation and wetlan | | | |
| | dy Mucky Milleral (dy Gleyed Matrix (\$ | • | | | ox Depressions (F8) | • / | hydrology must be present, unless disturbed or problematic. | | | |
| | |) —) — — — — — — — — — — — — — — — — — | | | Depressions (1 0) | <u> </u> | ргометнаце. | | | |
| _ | er (if present): | | | | | | | | | |
| ype: | | | | | | | | | | |
| epth (inches): | | | | | | Hydric Soil Pres | ent? Yes No X | | | |
| IYDROLOGY Vetland Hydrol | logy Indicators | : | | | | | | | | |
| Primary Indicato | rs (minimum of | one requ | uired; check all th | hat apply) | | | Secondary Indicators (2 or more require | | | |
| Surfa | ace Water (A1) | | | Wate | er stained Leaves (B9 | 9) (Except MLRA | Water stained Leaves (B9) | | | |
| High | Water Table (A2) | | | 1, 2, | 4A, and 4B) | | (MLRA1, 2, 4A, and 4B) | | | |
| Satu | ration (A3) | | | Salt | Crust (B11) | | Drainage Patterns (B10) | | | |
| Wate | er Marks (B1) | | | Aqua | atic Invertebrates (B1 | 3) | Dry-Season Water Table (C2) | | | |
| Sedi | ment Deposits (B2 | <u>'</u> .) | | Hydr | ogen Sulfide Odor (C | C1) | Saturation Visible on Aerial Image | | | |
| Drift | Deposits (B3) | | | X Oxid | ized Rhizospheres al | long Living Roots (C3) | Geomorphic Position (D2) | | | |
| Algal Mat or Crust (B4) | | | | Pres | ence of Reduced Iror | n (C4) | Shallow Aquitard (D3) | | | |
| Iron Deposits (B5) | | | | Rece | ent Iron Reduction in | Plowed Soils (C6) | Fac-Neutral Test (D5) | | | |
| Iron | | Surface Soil Cracks (B6) | | | | ts (D1) (LRR A) | Raised Ant Mounds (D6) (LRR A) | | | |
| | ace Soil Cracks (B | 6) | | | | | Frost-Heave Hummocks (D7) | | | |
| Surfa | ace Soil Cracks (B dation Visible on A | • | ery (B7) | Othe | r (Explain in Remark | s) | | | | |
| Surfa Inune | • | erial Imag | , , , | Othe | r (Explain in Remark | rs) | (=1) | | | |
| Surfa Inund Spar | dation Visible on A | erial Imag | , , , | Othe | er (Explain in Remark | (s) | | | | |
| Surfa Inuno Spar Tield Observati | dation Visible on A | erial Imag | , , , | Othe | | (5) | | | | |
| Surfa Inune Spar Field Observati Surface Water Pres | dation Visible on A rsely Vegetated Colons: sent? Yes | erial Imag | rface (B8) | | es): | _ | rology Present? | | | |
| Surfa Inund Spar Field Observati Surface Water Prese Vater Table Prese Saturation Present | dation Visible on A rsely Vegetated Colons: sent? Yes ent? Yes ? Yes | erial Imag | rface (B8) | Depth (inch | nes): >14 | _ | | | | |
| Surfa Inune Spar Field Observati Surface Water Prese Water Table Prese Saturation Present' includes capillary frin | dation Visible on A rsely Vegetated Colons: sent? Yes | erial Imag | No X No X No X | Depth (inch Depth (inch | nes): >14 nes): >14 | Wetland Hydi | rology Present? | | | |
| Surfa Inune Spar Field Observati Surface Water Prese Water Table Prese Saturation Present' includes capillary frin | dation Visible on A rsely Vegetated Colons: sent? Yes | erial Imag | No X No X No X | Depth (inch Depth (inch | nes): >14 | Wetland Hydi | rology Present? | | | |
| Surfa Inune Spar Field Observati Surface Water Prese Vater Table Prese Saturation Present' ncludes capillary frin | dation Visible on A rsely Vegetated Colons: sent? Yes | erial Imag | No X No X No X | Depth (inch Depth (inch | nes): >14 nes): >14 | Wetland Hydi | rology Present? | | | |

6904

| Project/Site: Walgrave | | rave Property | | Tuala | tin/Washington | Sampling Date: | 7/1 | /2020 | |
|--|---------------|---------------|------------------------|------------------|---|---|---------------------------------|------------|--|
| Applicant/Owner: Phelan Development nvestigator(s): JT | | ent | | | State: | OR | Sampling Point: | 6 | |
| | | | Section, Township, Ran | | Section | 22, Township 2 | S, Range 1W | | |
| ndform (hillslope, terrace, e | etc.:) | FI | at | Local relief (co | ncave, convex, none): | none | Slope (%): | 1 | |
| bregion (LRR): | LRR | A | Lat: | | Long: | | Datum: | WSG8 | |
| il Map Unit Name: | | | ish mucky clay | | | sification: | | | |
| e climatic/hydrologic condit | | | | Yes | X No | (if no, exp | lain in Remarks) | | |
| e vegetation X Soil | X or H | ydrology | significantly dist | urbed? | Are "Normal Circumstance | es" present? (Y/N) | Υ | | |
| | | • | | | d, explain any answers in Ren | narks.) | | | |
| <u> </u> | | | | | | , | | | |
| IMMARY OF FINDI | NGS - Atta | ch site m | ap showing sar | npling point | locations, transects, | important feat | tures, etc. | | |
| drophytic Vegetation Prese | ent? Yes | Х | No | Is Sampled A | rea within | | | | |
| dric Soil Present? | Yes | | No X | a Wetla | | | No X | | |
| tland Hydrology Present? | Yes | | No X | | | | | | |
| narks: | | | | 1 | | | | | |
| nple point is located | within a rec | ently plow | red field. | | | | | | |
| | | | | | | | | | |
| GETATION - Use s | cientific na | mes of p | lants. | | | | | | |
| | | absolut | | Indicator | Dominance Test work | sheet: | | | |
| Stratum (plot size: | , | % cove | r Species? | Status | Number of Descious C | iaa | | | |
| e Stratum (plot size: | |) | | | Number of Dominant Spec | | 4 | (A) | |
| | | | | | That are OBL, FACW, or F | AC: | 1 | (A) | |
| | | - | | | Total Number of Deminent | | | | |
| | | | | | Total Number of Dominant Species Across All Strata: | | 1 | (B) | |
| | | 0 | = Total Cover | | Opedes Adioss Ali Otiata. | - | | (D) | |
| | | | | | | | | | |
| ling/Shrub Stratum (pl | ot size: | _) | | | Percent of Dominant Spec | | | (4.5) | |
| | | | | | That are OBL, FACW, or I | -AC: | 100% | (A/B) | |
| | | | | | Durandan and Index Ma | -ll4- | | | |
| | | | | | Prevalence Index Wo | | | | |
| | | | | | Total % Cover of OBL Species | <u>Multiply by</u> x 1 = | | | |
| | | 0 | = Total Cover | | FACW species | x 1 = | | | |
| | | | Total Cover | | FAC Species | x 3 = | 0 | | |
| <u>b Stratum</u> (plot size: | 5 |) | | | FACU Species | x 4 = | | | |
| Phalaris arundinace | a | 20 | X | FACW | UPL Species | x 5 = | 0 | | |
| | | | | | Column Totals | 0 (A) | 0 | (B) | |
| | | | _ | | | | | | |
| | | | | | Prevalence Index =B | /A = | #DIV/0! | | |
| | | | | | | | | | |
| | | | | | Hydrophytic Vegetation | on Indicators: | | | |
| | | | | | | - Rapid Test for Hyd | | n | |
| | | | | | | - Dominance Test is | | | |
| | | 20 | = Total Cover | | | -Prevalence Index is -Morphological Adap | | supporting | |
| | sizo: |) | | | | ata in Remarks or or | | | |
| ody Vine Stratum (plot s | SIZE. | _′ | | | | - Wetland Non-Vasc | _ | -, | |
| ody Vine Stratum (plot s | | | | | | | vtic Vegetation ¹ (E | xplain) | |
| | | - | | | P | | | | |
| ody Vine Stratum (plot s | | 0 | = Total Cover | | I. — | | | unless | |
| oody Vine Stratum (plot s | | 0 | = Total Cover | | ¹ Indicators of hydric soil an disturbed or problematic. | | | unless | |
| ody Vine Stratum (plot s | | 0 | = Total Cover | | ¹ Indicators of hydric soil an | | must be present, | unless | |

| | | | PHS# | 6904 | | | Sampling Point: | <u> 6</u> | |
|---|--|--|-----------------------------------|--|--|--|---|---|--|
| Profile Desc | ription: (Describe to t | he depth i | needed to docume | nt the indicator or co | nfirm the abser | ce of indicators.) | | | |
| Depth | Matrix | | | Redox Features | . 2 | | | | |
| (Inches) | Color (moist) | % | Color (moist) | % Type' | Loc ² | Texture | Rema | rks | |
| 0-14 | 10YR 3/1 | 100 | | | | Silty Clay Loam | | | |
| | | | | | | | | | |
| | | | | | - | | | | |
| | | - | | | , | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Type: C=Co | ncentration, D=Depletion | on RM=Re | educed Matrix CS= | Covered or Coated Sa | nd Grains | | ² Location: PL=Pore Lining, | M=Matrix | |
| | I Indicators: (Applie | | | | | Indic | ators for Problematic Hy | | |
| • | Histosol (A1) | | | Sandy Red | | | 2 cm Muck (A | | |
| | Histic Epipedon (A2) | | | Stripped Ma | | | Red Parent M | • | |
| | _ | | | | | avecut MI DA 4) | | | |
| | Black Histic (A3) | | | | ky Mineral (F1) (| except MLRA 1) | | Dark Surface (TF12) | |
| | Hydrogen Sulfide (A4) | | | Loamy Gley | ed Matrix (F2) | | Other (explain | in Remarks) | |
| | _Depleted Below Dark | Surface (A | A11) | Depleted M | atrix (F3) | | | | |
| | Thick Dark Surface (A | 12) | | Redox Dark | Surface (F6) | | | | |
| | Sandy Mucky Mineral | (S1) | | Depleted D | ark Surface (F7) | | ³ Indicators of hydrophytic ve hydrology must be present | | |
| | Sandy Gleyed Matrix (| (S4) | | Redox Dep | ressions (F8) | | | problematic. | |
| Restrictive | Layer (if present): | | | | | | | | |
| Туре: | | | | | | | | | |
| Depth (inche | | | | | | Hydric Soil Pres | sent? Yes | No X | |
| Remarks: | | | | | | , | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Wetland H | ydrology Indicators | | | | | | | | |
| Wetland H | ydrology Indicators dicators (minimum of | | uired; check all tl | , , | (00) | Toward M. D.A. | Secondary Indicators (2 | | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) | f one req | uired; check all tl | Water stain | ed Leaves (B9) | Except MLRA | Water stained | Leaves (B9) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 | f one req | uired; check all tl | Water stain | nd 4B) | (Except MLRA | Water stained (MLRA1, 2, 4 | Leaves (B9) IA, and 4B) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) | f one req | uired; check all tl | Water stain 1, 2, 4A, ar Salt Crust (| nd 4B) B11) | Except MLRA | Water stained (MLRA1, 2, 4 Drainage Patt | I Leaves (B9) IA, and 4B) erns (B10) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 | f one req | uired; check all tl | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv | nd 4B) B11) ertebrates (B13) | | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W | I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) | f one req | uired; check all tl | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv | nd 4B) B11) | | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W | I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) | f one req | uired; check all tl | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) | | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W | I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) sible on Aerial Imagery (| |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B | f one req | uired; check all tl | Water stain 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) | g Living Roots (C3) | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis | I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) | f one req | uired; check all tl | Water stain 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Invi Hydrogen S Oxidized Ri Presence o | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres alor | g Living Roots (C3) C4) | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F | I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 | f one req | uired; check all tl | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alor f Reduced Iron (| g Living Roots (C3) C4) owed Soils (C6) | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit X Fac-Neutral T | I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | f one req (2) (2) (32) (4) (86) | | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres alor f Reduced Iron (Reduction in Pl | g Living Roots (C3) C4) owed Soils (C6) | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit. X Fac-Neutral T Raised Ant Mo | I Leaves (B9) IA, and 4B) Ierns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) ard (D3) Fest (D5) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E | f one req | gery (B7) | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres alor f Reduced Iron (Reduction in Pl Stressed Plants | g Living Roots (C3) C4) owed Soils (C6) | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit. X Fac-Neutral T Raised Ant Mo | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) est (D5) ounds (D6) (LRR A) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated C | f one req | gery (B7) | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres alor f Reduced Iron (Reduction in Pl Stressed Plants | g Living Roots (C3) C4) owed Soils (C6) | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit. X Fac-Neutral T Raised Ant Mo | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) est (D5) ounds (D6) (LRR A) | |
| Wetland H | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B Inundation Visible on A Sparsely Vegetated C | f one req | gery (B7) urface (B8) | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S Other (Expl | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres alor f Reduced Iron (Reduction in Pl Stressed Plants | g Living Roots (C3) C4) owed Soils (C6) | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit. X Fac-Neutral T Raised Ant Mo | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) est (D5) ounds (D6) (LRR A) | |
| Primary Ind Primary Ind Field Obse Surface Water | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on A Sparsely Vegetated C ervations: er Present? Yes | f one req | gery (B7) urface (B8) | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iron Stunted or 3 Other (Expl | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres alor f Reduced Iron (n Reduction in Pl Stressed Plants ain in Remarks) | g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit X Fac-Neutral T Raised Ant Mo Frost-Heave H | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) est (D5) ounds (D6) (LRR A) | |
| Primary Ind Primary Ind Field Obse Surface Water Table | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B Inundation Visible on a Sparsely Vegetated C Prvations: er Present? Yes Present? Yes | f one req | gery (B7) urface (B8) No X No X | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized Ri Presence o Recent Iron Stunted or S Other (Expl | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alor f Reduced Iron (Reduction in Pl Stressed Plants ain in Remarks) | g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit X Fac-Neutral T Raised Ant Mo Frost-Heave F | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) vest (D5) ounds (D6) (LRR A) Hummocks (D7) | |
| Field Obse Surface Water Table Saturation Pr | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on a Sparsely Vegetated C ervations: er Present? Yes Present? Yes Present? Yes | f one req | gery (B7) urface (B8) | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized RI Presence o Recent Iron Stunted or 3 Other (Expl | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) nizospheres alor f Reduced Iron (n Reduction in Pl Stressed Plants ain in Remarks) | g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit X Fac-Neutral T Raised Ant Mo Frost-Heave H | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) est (D5) ounds (D6) (LRR A) | |
| Field Obse Surface Water Table Saturation Pr (includes capill.) | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on a Sparsely Vegetated C ervations: er Present? Yes Present? Yes Present? Yes | f one req | gery (B7) urface (B8) No | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alor of Reduced Iron (na Reduction in Plastressed Plants ain in Remarks) >14 >14 | g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) Wetland Hyd | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit X Fac-Neutral T Raised Ant Mo Frost-Heave F | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (C2) ard (D3) vest (D5) ounds (D6) (LRR A) Hummocks (D7) | |
| Field Obse Surface Water Table Saturation Pr (includes capill.) | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B1) Inundation Visible on A Sparsely Vegetated C Prvations: er Present? Yes Present? Yes Present? Yes ary fringe) | f one req | gery (B7) urface (B8) No | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alor of Reduced Iron (na Reduction in Plastressed Plants ain in Remarks) >14 >14 | g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) Wetland Hyd | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit X Fac-Neutral T Raised Ant Mo Frost-Heave F | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) vest (D5) ounds (D6) (LRR A) Hummocks (D7) | |
| Field Obse Surface Water Table Saturation Pr (includes capill.) | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B1) Inundation Visible on A Sparsely Vegetated C Prvations: er Present? Yes Present? Yes Present? Yes ary fringe) | f one req | gery (B7) urface (B8) No | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alor of Reduced Iron (na Reduction in Plastressed Plants ain in Remarks) >14 >14 | g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) Wetland Hyd | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit X Fac-Neutral T Raised Ant Mo Frost-Heave F | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) vest (D5) ounds (D6) (LRR A) Hummocks (D7) | |
| Field Obse Surface Water Table Saturation Pr (includes capille) | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B1) Inundation Visible on A Sparsely Vegetated C Prvations: er Present? Yes Present? Yes Present? Yes ary fringe) | f one req | gery (B7) urface (B8) No | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alor of Reduced Iron (na Reduction in Plastressed Plants ain in Remarks) >14 >14 | g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) Wetland Hyd | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit X Fac-Neutral T Raised Ant Mo Frost-Heave F | I Leaves (B9) IA, and 4B) Herns (B10) Vater Table (C2) Hobible on Aerial Imagery (Position (D2) Herns (D3) Herns (D5) Hounds (D6) (LRR A) Hummocks (D7) | |
| Field Obse Surface Water Table Saturation Princludes capilla | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B1) Inundation Visible on A Sparsely Vegetated C Prvations: er Present? Yes Present? Yes Present? Yes ary fringe) | f one req | gery (B7) urface (B8) No | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alor of Reduced Iron (na Reduction in Plastressed Plants ain in Remarks) >14 >14 | g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) Wetland Hyd | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit X Fac-Neutral T Raised Ant Mo Frost-Heave F | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) vest (D5) ounds (D6) (LRR A) Hummocks (D7) | |
| Field Obse Surface Water Table Saturation Pr (includes capill.) | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B1) Inundation Visible on A Sparsely Vegetated C Prvations: er Present? Yes Present? Yes Present? Yes ary fringe) | f one req | gery (B7) urface (B8) No | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl | ad 4B) B11) ertebrates (B13) Sulfide Odor (C1) hizospheres alor of Reduced Iron (na Reduction in Plastressed Plants ain in Remarks) >14 >14 | g Living Roots (C3) C4) bwed Soils (C6) (D1) (LRR A) Wetland Hyd | Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit X Fac-Neutral T Raised Ant Mo Frost-Heave F | I Leaves (B9) IA, and 4B) verns (B10) Vater Table (C2) sible on Aerial Imagery (C2) ard (D3) est (D5) ounds (D6) (LRR A) Hummocks (D7) | |

6904

| Project/Site: Walgrave Property | | Cit | City/County: Tualatin/Washi | | | /Washington Sampling Date: | | | 9/15/2021 | | | | |
|---------------------------------|-----------------|---------------|-----------------------------|-------------|-------------|----------------------------|----------------------------|---------------|------------|------------------------------|--------------------|------------|-----------|
| Applicant/Owner: | Phelan De | evelopme | nt | | | | | State: | OR | | Samplin | g Point: | 7 |
| Investigator(s): | | TF/MS | | | Section, To | ownship, Range: | | | n 22, Tov | 2, Township 2S, Range 1W | | e 1W | |
| Landform (hillslope, | terrace, etc.:) | | Slo | ре | | Local relief (cor | ncave, convex, | | | one | | pe (%): | 5 |
| Subregion (LRR): | · | LRR A | <u> </u> | | Lat: | | | Long: | | | | Datum: | WSG85 |
| Soil Map Unit Name | : | | Q | uatama | loam | | | | | | | one - | |
| Are climatic/hydrolog | | on the site t | | | | Yes | X | | | (if no, expl | | marks) | |
| Are vegetation | - | | drology | - | | turbed? | Are "Normal | • | | • * | | | |
| Are vegetation | | | drology | | | matic? If needed | | | • | (- / | | | |
| | | | | | , | | ,, | | , | | | | |
| SUMMARY OF | FINDINGS | – Attac | h site m | ap sho | wing sar | mpling point | locations, | transects | s, import | tant feat | ures, e | tc. | |
| Hydrophytic Vegetat | ion Present? | Yes | X | No | | Is Sampled Ar | oo within | | | | | | |
| Hydric Soil Present? | , | Yes | Х | | | a Wetlar | | Yes | Х | _ | No | | |
| Wetland Hydrology F | Present? | Yes | Х | No | | | | | | | | | |
| Remarks: | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| VEGETATION - | - Use scien | ntific nar | nes of p | lants. | | | | | | | | | |
| | | | absolut | | minant | Indicator | Dominance | e Test wor | ksheet: | | | | |
| Tree Stratum (plo | ıt size: | 1 | % cove | əi <u>S</u> | pecies? | Status | Number of Do | ominant Sec | ries | | | | |
| 1 | . 5,20. | | | | | | That are OBL | • | | | 3 | | (A) |
| 2 | | | | | | | That are OBL | ., 17.077, 01 | 1710. | | | | (* () |
| 3 | | | | | | | Total Number | of Dominar | nt | | | | |
| 4 | | | | | | | Species Acro | | | | 3 | | (B) |
| | | | 0 | = To | otal Cover | | | | | | | | ` , |
| Sapling/Shrub Stratu | ım (plot size | o: 15 | ` | _ | | | Doroont of Do | minant Cna | oioo | | | | |
| 1 Rubus armer | | e: 15 | _ ⁾ 40 | | X | FAC | Percent of Do That are OBL | • | | | 100% | | (A/B) |
| 2 Crataegus m | | | 20 | | X | FAC | That are Obl | ., 1 ACVV, 01 | TAO. | | 100 /0 | | (7/15) |
| 3 Rosa sp | <u></u> | | 10 | | | (FAC) | Prevalence | Index Wo | orksheet: | | | | |
| 4 | | | | | | | Total % Cove | er of | | Multiply by | : | | |
| 5 | | | | | | | OBL Sp | ecies | | x 1 = | _ | 0 | |
| | | , | 70 | = To | otal Cover | | FACW s | pecies | | x 2 = | | 0 | |
| | | | | <u> </u> | | | FAC Sp | ecies | | x 3 = | | 0 | |
| | t size: | 5) | | | | | FACU S | | | x 4 = | | 0 | |
| 1 Unidentified | | | 70 | | Х | (FAC) | UPL Sp | • | | x 5 = | | 0 | |
| 2 Mentha pule | | | 10 | | | OBL | Column | Totals | 0 | (A) | | 0 (| (B) |
| 3 Madia glome 4 Leucanthemi | | | 5 | | | FACU FACU | D | man level | D/A - | ш | DIV/0! | | |
| 4 <u>Leucantnemo</u> 5 | um vuigare | | | | | FACU | Prevale | nce Index = | B/A = | # | יייוטו | | |
| 6 | | | | | | | Hydrophyti | ic Venetat | ion Indic | atore: | | | |
| 7 | | | | | | | liyaropnya | _ | | est for Hydr | onhytic V | egetation | 1 |
| 8 | | | | | | | | | - | nce Test is | | 5-121101 | |
| | | | 87 | = To | otal Cover | | | | 3-Prevalen | ce Index is | ≤ 3.0 ¹ | | |
| | | | | _ | | | | | 4-Morpholo | gical Adapt | ations¹ (p | orovide si | upporting |
| Woody Vine Stratum | n (plot size: | | _) | | | | | | | narks or on | | | |
| 1 | | | | | | | | | | Non-Vascu | | | |
| 2 | | | | | | | | | | c Hydrophy | | | |
| | | | 0 | = To | otal Cover | | ¹ Indicators of | | nd wetland | hydrology i | nust be p | resent, u | nless |
| | | | | | | | disturbed or p | | | | | | |
| % Bare Ground in H | erb Stratum | | 15 | | | | Vegetation | | Yes | X | | No | |
| | | | | | | | Present? | | | | | | |
| Remarks: | o.b oualulii | | | | | | | | 165 | ^ | | | |

| | | | PHS# | 6904 | | | | Sampling Point: 7 | | | | |
|--|---|--|--|--|--|--|--|---|--|--|--|--|
| | ption: (Describe to t | the depth i | needed to docume | | | firm the abser | nce of indicators.) | | | | | |
| Depth | Matrix | | | Redox Fea | | . 2 | | | | | | |
| (Inches) | Color (moist) | % | Color (moist) | | Гуре¹ | Loc ² | Texture | Remarks | | | | |
| 0-4 | 10YR 2/2 | 90 | 10YR 3/6 | | С | PL | Sandy Loam | OR's | | | | |
| 0-4 | | | 10YR 3/4 | 5 | С | M | Sandy Loam | Medium | | | | |
| 4-10 | 10YR 2/2 | 95 | 10YR 3/4 | | С | M | Sandy Loam | Medium | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| Type: C=Cond | centration, D=Depletion | on, RM=Re | educed Matrix, CS=0 | Covered or Coa | ated Sand | l Grains. | | ² Location: PL=Pore Lining, M=Matrix. | | | | |
| Hydric Soil | Indicators: (Appli | cable to | all LRRs, unless | s otherwise i | noted.) | | Indic | ators for Problematic Hydric Soils ³ : | | | | |
| | Histosol (A1) | | | San | dy Redox | (S5) | | 2 cm Muck (A10) | | | | |
| | Histic Epipedon (A2) | | | Strip | ped Matr | rix (S6) | | Red Parent Material (TF2) | | | | |
| | Black Histic (A3) | | | Loar | my Mucky | / Mineral (F1) (| except MLRA 1) | Very Shallow Dark Surface (TF12) | | | | |
| _ | Hydrogen Sulfide (A4 | .) | | Loar | my Gleye | d Matrix (F2) | | Other (explain in Remarks) | | | | |
| | Depleted Below Dark | Surface (A | (11) | Dep | leted Mat | rix (F3) | | | | | | |
| | Thick Dark Surface (A | A12) | | X Red | ox Dark S | Surface (F6) | | | | | | |
| | Sandy Mucky Mineral | | | | | k Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland | | | | |
| | Sandy Gleyed Matrix | | | | | ssions (F8) | | hydrology must be present, unless disturbed or problematic. | | | | |
| | Layer (if present): | | | | • | . , | 1 | · | | | | |
| | s): | | | | | | Hydric Soil Pres | sent? Yes X No | | | | |
| Depth (inches |): | | | | | | Hydric Soil Pres | sent? Yes X No | | | | |
| Remarks: | GY | 6. | | | | | Hydric Soil Pres | sent? Yes <u>X</u> No | | | | |
| Remarks: HYDROLO Wetland Hy | GY drology Indicators | | uired: check all th | nat apply) | | | Hydric Soil Pres | | | | | |
| Remarks: HYDROLO Wetland Hy Primary India | GY drology Indicators cators (minimum o | | uired; check all th | | er stainec | d Leaves (B9) | | Secondary Indicators (2 or more required) | | | | |
| Remarks: HYDROLO Wetland Hy Primary India | GY drology Indicators cators (minimum o Surface Water (A1) | f one req | uired; check all th | Wat | er stainec | | Hydric Soil Pres | | | | | |
| Remarks: HYDROLO Wetland Hy | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 | f one req | uired; check all th | Wat | 4A, and | 4B) | | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) | | | | |
| HYDROLO Wetland Hy | GY drology Indicators cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) | f one req | uired; check all th | Wate 1, 2, | 4A, and Crust (B1 | 4B) | (Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) | | | | |
| Remarks: HYDROLO Wetland Hy Primary India | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) | f one req | uired; check all th | Wat 1, 2, Salt | 4A, and Crust (B1 atic Invert | 4B) 11) tebrates (B13) | (Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) | | | | |
| HYDROLO Wetland Hy | GY drology Indicators cators (minimum or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B | f one req | uired; check all th | Wate 1, 2, Salt Aqua | 4A, and Crust (B1 atic Invert | 4B) 11) tebrates (B13) Ifide Odor (C1) | (Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (| | | | |
| HYDROLO Wetland Hy Primary India | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) | f one req | uired; check all th | Wate 1, 2, Salt Aqui Hydi X Oxid | 4A, and Crust (B1 atic Invert rogen Sul dized Rhiz | 4B) 11) tebrates (B13) tfide Odor (C1) zospheres alor | (Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Ca) Geomorphic Position (D2) | | | | |
| HYDROLO Wetland Hy Primary India | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) | f one req | uired; check all th | Wat 1, 2, | Crust (B1 atic Invertorgen Suldized Rhized Rhized of F | 4B) 11) tebrates (B13) iffide Odor (C1) cospheres alor Reduced Iron (| (Except MLRA Ig Living Roots (C3) C4) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) | | | | |
| HYDROLO Wetland Hy | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) | f one req 2) 32) 4) | uired; check all th | Wat 1, 2, Salt Aqui Hydr X Oxid Pres | Crust (B1 atic Invert rogen Sul dized Rhiz sence of F ent Iron R | 4B) 11) tebrates (B13) Iffide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl | (Except MLRA Ing Living Roots (C3) C4) Dowed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) | | | | |
| HYDROLO Wetland Hy | GY drology Indicators cators (minimum or Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I | f one req 2) 32) 4) B6) | | Wate 1, 2, Salt Aqui Hydri X Oxid Pres Reco | Crust (B1 atic Invert rogen Sul dized Rhiz sence of F ent Iron R | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl ressed Plants | (Except MLRA Ing Living Roots (C3) C4) Dowed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) | | | | |
| HYDROLO Wetland Hy | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) | Wate 1, 2, Salt Aqui Hydri X Oxid Pres Reco | Crust (B1 atic Invert rogen Sul dized Rhiz sence of F ent Iron R | 4B) 11) tebrates (B13) Iffide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl | (Except MLRA Ing Living Roots (C3) C4) Dowed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) | | | | |
| HYDROLO Wetland Hy Primary India | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated C | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) | Wate 1, 2, Salt Aqui Hydri X Oxid Pres Reco | Crust (B1 atic Invert rogen Sul dized Rhiz sence of F ent Iron R | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl ressed Plants | (Except MLRA Ing Living Roots (C3) C4) Dowed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C2) Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) | | | | |
| HYDROLO Wetland Hy Primary India | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Covations: | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) | Wate 1, 2, Salt Aqua Hydri X Oxid Pres Reco | 4A, and Crust (B1 atic Invert rogen Sul dized Rhiz sence of F ent Iron R ated or Str | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl ressed Plants | (Except MLRA Ing Living Roots (C3) C4) Dowed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) | | | | |
| HYDROLO Wetland Hy Primary India | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) | Wate 1, 2, Salt Aqua Hydri X Oxid Pres Reco | AA, and Crust (B1 atic Invert rogen Sul dized Rhiz sence of F ent Iron R nted or Str er (Explain | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl ressed Plants n in Remarks) | g Living Roots (C3) C4) bowed Soils (C6) (D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) | | | | |
| HYDROLO Wetland Hy Primary India Field Obser Surface Water Water Table P Saturation Pre | GY drology Indicators cators (minimum or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes resent? Yes sent? Yes | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) | Wate 1, 2, Salt Aqua Hydri X Oxid Pres Reco | Crust (B1 atic Inverting Sence of Fent Iron Rated or Streer (Explainmes): | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl ressed Plants | g Living Roots (C3) C4) bowed Soils (C6) (D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) | | | | |
| HYDROLO Wetland Hy Primary India | GY drology Indicators cators (minimum or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes resent? Yes sent? Yes | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) No <u>X</u> No <u>X</u> | Wate 1, 2, Salt Aqui Hydri X Oxid Pres Reco | Crust (B1 atic Inverting Sence of Fent Iron Rated or Streer (Explainmes): | 4B) 11) tebrates (B13) Ifide Odor (C1) zospheres alor Reduced Iron (Reduction in Pl ressed Plants in in Remarks) | g Living Roots (C3) C4) bowed Soils (C6) (D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) | | | | |
| HYDROLO Wetland Hy Primary India Field Obser Surface Water Water Table P Saturation Pre (includes capillar | GY drology Indicators cators (minimum or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes resent? Yes sent? Yes | f one req 2) 32) 4) B6) Aerial Imag Concave Su | gery (B7) urface (B8) No | Wate 1, 2, Salt Aqua Hyda X Oxid Pres Reconstruction Other Depth (inch Depth (| Crust (B1 atic Inverting I | 4B) 11) tebrates (B13) iffide Odor (C1) cospheres alor Reduced Iron (Reduction in Pl ressed Plants in in Remarks) >10 >10 | (Except MLRA Ig Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) | | | | |
| HYDROLO Wetland Hy Primary India Field Obser Surface Water Water Table P Saturation Pre (includes capillar | GY drology Indicators cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Co vations: Present? Yes resent? Yes sent? Yes y fringe) | f one req 2) 32) 4) B6) Aerial Imag Concave Su | gery (B7) urface (B8) No | Wate 1, 2, Salt Aqua Hyda X Oxid Pres Reconstruction Other Depth (inch Depth (| Crust (B1 atic Inverting I | 4B) 11) tebrates (B13) iffide Odor (C1) cospheres alor Reduced Iron (Reduction in Pl ressed Plants in in Remarks) >10 >10 | (Except MLRA Ig Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) | | | | |

6904

| Name Package | Project/Site: W | oject/Site: Walgrave Property | | City/County: | Tualat | tin/Washington | | Sampling Date: | | 9/15/2021 | | |
|--|---------------------------------|-------------------------------|-----------------------|--------------------|-------------------|---------------------|---------------|-----------------|-----------|----------------------------|-----------|--|
| Landform (fieldspee, ferraco, etc.:) Hill/Mount | Applicant/Owner: Phe | lan Developm | ent | | | State: | | R | Sam | Sampling Point: 8 | | |
| Landform (hillistope, iterace, etc.) | Investigator(s): | TF/MS | | Section, To | wnship, Range: | | Section 22, | | | | | |
| Soil Map Unit Name: Quatama Ioam | Landform (hillslope, terrace | , etc.:) | Hill/Moun | d | Local relief (cor | ncave, convex, none |): | None | | Slope (%): | 2 | |
| Soil May Unit Name: Quatama loam Ves X No | Subregion (LRR): | LRR | A | Lat: | | | Long: | | | Datum: | WSG85 | |
| Are vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? (YN) Y Are vegetation Soil or Hydrology naturally problematic? If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No X Wetland Hydrology Present? Yes No X | Soil Map Unit Name: | | Quata | ma loam | | | | | | none | | |
| SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transacts, important features, etc. Hydrophytic Vegelation Present? | Are climatic/hydrologic cond | ditions on the site | typical for this time | e of year? | Yes | X | No | (if no, ex | kplain in | Remarks) | | |
| SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transacts, important features, etc. Hydrophytic Vegelation Present? | Are vegetation So | il or H | Hydrology | significantly dist | urbed? | Are "Normal Circu | ımstances" p | resent? (Y/N) | | Υ | | |
| SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegelation Present? | | | | _ | | | • | , , | _ | | | |
| Sampled Area within a Wetland? Yes No X | <u> </u> | | , , , | . ,, | | , , | | , | | | | |
| Sampled Area within a Wetland? Yes No X Wetland Hydrology Present? Yes No X | SUMMARY OF FIND | INGS - Atta | ch site map s | showing sar | npling point | locations, tran | sects, im | portant fe | atures | s, etc. | | |
| Wetand Hydrology Present? Yes | Hydrophytic Vegetation Pre | sent? Yes | X No | | le Sampled Ar | oa within | | | | | | |
| VEGETATION - Use scientific names of plants. | Hydric Soil Present? | Yes | No | X | | | Yes | | No | Х | | |
| August armeniacus | Wetland Hydrology Present | ? Yes | No | X | | | | | | | | |
| Aprovince Stratum (plot size: | Remarks: | | | | | | | | | | | |
| Application | | | | | | | | | | | | |
| Aprovince Stratum (plot size: | | | | | | | | | | | | |
| Stratum (plot size: | VEGETATION - Use | scientific na | ames of plant | S. | | | | | | | | |
| Number of Dominant Species | | | | | Indicator | Dominance Te | st workshe | et: | | | | |
| That are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) Percent of Dominant Species That are OBL, FACW or FACW | | | % cover | Species? | Status | | | | | | | |
| Total Number of Dominant Species Across All Strata: 3 (B) | <u>free Stratum</u> (plot size: | |) | | | | • | | | | | |
| Total Number of Dominant Species Across All Strata: 3 | 1 | | | | | That are OBL, FA | CW, or FAC: | | 2 | | (A) | |
| Species Across All Strata: 3 (B) | | | | | | | | | | | | |
| Percent of Dominant Species | 3 | | · | | | | | | • | | (D) | |
| Percent of Dominant Species Percent of Dominant Species That are OBL, FACW, or FAC: 67% (A/B) | 4 | | | - T-4-1 O | | Species Across Ai | i Strata: | - | 3 | - | (B) | |
| Rubus armeniacus | | | | = Total Cover | | | | | | | | |
| 2 Rosa pisocarpa 30 X FAC | | | — ′ | | | | • | | | _ | | |
| Prevalence Index Worksheet: Total % Cover of Multiply by: | | • | | | | That are OBL, FA | CW, or FAC: | | 67% | o | (A/B) | |
| Total % Cover of Multiply by: | | | 30 | X | FAC | Duning lands and | lass Mandrada | 4. | | | | |
| Total Cover | | | | | | | ex works | | h. a | | | |
| 110 | · | | | | | | <u> </u> | | | 0 | | |
| FAC Species | | | 110 | = Total Cover | | | | | _ | | | |
| Agrostis capillaris 60 X FAC UPL Species x 5 = 0 | | | | 10101 00101 | | | | | _ | | | |
| 2 Jacobaea vulgaris 3 Leucanthemum vulgare 4 Daucus carota 5 FACU 4 Daucus carota 5 FACU 5 Cirsium vulgare 6 FACU 8 FACU 8 FACU 9 Prevalence Index = B/A = #DIV/0! Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants¹ 2 Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | <u>Herb Stratum</u> (plot size: | 5 |) | | | FACU Specie | es | x 4 | = _ | 0 | | |
| 3 Leucanthemum vulgare 10 FACU 4 Daucus carota 5 FACU 5 Cirsium vulgare 5 FACU 6 Hydrophytic Vegetation Indicators: 7 1- Rapid Test for Hydrophytic Vegetation 8 X 2- Dominance Test is >50% 3-Prevalence Index is ≤ 3.0¹ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) 1 5- Wetland Non-Vascular Plants¹ 2 Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | 1 Agrostis capillaris | | 60 | X | FAC | UPL Species | s | x 5 | = _ | 0 | | |
| 4 Daucus carota 5 FACU FRACU Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 95 = Total Cover Woody Vine Stratum (plot size: 1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% 3 - Prevalence Index is ≤ 3.0¹ 4 - Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | 2 Jacobaea vulgaris | | 15 | | FACU | Column Tota | ls <u>0</u> |) (A) | _ | 0 | (B) | |
| 5 Cirsium vulgare 6 Hydrophytic Vegetation Indicators: 7 | | lgare | . ——— | | | | | | | | | |
| Hydrophytic Vegetation Indicators: 1- Rapid Test for Hydrophytic Vegetation X 2- Dominance Test is >50% X 2- Dominance Test is >50% 3-Prevalence Index is ≤ 3.0¹ 4-Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) 5- Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | | | | | | Prevalence I | ndex =B/A = | | #DIV/ | /0! | | |
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| Moody Vine Stratum (plot size:) data in Remarks or on a separate sheet) | | | | - Total Cover | | | | | | | upporting | |
| Problematic Hydrophytic Vegetation¹ (Explain) Thickness of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | Woody Vine Stratum (plo | ot size: |) | | | | | | | | | |
| 0 = Total Cover Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. | 1 | | | | | | 5- We | etland Non-Vas | scular P | lants ¹ | | |
| disturbed or problematic. | 2 | | | | | | Proble | ematic Hydrop | hytic Ve | egetation ¹ (Ex | oplain) | |
| | | | 0 | = Total Cover | | | | etland hydrolog | y must | be present, ι | ınless | |
| Hydrophytic | | | | | | | ematic. | | | | | |
| % Bare Ground in Herb Stratum Vegetation Yes X No | % Bare Ground in Herb Str | atum | | | | | | Yes Y | | No | | |
| Present? | Daile Greatin in Florid Out | | | | | | | . 00 <u>X</u> | | | | |

| Profile Description: (Descript to the depth metalot of document the Indicator or confirm the absence of Indicators.) Copt Marini | 8 |
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| Content Cont | |
| 10 | |
| 4-12 10YR 3/3 95 10YR 3/0 5 C M Silt Loam Nodules Type: O-Concentration. D-Depletion. RM=Reduced Matrix. CS=Covered or Ceated Sand Grains. Type: G-Concentration. D-Depletion. RM=Reduced Matrix. CS=Covered or Ceated Sand Grains. Type: G-Concentration. D-Depletion. RM=Reduced Matrix. CS=Covered or Ceated Sand Grains. Type: G-Concentration. D-Depletion. RM=Reduced Matrix. CS=Covered or Ceated Sand Grains. Type: G-Concentration. D-Depletion. RM=Reduced Matrix. CS=Covered or Ceated Sand Grains. Type: G-Concentration. D-Depletion. RM=Reduced Matrix. GS=Covered or Ceated Sand Grains. Type: G-Concentration. D-Depletion. RM=Reduced Matrix. GS=Covered or Ceated Sand Grains. Type: G-Concentration. (A2) Black Haise (A3) Learny Mucky Mineral (F1) Depletion. Dark Surface (F2) Type: G-Concentration. (A2) Sandy Mucky Mineral (S1) Depletion. Dark Surface (F2) Preduced Matrix. (F3) Reduced Type: G-Concentration. (F3) Restrictive Layer (If present): Type: G-Concentration. (A3) Sandy Mucky Mineral (S1) Depletion. (A4) By Matrix. (A4) High Water Table (A2) Salt Crust. (B1) Matrix. (A4) High Water Table (A2) Salt Crust. (B1) Matrix. (B1) Secondary Indicators (2 or mon. Matrix. (B3) Matrix. (B1) Secondary Indicators (C1) Secondary Indicators (C2) Matrix. (B1) Depletion. (B1) Aquatic Invertebrates (B1) Dislange Patterns (F1) Secondary Indicators (C2) Diff Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation (A3) Secondary Indicators (C2) Diff Deposits (B2) Diff Deposits (B2) Presente or Reduced Ion (C4) Secondary Indicators (C4) Secondary Indicators (C2) Find Muchael (B4) Presence of Reduced Ion (C4) Secondary Indicators (C2) Find (B1) Presente (B1 | |
| "Type: O=Concentration: D=Depiction, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. "Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Applicable to all LRRs, unless otherwise noted.) Historic Eppedon (A2) Samply Rodox (S5) 2 cm Muke (A10) Historic Eppedon (A2) Stripped Matrix (S6) Red Parent Material (T Uyery Shallow Dark Sur Depicted Below Dark Surface (A3) Learny Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (A4) Learny Mucky Mineral (F2) Qother (explain in Rens Depicted Below Dark Surface (A11) Depicted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F7) Sandy Mucky Mineral (S1) Depicted Dark Surface (F7) Sandy Mucky Mineral (S1) Pepeled Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Present? Yes No Restrictive Layer (if present): Type: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of one required; check all that apply) Secondary Indicators (minimum of one required check all that apply) Secondary Indicators (P Depth (miches) Surface (F8) Surface (F8) (MLRA1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Mater Marks (F1) Depth (miches) Surface Water (A1) Depth (miches) Surface (F8) Su | |
| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosoi (A1) Sandy Redox (S5) 2 cm Muck (A10) Histo Epipedon (A2) Stripped Matrix (S6) Red Parent Material (T Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surf Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (explain in Rema Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (Iff present): Type: Depth (inches): Hydric Soil Present? Yes No Surface Water (A1) Water stained Leaves (S9) (Except MLRA High Water Table (A2) 1, 2, 4A, and 4B) Water Marks (S1) Salturation (A3) Salturation (A3) Salturation (A3) Salturation (B1) Agalt Mark (B1) Aquatic Invertebrates (B13) Diff Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Boendary Indicator (B1) Algal Mat or Crus (B4) Presence of Reduced Inin (Power Science) First Heave Hummodi Surface Water (B4) Presence of Reduced Inin (Power Science) Primary Indicators (B3) Oxidized Rhizospheres along Living Roots (C3) Boenomerphic Position (I) Algal Mat or Crus (B4) Presence of Reduced Inin (Power Science) Surface Soil Cracks (B8) Inundation Visible on Aerial Imagery (B7) Surface Soil Cracks (B8) First-Heave Hummodi Surface Water Present? Yes No Depth (inches): Water Table (Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No | |
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| Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histocon (A1) Sandy Redox (S5) Ped Parent Material (T Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Pepleted Below Dark Surface (A11) Depleted Matrix (F2) Other (explain in Rema Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Ped Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Problematic Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) Saturation (A3) Salt variation (A4) Salt variation (A3) Salt variation (A3) Salt variation (A4) Salt variation | |
| Histosof (A1) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Sur August (A10) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Other (explain in Rema Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Glieyed Matrix (S4) Redox Depressions (F8) Primary Indicators (F7) Mydrology must be present, unless of problematic. Restrictive Layer (if present): Type: Depth (inches): Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water Marks (B1) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (A3) Saturation (B2) Hydrogen Sulfide Odor (C1) Saturation (B2) Hydrogen Sulfide Odor (C1) Saturation (B3) Ovidized Rhizespheres along Living Roots (C3) Geomorphic Position (I) Agali Mat or Crust (B4) Presence of Reduced Iron (C4) Saturation (Day Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Of Saturation (B2) Presence of Reduced Iron (C4) Spansely Vegetated Concave Surface (B8) Frost-Heave Hurmood Spansely Vegetated Concave Surface (B8) | ∕latrix. |
| Histic Epipedon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Popeleted Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Popeleted Dark Surface (F7) Phydrology must be present, unless of problematic. Restrictive Layer (if present): Type: Depth (inches): Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water stained Leaves (B9) (Except MLRA High Water Table (A2) Aquatic Invertebrates (B13) Py-Season Water Table Sediment Deposits (B2) Py-Season Water Table Agualide Rhizospheres along Living Roots (C3) Geomorphic Position (A) Jordopen Sulface Sulface (B8) Primace Sulface (B8) Presence of Peached or Invertebrates (B1) Presence (B3) Presence (P4) Sulface (B8) Presence (P5) Sulface (B8) Presence (P7) Phydric Soil Present? Primary Indicators (Minimum of one required; check all that apply) Secondary Indicators (2 or more properties) No Secondary Indicators (2 or more properties) No Sulface Water (A1) Water Stained Leaves (B9) (Except MLRA (MLRA1, 2, 4, and 4) (MLRA1, 2, 4, and 4) Py-Season Water Table (A2) Drint Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation (A3) Dry-Season Water Table (A2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (A) Presence of Reduced Iron (C4) Sallow Aquitard (D3) Iron Deposits (B6) Surface Soil Cracks (B8) Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Redox Dark Surface (B1) Wetland Hydrology Present? Yes No Redox Dark Surface (B1) No Inchesics Wetland Hydrology Present? Yes No Redox Dark Surface (B2) Primary Indicators (F7) Phydrology Indicators Phydrol | c Soils³: |
| Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (A12) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Sandy Surface (Matrix (S4) Redox Depressions (F8) Redox Depressions (F8) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes | |
| Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F2) Present; Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Present; Redox Dark Surface (F7) Present; Type: Depth (inches): Hydric Soil Present? Yes No Remarks: Hydric Soil Present? Yes No Remarks: Hydric Soil Present? Yes No Secondary Indicators (2 or more surface (B8)) Hydric Soil Present? Yes No Secondary Indicators (2 or more surface (B8)) Hydric Soil Present? Yes No Remarks: Hydric Soil Present? Yes No Secondary Indicators (2 or more surface (B8)) Hydric Soil Present? Yes No Secondary Indicators (2 or more surface (B8)) Multand Leaves: Hydric Soil Present? Yes No Secondary Indicators (2 or more surface (B8)) Multand Leaves: Hydric Soil Present? Yes No Secondary Indicators (2 or more surface (B8)) Secondary Indicators (2 or more surface (B8)) Multand Leaves: Hydric Soil Present? Yes No Depth (inches): Wetland Hydrology Indicators (B9) Secondary Indicators (2 or more surface (B9) Multand Leaves: No Secondary Indicators (2 or more surface (B9) Multand Leaves: No Secondary Indicators (2 or more surface (B9) Multand Leaves: No Secondary Indicators (2 or more surface (B9) (MLRA1, 2, 4A, and 4B) Multand Leaves: No Secondary Indicators (2 or more surface (B9) Multand (B9) Multan | al (TF2) |
| Depleted Below Dark Surface (A11) Depleted Matrix (F3) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No Surface Water (A1) High Water Table (A2) Saturation (Passit (B3) Surface Water (A1) Depleted Matrix (F3) Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more surface) Mater Marks (B1) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10 Aquatic Invertebrates (B13) Dry-Season Water Table (A2) Drift Deposits (B3) Odidzed Rhizospheres along Living Roots (C3) Geomorphic Position (D3) Iron Deposits (B3) Surface Soil Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard Table (D3) Iron Deposits (B6) Surface Soil Cracks (B6) Surface So | Surface (TF12) |
| Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Recox Depressions (F8) Redox Depressions (F8) Recox Depressions (F8) Redox Depressions (F8) Redox Depressions (P8) Re | Remarks) |
| Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water stained Leaves (B9) (Except MLRA (MLRA1, 2, 4A, and 4B) Saturation (A3) Satur Crust (B1) Water Marks (B1) Aquatic invertebrates (B13) Drainage Patterns (B1) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on A Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (I) Algal Mat or Crust (B4) Present? (B6) Surface Soil Cracks (B6) Surface of Reduced Iron (C4) Raised Ant Mounds (D Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Depth (inches): Wetland Hydrology Present? Ves No Cincludes capillary fringe) | |
| Sairtly Mutcy Namiteral (S1) Depteted Dark Surlace (F7) hydrology must be present, unless of problematic. Restrictive Layer (if present): Type: Depth (inches): Depth (inches): Hydric Soil Present? Yes No Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (High Water Table (A2) 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B11) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (S2) Hydrogen Sulfide Odor (C1) Saturation Visible on A Drift Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on A Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (I can be posited (B5)) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummock Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): | |
| Sandy Gleyed Matrix (S4) Redox Depressions (F8) problematic. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or moi Surface Water (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves) High Water Table (A2) 1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Saturation (A3) Sait Crust (B11) Drainage Patterns (B11) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table Sediment Deposits (B2) Hydrogen Suifide Odor (C1) Saturation Visible on A Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (in Living Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummock Sparsely Vegetated Concave Surface (B8) Field Observations: Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Indicates applitury finge) | |
| Type: | ess disturbed or |
| Type: | |
| Hydric Soil Present? Yes No | |
| Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more surface Water (A1) High Water Table (A2) Saturation (A3) Satt Crust (B11) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Yes No No Mater Stained Leaves (B9) (Except MLRA Water Stained Leaves (B1) (Except MLRA Water Stained Leaves (B1) Presence (B10) (Except MLRA Water Stained Leaves (B10) (Ex | No V |
| HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (B13) Adjad Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Yes No No No Depth (inches): Yes No No No Depth (inches): Yes No | No <u>X</u> |
| Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Surface Water (A2) High Water Table (A2) Saturation (A3) Salt Crust (B11) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B4) Presence of Reduced Iron (C4) Iton Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Water Table Present? Yes No Depth (inches): Water Table (A1) Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) (Except MLRA Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) (MLRA1, 2, 4A, and 4B) Water Stained Leaves (B1) Drainage Patterns (B10 Aquatic Invertebrates (B13) Drainage Patterns (B10 Dry-Season Water Table (B13) Pry-Season Water Table (C1) Saturation Visible on A Stauration Visible on A Stauration Visible on A Spannel (B13) Frost-Heave Hummock (D1) Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Yes No | |
| Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) Water Marks (B1) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water stained Leaves (B9) (Except MLRA Water Marks (B1) Water stained Leaves (B9) (Except MLRA Water Stained Leaves (B9) (Except MLRA Water Stained Leaves (B9) (MLRA1, 2, 4A, and 4B) (PAL And 4B) Freitrespecture (B10) Saturation (Na) Saturation (A) | |
| High Water Table (A2) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10 Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (A2) Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (I Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Yes No No Depth (inches): Yes No | more required) |
| Saturation (A3) Salt Crust (B11) Drainage Patterns (B10 Aquatic Invertebrates (B13) Dry-Season Water Tab Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on A Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (I Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Fac-Neutral Test (D5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Yes No No Depth (inches): Yes No | |
| Water Marks (B1) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on A Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (I Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Yes No Depth (inches): Yes No | nd 4B) |
| Sediment Deposits (B2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Visible on A Geomorphic Position (I Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Fac-Neutral Test (D5) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D Cher (Explain in Remarks) Frost-Heave Hummock Sparsely Vegetated Concave Surface (B8) Wetland Hydrology Present? Yes No Depth (inches): Yes No No No No Depth (inches): Yes No No No No No No No No No N | (B10) |
| Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Plowed Soils (C6) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Yes No Depth (inches): Yes No No Depth (inches): Yes No | Table (C2) |
| Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Yes No No No Depth (inches): Yes No No No Depth (inches): Yes No No No No Depth (inches): Yes No | |
| Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): | |
| Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): | |
| Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Other (Explain in Remarks) Frost-Heave Hummock Wetland Hydrology Present? Frost-Heave Hummock Frost-Heave Hummock Frost-Heave Hummock Frost-Heave Hummock Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): | • |
| Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): Yes No No Depth (inches): Yes No No Depth (inches): Yes No No Depth (inches): | |
| Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Yes No Depth (inches): Yes No Depth (inches): | nocks (D7) |
| 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 Depth (inches): Yes No | |
| Water Table Present? Yes No Depth (inches): Wetland Hydrology Present? Saturation Present? Yes No Depth (inches): Yes No (includes capillary fringe) | |
| Saturation Present? Yes No Depth (inches): Yes No (includes capillary fringe) | |
| (includes capillary fringe) | N |
| Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: | No X |
| | |
| | |
| | |
| Remarks: | |

6904

| Project/Site: | Walgrave P | roperty | City/County: | Tuala | tin/Washington | Sampling Date: | 9/1 | 5/2021 |
|--------------------------------|----------------------|---|--------------------|-----------------|--|--|-----------------|------------|
| Applicant/Owner: | Phelan Devel | | · | | State: | OR | Sampling Point: | 9 |
| Investigator(s): | | S/TF | Section, To | wnship, Range: | Sectio | n 22, Township 2 | | |
| Landform (hillslope, te | | | lat | | ncave, convex, none): | none | Slope (%): | 1 |
| Subregion (LRR): | _ | LRR A | Lat: | (| • | | | WSG85 |
| Soil Map Unit Name: | | | Quatama loam | | | assification: | | |
| Are climatic/hydrologic | | | | Yes | X No | | | |
| Are vegetation | | • | significantly dist | | Are "Normal Circumstance | - | | |
| Are vegetation Are vegetation | | or Hydrology | | | , explain any answers in Re | , , , | <u>-</u> | • |
| | | orriyarology | naturany problem | nano: ii necaca | , explain any answers in re- | marks.) | | |
| SUMMARY OF F | FINDINGS - | Attach site n | nap showing san | npling point | locations, transects | s, important fea | tures, etc. | |
| Hydrophytic Vegetatio | on Present? Ye | es X | No | | 44.4 | | | |
| Hydric Soil Present? | Ye | es X | No | Is Sampled Ar | | X | No | _ |
| Wetland Hydrology Pr | resent? Ye | es X | No | | | | | - |
| Remarks: | | | | | | | | |
| tomanie. | | | | | | | | |
| | | | | | | | | |
| VEGETATION - | Use scientifi | c names of r | lants. | | | | | |
| - LOLIATION - | 230 0010111111 | absolu | | Indicator | Dominance Test wor | ksheet: | | |
| | | % cov | | Status | | - | | |
| Tree Stratum (plot | size: |) | | | Number of Dominant Spe | | | |
| 1 | | | | | That are OBL, FACW, or | FAC: | 5 | (A) |
| 2 | | | | | | | | |
| 3 | | | | | Total Number of Dominar | | _ | (B) |
| 4 | | | | | Species Across All Strata | : <u></u> | 5 | (B) |
| | | 0 | = Total Cover | | | | | |
| Sapling/Shrub Stratun | <u>n</u> (plot size: | 30) | | | Percent of Dominant Spe | cies | | |
| 1 Crataegus mo | nogyna | 30 | X | FAC | That are OBL, FACW, or | FAC: | 100% | (A/B) |
| 2 Rosa nutkana | | | X | FAC | | | | |
| 3 Rosa pisocarp | | | X | FAC | Prevalence Index Wo | orksheet: | | |
| 4 Rubus armeni | | 15 | | FAC | Total % Cover of | Multiply b | | |
| 5 Fraxinus latifo | ona | | | FACW | OBL Species | x 1 = | | - |
| | | 90 | = Total Cover | | FACW species FAC Species | x 2 = x 3 = | | |
| Herb Stratum (plot | size: 10 |) | | | FACU Species | x 4 = | | - |
| 1 Poa annua | | | x | FAC | UPL Species | x 5 = | - | |
| 2 Agrostis capil | laris | 60 | Х | FAC | Column Totals | 0 (A) | 0 | (B) |
| 3 Cynosurus cri | istatus | 10 | | FACU |] | | - | - |
| 4 Schedonorus | arundinaceus | 10 | | FAC | Prevalence Index = | B/A = | #DIV/0! | _ |
| 5 Jacobaea vulg | garis | 5 | | FACU | | | | |
| 6 Leontodon sa | | 5 | | FACU | Hydrophytic Vegetat | ion Indicators: | | |
| 7 Mentha pulegi | ium | 5 | | OBL | | 1- Rapid Test for Hyd | . , , | on |
| 8 | | | | | | 2- Dominance Test is | | |
| | | 155 | = Total Cover | | | 3-Prevalence Index is 4-Morphological Ada | | supporting |
| Woody Vine Stratum | (plot size: |) | | | | data in Remarks or o | | |
| 1 | | ′ | | | | 5- Wetland Non-Vaso | | , |
| 2 | | | | | | Problematic Hydroph | | Explain) |
| | | | = Total Cover | | ¹ Indicators of hydric soil a | | | |
| | | | | | disturbed or problematic. | , 0, | | |
| | wh Ctwot | | | | Hydrophytic | V ¥ | M- | |
| 0/ Dava C !: !! | in Stratum | | | | Vegetation | Yes X | No | |
| % Bare Ground in He | _ | | - | | Present? | | | |

| SOIL | | | PHS# | 690 | 4 | | | Sampling Point: 9 |
|---|--|---------------------------------------|---|--|--|--|---|--|
| | ption: (Describe to | the depth | needed to docume | | | nfirm the absen | ce of indicators.) | |
| Depth | Matrix | | | Redox F | - 1 | . 2 | _ | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type' | Loc ² | Texture | Remarks |
| 0-12 | 7.5YR 3/2 | 95 | 5YR 3/8 | | С | PL | Silt Loam | OR's throughout |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | · |
| Type: C=Cond | centration, D=Depleti | on, RM=Re | educed Matrix, CS= | Covered or C | oated San | d Grains. | | ² Location: PL=Pore Lining, M=Matrix. |
| | Indicators: (Appl | | | | | | Indic | cators for Problematic Hydric Soils ³ : |
| | Histosol (A1) | | | Sa | andy Redo | x (S5) | | 2 cm Muck (A10) |
| | Histic Epipedon (A2) | | | St | ripped Mat | trix (S6) | | Red Parent Material (TF2) |
| | Black Histic (A3) | | | | | ky Mineral (F1) (e | except MLRA 1) | Very Shallow Dark Surface (TF12) |
| | Hydrogen Sulfide (A4 | 1) | | | • | ed Matrix (F2) | , | Other (explain in Remarks) |
| | | - | A44) | | | | | Other (explain in Nemarks) |
| | Depleted Below Dark | • | ٦١١) | | epleted Ma | , | | |
| | Thick Dark Surface (| • | | | | Surface (F6) | | ³ Indicators of hydrophytic vegetation and wetland |
| | Sandy Mucky Minera | l (S1) | | De | epleted Da | ark Surface (F7) | | hydrology must be present, unless disturbed or |
| | Sandy Gleyed Matrix | (S4) | | R | edox Depre | essions (F8) | | problematic. |
| | s): | | | | | | Hydric Soil Pre | sent? Yes X No |
| | s): | | | | | | Hydric Soil Pre | sent? Yes <u>X</u> No |
| Remarks: | GY | rs: | | | | | Hydric Soil Pre | sent? Yes <u>X</u> No |
| emarks: HYDROLO Vetland Hy | GY drology Indicator | | uired; check all tl | hat apply) | | | Hydric Soil Pre | |
| HYDROLO Vetland Hydrimary India | GY | | uired; check all tl | , | ater staine | ed Leaves (B9) (I | | Secondary Indicators (2 or more required) Water stained Leaves (B9) |
| HYDROLO Vetland Hy | GY drology Indicator cators (minimum c | of one req | uired; check all tl | W | ater staine 2, 4A, and | ed Leaves (B9) (I | | Secondary Indicators (2 or more required) |
| HYDROLO Vetland Hy | drology Indicator cators (minimum c | of one req | uired; check all tl | W | | ed Leaves (B9) (I d 4B) | | Secondary Indicators (2 or more required) Water stained Leaves (B9) |
| HYDROLO Vetland Hydrimary India | drology Indicator cators (minimum c Surface Water (A1) High Water Table (A2 | of one req | uired; check all tl | W 1, Sa | 2, 4A, and | ed Leaves (B9) (I d 4B) | | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| HYDROLO Vetland Hydrimary India | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A: Saturation (A3) | of one req | uired; check all tl | W 1, SaAd | 2, 4A, and alt Crust (Equatic Inve | ed Leaves (B9) (I d 4B) B11) | | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| HYDROLO Vetland Hy | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) | of one req | uired; check all tl | W 1, Ad H | 2, 4A, and alt Crust (Equatic Inverydrogen Su | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) | | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| HYDROLO Vetland Hyr | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B | of one req 2) B2) | uired; check all tl | | 2, 4A, and alt Crust (E quatic Inve ydrogen Su xidized Rh | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) | Except MLRA g Living Roots (C3) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery |
| HYDROLO Vetland Hydrimary India | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) | of one req 2) B2) | uired; check all tl | W 1, Si Ar | 2, 4A, and alt Crust (E quatic Inve ydrogen Su xidized Rh resence of | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C | Except MLRA g Living Roots (C3) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) |
| HYDROLO Vetland Hydrimary India | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) | of one req 2) B2) | uired; check all tl | W 1, 1, Si Ai Ai Ai Pr | 2, 4A, and alt Crust (E quatic Inve ydrogen Su xidized Rh resence of ecent Iron | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres along | Except MLRA g Living Roots (C3) C4) wed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) |
| HYDROLO Wetland Hy | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B | of one req 2) B2) 4) (B6) | | | 2, 4A, and alt Crust (E quatic Inve ydrogen Su xidized Rh resence of ecent Iron tunted or S | ed Leaves (B9) (I d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo | Except MLRA g Living Roots (C3) C4) wed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) |
| HYDROLO Vetland Hydrimary India | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (| 2) B2) 4) (B6) Aerial Ima | igery (B7) | | 2, 4A, and alt Crust (E quatic Inve ydrogen Su xidized Rh resence of ecent Iron tunted or S | ed Leaves (B9) (I d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo stressed Plants (I | Except MLRA g Living Roots (C3) C4) wed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| HYDROLO Wetland Hy | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundator) | 2) B2) 4) (B6) Aerial Ima | igery (B7) | | 2, 4A, and alt Crust (E quatic Inve ydrogen Su xidized Rh resence of ecent Iron tunted or S | ed Leaves (B9) (I d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo stressed Plants (I | Except MLRA g Living Roots (C3) C4) wed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| HYDROLO Vetland Hydrimary India | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundations: | 2) B2) 4) (B6) Aerial Ima | igery (B7) urface (B8) | W 1, Si Ac Hy X 0: Re St O: | 2, 4A, and alt Crust (E quatic Inve ydrogen Su xidized Rh resence of ecent Iron tunted or S ther (Expla | ed Leaves (B9) (I d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo stressed Plants (I | Except MLRA g Living Roots (C3) C4) wed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| HYDROLO Wetland Hyu Primary India | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundations: Present? Yes | 2) B2) 4) (B6) Aerial Ima | gery (B7) urface (B8) No <u>X</u> | W 1, 1, Se Ac Ac Ac Pr Rc St Or | 2, 4A, and alt Crust (Equatic Inversed of Second Iron tunted or Second Iron Iron tunted or Second Iron Iron Iron Iron Iron Iron Iron | ed Leaves (B9) (I d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo Stressed Plants (I ain in Remarks) | g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| HYDROLO Wetland Hy Primary India Field Obser Surface Water Water Table P Saturation Pre | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundation Visible on Vations: Present? Yes resent? Yes sent? Yes | 2) B2) 4) (B6) Aerial Ima | igery (B7) urface (B8) | W 1, Si Ac Hy X 0: Re St O: | 2, 4A, and alt Crust (Equatic Inversed of Second Iron cunted or Second Iron cunted Iron cunt | ed Leaves (B9) (I d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo stressed Plants (I | g Living Roots (C3) (24) wed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Field Obser Surface Water Water Table P Saturation Pre includes capillar | drology Indicator cators (minimum of Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundation Visible on Vations: Present? Yes resent? Yes sent? Yes | 2) B2) 4) (B6) Aerial Ima | gery (B7) urface (B8) No X No X No X | W 1, Si Ad Hy X 0: Rr St Or Depth (ir Depth (ir | 2, 4A, and all Crust (Equatic Inversed of Second Iron tunted or Second Iron Iron Iron Iron Iron Iron Iron Iron | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo Stressed Plants (I ain in Remarks) >12 >12 | Except MLRA g Living Roots (C3) (C4) wed Soils (C6) D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| Field Obser Surface Water Water Table P Saturation Pre includes capillar | cators (minimum of Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundations: Present? Yes resent? Yes sent? Yes ry fringe) | 2) B2) 4) (B6) Aerial Ima | gery (B7) urface (B8) No X No X No X | W 1, Si Ad Hy X 0: Rr St Or Depth (ir Depth (ir | 2, 4A, and all Crust (Equatic Inversed of Second Iron tunted or Second Iron Iron Iron Iron Iron Iron Iron Iron | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo Stressed Plants (I ain in Remarks) >12 >12 | Except MLRA g Living Roots (C3) (C4) wed Soils (C6) D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| Field Obser Surface Water Vater Table P Saturation Pre Sincludes capillar | cators (minimum of Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundations: Present? Yes resent? Yes sent? Yes ry fringe) | 2) B2) 4) (B6) Aerial Ima | gery (B7) urface (B8) No X No X No X | W 1, Si Ad Hy X 0: Rr St Or Depth (ir Depth (ir | 2, 4A, and all Crust (Equatic Inversed of Second Iron tunted or Second Iron Iron Iron Iron Iron Iron Iron Iron | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo Stressed Plants (I ain in Remarks) >12 >12 | Except MLRA g Living Roots (C3) (C4) wed Soils (C6) D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |

6904

| Project/Site: | Walgrave Prope | erty | City/County: | Tuala | tin/Washington | Sampling Date | 9/15/ | /2021 |
|----------------------|---------------------------------|---------------------|--------------------|---------------------|--|----------------------|----------------------|----------|
| Applicant/Owner: | Phelan Developm | | - | | State | • | Sampling Point: | 10 |
| Investigator(s): | TF/MS | | Section, To | wnship, Range: | | on 22, Township | | |
| Landform (hillslope, | | Slope | _ | | ncave, convex, none): | none | Slope (%): | 2 |
| Subregion (LRR): | LRR | • | Lat: | • | Lona | | Datum: | WSG85 |
| Soil Map Unit Name: | | | ama loam | | | assification: | | |
| - | gic conditions on the site | | | Yes | | | plain in Remarks) | |
| Are vegetation | | | - | | | | | |
| | | lydrology | significantly dist | | Are "Normal Circumsta | . , , | | |
| Are vegetation | Soil or F | | naturally proble | matic? if needed | d, explain any answers in R | emarks.) | | |
| SUMMARY OF | FINDINGS - Atta | ch site map | showing san | npling point | locations, transect | s, important fea | itures, etc. | |
| Hydrophytic Vegetati | | X No | | | | - | | |
| Hydric Soil Present? | | No | X | Is Sampled A | \/ | | No X | |
| Wetland Hydrology F | | No No | | a wella | nur | | | |
| , | 1000111. | | | | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| VECETATION | lloo opiontific no | maa af nlani | <u> </u> | | | | | |
| VEGETATION - | - Use scientific na | | Dominant | Indicator | Dominance Test wo | rkshoot: | | |
| | | absolute % cover | Species? | Indicator Status | Dominiance rest wo | n noneet. | | |
| Tree Stratum (plo | t size: 30 |) | | | Number of Dominant Sp | ecies | | |
| 1 Fraxinus latif | folia | 5 | X | FACW | That are OBL, FACW, o | r FAC: | 4 | (A) |
| 2 | | | | | | | | |
| 3 | | | | | Total Number of Domina | int | | |
| 4 | | | | | Species Across All Strat | a: | 4 | (B) |
| | | 5 | = Total Cover | | | | | |
| Sapling/Shrub Stratu | <u>ım</u> (plot size: 30 |) | | | Percent of Dominant Sp | ecies | | |
| 1 Rosa sp | (piot 3ize | / | X | (FAC) | That are OBL, FACW, of | | 100% | (A/B) |
| 2 Rubus armen | niacus | 15 | X | FAC | mataro obe, i novi, c | | | (, (,)) |
| 3 Fraxinus latif | | 5 | | FACW | Prevalence Index W | orksheet: | | |
| 4 Crataegus do | | 5 | | FAC | Total % Cover of | Multiply | ov. | |
| 5 Crataegus me | | 5 | | FAC | OBL Species | x 1 : | | |
| | g , | 55 | = Total Cover | | FACW species | x 2 : | | |
| | | | | | FAC Species | x 3 : | | |
| Herb Stratum (plo | t size: 10 |) | | | FACU Species | x 4 = | 0 | |
| 1 Unidentified | grass | 90 | X | (FAC) | UPL Species | x 5 : | = 0 | |
| 2 Hypochaeris | radicata | 5 | | FACU | Column Totals | 0 (A) | 0 | (B) |
| 3 Daucus carot | ta | 2 | | FACU | | | | |
| 4 Jacobaea vul | lgaris | 1 | | FACU | Prevalence Index | =B/A = | #DIV/0! | |
| 5 | | | | | | | | |
| 6 | | . <u> </u> | | | Hydrophytic Vegeta | tion Indicators: | | |
| 7 | | <u> </u> | | | | 1- Rapid Test for Hy | drophytic Vegetation | 1 |
| 8 | | | | | X | 2- Dominance Test i | | |
| | | 98 | = Total Cover | | | 3-Prevalence Index | | |
| | | ` | | | | 4-Morphological Ada | | |
| Woody Vine Stratum | n (plot size: |) | | | | data in Remarks or o | | |
| 1 | | | | | | 5- Wetland Non-Vas | | |
| 2 | | | | | 1 | Problematic Hydropl | | |
| | | 0 | = Total Cover | | ¹ Indicators of hydric soil disturbed or problematic | | y must be present, u | nless |
| | | | | | disturbed of problematic | • | | |
| | | | | | Hydrophytic | | | |
| % Bare Ground in He | erb Stratum | | | | Hydrophytic Vegetation | Yes X | No | |

| | | | PHS# | 6904 | | | | | mpling Point: | 10 |
|--|---|--|---------------------------------------|--|---|--|---|---------------------------|--|---|
| | ription: (Describe to t | the depth | needed to docume | | | firm the abse | nce of indicators.) | | | |
| Depth | Matrix | | | Redox Fe | - 1 | . 2 | _ | | | |
| (Inches) | Color (moist) | % | Color (moist) | | Type' | Loc ² | Texture | | Remarks | |
| 0-3 | 10YR 2/2 | 99 | 10YR 3/4 | | С | PL_ | Sandy Loam | | | |
| 3-10 | 10YR 3/2 | 99 | 10YR 3/4 | | С | M | Sandy Loam | Medium | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Type: C=Cor | ncentration, D=Depletion | on RM=R4 | aduced Matrix CS= | Covered or Co | ated Sand | d Grains | | ² Location: Pl | _=Pore Lining, M= | Matrix |
| - | Indicators: (Appli | | | | | | Indic | | oblematic Hydr | |
| iyano con | Histosol (A1) | ioubic to | un Errito, umos | | ndy Redox | | mare | | 2 cm Muck (A10) | |
| | - | | | | pped Mati | | | | Red Parent Mater | |
| | Histic Epipedon (A2) | | | | | ` ' | | | _ | |
| | Black Histic (A3) | | | | | | (except MLRA 1) | | Very Shallow Dar | |
| | Hydrogen Sulfide (A4 | • | | | | d Matrix (F2) | | | Other (explain in | Remarks) |
| | Depleted Below Dark | Surface (A | A11) | Dep | oleted Mat | trix (F3) | | | | |
| | Thick Dark Surface (A | A12) | | Red | dox Dark S | Surface (F6) | | 3Indicators of | f bydranbytia yawat | ation and watland |
| | Sandy Mucky Mineral | I (S1) | | Dep | oleted Dar | rk Surface (F7) | 1 | | f hydrophytic veget nust be present, un | |
| | Sandy Gleyed Matrix | (S4) | | Red | dox Depre | essions (F8) | | , ,, | problematic. | |
| | <u> </u> | | | | | | Hydric Soil Pre | sent? Yes | | No X |
| Remarks: | DGY | | | | | | Hydric Soil Pre | sent? Yes | | No X |
| Remarks: HYDROLO Wetland Hy | DGY ydrology Indicator | | uviradı akaşık all 4 | ant apply) | | | Hydric Soil Pre | | Undicators (2 a | |
| Remarks: HYDROLO Wetland Hy | OGY ydrology Indicator icators (minimum o | | uired; check all th | , | ıter staine | d Leaves (R9) | | | y Indicators (2 o | r more required |
| Remarks: HYDROLO Wetland Hy | OGY ydrology Indicator icators (minimum o Surface Water (A1) | of one req | uired; check all th | Wa | eter stainee | | Hydric Soil Pre | | y Indicators (2 o Water stained Le (MLRA1, 2, 4A, | r more required aves (B9) |
| Remarks: HYDROLO Wetland Hy | OGY ydrology Indicator icators (minimum o Surface Water (A1) High Water Table (A2 | of one req | uired; check all th | Wa | 2, 4A, and | 4B) | | | Water stained Le | r more required aves (B9) and 4B) |
| Remarks: HYDROLO Wetland Hy | OGY ydrology Indicator icators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) | of one req | uired; check all th | Wa 1, 2 | 2, 4A, and t Crust (B | 4B) 11) | (Except MLRA | | Water stained Le (MLRA1, 2, 4A, a Drainage Patterns | r more required aves (B9) and 4B) s (B10) |
| Remarks: HYDROLO Wetland Hy | DGY ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) | one req | uired; check all th | Wa 1, 2 Sali | 2, 4A, and t Crust (B uatic Inver | 4B) 11) tebrates (B13) | (Except MLRA | | Water stained Le (MLRA1, 2, 4A, and Drainage Patterns Dry-Season Water | r more required aves (B9) and 4B) s (B10) er Table (C2) |
| Remarks: HYDROLO Wetland Hy | JGY ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B | one req | uired; check all th | Wa 1, 2 Sal Aqu Hyo | 2, 4A , and t Crust (B uatic Inver drogen Su | 4B) 11) tebrates (B13) | (Except MLRA | | Water stained Lee (MLRA1, 2, 4A, a) Drainage Patterns Dry-Season Wate Saturation Visible | r more required aves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imager |
| Remarks: HYDROLO Wetland Hy | pogy ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) | of one required on | uired; check all th | Wa 1, 2 Sal Aqu Hyc | 2, 4A, and t Crust (B uatic Inver drogen Su dized Rhiz | 4B) 11) tebrates (B13) lfide Odor (C1 zospheres alor | (Except MLRA) ng Living Roots (C3) | | Water stained Lee (MLRA1, 2, 4A, 4) Drainage Pattern: Dry-Season Wate Saturation Visible Geomorphic Posi | r more required aves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imager |
| Remarks: HYDROLO Wetland Hy | pogy ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- | of one required on | uired; check all th | Wa 1, 2 Sali Aqu Hyo Oxi | 2, 4A, and t Crust (B uatic Inver drogen Su dized Rhiz esence of I | 4B) 11) tebrates (B13) lifide Odor (C1 zospheres alor Reduced Iron (| (Except MLRA) ng Living Roots (C3) C4) | Secondary | Water stained Lee (MLRA1, 2, 4A, 3) Drainage Pattern: Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard | r more required aves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imager tion (D2) (D3) |
| Remarks: HYDROLO Wetland Hy | DGY ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) | of one req 2) 32) 4) | uired; check all th | Wa 1, 2 Sall Aqu Hyc Oxi Pre | 2, 4A, and t Crust (B uatic Inver drogen Su dized Rhiz esence of I | 11) tebrates (B13) lifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) | | Water stained Le. (MLRA1, 2, 4A, Drainage Pattern: Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test | r more required aves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imager tion (D2) (D3) (D5) |
| Remarks: HYDROLO Wetland Hy | ydrology Indicator icators (minimum of Surface Water (A1)) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (| of one req 2) 32) 4) B6) | | Wa 1, 2 Sall Aqu Hyc Oxi Pre Rec Stu | 2, 4A, and t Crust (B' uatic Inver drogen Su dized Rhiz esence of I cent Iron F nted or St | 11) tebrates (B13) lifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary | Water stained Le. (MLRA1, 2, 4A, a) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun | r more required aves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imager tion (D2) (D3) (D5) ds (D6) (LRR A) |
| Remarks: HYDROLO Wetland Hy | DGY ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) | of one req 2) 32) 4) B6) Aerial Ima | igery (B7) | Wa 1, 2 Sall Aqu Hyc Oxi Pre Rec Stu | 2, 4A, and t Crust (B' uatic Inver drogen Su dized Rhiz esence of I cent Iron F nted or St | 11) tebrates (B13) lifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary | Water stained Le. (MLRA1, 2, 4A, Drainage Pattern: Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test | r more required aves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imager tion (D2) (D3) (D5) ds (D6) (LRR A) |
| HYDROLO Wetland Hy | DGY ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated C | of one req 2) 32) 4) B6) Aerial Ima | igery (B7) | Wa 1, 2 Sall Aqu Hyc Oxi Pre Rec Stu | 2, 4A, and t Crust (B' uatic Inver drogen Su dized Rhiz esence of I cent Iron F nted or St | 11) tebrates (B13) lifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary | Water stained Le. (MLRA1, 2, 4A, a) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun | r more required aves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imager tion (D2) (D3) (D5) ds (D6) (LRR A) |
| HYDROLO Wetland Hy Primary Ind | pogy ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B-1) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: | of one req 2) 32) 4) B6) Aerial Ima | igery (B7) urface (B8) | Wa 1, 2 Sall Aqu Hyc Oxi Pre Rec Stu Oth | 2, 4A, and t Crust (B uatic Inver drogen Su dized Rhiz sence of I cent Iron F nted or St aer (Explain | 11) tebrates (B13) lifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary | Water stained Le. (MLRA1, 2, 4A, a) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun | r more required aves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imager tion (D2) (D3) (D5) ds (D6) (LRR A) |
| HYDROLO Wetland Hy Primary Ind Field Obse | DGY ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: Ter Present? Yes | of one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) | Wa 1, 2 Salt Aqu Hyc Oxi Pre Rec Stu Oth | 2, 4A, and t Crust (B uatic Inver drogen Su dized Rhi: esence of I cent Iron F nted or St her (Explain | 11) tebrates (B13) lfide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary | Water stained Le. (MLRA1, 2, 4A, 3) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun Frost-Heave Hum | r more required aves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imager tion (D2) (D3) (D5) ds (D6) (LRR A) |
| Field Obse Surface Water Table F | JOGY ydrology Indicator icators (minimum of Surface Water (A1)) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: ar Present? Yes Present? Yes | of one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) No X | Ma 1, 2 Sal Aqu Hyc Oxi Pre Rec Stu Oth Depth (inc | 2, 4A, and t Crust (B uatic Inver- drogen Su dized Rhiz sence of I cent Iron F nited or St her (Explain | 11) tebrates (B13) lifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary X | Water stained Le. (MLRA1, 2, 4A, a) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun Frost-Heave Hum | r more required aves (B9) and 4B) s (B10) er Table (C2) er on Aerial Imager tion (D2) (D3) (D5) ds (D6) (LRR A) mocks (D7) |
| HYDROLO Wetland Hy Primary Ind Field Obse | JOGY Adrology Indicator icators (minimum of Surface Water (A1)) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: The Present? Yes Present? Yes esent? Yes | of one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) | Wa 1, 2 Salt Aqu Hyc Oxi Pre Rec Stu Oth | 2, 4A, and t Crust (B uatic Inver- drogen Su dized Rhiz sence of I cent Iron F nited or St her (Explain | 11) tebrates (B13) lfide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) | Secondary | Water stained Le. (MLRA1, 2, 4A, a) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun Frost-Heave Hum | r more required aves (B9) and 4B) s (B10) er Table (C2) e on Aerial Imager tion (D2) (D3) (D5) ds (D6) (LRR A) |
| HYDROLO Wetland Hy Primary Ind Field Obse Surface Water Water Table F Saturation Pre includes capilla | JOGY Adrology Indicator icators (minimum of Surface Water (A1)) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: The Present? Yes Present? Yes esent? Yes | of one requestion (2) 32) 4) B6) Aerial Ima Concave Si | gery (B7) urface (B8) No X No X No X | Wa 1, 2 Sall Aqu Hyc Oxi Pre Rec Stu Oth Depth (inc | 2, 4A, and t Crust (B uatic Inver drogen Su dized Rhiz sence of I cent Iron F nted or St aer (Explain | 14B) 11) tebrates (B13) lifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) >10 >10 | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary X | Water stained Le. (MLRA1, 2, 4A, a) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun Frost-Heave Hum | r more required aves (B9) and 4B) s (B10) er Table (C2) er on Aerial Imager tion (D2) (D3) (D5) ds (D6) (LRR A) mocks (D7) |
| HYDROLO Wetland Hy Primary Ind Field Obse Surface Water Water Table F Saturation Pre includes capilla | DGY ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: In Present? Yes | of one requestion (2) 32) 4) B6) Aerial Ima Concave Si | gery (B7) urface (B8) No X No X No X | Wa 1, 2 Sall Aqu Hyc Oxi Pre Rec Stu Oth Depth (inc | 2, 4A, and t Crust (B uatic Inver drogen Su dized Rhiz sence of I cent Iron F nted or St aer (Explain | 14B) 11) tebrates (B13) lifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) >10 >10 | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary X | Water stained Le. (MLRA1, 2, 4A, a) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun Frost-Heave Hum | r more required aves (B9) and 4B) s (B10) er Table (C2) er on Aerial Imager tion (D2) (D3) (D5) ds (D6) (LRR A) mocks (D7) |
| HYDROLO Wetland Hy Primary Ind Field Obse Surface Water Vater Table F Saturation Pre includes capilla | DGY ydrology Indicator icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: In Present? Yes | of one requestion (2) 32) 4) B6) Aerial Ima Concave Si | gery (B7) urface (B8) No X No X No X | Wa 1, 2 Sall Aqu Hyc Oxi Pre Rec Stu Oth Depth (inc | 2, 4A, and t Crust (B uatic Inver drogen Su dized Rhiz sence of I cent Iron F nted or St aer (Explain | 14B) 11) tebrates (B13) lifide Odor (C1 zospheres alor Reduced Iron (Reduction in Pl tressed Plants in in Remarks) >10 >10 | (Except MLRA) ng Living Roots (C3) C4) owed Soils (C6) (D1) (LRR A) Wetland Hyd | Secondary X | Water stained Le. (MLRA1, 2, 4A, a) Drainage Patterns Dry-Season Wate Saturation Visible Geomorphic Posi Shallow Aquitard Fac-Neutral Test Raised Ant Moun Frost-Heave Hum | r more required aves (B9) and 4B) s (B10) er Table (C2) er on Aerial Imager tion (D2) (D3) (D5) ds (D6) (LRR A) mocks (D7) |

6904

| oject/Site: | Walgra | ve Prope | erty | | City/County: | Tuala | tin/Washing | gton | Sar | npling Date: | | 9/15/ | 2021 |
|-----------------------------------|-------------|---------------|-----------------|---------|-------------------|---------------------|------------------|-------------------------------|-----------|----------------|--------------------|------------|-----------|
| plicant/Owner: | Phelan De | evelopm | ent | _ | | | | State: | OR | | Sampling | g Point: | 11 |
| estigator(s): | | TF/MS | | | Section, To | wnship, Range: | | Secti | | — ownship 2 | | _ | |
| ndform (hillslope, terr | | | F | lat | • | Local relief (co | ncave, convex | | • | none | | pe (%): | 1 |
| oregion (LRR): | | | A | | Lat: | | | Long: | | | | Datum: | WSG85 |
| I Map Unit Name: | | | | Cov | ve clay | - | | | | n: | | lone | |
| climatic/hydrologic | | | | | | Yes | х | | | (if no, exp | | | |
| vegetation | | | • | | • | | | | | - ' | | Υ | |
| | | _ | | | • | | | | | ent: (1/N) | | <u>'</u> | |
| vegetation | 3011 | _ 01 11 | iyurology | | naturally problet | nauc? n needed | і, ехріані ану а | answers in K | emarks.) | | | | |
| MMARY OF FI | NDINGS | – Atta | ich site n | nap s | showing san | npling point | locations | , transect | s, impo | rtant fea | tures, e | tc. | |
| rophytic Vegetation | | Yes | Х | | | | | | - | | | | |
| ric Soil Present? | | Yes | x | | | Is Sampled Ar | | Yes | Х | | No | | |
| tland Hydrology Pre | sent? | Yes | x | - No | | a vvetiai | iiu : | | | | | | |
| narks: | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| GETATION - U | lse scier | ntific na | | | | L. P. Z | ln. · | - - · | | | | | |
| | | | absolu % cov | | Dominant Species? | Indicator Status | Dominand | ce Test wo | rksheet | | | | |
| <u>e Stratum</u> (plot si | ze: | 30 |) | | , | | Number of [| Dominant Sp | ecies | | | | |
| Fraxinus latifoli | ia | | 30 | | X | FACW | | BL, FACW, o | | | 6 | (| A) |
| | | | | | | | 1 | | | | | | |
| | | | | | | | Total Numb | er of Domina | nt | | | | |
| | | | | | | | Species Acr | ross All Strat | a: | | 6 | (| В) |
| | | | 30 | | = Total Cover | | | | | | | | |
| ling/Shrub Stratum | (plot siz | :e: 30 |) | | | | Percent of D | Dominant Sp | ecies | | | | |
| Rosa pisocarpa | | | ′ | | Х | FAC | | BL, FACW, o | | | 100% | (| A/B) |
| Crataegus mon | | | 10 | | X | FAC | | | | | | | , |
| Rosa nutkana | | | 10 | | X | FAC | Prevalenc | e Index W | orkshee | t: | | | |
| | | | | | | | Total % Cov | er of | _ | Multiply b | y: | | |
| | | | | | | | OBL S | Species | | x 1 = | | 0 | |
| | | | 30 | | = Total Cover | | | species | | x 2 = | | 0 | |
| | | | | | | | | Species | | x 3 = | | 0 | |
| Stratum (plot si | ze: | 10 | .) | | | | | Species | | x 4 = | | 0 | |
| Poa annua | | | 50 | | <u> </u> | FAC | | Species | | _ x5= | | 0 | 5) |
| Agrostis capilla | | | 45 | | <u> </u> | FAC | Colum | n Totals | 0 | (A) | | 0 (| В) |
| Lotus cornicula Holcus lanatus | ius | | 10 10 | | | FAC | Provid | lence Index : | -R/A - | | #DIV/0! | | |
| Schedonorus a | rundinac | eus | 5 | | | FAC | Fieva | ionios inuex - | - DIA - | | . DI VIU: | | |
| Jacobaea vulga | | | <u>5</u> | | | FACU | Hydrophy | tic Vegeta | tion Indi | cators: | | | |
| yu | | | . <u> </u> | | | | | | | Test for Hyd | rophytic V | egetation | |
| | | | | | | | 1 - | | - | ance Test is | | | |
| | | | 125 | | = Total Cover | | _ | | 3-Prevale | ence Index is | ≤ 3.0 ¹ | | |
| | | | | | | | | | 4-Morpho | ological Adap | otations¹ (p | orovide su | upporting |
| ody Vine Stratum | (plot size: | |) | | | | 1 | | data in R | emarks or o | n a separa | te sheet) | |
| | | | | | | | 1 _ | | - | nd Non-Vaso | | | |
| | | | | | | | _ | | - | atic Hydroph | | | |
| | | | 0 | | = Total Cover | | | of hydric soil problematic | | nd hydrology | must be p | resent, u | nless |
| | | | | | | | Hydrophy | | | | | | |
| | | | | | | | Vegetatio | n | Υe | s X | | No | |
| Bare Ground in Herb | Stratum | | | _ | | | Present? | | | | | _ | |

| Depth (Inches) 0-12 Type: C=Concent Hydric Soil Ind Hist Hist Blac Hyd Dep Thic San | ration, D=Depletion, Ficators: (Applications) (A1) ic Epipedon (A2) ck Histic (A3) rogen Sulfide (A4) eleted Below Dark Surface (A12) | % Color (moi 5YR 4/6 | Redist) % 6 20 | ox Features Type¹ C C or Coated San | M,PL d Grains. | Texture Clay Loam | Remarks Coarse, Medium Location: PL=Pore Lining, M=Matrix. |
|---|---|---|----------------------|---|--------------------|--|---|
| Type: C=Concent Hydric Soil Ind Hist Hist Hist Dep Thic | ration, D=Depletion, Ficators: (Applications) (A1) ic Epipedon (A2) ck Histic (A3) rogen Sulfide (A4) eleted Below Dark Surface (A12) | RM=Reduced Matrix | sst) % 6 20 | Type¹ C C or Coated San wise noted.) Sandy Redo | M,PL | Clay Loam | Coarse, Medium 2Location: PL=Pore Lining, M=Matrix. |
| Type: C=Concent Hydric Soil Ind Hist Hist Blac Hyd Dep Thic | ration, D=Depletion, Ficators: (Applications) (A1) ic Epipedon (A2) ck Histic (A3) rogen Sulfide (A4) eleted Below Dark Surface (A12) | RM=Reduced Matrix | 20 20, CS=Covered of | C Or Coated San vise noted.) Sandy Redo | M,PL | Clay Loam | Coarse, Medium 2Location: PL=Pore Lining, M=Matrix. |
| Type: C=Concent Hydric Soil Ind Hist Hist Blace Hyd Dep Thice | ration, D=Depletion, ficators: (Applications) (A1) ic Epipedon (A2) ck Histic (A3) rogen Sulfide (A4) eleted Below Dark Surface (A12) | RM=Reduced Matrix ble to all LRRs, u | , CS=Covered o | or Coated San vise noted.) Sandy Redo | d Grains. | | ² Location: PL=Pore Lining, M=Matrix. |
| Hist Hist Hist Hyd Dep Thic | icators: (Applications) ic Epipedon (A2) ic Epipedon (A2) ick Histic (A3) rogen Sulfide (A4) ileted Below Dark Surfick Dark Surface (A12) | ole to all LRRs, u | | vise noted.) _Sandy Redo | | Indic | |
| ydric Soil Ind Hist Hist Blace Hyd Dep Thic | icators: (Applications) ic Epipedon (A2) ic Epipedon (A2) ick Histic (A3) rogen Sulfide (A4) ileted Below Dark Surfick Dark Surface (A12) | ole to all LRRs, u | | vise noted.) _Sandy Redo | | Indic | |
| ydric Soil Ind Hist Hist Blace Hyd Dep Thic | icators: (Applications) ic Epipedon (A2) ic Epipedon (A2) ick Histic (A3) rogen Sulfide (A4) ileted Below Dark Surfick Dark Surface (A12) | ole to all LRRs, u | | vise noted.) _Sandy Redo | | Indic | |
| ydric Soil Ind Hist Hist Blace Hyd Dep Thic | icators: (Applications) ic Epipedon (A2) ic Epipedon (A2) ick Histic (A3) rogen Sulfide (A4) ileted Below Dark Surfick Dark Surface (A12) | ole to all LRRs, u | | vise noted.) _Sandy Redo | | Indic | |
| ydric Soil Ind Hist Hist Blace Hyd Dep Thic | icators: (Applications) cosol (A1) ic Epipedon (A2) ck Histic (A3) rogen Sulfide (A4) eleted Below Dark Surfek Dark Surface (A12) | ole to all LRRs, u | | vise noted.) _Sandy Redo | | Indic | |
| Hist Hist Blac Hyd Dep Thic | osol (A1) ic Epipedon (A2) ck Histic (A3) rogen Sulfide (A4) leted Below Dark Sur | | inless other | Sandy Redo | | Indic | |
| Hist Blac Hyd Dep Thic | ic Epipedon (A2) ck Histic (A3) rogen Sulfide (A4) leted Below Dark Sur ck Dark Surface (A12) | face (A11) | | _ | v (CE) | | cators for Problematic Hydric Soils ³ : |
| Blace Hyd Dep Thice San | ck Histic (A3) rogen Sulfide (A4) eleted Below Dark Sur ck Dark Surface (A12) | face (A11) | | Stripped Mai | x (55) | | 2 cm Muck (A10) |
| Hyd Dep Thio San | rogen Sulfide (A4) leted Below Dark Sur kk Dark Surface (A12) | face (A11) | | | trix (S6) | | Red Parent Material (TF2) |
| Dep Thic San | leted Below Dark Sur | face (A11) | | Loamy Muck | xy Mineral (F1) (| except MLRA 1) | Very Shallow Dark Surface (TF12) |
| Thio San | k Dark Surface (A12) | face (A11) | | Loamy Gley | ed Matrix (F2) | | Other (explain in Remarks) |
| San | | | | Depleted Ma | atrix (F3) | | |
| | dy Mysela Mineral (C1 | | X | Redox Dark | Surface (F6) | | |
| San | dy Mucky Mineral (S1 |) | | Depleted Da | rk Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or |
| | dy Gleyed Matrix (S4) | ı | | Redox Depre | essions (F8) | | problematic. |
| ostrictivo I av | er (if present): | | | - | | | - |
| | | | | | | | |
| IYDROLOGY | | | | | | | |
| - | logy Indicators: ors (minimum of or | e required: check | call that apply | v) | | | Secondary Indicators (2 or more required |
| | face Water (A1) | | <u></u> | ' | ed Leaves (B9) (| Except MLRA | Water stained Leaves (B9) |
| Higl | n Water Table (A2) | | | 1, 2, 4A, and | d 4B) | | (MLRA1, 2, 4A, and 4B) |
| Sati | uration (A3) | | | Salt Crust (E | 311) | | Drainage Patterns (B10) |
| Wa | er Marks (B1) | | | _Aquatic Inve | rtebrates (B13) | | Dry-Season Water Table (C2) |
| Sed | iment Deposits (B2) | | | _Hydrogen Sı | ulfide Odor (C1) | | Saturation Visible on Aerial Imager |
| Drift | Deposits (B3) | | X | Oxidized Rh | izospheres alon | g Living Roots (C3) | Geomorphic Position (D2) |
| Alga | al Mat or Crust (B4) | | | Presence of | Reduced Iron (0 | C4) | Shallow Aquitard (D3) |
| Iron | Deposits (B5) | | | Recent Iron | Reduction in Plo | owed Soils (C6) | X Fac-Neutral Test (D5) |
| Sur | face Soil Cracks (B6) | | | Stunted or S | tressed Plants (| D1) (LRR A) | Raised Ant Mounds (D6) (LRR A) |
| Inur | idation Visible on Aer | al Imagery (B7) | | Other (Expla | in in Remarks) | | Frost-Heave Hummocks (D7) |
| Spa | rsely Vegetated Cond | ave Surface (B8) | | | | | |
| ield Observat | ions: | | | | | | |
| urface Water Pre | esent? Yes | No X | Dept | h (inches): | >12 | | |
| /ater Table Prese | ent? Yes | No X | . Dept | h (inches): | >12 | Wetland Hyd | drology Present? |
| aturation Present | | No X | Depti | h (inches): | >12 | | Yes X No |
| escribe Recorde | d Data (stream gauge | , monitoring well, ae | rial photos, pre | vious inspection | ons), if available | <u>. </u> | |
| | . 5 | <i>5</i> , | . /1 | • | • | | |
| | | | | | | | |
| | | | | | | | |

6904

| Project/Site: Walgra | ve Proper | ty | City/County: | Tuala | tin/Washingto | n | Sampling Date | 9/15 | /2021 |
|--------------------------------------|----------------|----------------------|--------------------|-------------------|-----------------------------------|----------------|---------------------------------------|----------------------------------|------------|
| | evelopme | nt | | | | State: | OR | Sampling Point: | 12 |
| Investigator(s): | TF/MS | | Section, To | wnship, Range: | | Section 2 | 22, Township 2 | 2S, Range 1W | |
| Landform (hillslope, terrace, etc.:) | | Slope | • | Local relief (cor | ncave, convex, no | one): | none | Slope (%): | 2 |
| Subregion (LRR): | LRR A | · | Lat: | | | Long: | | Datum: | WSG85 |
| Soil Map Unit Name: | | Cov | e clay | | | NWI Classif | fication: | None | |
| Are climatic/hydrologic conditions | on the site tv | | | Yes | X | No | | plain in Remarks) | |
| Are vegetation Soil | - | | significantly dist | | | | present? (Y/N) | | |
| Are vegetation Soil | _ | drology | • | | l, explain any ans | | . , , | | |
| Are vegetation Soil | | | Tiaturally problet | nauc: ii needed | i, explain any ans | wers in rema | iks.) | | |
| SUMMARY OF FINDINGS | S - Attac | h site map s | showing san | npling point | locations, tr | ansects, i | mportant fea | tures, etc. | |
| Hydrophytic Vegetation Present? | Yes | X No | | Is Sampled Ar | | | | | |
| Hydric Soil Present? | Yes | No | Х | a Wetlar | | Yes | | No X | |
| Wetland Hydrology Present? | Yes | No | Х | | | | | _ | |
| Remarks: | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| VEGETATION - Use scie | ntific nan | nes of plants | S. | | - | | | | |
| | | absolute | Dominant | Indicator | Dominance 1 | Test works | heet: | | |
| Tree Stratum (plot size: | 30) | % cover | Species? | Status | Number of Dom | ninant Species | 2 | | |
| 1 Quercus garryana | | 5 | X | FACU | That are OBL, f | • | | 3 | (A) |
| 2 | | | | 1 400 | That are ODL, I | i AOW, oi i A | | | (八) |
| 3 | | | | | Total Number o | of Dominant | | | |
| 4 | | | | | Species Across | | | 4 | (B) |
| - | | 5 | = Total Cover | | ' | | | | () |
| Sapling/Shrub Stratum (plot siz | ze: 30 | ` | | | Percent of Dom | sinant Chaolas | | | |
| 1 Crataegus monogyna | e: | _ ⁾ 40 | X | FAC | Percent of Dom That are OBL, I | • | | 75% | (A/B) |
| 2 Rosa pisocarpa | | 20 | X | FAC | That are Obc, i | IACW, OITA | | 1370 | (٨/٥) |
| 3 Rubus armeniacus | | 10 | | FAC | Prevalence I | ndex Work | sheet: | | |
| 4 Crataegus douglasii | | 5 | | FAC | Total % Cover | | Multiply I | ov: | |
| 5 | | | | | OBL Spec | | x 1 = | | |
| | | 75 | = Total Cover | | FACW spe | ecies | x 2 = | = 0 | |
| | | | | | FAC Spec | cies | x 3 = | 0 | |
| Herb Stratum (plot size: | 10) | | | | FACU Spe | ecies | x 4 = | = 0 | |
| 1 Unidentified grass | | 65 | X | (FAC) | UPL Spec | cies | x 5 = | | |
| 2 Cynosurus cristatus | | 15 | | FACU | Column To | otals | 0 (A) | 0 | (B) |
| 3 Poa sp | | 15 | | (FAC) | | 54 | | #DD//01 | |
| 4 Leontodon saxatilis | | | | FACU | Prevalend | ce Index =B/A | | #DIV/0! | |
| 5 Jacobaea vulgaris 6 | | | | FACU | Hydrophytic | Vegetation | Indicators: | | |
| 7 | | | | | Пушорпушс | _ | | drophytic Vegetatio | n |
| 8 | | | | | - | | Napid Test for Hy Dominance Test i | | |
| - | | 102 | = Total Cover | | - | | revalence Index i | _ | |
| | | | - • | | | | | ptations ¹ (provide s | supporting |
| Woody Vine Stratum (plot size: | |) | | | - | data | a in Remarks or o | on a separate shee |) |
| 1 | | | | | | 5- V | Wetland Non-Vas | cular Plants ¹ | |
| 2 | | | | | | Pro | blematic Hydroph | ytic Vegetation ¹ (E | xplain) |
| | | 0 | = Total Cover | | | | wetland hydrolog | must be present, | unless |
| | | | | | disturbed or pro | | | | |
| | | | | | Vegetation | | Yes | No | |
| % Bare Ground in Herb Stratum | | | | | * ogctation | | | | |

| | | | PHS # | 6904 | _ | | Sampling Point: | - |
|--|---|------------|---|---|---|---|--|---|
| | ription: (Describe to the | he depth i | needed to docume | | | ce of indicators.) | | |
| Depth | Matrix | 0/ | 0.1 (; ; ;) | Redox Features | Loc ² | . | D 1 | |
| (Inches) | Color (moist) | % | Color (moist) | % Type' | | Texture | Remarks | |
| 0-4 | 10YR 2/2 | 98 | 10YR 3/4 | 1C | PL | Sandy Loam | Fine | |
| 0-4 | | | 7.5YR 3/4 | 1C | M | | <u></u> | |
| 4-12 | 10YR 2/2 | 99 | 10YR 3/4 | 1C | M | Sandy Loam | Fine | |
| | - - | | | | | | <u> </u> | |
| | - - | | | | | | · - | |
| | - - | | | | | | | |
| | <u> </u> | | | | | | | |
| | ncentration, D=Depletic | | | | | | ² Location: PL=Pore Lining, M=Mat | |
| ydric Soil | I Indicators: (Appli | cable to | all LRRs, unles | | • | Indic | cators for Problematic Hydric S | Soils": |
| | Histosol (A1) | | | Sandy Re | dox (S5) | | 2 cm Muck (A10) | |
| | Histic Epipedon (A2) | | | Stripped N | Matrix (S6) | | Red Parent Material | (TF2) |
| | Black Histic (A3) | | | Loamy Mu | ıcky Mineral (F1) (e | except MLRA 1) | Very Shallow Dark S | urface (TF12) |
| | Hydrogen Sulfide (A4) |) | | Loamy Gle | eyed Matrix (F2) | | Other (explain in Rer | narks) |
| | Depleted Below Dark | Surface (A | A11) | Depleted i | Matrix (F3) | | | |
| | Thick Dark Surface (A | A12) | | Redox Da | rk Surface (F6) | | a | |
| | Sandy Mucky Mineral | (S1) | | Depleted I | Dark Surface (F7) | | Indicators of hydrophytic vegetation hydrology must be present, unless | |
| | Sandy Gleyed Matrix (| (S4) | | Redox De | pressions (F8) | | problematic. | , alotalbou Ul |
| epth (inche | es): | | | | | Hydric Soil Pre | sent? Yes No | <u> </u> |
| ype: Depth (inchesemarks: | | | | | | Hydric Soil Pre | sent? Yes No |) X |
| emarks: | OGY ydrology Indicators | | uirod: abaak all t | ect opply) | | Hydric Soil Pre | | |
| epth (inche | OGY ydrology Indicators licators (minimum of | | uired; check all tl | | | | Secondary Indicators (2 or m | ore required |
| epth (inche emarks: YDROLO | OGY ydrology Indicators licators (minimum of Surface Water (A1) | f one req | uired; check all tl | | ned Leaves (B9) (I | | | ore required |
| epth (inche emarks: YDROLO | OGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 | f one req | uired; check all tl | Water stai | ined Leaves (B9) (I | | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and | ore required s (B9) 4B) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) | f one req | uired; check all tl | Water stai | ned Leaves (B9) (I In d 4B) (B11) | | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and | ore required s (B9) 4B) 10) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) | f one req | uired; check all tl | Water stai 1, 2, 4A, a Salt Crust Aquatic In | ined Leaves (B9) (ind 4B) (B11) vertebrates (B13) | | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B | ore required s (B9) 4B) 10) able (C2) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B | f one req | uired; check all tl | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen | ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) | Except MLRA | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Tale | ore required s (B9) 4B) 10) able (C2) Aerial Imager |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) | f one req | uired; check all tl | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F | ned Leaves (B9) (I ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along | Except MLRA g Living Roots (C3) | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Tail Saturation Visible on Geomorphic Position | ore required s (B9) 4B) 10) able (C2) Aerial Imagel (D2) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 | f one req | uired; check all tl | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence | ined Leaves (B9) (ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along | Except MLRA g Living Roots (C3) C4) | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water To Saturation Visible on Geomorphic Position Shallow Aquitard (D3) | ore required (B9) 4B) 10) able (C2) Aerial Imager (D2) |
| epth (inche | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | f one req | uired; check all tl | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro | ned Leaves (B9) (I ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along | Except MLRA g Living Roots (C3) (C4) (Wed Soils (C6) | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Tail Saturation Visible on Geomorphic Position | ore required s (B9) 4B) 10) able (C2) Aerial Imager (D2) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 | f one req | | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or | ined Leaves (B9) (I ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo | Except MLRA g Living Roots (C3) (C4) (Wed Soils (C6) | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water To Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 | ore required s (B9) 4B) 10) able (C2) Aerial Imager (D2) 3) D6) (LRR A) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B | f one req | gery (B7) | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or | ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo | Except MLRA g Living Roots (C3) (C4) (Wed Soils (C6) | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water To Saturation Visible on Geomorphic Position Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (| ore required s (B9) 4B) 10) able (C2) Aerial Imager (D2) (D2) (D) |
| epth (inche emarks: YDROLC /etland Hy rimary Ind | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C | f one req | gery (B7) | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or | ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo | Except MLRA g Living Roots (C3) (C4) (Wed Soils (C6) | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water To Saturation Visible on Geomorphic Position Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (| ore required s (B9) 4B) 10) able (C2) Aerial Imager (D2) 3) D6) (LRR A) |
| YDROLO Vetland Hyrimary Individual | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on A Sparsely Vegetated C | f one req | gery (B7) urface (B8) | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp | ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo | Except MLRA g Living Roots (C3) (C4) (Wed Soils (C6) | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water To Saturation Visible on Geomorphic Position Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (| ore required s (B9) 4B) 10) able (C2) Aerial Imager (D2) 3) D6) (LRR A) |
| epth (inche emarks: IYDROLO /etland Hy rimary Ind | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on A Sparsely Vegetated Corvations: er Present? Yes | f one req | gery (B7) urface (B8) No <u>X</u> | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp | ined Leaves (B9) (I ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo Stressed Plants (I Dain in Remarks) | g Living Roots (C3) C4) wwed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (| ore required s (B9) 4B) 10) able (C2) Aerial Imager (D2) 6) |
| epth (inche emarks: YDROLC /etland Hyrimary Ind | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C Irvations: Present? Yes Present? Yes | f one req | gery (B7) urface (B8) No X No X | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp | ined Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plotes Stressed Plants (Indian in Remarks) | g Living Roots (C3) C4) wwed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (| ore required s (B9) 4B) 10) able (C2) Aerial Imager (D2) s) (D6) (LRR A) cks (D7) |
| epth (inche emarks: YDROLC /etland Hy rimary Ind | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Corvations: er Present? Yes Present? Yes esent? Yes | f one req | gery (B7) urface (B8) No <u>X</u> | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp | ined Leaves (B9) (I ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plo Stressed Plants (I Dain in Remarks) | g Living Roots (C3) C4) wwed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (| ore required s (B9) 4B) 10) able (C2) Aerial Imager (D2) s) (D6) (LRR A) cks (D7) |
| ield Obse urface Water Table laturation Pricludes capilla | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Corvations: er Present? Yes Present? Yes esent? Yes | f one req | gery (B7) urface (B8) No | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Stunted or Other (Exp Depth (inches): Depth (inches): | ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plote Stressed Plants (Indian in Remarks) | Except MLRA g Living Roots (C3) (C4) (C4) (C5) (C6) (C7) (C7) (C7) (C7) (C7) (C7) (C7) (C7 | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (| ore required s (B9) 4B) 10) able (C2) Aerial Imager (D2) s) (D6) (LRR A) cks (D7) |
| epth (inchesemarks: YDROLO Vetland Hyrimary Independent of the control of the c | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C rvations: er Present? Yes esent? Yes esent? Yes ary fringe) | f one req | gery (B7) urface (B8) No | Water stai 1, 2, 4A, a Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Irc Stunted or Other (Exp Depth (inches): Depth (inches): | ned Leaves (B9) (Ind 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along of Reduced Iron (Con Reduction in Plote Stressed Plants (Indian in Remarks) | Except MLRA g Living Roots (C3) (C4) (C4) (C5) (C6) (C7) (C7) (C7) (C7) (C7) (C7) (C7) (C7 | Secondary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (| ore required s (B9) 4B) 10) able (C2) Aerial Imager (D2) s) D6) (LRR A) cks (D7) |

6904

| | Walgrav | e Prope | erty | City/County: | Tualat | tin/Washington | Sampling Date | : 9/15 | /2021 |
|--|--|-------------|--|-------------------------|-----------------------------|---|---|--|--|
| Applicant/Owner: | Phelan De | velopm | ent | | | State: | OR | Sampling Point: | 13 |
| Investigator(s): | | TF//MS | | Section, To | wnship, Range: | Section | on 22, Township | 2S, Range 1W | |
| Landform (hillslope, t | errace, etc.:) | | noi | | | ncave, convex, none): | none | Slope (%): | 1 |
| Subregion (LRR): | , | LRR | A | Lat: | , | Long: | | | WSG85 |
| Soil Map Unit Name: | | | Verboo | ort silty clay loam | - | | assification: | | |
| Are climatic/hydrolog | | n the site | | | Yes | X No | | plain in Remarks) | |
| Are vegetation | | | Hydrology | significantly dist | | Are "Normal Circumstan | | | |
| | | _ | - | | | | . , , | | |
| Are vegetation | 3011 | _ 0111 | - | naturally probler | nalice il needed | , explain any answers in R | emarks.) | | |
| SUMMARY OF | FINDINGS | - Atta | ich site m | ap showing san | npling point | locations, transect | s, important fea | atures, etc. | |
| - - - - - - - - - - - - - - - - - - - | on Present? | Yes | Х | No | | | | | |
| Hydric Soil Present? | | Yes | | No X | Is Sampled Ar a Wetlar | | | No X | |
| Wetland Hydrology P | resent? | Yes | x | No | | | | - | |
| Remarks: | | | | | | | | | |
| Sample point tak | en in the lo | west sp | ot. | | | | | | |
| | | | | | | | | | |
| VEGETATION - | Use scien | tific na | ames of pl | ants. | | | | | |
| | | | absolute | | Indicator | Dominance Test wo | rksheet: | | |
| | | | % cove | r Species? | Status | | | | |
| <u>Γree Stratum</u> (plot | size: | | _) | | | Number of Dominant Spe | | | (4) |
| 1 | | | | | | That are OBL, FACW, or | FAC: | 1 | (A) |
| 2 | | | | | | Tatal Niverban of Dansin | | | |
| 3 | | | . — | | | Total Number of Domina | | 1 | (B) |
| 4 | | | | = Total Cover | | Species Across All Strata | <u></u> | <u> </u> | (B) |
| | | | | = Total Covel | | | | | |
| Sapling/Shrub Stratu | m (plot size | »: <u> </u> |) | | | Percent of Dominant Spe | | | |
| 1 | | | | | | That are OBL, FACW, o | r FAC: | 100% | (A/B) |
| 2 | | | | | | Duestalan as Index W | a wheala a a to | | |
| 3 | | | | | | Prevalence Index W | | h | |
| 4 | | | | | | Total % Cover of | Multiply | | |
| 5 | | | | | | ORI Species | | | |
| 5 | | | | = Total Cover | | OBL Species | x1: | | |
| 5 | | | 0 | = Total Cover | | OBL Species FACW species FAC Species | x2: | = 0 | |
| | t size: | 10 | 0 | = Total Cover | | FACW species | x 2 | = 0 | |
| <u>-lerb Stratum</u> (plot | | 10 |) 70 | = Total Cover | (FAC) | FACW species FAC Species | x 2 : | = 0 = 0 = 0 | |
| Herb Stratum (plot | grass | 10 |) | _ | (FAC) | FACW species FAC Species FACU Species | x 2 : x 3 : x 4 : | 0 = 0 = 0 | (B) |
| Herb Stratum (plot 1 Unidentified g 2 Jacobaea vulg 3 Cynosurus cr | grass garis ristatus | 10 | 70 10 10 | _ | FACU FACU | FACW species FAC Species FACU Species UPL Species | x 2 : x 3 : x 4 : x 5 : | 0 0 0 0 0 0 | (B) |
| Herb Stratum (plot 1 Unidentified g 2 Jacobaea vul, 3 Cynosurus cr 4 Madia glomer | grass garis ristatus rata | 10 | 70 10 10 5 | _ | FACU FACU | FACW species FAC Species FACU Species UPL Species | x 2 : x 3 : x 4 : x 5 : 0 (A) | 0 = 0 = 0 | (B) |
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| | ription: (Describe to t | the depth | needed to docume | | | firm the absen | ce of indicators.) | | | | |
| Depth | Matrix | | | Redox F | - 1 | . 2 | | | | | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type' | Loc ² | Texture | | Remark | S | |
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| 3-7 | 7.5YR 2.5/2 | 100 | | | | | silt loam | | | | |
| 7-12+ | 7.5YR 2.5/3 | 100 | | | | | silt loam | | | | |
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| | Hydrogen Sulfide (A4 |) | | | | ed Matrix (F2) | | | Other (explain in | n Remarks) | |
| | Depleted Below Dark | Surface (A | A11) | De | epleted Ma | atrix (F3) | | | | | |
| | Thick Dark Surface (A | A12) | | Re | edox Dark | Surface (F6) | | 31 | | | |
| | Sandy Mucky Mineral | (S1) | | De | epleted Da | rk Surface (F7) | | | s of hydrophytic veg y must be present, ι | | |
| | Sandy Gleyed Matrix | (S4) | | Re | edox Depre | essions (F8) | | riyarolog | problematio | | .u 01 |
| estrictive | Layer (if present): | | | | | | | | | | |
| ype: | | | | | | | | | | | |
| epth (inche | | | | | | | | | | | |
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| Remarks: HYDROLO Vetland Hy | DGY | | uired; check all t | hat apply) | | | Hydric Soil Pre | | dary Indicators (2 | | |
| Remarks: HYDROLO Vetland Hy | DGY ydrology Indicator | | uired; check all tl | w | | ed Leaves (B9) (I | | | dary Indicators (2 Water stained L | or more requeseaves (B9) | |
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| HYDROLO Wetland Hy Primary Ind Field Obse Surface Water Vater Table Is Saturation Pre Includes capilla Describe Reco | pdrology Indicators icators (minimum of Surface Water (A1)) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: ar Present? Yes Present? Yes esent? Yes ary fringe) | f one req 2) 32) 4) B6) Aerial Ima Concave St | gery (B7) urface (B8) No | W 1, Se Ac Hy X Or Pr Re St Ot Depth (in Depth (in | 2, 4A, and alt Crust (Equatic Inversed of Second Iron unted or Second Iron unted Iron unt | d 4B) state (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo stressed Plants (I ain in Remarks) >12 >12 | Except MLRA g Living Roots (C3) (C4) wed Soils (C6) D1) (LRR A) Wetland Hy | Second | dary Indicators (2) Water stained L (MLRA1, 2, 4A Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar Fac-Neutral Tes Raised Ant Mou Frost-Heave Hu | or more requesaves (B9), and 4B) ns (B10) ter Table (C2) de on Aerial Imsition (D2) dd (D3) dd (D3) dd (D5) nds (D6) (LRF mmocks (D7) | uired) |
| HYDROLO Vetland Hy Primary Ind Field Obse Surface Water Vater Table Is Saturation Proncludes capilla Describe Reco | pdrology Indicators icators (minimum of Surface Water (A1)) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: ar Present? Yes Present? Yes esent? Yes ary fringe) | f one req 2) 32) 4) B6) Aerial Ima Concave St | gery (B7) urface (B8) No | W 1, Se Ac Hy X Or Pr Re St Ot Depth (in Depth (in | 2, 4A, and alt Crust (Equatic Inversed of Second Iron unted or Second Iron unted Iron unt | d 4B) state (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo stressed Plants (I ain in Remarks) >12 >12 | Except MLRA g Living Roots (C3) (C4) wed Soils (C6) D1) (LRR A) Wetland Hy | Second | dary Indicators (2) Water stained L (MLRA1, 2, 4A Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar Fac-Neutral Tes Raised Ant Mou Frost-Heave Hu | or more requesaves (B9), and 4B) ns (B10) ter Table (C2) de on Aerial Imsition (D2) dd (D3) dd (D3) dd (D5) nds (D6) (LRF mmocks (D7) | uired) |
| HYDROLO Wetland Hy Primary Ind Field Obse Surface Water Vater Table I Saturation Pre Includes capilla | pdrology Indicators icators (minimum of Surface Water (A1)) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: ar Present? Yes Present? Yes esent? Yes ary fringe) | f one req 2) 32) 4) B6) Aerial Ima Concave St | gery (B7) urface (B8) No | W 1, Se Ac Hy X Or Pr Re St Ot Depth (in Depth (in | 2, 4A, and alt Crust (Equatic Inversed of Second Iron unted or Second Iron unted Iron unt | d 4B) state (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Plo stressed Plants (I ain in Remarks) >12 >12 | Except MLRA g Living Roots (C3) (C4) wed Soils (C6) D1) (LRR A) Wetland Hy | Second | dary Indicators (2) Water stained L (MLRA1, 2, 4A Drainage Patter Dry-Season Wa Saturation Visib Geomorphic Po Shallow Aquitar Fac-Neutral Tes Raised Ant Mou Frost-Heave Hu | or more requesaves (B9), and 4B) ns (B10) ter Table (C2) de on Aerial Imsition (D2) dd (D3) dd (D3) dd (D5) nds (D6) (LRF mmocks (D7) | uired) |

6904

| Project/Site: | Walgrave Prop | erty | City/County: | Tuala | tin/Washington | Sam | pling Date: | 9/15 | /2021 |
|----------------------------|-----------------------|------------------------|----------------------|---------------------|--------------------------------------|--------------|------------------------------------|----------------------------|-----------|
| Applicant/Owner: P | helan Developn | nent | | | Sta | te: OR | s | ampling Point: | 14 |
| Investigator(s): | TF//MS | <u> </u> | Section, To | wnship, Range: | Sec | tion 22, To | – wnship 2S, | Range 1W | |
| Landform (hillslope, terra | ace, etc.:) | Flat | _ | Local relief (co | ncave, convex, none): | | none | Slope (%): | 1-2 |
| Subregion (LRR): | LRR | R A | Lat: | | Lor | ng: | | Datum: | WSG85 |
| Soil Map Unit Name: | | Verboort s | ilty clay loam | | | | : | None | |
| Are climatic/hydrologic c | onditions on the site | e typical for this tim | e of year? | Yes | X | No | (if no, explair | n in Remarks) | |
| Are vegetation X | Soil or | Hydrology | significantly dist | urbed? | Are "Normal Circums | ances" prese | nt? (Y/N) | Υ | |
| Are vegetation | | | _ | | l, explain any answers in | Remarks.) | | | |
| | | , ., <u> </u> | • | | | • | | | |
| SUMMARY OF FI | NDINGS - Atta | ach site map | showing san | npling point | locations, transe | cts, impo | tant featur | es, etc. | |
| Hydrophytic Vegetation F | Present? Yes | X No | | Is Sampled A | rea within | | | | |
| Hydric Soil Present? | Yes | X No | | a Wetla | | es X | _ No | | |
| Wetland Hydrology Pres | ent? Yes | X No | | | | | | | |
| Remarks: | | | | 1 | | | | | |
| The sample area is | grazed. | | | | | | | | |
| | | | | | | | | | |
| VEGETATION - U | se scientific n | • | | | T | | | | |
| | | absolute % cover | Dominant Species? | Indicator Status | Dominance Test v | vorksheet: | | | |
| Tree Stratum (plot siz | re: 30 |) | | | Number of Dominant | Species | | | |
| 1 Fraxinus latifolia | 1 | 15 | X | FACW | That are OBL, FACW, | or FAC: | | 2 | (A) |
| 2 | | | | | | | | | |
| 3 | | | | | Total Number of Domi | nant | | | |
| 4 | | | | | Species Across All Str | ata: | | 4 | (B) |
| | | 15 | = Total Cover | | | | | | |
| Sapling/Shrub Stratum | (plot size: 30 |) | | | Percent of Dominant S | Species | | | |
| 1 Rosa rubiginosa | ı | 5 | Х | UPL | That are OBL, FACW | or FAC: | 5 | 0% | (A/B) |
| 2 | | _ | | | | | | | |
| 3 | | | | | Prevalence Index | Worksheet | : | | |
| 4 | | | | | Total % Cover of | _ | Multiply by: | _ | |
| 5 | | | | | OBL Species | | _ x1= | 0 | |
| | | 5 | = Total Cover | | FACW species FAC Species | 15 66 | - x 2 = x 3 = | 30 198 | |
| Herb Stratum (plot siz | re: 10 |) | | | FACU Species | 50 | - x 4 = | 200 | |
| 1 Poa sp | | 60 | X | (FAC) | UPL Species | 5 | x 5 = | 25 | |
| 2 Cynosurus crist | atus | 40 | Х | FACU | Column Totals | 136 | (A) | 453 | (B) |
| 3 Jacobaea vulgar | is | 10 | | FACU | | | _ | | |
| 4 Schedonorus ar | undinaceus | 5 | | FAC | Prevalence Inde | x =B/A = | 3 | .33 | |
| 5 Cirsium arvense | ! | 1 | | FAC | | | | | |
| 6 | | | | | Hydrophytic Vege | tation Indic | ators: | | |
| 7 | | | | | | | | hytic Vegetation | ו |
| 8 | | | | | | | nce Test is >5 | | |
| | | 116 | = Total Cover | | | | nce Index is ≤ : ogical Adaptat | 3.0° ions¹ (provide s | upporting |
| Woody Vine Stratum (| (plot size: |) | | | | | | separate sheet | |
| 1 | | | | | | | d Non-Vascula | | , |
| 2 | | | | | × | Problema | ic Hydrophytic | Vegetation ¹ (E | xplain) |
| | | 0 | = Total Cover | | ¹ Indicators of hydric so | | d hydrology mu | ıst be present, ı | ınless |
| | | | | | disturbed or problema | tic. | | | |
| | | | | | - HVOROPhydia | | | | |
| % Bare Ground in Herb | Stratum | | | | Hydrophytic Vegetation | Yes | s X | No | |

| SOIL | | | | | | | | | | |
|--|--|--|---|---|--|--|---|---|--|---|
| Profile Descri | ption: (Describe to | the depth r | needed to docume | ent the indic | ator or con | firm the abser | ce of indicators.) | | | |
| Depth | Matrix | | | | Features | | , | | | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type ¹ | Loc ² | Texture | | Remarks | |
| 0-7 | 10YR 4/2 | 85 | 7.5YR 5/8 | 15 | С | PL | Sandy Loam | Fine | | |
| 7-9 | 7.5YR 3/2 | 95 | 7.5YR 5/8 | 5 | | | Silt Loam | fine | | |
| 9-14+ | 7.5YR 3/2 | 75 | 7.5YR 5/8 | 25 | С | PL | Silt Loam | fine | | |
| | | | | | | | | <u> </u> | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | - | | |
| - | | | | | | | | | | |
| T 0-0 | | DM-D- | durand Matrice OC | 0 | O4-4 O | d Oneine | - | 21 4: | DI - Dana Linina Mana | |
| | centration, D=Depleti | | | | | | India | | PL=Pore Lining, M=Mat | |
| - | Indicators: (Appli | icable to | all LRRS, unles | | | | indic | ators for i | - | SOIIS : |
| | Histosol (A1) | | | | Sandy Redo | | | 1 | 2 cm Muck (A10) | |
| | Histic Epipedon (A2) | | | | Stripped Mat | | | | Red Parent Material | |
| | Black Histic (A3) | | | | oamy Muck | xy Mineral (F1) (| except MLRA 1) | | Very Shallow Dark S | urface (TF12) |
| ! | Hydrogen Sulfide (A4 | 1) | | L | oamy Gleye | ed Matrix (F2) | | | Other (explain in Ren | narks) |
| X | Depleted Below Dark | Surface (A | (11) | <u>X</u> | Depleted Ma | atrix (F3) | | | | |
| | Thick Dark Surface (| A12) | | F | Redox Dark | Surface (F6) | | 3 | | |
| | Sandy Mucky Minera | l (S1) | | | Depleted Da | rk Surface (F7) | | | s of hydrophytic vegetatio / must be present, unless | |
| | Sandy Gleyed Matrix | (S4) | | F | Redox Depre | essions (F8) | | , | problematic. | |
| Restrictive I | Layer (if present) | : | | | | | | | | |
| Depth (inches | 3): | | | | | | Hydric Soil Pre | sent? Ye | s X No |) |
| Depth (inches | s): | | | | • | | Hydric Soil Pre | sent? Ye | s X No |) |
| Type: Depth (inches Remarks: | ` <u> </u> | | | | | | Hydric Soil Pre | sent? Ye | s X No | |
| Depth (inches | GY | | | | | | Hydric Soil Pre | sent? Ye | s X No |) |
| Depth (inches | ` <u> </u> | rs: | | | | | Hydric Soil Pre | sent? Ye | s X No | |
| Depth (inches Remarks: HYDROLO Wetland Hyd | GY | | uired; check all t | hat apply) | | | Hydric Soil Pre | | s X No | |
| Depth (inches Remarks: HYDROLO Wetland Hyd Primary India | GY drology Indicator | | uired; check all t | V | | ed Leaves (B9) (| | | ary Indicators (2 or m Water stained Leave | ore required)_s (B9) |
| Depth (inches Remarks: HYDROLO Wetland Hyd Primary India | GY drology Indicator cators (minimum c | of one requ | uired; check all t | V | Vater staine , 2 , 4A , anc | | | | ary Indicators (2 or m | ore required)_s (B9) |
| Depth (inches Remarks: HYDROLO Wetland Hyde Primary India | GY drology Indicator cators (minimum o Surface Water (A1) | of one requ | uired; check all t | V | | d 4B) | | | ary Indicators (2 or m Water stained Leave | ore required) s (B9) 4B) |
| Depth (inches Remarks: HYDROLO Wetland Hyd Primary India | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) | of one requ | uired; check all t | V 1 | , 2, 4A , and Salt Crust (B | d 4B) | | | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and | ore required) s (B9) 4B) |
| Depth (inches Remarks: HYDROLO Wetland Hyde Primary India | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) | of one requ | uired; check all t | V 1 | , 2, 4A, and Salt Crust (B Aquatic Inve | d 4B) 311) | Except MLRA | | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B | ore required) s (B9) 4B) 10) able (C2) |
| Depth (inches Remarks: HYDROLO Wetland Hyderimary India | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) | of one requ | uired; check all t | V 1 S | , 2 , 4A , and Salt Crust (B Aquatic Inve | d 4B) 311) rtebrates (B13) ulfide Odor (C1) | Except MLRA | | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta | ore required) s (B9) 4B) 10) able (C2) Aerial Imagery (6) |
| Depth (inches Remarks: HYDROLO Wetland Hyd Primary India | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B | of one requipers of one | uired; check all t | V 1 | , 2 , 4A , and Salt Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi | d 4B) 311) rtebrates (B13) ulfide Odor (C1) | Except MLRA g Living Roots (C3) | | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta | ore required) s (B9) 4B) 10) able (C2) Aerial Imagery ((D2) |
| Depth (inches Remarks: HYDROLO Wetland Hyde Primary India | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) | of one requipers of one | uired; check all t | V 1 1 S A A A A A A A A A A A A A A A A A | , 2 , 4A , and Salt Crust (B Aquatic Inve Hydrogen Su Dxidized Rhi | d 4B) st11) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (| Except MLRA g Living Roots (C3) | | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position | ore required) s (B9) 4B) 10) able (C2) Aerial Imagery ((D2) |
| Depth (inches Remarks: HYDROLO Wetland Hyde Primary India | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- | of one requipment of one required one | uired; check all t | V 1 1 S A A A A A A A A A A A A A A A A A | , 2, 4A, and Salt Crust (B Aquatic Inver- Hydrogen Su Dxidized Rhi Presence of Recent Iron I | d 4B) st11) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (| Except MLRA g Living Roots (C3) C4) owed Soils (C6) | | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 | ore required) s (B9) 4B) 10) able (C2) Aerial Imagery ((02) |
| Depth (inches Remarks: HYDROLO Wetland Hydeliand Hydeli | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) | of one requipment of one requirement of one requiremen | | V 1 1 S A A A A A A A A A A A A A A A A A | , 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Dxidized Rhi Presence of Recent Iron I Stunted or S | d 4B) If the states (B13) Iffide Odor (C1) Izospheres alon Reduced Iron (Reduction in Pla | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3) | ore required) s (B9) 4B) 10) able (C2) Aerial Imagery ((D2) s) b) |
| Depth (inches Remarks: HYDROLO Wetland Hyd Primary India | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (| of one required (2) 32) 4) (B6) Aerial Imag | gery (B7) | V 1 1 S A A A A A A A A A A A A A A A A A | , 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Dxidized Rhi Presence of Recent Iron I Stunted or S | d 4B) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (in Reduction in Plattressed Plants | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (| ore required) s (B9) 4B) 10) able (C2) Aerial Imagery ((D2) s) b) |
| Depth (inches Remarks: HYDROLO Wetland Hyde Primary India | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundator) | of one required (2) 32) 4) (B6) Aerial Imag | gery (B7) | V 1 1 S A A A A A A A A A A A A A A A A A | , 2, 4A, and Salt Crust (B Aquatic Inve Hydrogen St Dxidized Rhi Presence of Recent Iron I Stunted or S | d 4B) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (in Reduction in Plattressed Plants | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (| ore required) s (B9) 4B) 10) able (C2) Aerial Imagery ((D2) (D2) b) |
| Depth (inches Remarks: HYDROLO Wetland Hyd Primary India | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundations: | of one required (2) 32) 4) (B6) Aerial Imag | gery (B7) urface (B8) | X C | , 2, 4A, and Galt Crust (B Aquatic Inve Hydrogen Su Dividized Rhi Presence of Recent Iron I Stunted or S Dither (Expla | d 4B) states (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Pletressed Plants (i in in Remarks) | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (| ore required) s (B9) 4B) 10) able (C2) Aerial Imagery (((D2) 5) D6) (LRR A) |
| Depth (inches Remarks: HYDROLO Wetland Hyd Primary India | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B- Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundations: Present? Yes | of one required (2) 32) 4) (B6) Aerial Imag | gery (B7) urface (B8) No X | V 1 1 S AA AA F F S S C Depth (i | can be a considered as a consi | d 4B) rtebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Ple tressed Plants (i in in Remarks) | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Seconda | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (| ore required) s (B9) 4B) 10) able (C2) Aerial Imagery ((D2) (D2) b) |
| Primary Indicates Field Obser Surface Water Water Table P Saturation Pres | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundation Visible on Visi | of one required (2) 32) 4) (B6) Aerial Imag | gery (B7) urface (B8) | V 1 1 S AA AA F F S S C Depth (i | calt Crust (Baquatic Invented of Stunted or | d 4B) states (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Pletressed Plants (i in in Remarks) | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Seconda ———————————————————————————————————— | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (| ore required) s (B9) 4B) 10) able (C2) Aerial Imagery (C (D2) s) D6) (LRR A) cks (D7) |
| Primary India Field Obser Surface Water Water Table P Saturation Presincludes capillar | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes resent? Yes sent? Yes y fringe) | of one required (2) 32) 4) (B6) Aerial Image Concave Su | gery (B7) urface (B8) No | V V 1 1 S A A A A A A A A A A A A A A A A A | Aquatic Inversion of State Crust (B. Aquatic Inversion of State Crust (B. Aquatic Inversion of State Crust Iron (B. Aquatic Inversion of State Crust Iron (B. Aquatic Inches): inches): inches): inches): | at 4B) states (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Pletressed Plants (i in in Remarks) >14 >14 >14 | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyc | Seconda ———————————————————————————————————— | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (Frost-Heave Hummo | ore required) s (B9) 4B) 10) able (C2) Aerial Imagery (C (D2) s) D6) (LRR A) cks (D7) |
| Primary India Field Obser Surface Water Water Table P Saturation Presincludes capillar | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated (Inundation Visible on Visi | of one required (2) 32) 4) (B6) Aerial Image Concave Su | gery (B7) urface (B8) No | V V 1 1 S A A A A A A A A A A A A A A A A A | Aquatic Inversion of State Crust (B. Aquatic Inversion of State Crust (B. Aquatic Inversion of State Crust Iron (B. Aquatic Inversion of State Crust Iron (B. Aquatic Inches): inches): inches): inches): | at 4B) states (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Pletressed Plants (i in in Remarks) >14 >14 >14 | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyc | Seconda ———————————————————————————————————— | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (Frost-Heave Hummo | ore required) s (B9) 4B) 10) able (C2) Aerial Imagery (((D2) s) b) D6) (LRR A) cks (D7) |
| Primary India Field Obser Surface Water Water Table P Saturation Presincludes capillar | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes resent? Yes sent? Yes y fringe) | of one required (2) 32) 4) (B6) Aerial Image Concave Su | gery (B7) urface (B8) No | V V 1 1 S A A A A A A A A A A A A A A A A A | Aquatic Inversion of State Crust (B. Aquatic Inversion of State Crust (B. Aquatic Inversion of State Crust Iron (B. Aquatic Inversion of State Crust Iron (B. Aquatic Inches): inches): inches): inches): | at 4B) states (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Pletressed Plants (i in in Remarks) >14 >14 >14 | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyc | Seconda ———————————————————————————————————— | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (Frost-Heave Hummo | ore required) s (B9) 4B) 10) able (C2) Aerial Imagery (((D2) s) b) D6) (LRR A) cks (D7) |
| Primary Indicates | GY drology Indicator cators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Covations: Present? Yes resent? Yes sent? Yes y fringe) | of one required (2) 32) 4) (B6) Aerial Image Concave Su | gery (B7) urface (B8) No | V V 1 1 S A A A A A A A A A A A A A A A A A | Aquatic Inversion of State Crust (B. Aquatic Inversion of State Crust (B. Aquatic Inversion of State Crust Iron (B. Aquatic Inversion of State Crust Iron (B. Aquatic Inches): inches): inches): inches): | at 4B) states (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Pletressed Plants (i in in Remarks) >14 >14 >14 | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyc | Seconda ———————————————————————————————————— | ary Indicators (2 or m Water stained Leave (MLRA1, 2, 4A, and Drainage Patterns (B Dry-Season Water Ta Saturation Visible on Geomorphic Position Shallow Aquitard (D3 Fac-Neutral Test (D5 Raised Ant Mounds (Frost-Heave Hummo | ore required) s (B9) 4B) 10) able (C2) Aerial Imagery (((D2) s) b) D6) (LRR A) cks (D7) |

6904

| Project/Site: Walg | grave Prope | rty | City/County: | Tuala | tin/Washington | Sampling Date: | 9/15/2 | 2021 |
|-----------------------------------|-----------------|---------------|----------------------|-----------------|---|---|--|----------|
| · | Developme | | - | | State: | OR | Sampling Point: | 15 |
| Investigator(s): | TF//MS | | Section, To | wnship, Range: | | n 22, Township 2 | | |
| Landform (hillslope, terrace, et | | none | <u> </u> | | ncave, convex, none): | none | Slope (%): | 1-Jan |
| Subregion (LRR): | LRR | | Lat: | ` | · · · · · · · - | | | WSG85 |
| Soil Map Unit Name: | | | - silty clay loam | | | ssification: | | |
| Are climatic/hydrologic condition | ons on the site | | | Yes | | | ain in Remarks) | |
| Are vegetation Soil | | | significantly dist | | Are "Normal Circumstance | | • | |
| Are vegetation Soil | | | | | l, explain any answers in Ren | , , , | <u>-</u> | |
| Ooii | | ydrology | - naturally problem | nauo: ii necaca | , explain any answers in reci | nancs.) | | |
| SUMMARY OF FINDIN | GS - Atta | ch site map s | showing san | npling point | locations, transects | , important feat | ures, etc. | |
| Hydrophytic Vegetation Preser | it? Yes | X No | | Is Sampled Ar | | | | |
| Hydric Soil Present? | Yes | X No | | a Wetlar | | | No X | |
| Wetland Hydrology Present? | Yes | No | Х | | _ | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| VEGETATION - Use so | ientific na | mes of plant | S. | | | | | |
| | | absolute | Dominant | Indicator | Dominance Test work | sheet: | | |
| | | % cover | Species? | Status | | | | |
| Tree Stratum (plot size: | 30 |) | | | Number of Dominant Spec | | _ | |
| 1 Quercus garryana | | 80 | X | FACU | That are OBL, FACW, or F | AC: | 3 (/ | A) |
| 2 | | | | | | | | |
| 3 | - | | | | Total Number of Dominant | | 4 (1 | 2) |
| 4 | - | 80 | - Total Cavar | | Species Across All Strata: | | 4 (| 3) |
| | | | = Total Cover | | | | | |
| - | t size: 30 | _) | | | Percent of Dominant Spec | ies | | |
| 1 Rubus armeniacus | | 40 | <u>X</u> | FAC | That are OBL, FACW, or I | FAC: | 75% (/ | 4/B) |
| 2 Crataegus monogyna | ! | 30 | X | FAC | - · · · · · · · · · · · · · · · · · · · | | | |
| 3 Rosa pisocarpa | | 10 | | FAC | Prevalence Index Wo | | | |
| 4 5 | - | | | | Total % Cover of OBL Species | Multiply by | <u>: </u> | |
| J | | 80 | = Total Cover | | FACW species | x 2 = | 0 | |
| | | | - Total Govel | | FAC Species | x 3 = | 0 | |
| Herb Stratum (plot size: | 10 |) | | | FACU Species | x 4 = | 0 | |
| 1 Unidentified grass | | 10 | X | (FAC) | UPL Species | x 5 = | 0 | |
| 2 | | | | | Column Totals | 0 (A) | 0 (E | 3) |
| 3 | | | | | | | | |
| 4 | | | | | Prevalence Index =B | /A = # | DIV/0! | |
| 5 | | | | | | | | |
| 6 | - | | | | Hydrophytic Vegetation | | | |
| / | | | | | | - Rapid Test for Hydr | | |
| 8 | | 40 | - Tot-! O | | | - Dominance Test is -Prevalence Index is | | |
| | | 10 | = Total Cover | | | Prevalence Index is Morphological Adapt | | pportina |
| Woody Vine Stratum (plot si | ze: |) | | | | ata in Remarks or on | | • |
| 1 | (| _ | | | | - Wetland Non-Vascu | | |
| 2 | | | | | F | Problematic Hydrophy | tic Vegetation ¹ (Exp | olain) |
| | | 0 | = Total Cover | | ¹ Indicators of hydric soil an | | | |
| | | | | | disturbed or problematic. | | | |
| % Bare Ground in Herb Stratur | m | 90 | | | Hydrophytic Vegetation | Yes X | No | |
| v pare oround in Helb offalul | | | | | | 169 V | "\- | |
| | | | | | Present? | | | |

| | | | PHS # | 69 | | • | | Sampling Point: 15 |
|--|---|------------|---|-------------------------|---|---|---|---|
| | ription: (Describe to t | he depth i | needed to docume | | | nfirm the absen | ce of indicators.) | |
| Depth | Matrix | % | 0-1(| | Features Type ¹ | Loc ² | T | Demode |
| (Inches) | Color (moist) | | Color (moist) | <u>%</u> | Туре | LOC | Texture | Remarks |
| 0-3 | 10YR 2/2 | 100 | | | | | Sandy Loam | |
| 3-12 | 10YR 2/1 | 90 | 10YR 3/4 | 10 | C | M | Sandy Loam | Medium |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | <u> </u> | | | | | | | |
| | ncentration, D=Depletion | | | | | | | ² Location: PL=Pore Lining, M=Matrix. |
| yarıc Soi | I Indicators: (Appli | cable to | all LRRS, unles | | | • | Indic | cators for Problematic Hydric Soils ³ : |
| | Histosol (A1) | | | | Sandy Redo | ` , | | 2 cm Muck (A10) |
| | Histic Epipedon (A2) | | | | Stripped Ma | | | Red Parent Material (TF2) |
| | Black Histic (A3) | | | | Loamy Mucl | ky Mineral (F1) (e | except MLRA 1) | Very Shallow Dark Surface (TF12) |
| | Hydrogen Sulfide (A4) |) | | | Loamy Gley | red Matrix (F2) | | Other (explain in Remarks) |
| | Depleted Below Dark | Surface (A | A11) | | Depleted Ma | atrix (F3) | | |
| | Thick Dark Surface (A | A12) | | Х | Redox Dark | Surface (F6) | | |
| | Sandy Mucky Mineral | (S1) | | | Depleted Da | ark Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland |
| | - Sandy Gleyed Matrix (| (S4) | | | Redox Depr | ressions (F8) | | hydrology must be present, unless disturbed or problematic. |
| epth (inche | es): | | | | <u>-</u> | | Hydric Soil Pre | sent? Yes X No |
| epth (inche | | | | | - | | Hydric Soil Pre | sent? Yes <u>X</u> No |
| epth (inche | | s: | | | | | Hydric Soil Pre | sent? Yes <u>X</u> No |
| epth (inche emarks: YDROLO | DGY | | uired; check all t | , | | | | |
| epth (inche | DGY ydrology Indicators licators (minimum of Surface Water (A1) | f one req | uired; check all t | | Water staine | ed Leaves (B9) (I | | Secondary Indicators (2 or more required Water stained Leaves (B9) |
| epth (inche emarks: YDROLO | OGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 | f one req | uired; check all t | | Water staine | ed Leaves (B9) (I d 4B) | | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) | f one req | uired; check all t | | Water staine 1, 2, 4A, and Salt Crust (E | ed Leaves (B9) (I d 4B) B11) | | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) |
| emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) | f one req | uired; check all t | | Water staine 1, 2, 4A, an e Salt Crust (E Aquatic Inve | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) | | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B | f one req | uired; check all t | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) | Except MLRA | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager |
| emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) | f one req | uired; check all t | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along | Except MLRA g Living Roots (C3) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) |
| emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) Algal Mat or Crust (B4 | f one req | uired; check all t | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C | Except MLRA g Living Roots (C3) C4) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) |
| emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | f one req | uired; check all t | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (B | f one req | | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (I | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| epth (inche | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | f one req | gery (B7) | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) |
| epth (inche emarks: YDROLC /etland Hy | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C | f one req | gery (B7) | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (I | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| epth (inche emarks: YDROLO /etland Hy rimary Ind | ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on A Sparsely Vegetated C | f one req | gery (B7) | | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (I | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| ield Obse | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on A Sparsely Vegetated Corvations: er Present? Yes | f one req | gery (B7) urface (B8) No <u>X</u> | Depth | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (I | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| epth (inche emarks: YDROL(/etland Hyrimary Indi ield Obse | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Corvations: er Present? Yes Present? Yes esent? Yes | f one req | gery (B7) urface (B8) No <u>X</u> | Depth | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Expla | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (I ain in Remarks) | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| ield Obse urface Water Table atturation Pr nocludes capilli | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C Irvations: ar Present? Yes Present? Yes esent? Yes ary fringe) | f one req | gery (B7) urface (B8) No | Depth Depth Depth | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain (inches): (inches): (inches): | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (I ain in Remarks) >12 >12 | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| rimary Ind | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated Corvations: er Present? Yes Present? Yes esent? Yes | f one req | gery (B7) urface (B8) No | Depth Depth Depth | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain (inches): (inches): (inches): | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (I ain in Remarks) >12 >12 | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| ield Obseturface Water Table aturation Pricidudes capilli | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C Irvations: ar Present? Yes Present? Yes esent? Yes ary fringe) | f one req | gery (B7) urface (B8) No | Depth Depth Depth | Water staine 1, 2, 4A, and Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain (inches): (inches): (inches): | ed Leaves (B9) (I d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Plo Stressed Plants (I ain in Remarks) >12 >12 | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |

6904

| oject/Site: | Walgrav | ve Propert | ty | - | City/County: | Tuala | tin/Washington | Sai | mpling Date: | 9/ | 15/2021 |
|---------------------------|---------------|----------------|-------------------|----------|--------------------|---------------------|--------------------------------------|---------------|----------------|------------------------------|----------------|
| olicant/Owner: | Phelan De | evelopmer | nt | | | | Stat | e: OR | _ | Sampling Poir | nt: 16 |
| estigator(s): | | TF/MS | | | Section, To | wnship, Range: | Sec | tion 22, T | ownship 29 | S, Range 1W | 1 |
| ndform (hillslope, teri | race, etc.:) | | Slo | оре | | Local relief (co | ncave, convex, none): | | none | Slope (% | o): 2 |
| bregion (LRR): | | LRR A | | | Lat: | | Lon | g: | | Datur | n: WSG8 |
| I Map Unit Name: | | | | Cov | re clay | | NWI | Classificatio | on: | None | |
| climatic/hydrologic | conditions of | on the site ty | pical for th | nis time | e of year? | Yes | XN | lo | (if no, expl | ain in Remarks | s) |
| vegetation | Soil | or Hyd | drology | | significantly dist | turbed? | Are "Normal Circumst | ances" pres | sent? (Y/N) | ΥΥ | |
| vegetation | Soil | or Hyd | drology | | naturally proble | matic? If needed | l, explain any answers in | Remarks.) | | · | |
| | | _ | | | • | | | | | | |
| MMARY OF FI | INDINGS | | h site m | | | npling point | locations, transec | cts, impo | ortant feat | ures, etc. | |
| Irophytic Vegetation | Present? | Yes | Х | | | Is Sampled Ar | rea within | | | | |
| ric Soil Present? | | Yes | Х | | | a Wetla | | es X | _ | No | _ |
| tland Hydrology Pre | sent? | Yes | Х | No | | | | | | | |
| narks: | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| GETATION - U | Jse scier | itific nam | nes of p | lants | S. | | | | | | |
| | | | absolut % cove | | Dominant Species? | Indicator Status | Dominance Test w | orksheet | : | | |
| e Stratum (plot si | ize: |) | 70 0000 | | орсою: | Giaius | Number of Dominant S | pecies | | | |
| | - | ——′ | | | | | That are OBL, FACW, | - | | 5 | (A) |
| | | | | | | | | | | | (- ') |
| | | | | | | | Total Number of Domir | nant | | | |
| | | | | | | | Species Across All Stra | ata: | | 5 | (B) |
| | | | 0 | | = Total Cover | | | | | | |
| oling/Shrub Stratum | (nlot size | e· 30 |) | | | | Percent of Dominant S | necies | | | |
| Rosa sp | (piot diz | , <u> </u> | ′ | | X | (FAC) | That are OBL, FACW, | | | 100% | (A/B) |
| Crataegus mon | ogyna | | 15 | | X | FAC | | | | | (/ |
| Rubus armenia | <u> </u> | | 10 | | X | FAC | Prevalence Index \ | Workshee | et: | | |
| | | | | | | | Total % Cover of | | Multiply by | : | |
| | | | | | | | OBL Species | | x 1 = | 0 | |
| | | | 45 | | = Total Cover | | FACW species | | x 2 = | 0 | _ |
| | | | | | | | FAC Species | | x 3 = | 0 | _ |
| <u>b Stratum</u> (plot si | | 5) | | | | | FACU Species | | x 4 = | 0 | _ |
| Unidentified gra | ass | | 60 | | <u>X</u> | (FAC) | UPL Species | | x 5 = | 0 | |
| Poa sp | 4-4 | | 20 | | X | (FAC) | Column Totals | 0 | (A) | 0 | (B) |
| Cynosurus cris | | | 15 5 | | | FACU FACU | Danielana a la dan | D/A - | | 1DIV/01 | |
| Leontodon sax | auns | | | _ | | FACU | Prevalence Index | (=B/A = | # | DIV/0! | _ |
| | | | | _ | | | Hydrophytic Veget | ation Ind | icators: | | |
| | | | - | _ | | | liyaropiiyao vogot | | | ophytic Vegeta | tion |
| | | | | | | | x | _ | nance Test is | . , . | |
| | | | 100 | | = Total Cover | | | 3-Preval | ence Index is | ≤ 3.0 ¹ | |
| | | | | | | | | 4-Morph | ological Adap | tations ¹ (provid | e supporting |
| ody Vine Stratum | (plot size: | | _) | | | | | | | a separate sh | eet) |
| | | | | _ | | | | | nd Non-Vascı | | |
| | | | | _ | | | | _ | | tic Vegetation ¹ | |
| | | | 0 | | = Total Cover | | ¹ Indicators of hydric so | | nd hydrology i | must be preser | it, unless |
| | | | | | | | disturbed or problemat Hydrophytic | ю. | | | |
| | | | | | | | | V | es X | N | 0 |
| Bare Ground in Herb | Stratum | | 0 | _ | | | Vegetation | | | | |

| eu - | | | | | | | Sampling Point: 16 |
|--|---|--|---|--|---|---|---|
| | ription: (Describe to the | he depth r | needed to docume | | onfirm the absen | ce of indicators.) | |
| Depth (Inches) | Matrix | % | Color (moint) | Redox Features % Type ¹ | Loc ² | Texture | Pamarka |
| (Inches) | Color (moist) | | Color (moist) | | | | Remarks |
| 0-4 | 10YR 2/2 | 90 | 5YR 3/4 | | M | Sandy Loam | fine |
| 0-4 | - - | | 5YR 3/4 | | M | | Fine |
| 4-12 | 10YR 2/2 | 95 | 5YR 3/4 | 5C | M | Sandy Loam | Fine |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| ype: C=Cor | ncentration, D=Depletio | on, RM=Re | educed Matrix, CS=0 | Covered or Coated Sa | ınd Grains. | | ² Location: PL=Pore Lining, M=Matrix. |
| ydric Soil | Indicators: (Applie | cable to | all LRRs, unless | s otherwise noted | l.) | Indic | ators for Problematic Hydric Soils ³ : |
| | Histosol (A1) | | | Sandy Red | lox (S5) | | 2 cm Muck (A10) |
| | Histic Epipedon (A2) | | | Stripped M | atrix (S6) | | Red Parent Material (TF2) |
| | Black Histic (A3) | | | | cky Mineral (F1) (| except MLRA 1) | Very Shallow Dark Surface (TF12) |
| | Hydrogen Sulfide (A4) |) | | | yed Matrix (F2) | • | Other (explain in Remarks) |
| | Depleted Below Dark | , | (11) | Depleted M | | | |
| | Thick Dark Surface (A | - | , | ' | k Surface (F6) | | |
| | Sandy Mucky Mineral | • | | | ark Surface (F7) | | ³ Indicators of hydrophytic vegetation and wetland |
| | Sandy Gleyed Matrix (| | | | oressions (F8) | | hydrology must be present, unless disturbed or problematic. |
| estrictive | Layer (if present): | | | | | | |
| epth (inche | es): | | | | | Hydric Soil Pre | sent? Yes X No |
| epth (inche | es): | | | | | Hydric Soil Pre | sent? Yes <u>X</u> No |
| epth (inche | DGY | s: | | | | Hydric Soil Pre | sent? Yes <u>X</u> No |
| epth (inche emarks: YDROLO | | | uired; check all th | nat apply) | | Hydric Soil Pre | |
| epth (inche emarks: YDROLO | DGY ydrology Indicators | | uired; check all th | Water stair | ned Leaves (B9) (| | Secondary Indicators (2 or more required Water stained Leaves (B9) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of | f one requ | uired; check all th | | | | Secondary Indicators (2 or more required |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) | f one requ | uired; check all th | Water stair | nd 4B) | | Secondary Indicators (2 or more required Water stained Leaves (B9) |
| epth (inche emarks: YDROLO | OGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 | f one requ | uired; check all th | Water stair 1, 2, 4A, ar | nd 4B) | | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) | f one requ | uired; check all th | Water stair 1, 2, 4A, ai Salt Crust (| n d 4B) (B11) | Except MLRA | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) | f one requ | uired; check all th | Water stair 1, 2, 4A, ai Salt Crust (Aquatic Inv | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) | Except MLRA | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B | f one requ | uired; check all th | Water stair 1, 2, 4A, ai Salt Crust (Aquatic Inv Hydrogen S Oxidized R | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) | Except MLRA g Living Roots (C3) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) | f one requ | uired; check all th | Water stair 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) hizospheres alon | Except MLRA g Living Roots (C3) C4) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 | f one request. | uired; check all th | Water stair 1, 2, 4A, ai Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (C | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | f one requ () (2) (4) (36) | | Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (C | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) |
| epth (inche emarks: YDROLO | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E | f one request. 2) 2) 36) Aerial Imag | gery (B7) | Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (C) n Reduction in Plo Stressed Plants (| Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| epth (inche emarks: YDROLC /etland Hy rimary Ind | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A | f one request. 2) 2) 4) 36) Aerial Imag | gery (B7) | Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (C) n Reduction in Plo Stressed Plants (| Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| YDROLO Vetland Hyrimary Individual | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated C | f one request. 2) 2) 4) 36) Aerial Imag | gery (B7) urface (B8) | Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (C) n Reduction in Plo Stressed Plants (| Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| epth (inche emarks: IYDROLO /etland Hy rimary Ind | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated Corvations: er Present? Yes | f one request. 2) 2) 4) 36) Aerial Imag | gery (B7) urface (B8) No <u>X</u> | Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or Other (Exp | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (C) n Reduction in Plo Stressed Plants (Iain in Remarks) | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| ield Obse | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated C Irvations: er Present? Yes Present? Yes | f one request. 2) 2) 4) 36) Aerial Imag | gery (B7) urface (B8) NoX NoX | Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (C) n Reduction in Plo Stressed Plants (Iain in Remarks) | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| epth (inche emarks: YDROLO /etland Hyrimary Independent of the content of the co | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated C Irvations: er Present? Yes Present? Yes esent? Yes | f one request. 2) 2) 4) 36) Aerial Imag | gery (B7) urface (B8) No <u>X</u> | Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence c Recent Iror Stunted or Other (Exp | nd 4B) (B11) rertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (C) n Reduction in Plo Stressed Plants (Iain in Remarks) | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| ield Obse urface Water Table laturation Procludes capilla | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated C Irvations: er Present? Yes Present? Yes esent? Yes | f one request. 2) 36) Aerial Imagenous Summers | gery (B7) urface (B8) NoX NoX NoX | Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp Depth (inches): Depth (inches): | nd 4B) (B11) vertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (Cn n Reduction in Plo Stressed Plants (Iain in Remarks) | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyc | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| ield Obse urface Water Table laturation Princludes capilla | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated C Irvations: ar Present? Yes Present? Yes esent? Yes ary fringe) | f one request. 2) 36) Aerial Imagenous Summers | gery (B7) urface (B8) NoX NoX NoX | Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp Depth (inches): Depth (inches): | nd 4B) (B11) vertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (Cn n Reduction in Plo Stressed Plants (Iain in Remarks) | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyc | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| ield Obse urface Wate /ater Table laturation Procludes capilla | DGY ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated C Irvations: ar Present? Yes Present? Yes esent? Yes ary fringe) | f one request. 2) 36) Aerial Imagenous Summers | gery (B7) urface (B8) NoX NoX NoX | Water stair 1, 2, 4A, ar Salt Crust (Aquatic Inv Hydrogen S Oxidized R Presence of Recent Iror Stunted or Other (Exp Depth (inches): Depth (inches): | nd 4B) (B11) vertebrates (B13) Sulfide Odor (C1) hizospheres alon of Reduced Iron (Cn n Reduction in Plo Stressed Plants (Iain in Remarks) | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyc | Secondary Indicators (2 or more required Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imager Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |

6904

| Project/Site: Walgra | ve Proper | ty | City/County: | Tuala | tin/Washington | Sampling Date | e: 9/1 | 5/2021 |
|--------------------------------------|----------------|---------------------|--------------------|---------------------|--|--------------------------------------|----------------------|----------|
| Applicant/Owner: Phelan Do | evelopme | nt | | | State: | OR | Sampling Point | 17 |
| Investigator(s): | MS/TF | | Section, To | ownship, Range: | Section | on 22, Township | 2S, Range 1W | |
| Landform (hillslope, terrace, etc.:) | | Mound | | Local relief (co | ncave, convex, none): | None | Slope (%): | 2-3 |
| Subregion (LRR): | LRR A | <u> </u> | Lat: | | Long: | | Datum | WSG85 |
| Soil Map Unit Name: | | Cov | e clay | | | assification: | | |
| Are climatic/hydrologic conditions | on the site ty | | | Yes | X No | (if no, e | xplain in Remarks) | |
| Are vegetation Soil | or Hy | drology | significantly dist | turbed? | Are "Normal Circumstan | ces" present? (Y/N) | Y | |
| Are vegetation Soil | | | _ | | d, explain any answers in Re | emarks.) | | - |
| <u> </u> | _ ′ | ., <u> </u> | <u>.</u> | | , , | , | | |
| SUMMARY OF FINDINGS | S – Attac | h site map s | showing san | npling point | locations, transects | s, important fe | atures, etc. | |
| Hydrophytic Vegetation Present? | Yes | X No | | Is Sampled A | rea within | | | |
| Hydric Soil Present? | Yes | X No | | a Wetla | | | No X | _ |
| Wetland Hydrology Present? | Yes | No. | X | | | | | |
| Remarks: | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| VEGETATION - Use scier | ntific nar | | | | T | | | |
| | | absolute % cover | Dominant Species? | Indicator Status | Dominance Test wor | rksheet: | | |
| <u>Tree Stratum</u> (plot size: | 30) | 70 00101 | ороскоо. | Otatao | Number of Dominant Spe | ecies | | |
| 1 Pinus ponderosa | | 25 | X | FACU | That are OBL, FACW, or | | 5 | (A) |
| 2 | | | | | | | | • |
| 3 | | | | | Total Number of Dominar | nt | | |
| 4 | | | | | Species Across All Strata | ı: | 6 | _(B) |
| | | 25 | = Total Cover | | | | | |
| Sapling/Shrub Stratum (plot siz | re: 30 |) | | | Percent of Dominant Spe | cies | | |
| 1 Rosa pisocarpa | | 60 | X | FAC | That are OBL, FACW, or | r FAC: | 83% | (A/B) |
| 2 Crataegus monogyna | | 30 | Х | FAC | | | | _ |
| 3 Rubus armeniacus | | 25 | Х | FAC | Prevalence Index We | orksheet: | | |
| 4 Symphoricarpos albus | | 10 | | FACU | Total % Cover of | Multiply | by: | |
| 5 | | | | | OBL Species | x 1 | = 0 | _ |
| | | 125 | = Total Cover | | FACW species | x 2 | | _ |
| Herb Stratum (plot size: | 10) | | | | FAC Species FACU Species | x 3 x 4 | | - |
| 1 Poa sp | | 60 | X | (FAC) | UPL Species | x 4 | | - |
| 2 Agrostis capillaris | | 40 | <u> </u> | FAC | Column Totals | 0 (A) | 0 | (B) |
| 3 | | | | | - Column Folding | () | | _(=) |
| 4 | | | | | Prevalence Index = | B/A = | #DIV/0! | |
| 5 | | | | | | | | - |
| 6 | | | | | Hydrophytic Vegetat | ion Indicators: | | |
| 7 | | | | | | 1- Rapid Test for Hy | ydrophytic Vegetatio | on |
| 8 | | | | | | 2- Dominance Test | | |
| | | 100 | = Total Cover | | | 3-Prevalence Index | | a |
| Woody Vine Stratum (plot size: | | 1 | | | - | 4-Morphological Ad | | |
| 1 (piot size. | | _' | | | | data in Remarks or 5- Wetland Non-Va | | şı) |
| 2 | | | | | | Problematic Hydrop | | Explain) |
| | | 0 | = Total Cover | | ¹ Indicators of hydric soil a | | | |
| | | | - Total Govel | | disturbed or problematic. | wouding Hydrolog | ,,ao. bo present, | |
| | | | | | Hydrophytic | _ | | |
| % Bare Ground in Herb Stratum | | | | | Vegetation Present? | Yes X | No | |
| Remarks: | | | | | Liesenri | | | |
| | | | | | | | | |
| Ì | | | | | | | | |

| | | | PHS# | 6904 | <u> </u> | | | Sampling Point: 17 |
|--|---|---|---------------------------------------|---|--|---|--|---|
| | iption: (Describe to t | he depth | needed to docume | | | nfirm the absen | ce of indicators.) | |
| Depth | Matrix | | | Redox F | - 1 | . 2 | _ | |
| (Inches) | Color (moist) | % | Color (moist) | % | Type' | Loc ² | Texture | Remarks |
| 0-3 | 10YR 3/2 | 95 | 10YR 6/8 | | С | M | Silt Loam | fine mottles |
| 3-12+ | 7.5YR 3/2 | 85 | 7.5YR 3/3 | 15 | С | M | Silt Loam | fine mottles |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Type: C=Con | centration, D=Depletion | on RM=Re | educed Matrix, CS= | Covered or C | nated San | d Grains | | ² Location: PL=Pore Lining, M=Matrix. |
| - | Indicators: (Appli | | | | | | India | cators for Problematic Hydric Soils ³ : |
| • | Histosol (A1) | ouble to | un 211110, unioo | | andy Redo | ' | | 2 cm Muck (A10) |
| | Histic Epipedon (A2) | | | | ripped Ma | ` , | | Red Parent Material (TF2) |
| | • | | | | | | avecant MLDA 4) | |
| | Black Histic (A3) | | | | - | ky Mineral (F1) (| except MLRA 1) | Very Shallow Dark Surface (TF12) |
| | Hydrogen Sulfide (A4 | - | | | | ed Matrix (F2) | | Other (explain in Remarks) |
| | Depleted Below Dark | • | A11) | | epleted Ma | | | |
| | Thick Dark Surface (A | A12) | | | | Surface (F6) | | ³ Indicators of hydrophytic vegetation and wetland |
| | Sandy Mucky Mineral | (S1) | | De | epleted Da | ark Surface (F7) | | hydrology must be present, unless disturbed or |
| | Sandy Gleyed Matrix | (S4) | | R | edox Depre | essions (F8) | | problematic. |
| epth (inche | s): | | | | | | Hydric Soil Pre | esent? Yes X No |
| Depth (inche | OGY | | | | | | Hydric Soil Pre | esent? Yes X No |
| Depth (inche Remarks: HYDROLO Vetland Hy | DGY rdrology Indicator | | uired: check all t | nat anniv) | | | Hydric Soil Pre | |
| Depth (inche Remarks: HYDROLC Wetland Hy Primary Indi | OGY vdrology Indicator cators (minimum o | | uired; check all tl | , | ater staine | ed Leaves (B9) (| | Secondary Indicators (2 or more required) |
| Depth (inche Remarks: HYDROLC Vetland Hy Primary Indi | OGY rdrology Indicator cators (minimum o Surface Water (A1) | f one req | uired; check all tl | W | ater staine 2, 4A, and | ed Leaves (B9) (| | |
| Depth (inche Remarks: HYDROLC Vetland Hy Primary Indi | OGY vdrology Indicator cators (minimum o | f one req | uired; check all tl | W | 2, 4A, and | d 4B) | | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) |
| Depth (inche Remarks: HYDROLC Vetland Hy Primary Indi | OGY rdrology Indicator cators (minimum o Surface Water (A1) High Water Table (A2) | f one req | uired; check all tl | W 1, Sa | 2, 4A, and | d 4B) | | Secondary Indicators (2 or more required) Water stained Leaves (B9) |
| Depth (inche Remarks: HYDROLC Vetland Hy Primary Indi | OGY rdrology Indicator cators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) | f one req | uired; check all tl | W 1, SaAd | 2, 4A, and alt Crust (E quatic Inve | d 4B) 311) | Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) |
| Depth (inche Remarks: HYDROLC Vetland Hy Primary Indi | OGY rdrology Indicator icators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) | f one req | uired; check all tl | W 1, Sa Ad | 2, 4A, and alt Crust (Equatic Inversed) | d 4B) B11) ertebrates (B13) ulfide Odor (C1) | Except MLRA | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (|
| Primary Indi | ody rdrology Indicator cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (E | f one req 2) 32) | uired; check all tl | W 1, Sε Aα Hy | 2, 4A, and alt Crust (E quatic Inve ydrogen So xidized Rh | d 4B) B11) ertebrates (B13) ulfide Odor (C1) | Except MLRA g Living Roots (C3) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (|
| Pepth (inche Remarks: HYDROLC Vetland Hy Primary Indi | ocators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) | f one req 2) 32) | uired; check all tl | W 1, Sa Ad | 2, 4A, and alt Crust (E quatic Inve ydrogen St xidized Rh resence of | d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres alon | Except MLRA g Living Roots (C3) C4) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) |
| Depth (inche Remarks: HYDROLC Wetland Hy Primary Indi | ocators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) | f one req 2) 32) 4) | uired; check all tl | W 1, Se Ac Hy O: Pr | 2, 4A, and alt Crust (E quatic Inve ydrogen So xidized Rh resence of ecent Iron | d 4B) B11) Intebrates (B13) Ulfide Odor (C1) Izospheres alon Reduced Iron (6 | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) |
| Depth (inche Remarks: HYDROLC Wetland Hy Primary Indi | OGY Indrology Indicator Icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) | f one req 2) 32) 4) B6) | | W 1, Se Ac | 2, 4A, and alt Crust (E quatic Inve ydrogen So xidized Rh resence of ecent Iron united or S | d 4B) state (B13) ulfide Odor (C1) izospheres alon Reduced Iron (G | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) |
| Pepth (inche Remarks: HYDROLC Vetland Hy Primary Indi | rdrology Indicator ficators (minimum of Surface Water (A1)) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (| f one req 2) 32) 4) B6) Aerial Ima | gery (B7) | W 1, Se Ac | 2, 4A, and alt Crust (E quatic Inve ydrogen So xidized Rh resence of ecent Iron united or S | d 4B) state (B13) ulfide Odor (C1) izospheres alon Reduced Iron (C1) Reduction in Plottressed Plants (C1) | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Depth (inche Remarks: HYDROLC Wetland Hy Primary Indi | OGY Indicator Icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated C | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) | W 1, Se Ac | 2, 4A, and alt Crust (E quatic Inve ydrogen So xidized Rh resence of ecent Iron united or S | d 4B) state (B13) ulfide Odor (C1) izospheres alon Reduced Iron (C1) Reduction in Plottressed Plants (C1) | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Pepth (inche Remarks: HYDROLC Wetland Hy Primary Indi | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) | W 1, Se Ac Ac Hy Or Pr Re Se | 2, 4A, and alt Crust (E quatic Inve ydrogen St xidized Rh resence of ecent Iron unted or S ther (Expla | d 4B) state (B13) ulfide Odor (C1) izospheres alon Reduced Iron (C1) Reduction in Plottressed Plants (C1) | Except MLRA g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Depth (inche Remarks: HYDROLC Wetland Hy Primary Indi | OGY Indrology Indicator Icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: In Present? Yes | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) | W 1, Se Ac Ac Hy Or Pr Re St Or | 2, 4A, and alt Crust (Equatic Inverydrogen Standard Rhamesence of eccent Iron unted or State (Explanation): | d 4B) stebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Pla stressed Plants (ain in Remarks) | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| Primary Indi Field Obser Surface Wate Vater Table F Saturation Pre | DGY rdrology Indicator cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: r Present? Yes Present? Yes esent? Yes | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) | W 1, Se Ac Ac Hy Or Pr Re Se | 2, 4A, and alt Crust (Equatic Inverse video of State of S | d 4B) state (B13) ulfide Odor (C1) izospheres alon Reduced Iron (C1) Reduction in Plottressed Plants (C1) | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) |
| Field Obser Surface Wate Vater Table F Saturation Pre Includes capilla | DGY rdrology Indicator cators (minimum o Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: r Present? Yes Present? Yes esent? Yes | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) No | W 1, Se Ac Hy Or Pr Re St Or Depth (in Depth (in | 2, 4A, and alt Crust (Equatic Inverse states of the cent Iron unted or Sther (Explanations): and the control of the cent Iron unted or Sther (Explanations): and the cent Iron unted or Sther (Explanations): and the cent Iron unted or Sther (Explanations): and the cent Iron unted or Sthere (Explanations): and the cent Iron unted or Sthere (Explanations): and the cent Iron unted or Sthere (Explanations): and the cent Iron unterest (Explanations): and th | d 4B) at 1) artebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Platessed Plants (i ain in Remarks) >12+ >12+ | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hy | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| HYDROLO Wetland Hy Primary Indi Surface Wate Vater Table F Saturation Pre Includes capilla | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: In Present? Yes | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) No | W 1, Se Ac Hy Or Pr Re St Or Depth (in Depth (in | 2, 4A, and alt Crust (Equatic Inverse states of the cent Iron unted or Sther (Explanations): and the control of the cent Iron unted or Sther (Explanations): and the cent Iron unted or Sther (Explanations): and the cent Iron unted or Sther (Explanations): and the cent Iron unted or Sthere (Explanations): and the cent Iron unted or Sthere (Explanations): and the cent Iron unted or Sthere (Explanations): and the cent Iron unterest (Explanations): and th | d 4B) at 1) artebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Platessed Plants (i ain in Remarks) >12+ >12+ | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hy | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |
| HYDROLO Wetland Hy Primary Indi Surface Wate Vater Table F Saturation Pre Includes capilla | Cators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated Corvations: In Present? Yes | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) urface (B8) No X No X No X | W 1, Se Ac Hy Or Pr Re St Or Depth (in Depth (in | 2, 4A, and alt Crust (Equatic Inverse states of the cent Iron unted or Sther (Explanations): and the control of the cent Iron unted or Sther (Explanations): and the cent Iron unted or Sther (Explanations): and the cent Iron unted or Sther (Explanations): and the cent Iron unted or Sthere (Explanations): and the cent Iron unted or Sthere (Explanations): and the cent Iron unted or Sthere (Explanations): and the cent Iron unterest (Explanations): and th | d 4B) at 1) artebrates (B13) ulfide Odor (C1) izospheres alon Reduced Iron (i Reduction in Platessed Plants (i ain in Remarks) >12+ >12+ | Except MLRA g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hy | Secondary Indicators (2 or more required) Water stained Leaves (B9) (MLRA1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (Geomorphic Position (D2) Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) |

6904

| oject/Site: | Walgra | e Proper | ty | _ | City/County: | Tuala | tin/Washington | Sampling Date | 9/1 | 5/2021 |
|----------------------|-----------------|--------------|--------------------|---------|-------------------|------------------|--|----------------------|--------------------------------|------------|
| plicant/Owner: | Phelan De | velopme | nt | | | | State: | OR | Sampling Point | : 18 |
| estigator(s): | | TF/MS | | _ | Section, To | wnship, Range: | Section | n 22, Township 2 | 2S, Range 1W | |
| ndform (hillslope, t | terrace, etc.:) | | n | one | | Local relief (co | ncave, convex, none): | none | Slope (%) | : 1 |
| bregion (LRR): | | LRR A | 4 | | Lat: | | Long: | | Datum | WSG8 |
| I Map Unit Name: | | | | Hillsbo | oro loam | | | ssification: | | |
| climatic/hydrolog | | | | | | Yes | | | plain in Remarks) | |
| vegetation | | | | | • | | | · · | | |
| | | | | | , | | | . , , | | - |
| vegetation | 5011 | OI Hy | drology | | naturally probler | nauc? ii needed | l, explain any answers in Re | marks.) | | |
| MMARY OF | FINDINGS | - Attac | h site r | nap s | howing san | npling point | locations, transects | s, important fea | itures, etc. | |
| rophytic Vegetati | on Present? | Yes | Х | No | | | | | | |
| ric Soil Present? | | Yes | | No | Х | Is Sampled Ar | | | No X | |
| tland Hydrology P | | Yes | | No | Х | a Wellal | iu: | | - | _ |
| narks: | | _ | | | | | | | | |
| aiks. | | | | | | | | | | |
| | | | | | | | | | | |
| CETATION | Han anion | Alfia man | f . | | | | | | | |
| GETATION - | ose scier | iune nar | nes of p absolu | | S. Dominant | Indicator | Dominance Test wor | ·kshoot· | | |
| | | | % cov | | Species? | Status | Dominance rest wor | Noricet. | | |
| <u>Stratum</u> (plot | t size: |) | | | | | Number of Dominant Spe | cies | | |
| | | | | | | | That are OBL, FACW, or | FAC: | 2 | (A) |
| | | | | | | | | <u>-</u> | | |
| | | | | | | | Total Number of Dominar | nt | | |
| | | | | | | | Species Across All Strata | : | 3 | _(B) |
| | | | 0 | | = Total Cover | | | | | |
| ling/Shrub Stratu | m (plot size | e: 30 |) | | | | Percent of Dominant Spe | cies | | |
| Rubus armen | | | | | X | FAC | That are OBL, FACW, or | FAC: | 67% | (A/B) |
| Amelanchier | alnifolia | | 20 | | Х | FACU | | | | _ |
| Mahonia aqui | ifolium | | 5 | | | FACU | Prevalence Index Wo | orksheet: | | |
| Rosa sp | | | 5 | | | (FAC) | Total % Cover of | Multiply I | oy: | |
| Symphoricar | pos albus | | 5 | | | FACU | OBL Species | x 1 = | = 0 | _ |
| | | | 60 | | = Total Cover | | FACW species | x 2 = | | _ |
| | | | | | | | FAC Species | x 3 = | | _ |
| | t size: | 10) | | | v | (540) | FACU Species | x 4 = | | _ |
| Unidentified (| | | 35 | | X | (FAC) | UPL Species | x 5 = | | - (D) |
| Prunella vulg | | | 3 | | | FACU FACU | Column Totals | 0 (A) | 0 | _(B) |
| Plantago land | ,cuiala | | | | | PACU | Prevalence Index = | R/Δ = | #DIV/0! | |
| | | | | | | | i revalence muex - | | | - |
| | | | | | | | Hydrophytic Vegetat | ion Indicators | | |
| | | | | | | | | 1- Rapid Test for Hy | drophytic Vegetati | on |
| | | | | | | | | 2- Dominance Test i | . , . | |
| | | | 40 | | = Total Cover | | | 3-Prevalence Index i | $s \le 3.0^{1}$ | |
| | | | | | | | | 4-Morphological Ada | ptations ¹ (provide | supporting |
| | (nlot size: | |) | | | | | data in Remarks or o | on a separate shee | et) |
| ody Vine Stratum | (plot size. | | | | | | | 5- Wetland Non-Vas | | |
| ody Vine Stratum | (plot size. | | | | | | i . | Problematic Hydroph | vtic Vegetation ¹ (| Explain) |
| ody Vine Stratum | (plot 3ize. | | | | | | | r robiematic mydropi | Tytic vegetation (| |
| ody Vine Stratum | (plot 3/26. | | 0 | | = Total Cover | | ¹ Indicators of hydric soil a | | | unless |
| ody Vine Stratum | (plot 3/26) | | 0 | | = Total Cover | | ¹ Indicators of hydric soil a disturbed or problematic. | | | unless |
| ody Vine Stratum | | | 0 | : | = Total Cover | | ¹ Indicators of hydric soil a | | y must be present, | |

| Depth (Inches) | | | PHS# | 6904 | | | Sampling Point: | 18 |
|---|--|--------------------------|---|--|---|---|---|--|
| (Inches) | ription: (Describe to th | ne depth i | needed to docume | | nfirm the absen | ce of indicators.) | | |
| , | Matrix | | | Redox Features | . 2 | | | |
| | Color (moist) | % | Color (moist) | % Type' | Loc ² | Texture | Remarks | |
| 0-10+ | 10YR 3/3 | 100 | | | | Sandy Loam | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | · | | | |
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| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | · —— | | | |
| • • | ncentration, D=Depletio | | | | | | ² Location: PL=Pore Lining, M=Matri | • |
| lydric Soil | I Indicators: (Applic | cable to | all LRRs, unless | s otherwise noted | .) | Indic | ators for Problematic Hydric S | oils": |
| | Histosol (A1) | | | Sandy Red | ox (S5) | | 2 cm Muck (A10) | |
| | Histic Epipedon (A2) | | | Stripped Ma | atrix (S6) | | Red Parent Material (| ΓF2) |
| | Black Histic (A3) | | | Loamy Muc | ky Mineral (F1) (| except MLRA 1) | Very Shallow Dark Su | rface (TF12) |
| | Hydrogen Sulfide (A4) | | | Loamy Gley | ed Matrix (F2) | | Other (explain in Rem | arks) |
| | ■ Depleted Below Dark \$ | Surface (A | (11) | Depleted M | atrix (F3) | | | |
| | Thick Dark Surface (A | | , | | Surface (F6) | | | |
| | Sandy Mucky Mineral | - | | | ark Surface (F7) | | ³ Indicators of hydrophytic vegetation | |
| | - | ` ' | | · | , , | | hydrology must be present, unless | disturbed or |
| | _Sandy Gleyed Matrix (| 54) | | Redox Dep | ressions (F8) | • | problematic. | |
| Restrictive | Layer (if present): | | | | | | | |
| Туре: | | | | | | | | |
| Depth (inche | es): | | | | | Hydric Soil Pres | sent? Yes No | Х |
| Remarks: | • | | | | | | | |
| HYDROLO | OGY | | | | | | | |
| Wetland H | | s: | | | | | | |
| | ydrology Indicators | | uired: check all th | nat annly) | | | Secondary Indicators (2 or mo | ore required) |
| | ydrology Indicators licators (minimum of | | uired; check all th | , | ed Leaves (B9) (| Except MLRA | Secondary Indicators (2 or mo | |
| | ydrology Indicators licators (minimum of Surface Water (A1) | one req | uired; check all th | , | ed Leaves (B9) (d 4B) | Except MLRA | Secondary Indicators (2 or mo | (B9) |
| • | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) | one req | uired; check all th | Water stain 1, 2, 4A, an | d 4B) | Except MLRA | Water stained Leaves (MLRA1, 2, 4A, and 4 | (B9) 4B) |
| | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) | one req | uired; check all th | Water stain 1, 2, 4A, ar Salt Crust (| d 4B) B11) | Except MLRA | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 | (B9) 4B) |
| | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) | one req | uired; check all th | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv | d 4B) B11) ertebrates (B13) | | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai | (B9) 4B) 0) ble (C2) |
| | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) | one req | uired; check all th | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S | d 4B) B11) ertebrates (B13) sulfide Odor (C1) | | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tal Saturation Visible on A | (B9) 4B) 0) ble (C2) Aerial Imagery (|
| | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) | one req | uired; check all th | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon | g Living Roots (C3) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (| (B9) 4B) 0) ble (C2) Aerial Imagery (|
| | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4 | one req | uired; check all th | Water stain 1, 2, 4A, ar 1, 2, 4A, ar Salt Crust (Aquatic Invi Hydrogen S Oxidized Ri Presence o | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (G | g Living Roots (C3) C4) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) | (B9) 4B) 10) ble (C2) Aerial Imagery (|
| | ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | one req | uired; check all th | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o | d 4B) B11) ertebrates (B13) dulfide Odor (C1) nizospheres alon f Reduced Iron (C | g Living Roots (C3) C4) owed Soils (C6) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) | (B9) 4B) (0) ble (C2) Aerial Imagery (|
| | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4 | one req | uired; check all th | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (G | g Living Roots (C3) C4) owed Soils (C6) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) | (B9) 4B) (0) ble (C2) Aerial Imagery (|
| | ydrology Indicators licators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | one req | | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron | d 4B) B11) ertebrates (B13) dulfide Odor (C1) nizospheres alon f Reduced Iron (C | g Living Roots (C3) C4) owed Soils (C6) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) |
| | ydrology Indicators dicators (minimum of 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) Surface Soil Cracks (E | one req | gery (B7) | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (C Reduction in Pla Stressed Plants (| g Living Roots (C3) C4) owed Soils (C6) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tal Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) |
| Primary Ind | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated Co | one req | gery (B7) | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (C Reduction in Pla Stressed Plants (| g Living Roots (C3) C4) owed Soils (C6) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tal Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) |
| Primary Ind | ydrology Indicators dicators (minimum of 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) Surface Soil Cracks (E1) Inundation Visible on A2 Sparsely Vegetated Convertions: | one req | gery (B7) ırface (B8) | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S Other (Expl | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (C Reduction in Pla Stressed Plants (| g Living Roots (C3) C4) owed Soils (C6) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tal Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) |
| Field Obse | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated Co | one req | gery (B7) ırface (B8) No <u>X</u> | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S Other (Expl | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks) | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D Frost-Heave Hummod | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) |
| Field Obse Surface Water Table | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated Co | one req | gery (B7) urface (B8) NoX NoX | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized Ri Presence o Recent Iron Stunted or S Other (Expl | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (C Reduction in Plo Stressed Plants (C ain in Remarks) | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D Frost-Heave Hummod | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) 06) (LRR A) eks (D7) |
| Field Obse Surface Water Table I | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated Co | one req | gery (B7) ırface (B8) No <u>X</u> | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or S Other (Expl | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon f Reduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks) | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D Frost-Heave Hummod | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) 06) (LRR A) eks (D7) |
| Field Obse Surface Water Water Table Is Saturation Pr. | ydrology Indicators dicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated Co | 2) Aerial Imagonicave Su | gery (B7) urface (B8) NoX NoX NoX | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl Depth (inches): Depth (inches): | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon if Reduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks) >10+ >10+ | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D Frost-Heave Hummod | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) 06) (LRR A) eks (D7) |
| Field Obse Surface Water Water Table Is Saturation Pr. | ydrology Indicators dicators (minimum of 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) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated Co ervations: er Present? Yes Present? Yes ersent? Yes ary fringe) | 2) Aerial Imagonicave Su | gery (B7) urface (B8) NoX NoX NoX | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl Depth (inches): Depth (inches): | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon if Reduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks) >10+ >10+ | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D Frost-Heave Hummod | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) 06) (LRR A) eks (D7) |
| Field Obse Surface Wate Water Table Is Saturation Profit Country Includes Capilla | ydrology Indicators dicators (minimum of 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) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated Co ervations: er Present? Yes Present? Yes ersent? Yes ary fringe) | 2) Aerial Imagonicave Su | gery (B7) urface (B8) NoX NoX NoX | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl Depth (inches): Depth (inches): | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon if Reduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks) >10+ >10+ | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D Frost-Heave Hummod | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) 06) (LRR A) eks (D7) |
| Field Obse Surface Water Water Table I Saturation Pr (includes capilla) | ydrology Indicators dicators (minimum of 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) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated Co ervations: er Present? Yes Present? Yes ersent? Yes ary fringe) | 2) Aerial Imagonicave Su | gery (B7) urface (B8) NoX NoX NoX | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl Depth (inches): Depth (inches): | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon if Reduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks) >10+ >10+ | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D Frost-Heave Hummod | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) 06) (LRR A) eks (D7) |
| Field Obse Surface Water Water Table Is Saturation Princludes capilla | ydrology Indicators dicators (minimum of 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) Surface Soil Cracks (E Inundation Visible on A Sparsely Vegetated Co ervations: er Present? Yes Present? Yes ersent? Yes ary fringe) | 2) Aerial Imagonicave Su | gery (B7) urface (B8) NoX NoX NoX | Water stain 1, 2, 4A, ar Salt Crust (Aquatic Inv. Hydrogen S Oxidized RI Presence o Recent Iron Stunted or s Other (Expl Depth (inches): Depth (inches): | d 4B) B11) ertebrates (B13) sulfide Odor (C1) nizospheres alon if Reduced Iron (C Reduction in Plo Stressed Plants (ain in Remarks) >10+ >10+ | g Living Roots (C3) C4) owed Soils (C6) D1) (LRR A) Wetland Hyd | Water stained Leaves (MLRA1, 2, 4A, and 4 Drainage Patterns (B1 Dry-Season Water Tai Saturation Visible on A Geomorphic Position (Shallow Aquitard (D3) Fac-Neutral Test (D5) Raised Ant Mounds (D Frost-Heave Hummod | (B9) 4B) 0) ble (C2) Aerial Imagery ((D2) 06) (LRR A) eks (D7) |

6904

| Project/Site: Walgra | ve Property | City/County: | Tualat | in/Washington | Sampling Date: | 9/15 | /2021 |
|--|-----------------|--------------------|-------------------|---|--|---------------------|-----------|
| Applicant/Owner: Phelan D | evelopment | _ | | State: | OR | Sampling Point: | 18 |
| Investigator(s): | TF/MS | Section, To | wnship, Range: | Section | n 22, Township 25 | S, Range 1W | |
| Landform (hillslope, terrace, etc.:) | n | ione | Local relief (cor | ncave, convex, none): | none | Slope (%): | 1 |
| Subregion (LRR): | LRR A | Lat: | | Long: | | Datum: | WSG85 |
| Soil Map Unit Name: | | Hillsboro loam | | | ssification: | none | |
| Are climatic/hydrologic conditions | | | Yes | X No | - | ain in Remarks) | |
| Are vegetation Soil | ** | significantly dist | urbed? | Are "Normal Circumstance | | , | |
| Are vegetation Soil | | · | | explain any answers in Rei | | | |
| | | naturally problem | mano: ii necaca | copiant any answers in reci | nancs.) | | |
| SUMMARY OF FINDING | S – Attach site | map showing san | npling point | locations, transects | , important feat | ures, etc. | |
| Hydrophytic Vegetation Present? | Yes X | No | la Camplad Ar | a a seidhin | | | |
| Hydric Soil Present? | Yes | No X | Is Sampled Ar | ea within id? | | No X | |
| Wetland Hydrology Present? | Yes | No X | | · | | | |
| Remarks: | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| VEGETATION - Use scie | ntific names of | plants. | | | | | |
| | absol | | Indicator | Dominance Test wor | ksheet: | | _ |
| Tree Stratum (plot size: | <u>% co</u> | ver Species? | Status | Number of Dominant Spec | ripe | | |
| 1 | | | | That are OBL, FACW, or I | | 3 | (A) |
| 2 | | | | That are OBL, FACW, or i | -AC. | | (A) |
| 3 | | | | Total Number of Dominan | • | | |
| 4 | | | | Species Across All Strata: | | 3 | (B) |
| · | | = Total Cover | | oposios / toroco / tir otrata. | - | | (5) |
| Canling/Charle Stratum | | | | | | | |
| Sapling/Shrub Stratum (plot si | | v | FAC | Percent of Dominant Spec | | 4000/ | (A /D) |
| 1 Rubus armeniacus | <u>45</u> 3 | X | FAC FAC | That are OBL, FACW, or | FAC: | 100% | (A/B) |
| 2 Crataegus monogyna 3 Frangula purshiana | | <u> </u> | FAC | Prevalence Index Wo | rkshoot: | | |
| 4 Corylus cornuta | 1 | | FACU | Total % Cover of | Multiply by | | |
| 5 Quercus garryana | | | FACU | OBL Species | x 1 = | <u>·</u> | |
| quorous gurryunu | | = Total Cover | 17.00 | FACW species | x 2 = | 0 | |
| | | | | FAC Species | x 3 = | 0 | |
| Her <u>b Stratum</u> (plot size: | 10) | | | FACU Species | x 4 = | 0 | |
| 1 Unidentified grass | 20 | X | (FAC) | UPL Species | x 5 = | 0 | |
| 2 Bromus sp | 15 | X | (FAC) | Column Totals | 0 (A) | 0 | (B) |
| 3 Trifolium arvense | 5 | | UPL | | | | |
| 4 Centaurium erythraea | 5 | | FAC | Prevalence Index =E | 3/A = # | DIV/0! | |
| 5 Hypochaeris radicata | 4 | | FACU | | | | |
| 6 Unidentified forb | 3 | | (FAC) | Hydrophytic Vegetati | | | |
| 7 Daucus carota | 1 | | FACU | - | I- Rapid Test for Hydr | . , . | 1 |
| 8 | | | | | 2- Dominance Test is | | |
| | 53 | = Total Cover | | | 3-Prevalence Index is 4-Morphological Adapt | | upportina |
| Woody Vine Stratum (plot size: |) | | | | data in Remarks or on | | - |
| 1 | | | | | 5- Wetland Non-Vascu | | |
| 2 | | | | F | Problematic Hydrophy | tic Vegetation¹ (Ex | φlain) |
| - | 0 | = Total Cover | | ¹ Indicators of hydric soil ar | | | |
| | | | | disturbed or problematic. | , 52 | · | |
| | | | | | | | |
| % Bare Ground in Herb Stratum | 30 | | | Hydrophytic Vegetation | Yes X | No | |

| SOIL | | | PHS# | 6904 | | | Sampling Point | 18 |
|---|---|--|---|--|---|---|---|---|
| | ription: (Describe to t | he depth | needed to docum | | | nce of indicators.) | | |
| Depth | Matrix | | | Redox Featur | 1 0 | _ | _ | |
| (Inches) | Color (moist) | % | Color (moist) | | e ¹ Loc ² | Texture | Rema | rks |
| 0-12 | 7.5YR 3/3 | 100 | | | | Sandy Loam | Coarse | |
| | | | | | | | | |
| | <u> </u> | | | | | 1 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | _ |
| | | | | | | | | |
| | | | | | | | | |
| Tumou C=Com | acontration D-Donlatio | | dueed Metrix CC- | Cavarad ar Castad | Sand Crains | | 21 agation, DI =Dara Lining | Manatrix |
| | ncentration, D=Depletion | | | | | la ali a | ² Location: PL=Pore Lining, | |
| iyaric Soli | Indicators: (Appli | cable to | all LRRS, unles | | | inaic | cators for Problematic H | |
| | Histosol (A1) | | | | Redox (S5) | | 2 cm Muck (A | • |
| | Histic Epipedon (A2) | | | | Matrix (S6) | | Red Parent M | |
| | Black Histic (A3) | | | Loamy | Mucky Mineral (F1) (| except MLRA 1) | Very Shallow | Dark Surface (TF12) |
| | Hydrogen Sulfide (A4) | • | | Loamy | Gleyed Matrix (F2) | | Other (explain | n in Remarks) |
| | Depleted Below Dark | Surface (A | A11) | Deplete | d Matrix (F3) | | | |
| | Thick Dark Surface (A | \12) | | Redox I | Oark Surface (F6) | | 3 | |
| | Sandy Mucky Mineral | (S1) | | Deplete | d Dark Surface (F7) | | ³ Indicators of hydrophytic ve hydrology must be present | |
| | Sandy Gleyed Matrix | (S4) | | Redox [| Depressions (F8) | | problema | |
| testrictive | Layer (if present): | | | | | | | |
| ` | | | | | | | | |
| ype. | | | | | | | | |
| • • | es): | | | | | Hydric Soil Pre | sent? Yes | No X |
| Depth (inche | es): | | | | | Hydric Soil Pre | sent? Yes | No X |
| Depth (inche | es): | | | | | Hydric Soil Pre | sent? Yes | No X |
| Depth (inche | es): | | | | | Hydric Soil Pre | sent? Yes | No X |
| Depth (inche | es): | | | | | Hydric Soil Pre | sent? Yes | No X |
| Depth (inche | | | | | | Hydric Soil Pre | sent? Yes | No X |
| Depth (inche | DGY | s: | | | | Hydric Soil Pre | sent? Yes | No X |
| Depth (inche Remarks: HYDROLO Wetland Hy | DGY ydrology Indicators | | uirod: abaak all t | hot apply) | | Hydric Soil Pre | | |
| Depth (inche Remarks: HYDROLO Wetland Hy | OGY ydrology Indicators icators (minimum o | | uired; check all t | , | tained Leaves (RQ) | | Secondary Indicators (| 2 or more required) |
| Depth (inche Remarks: HYDROLO Wetland Hy | OGY ydrology Indicators icators (minimum of Surface Water (A1) | f one req | uired; check all t | Water s | tained Leaves (B9) | | Secondary Indicators (| 2 or more required) |
| Depth (inche Remarks: HYDROLO Wetland Hy | OGY ydrology Indicators icators (minimum of Surface Water (A1) High Water Table (A2) | f one req | uired; check all 1 | Water s | , and 4B) | | Secondary Indicators (| 2 or more required) I Leaves (B9) IA, and 4B) |
| Depth (inche Remarks: HYDROLO Vetland Hy | pdrology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) | f one req | uired; check all 1 | Water s 1, 2, 4A Salt Cru | st (B11) | | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt | 2 or more required) I Leaves (B9) IA, and 4B) Iderns (B10) |
| Depth (inche Remarks: HYDROLO Wetland Hy | DGY ydrology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) | f one req | uired; check all t | Water s 1, 2, 4A Salt Cru Aquatic | st (B11) Invertebrates (B13) | Except MLRA | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V | 2 or more required) I Leaves (B9) IA, and 4B) terns (B10) Vater Table (C2) |
| Depth (inche Remarks: HYDROLO Vetland Hy | OGY ydrology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B | f one req | uired; check all t | Water s 1, 2, 4A Salt Cru Aquatic Hydroge | st (B11) Invertebrates (B13) Sn Sulfide Odor (C1) | Except MLRA | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V | 2 or more required) I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) sible on Aerial Imagery (|
| Depth (inche Remarks: HYDROLO Wetland Hy | pogy icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) | f one req | uired; check all f | Water s 1, 2, 4A Salt Cru Aquatic Hydroge Oxidize | and 4B) st (B11) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres alon | (Except MLRA | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F | 2 or more required) I Leaves (B9) IA, and 4B) Perns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) |
| Depth (inche Remarks: HYDROLO Wetland Hy | pogy ydrology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) | f one req | uired; check all f | Water s 1, 2, 4A Salt Cru Aquatic Hydroge Oxidize Presence | and 4B) st (B11) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres alon ee of Reduced Iron (| (Except MLRA g Living Roots (C3) C4) | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic R Shallow Aquit | 2 or more required) I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) |
| Depth (inche Remarks: HYDROLO Wetland Hy | DGY ydrology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | f one req 2) 32) | uired; check all f | Water s 1, 2, 4A Salt Cru Aquatic Hydroge Oxidize Presence | and 4B) st (B11) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres alon | (Except MLRA g Living Roots (C3) C4) | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F | 2 or more required) I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) |
| Depth (inche Remarks: HYDROLO Wetland Hy | pogy ydrology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3) | f one req 2) 32) | uired; check all t | Water s 1, 2, 4A Salt Cru Aquatic Hydroge Oxidize Presence Recent | and 4B) st (B11) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres alon ee of Reduced Iron (| g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T | 2 or more required) I Leaves (B9) IA, and 4B) erns (B10) Vater Table (C2) sible on Aerial Imagery (Position (D2) ard (D3) |
| Depth (inche Remarks: HYDROLO Wetland Hy | DGY ydrology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) | f one req 2) 32) 4) B6) | | Water's 1, 2, 4A Salt Cru Aquatic Hydroge Oxidize Presence Recent Stunted | and 4B) st (B11) Invertebrates (B13) sn Sulfide Odor (C1) d Rhizospheres alon e of Reduced Iron (Iron Reduction in Pla | g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant M | 2 or more required) I Leaves (B9) IA, and 4B) Iderns (B10) Vater Table (C2) Iderical Imagery (Position (D2) Iderated (D3) Iderated (D3) Iderated (D5) |
| Depth (inche Remarks: HYDROLO Wetland Hy | pdrology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) | Water's 1, 2, 4A Salt Cru Aquatic Hydroge Oxidize Presence Recent Stunted | and 4B) st (B11) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres alon e of Reduced Iron (c) fron Reduction in Pla or Stressed Plants | g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant M | 2 or more required) I Leaves (B9) IA, and 4B) Perns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) ard (D3) Pest (D5) Sounds (D6) (LRR A) |
| Depth (inche Remarks: HYDROLC Wetland Hy Primary Ind | DGY ydrology Indicators icators (minimum of Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4 Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on Sparsely Vegetated C | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) | Water's 1, 2, 4A Salt Cru Aquatic Hydroge Oxidize Presence Recent Stunted | and 4B) st (B11) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres alon e of Reduced Iron (c) fron Reduction in Pla or Stressed Plants | g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant M | 2 or more required) I Leaves (B9) IA, and 4B) Perns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) ard (D3) Pest (D5) Sounds (D6) (LRR A) |
| Depth (inche Remarks: HYDROLO Wetland Hy Primary Ind | icators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (II Inundation Visible on Sparsely Vegetated Corvations: | f one req 2) 32) 4) B6) Aerial Ima | gery (B7) | Water s 1, 2, 4A Salt Cru Aquatic Hydroge Oxidize Presence Recent Stunted Other (E | and 4B) st (B11) Invertebrates (B13) en Sulfide Odor (C1) d Rhizospheres alon e of Reduced Iron (Iron Reduction in Plo or Stressed Plants explain in Remarks) | g Living Roots (C3) C4) owed Soils (C6) | Secondary Indicators (Water stained (MLRA1, 2, 4 Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit Fac-Neutral T Raised Ant M | 2 or more required) I Leaves (B9) IA, and 4B) Perns (B10) Vater Table (C2) Sible on Aerial Imagery (Position (D2) ard (D3) Pest (D5) Sounds (D6) (LRR A) |
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Appendix C

Photo documentation





Photo A:

Looking west across the VC at the north end of lot 551.

Photo taken: September 24, 2021

Photo B:

Looking west into forested and shrub upland west of Wetland A.

Photo taken: September 24, 2021



Project #6904 Date 10/22/21



Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Photo documentation
Walgraeve Partition - Tualatin, Oregon



Photo C:

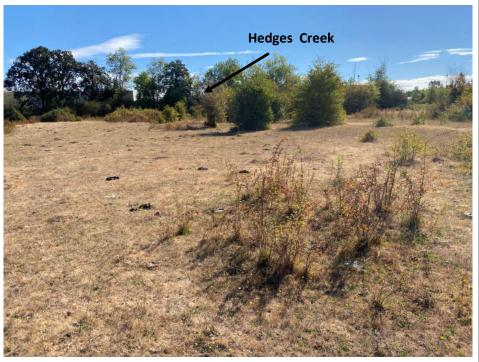
Looking northwest into a forested area in the northwest portion of lot 550.

Photo taken: September 24, 2021

Photo D:

Looking south across an upland "island" north of Hedges Creek.

Photo taken: September 24, 2021



Project #6904 Date 10/22/21



Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070 Photo documentation
Walgraeve Partition - Tualatin, Oregon



Photo E:

Looking east across grazed upland south of the wetland.

Photo taken: September 24, 2021

Photo F:

Looking southeast into blackberry dominated VC south of Wetland A.

Photo taken: September 24, 2021



Project #6904



Pacific Habitat Services, Inc. 9450 SW Commerce Circle, Suite 180 Wilsonville, OR 97070

Photo documentation Walgraeve Partition - Tualatin, Oregon

Project Contact Information

Walgraeves Industrial

Property Owner:

Walgraeves 11345 SW Herman Rd. Tualatin, OR 97062 503.692.0766 farmboys@comcast.net

Applicant:

Phelan Development Company 6750 SW Bradbury Ct. Portland, OR 97224 503.718.8837 mdearmey@phelandevco.com

Architect:

CCA, Inc. 18600 MacArthur Boulevard, Suite 300 Irvine, CA 92612 949.833.1930 alexj@ccarchitects.com

Engineer:

AAI Engineering 4875 SW Griffith Drive #100 Beaverton, OR 97005 503.620.3030 craigh@aaieng.com

Planner:

AAI Engineering 4875 SW Griffith Drive #100 Beaverton, OR 97005 503.620.3030 bethz@aaieng.com

Landscape Architect

AAI Engineering 4875 SW Griffith Drive #100 Beaverton, OR 97005 503.620.3030 teresal@aaieng.com

Traffic Engineer:

Lancaster Mobley Engineering 321 SW 4th Ave. #400 Portland, OR 97204 503.248.0373 daniel@lancastermobley.com

Environmental Engineer:

Pacific Habitat Services Inc. 9450 SW Commerce Circle, #180 Wilsonville, OR 97070 503.570.0800 jvs@pacifichabitat.com



November 10, 2021

Alex Jewel
Carlile Coatsworth Architects

Re: Walgraeve Property 11345 SW Herman Rd. Tualatin, OR 97062

Dear Alex,

Thank you, for sending us the preliminary site plans for this proposed development in Tualatin.

My Company: Republic Services of Clackamas and Washington Counties has the franchise agreement to service this area with the City of Tualatin. We will provide complete commercial waste removal and recycling services as needed on a weekly basis for this location

The commercial design plan that you provided on 11/4/2021 which includes a standard trash/recycle enclosure design of 10' x 20' and includes two enclosures per buildings A, B, and C, totaling six enclosures, will provide adequate space for our trash and recycle receptacles and are accessible for our collection trucks to provide service. You communicated that SW Myslony Street is planned for extension and that the site access aprons will connect with the planned street extension which will allow access for our trucks to enter the site. The site driveway design plan will allow for our trucks to navigate this location.

Thanks Alex, for your help and concerns for our services prior to this project being developed.

Sincerely,

Kelly Herrod

Operations Supervisor Republic Services Inc.



www.tvfr.com

Command & Business Operations Center and North Operating Center 11945 SW 70th Avenue Tigard, Oregon 97223-8566 503-649-8577 South Operating Center 8445 SW Elligsen Road Wilsonville, Oregon 97070-9641 503-649-8577 Training Center 12400 SW Tonquin Road Sherwood, Oregon 97140-9734 503-259-1600

FIRE DEPARTMENT ACCESS AND WATER SUPPLY PERMIT CHECKLIST

| Project Name | Address and/or Legal Description | TVF&R Permit # |
|---|--|------------------|
| Walgraeves | 25122D00050 | |
| Description of Proposed Work: | Three-structure Industrial Park Wasse. SHE WORK | Jurisdiction: |
| Bldg. 442,035 Square (total) Footage: | Type of Construction: V-B | Fire Sprinklers: |
| Fire Alarms: Y⊠ N□ | Bldg. Height: (Measured to gutter line or top of parapet) 41'-8" | ERRC MERRC N/A |

Complete checklist below if the submittal involves constructing or altering a building.

| ITEM # | PROVIDED | | REQUIREMENT | CODE REF |
|-----------|----------|-------|---|----------------------------|
| 1 | YX | N/A 🗌 | Fire service plans shall consist of a site plan and elevation views of buildings. The site plan shall be labeled as FS-1. Elevation view sheets shall be FS-2, FS-3, etc. | OFC 105.4.2 |
| 2 | YX | N/A 🗍 | Access roads shall be within 150 feet of all portions of the exterior wall of the first story of the building as measured by an approved route around the exterior of the building or facility. An approved turnaround is required if the remaining distance to an approved intersecting roadway, as measured along the fire apparatus access road, is greater than 150 feet. (OFC 503.1.1) | OFC 503.1.1 |
| 3 | Υ□ | N/A X | Dead end fire apparatus access roads in excess of 150 feet in length shall be provided with an approved turnaround. Diagrams can be found in the corresponding guide located at: http://www.tvfr.com/DocumentCenter/View/1296 . | OFC 503.2.5 & D103.1 |
| 4 | YX | N/A 🗌 | Buildings exceeding 30 feet in height or three stories in height shall have at least two separate means of fire apparatus access. | D104.1 |
| 5 | YX | N/A 🗌 | Buildings or facilities having a gross building area of more than 62,000 square feet shall have at least two approved separate means of fire apparatus access. Exception: Projects having a gross building area of up to 124,000 square feet that have a single approved fire apparatus access road when all buildings are equipped throughout with approved automatic sprinkler systems. | OFC D104.2 |
| 6 | _Y | N/A 🔀 | Multifamily projects having more than 100 dwelling units shall be provided with two separate and approved fire apparatus access roads. Exception: Projects having up to 200 dwelling units may have a single approved fire apparatus access road when all buildings, including nonresidential occupancies, are equipped throughout with an approved automatic sprinkler system in accordance with section 903.3.1.1, 903.3.1.2. Projects having more than 200 dwelling units shall be provided with two separate and approved fire apparatus roads regardless of whether they are equipped with an approved automatic sprinkler system. | OFC D106 |
| 7 | ΥX | N/A 🗌 | Buildings with a vertical distance between the grade plane and the highest roof surface that exceeds 30 feet in height shall be provided with a fire apparatus access road constructed for use by aerial apparatus with an unobstructed driving surface width of not less than 26 feet. For the purposes of this section, the highest roof surface shall be determined by | OFC D105.1, D105.2 |

| ITEM # | PRO | VIDED | REQUIREMENT | CODE REF |
|-----------|-----|-------|---|---------------------------------|
| E- | | | measurement to the eave of a pitched roof, the intersection of the roof to the exterior wall, or the top of the parapet walls, whichever is greater. Any portion of the building may be used for this measurement, provided that it is accessible to firefighters and is capable of supporting ground ladder placement. | Nev |
| 8 | Y | N/A 🔀 | Developments of one- or two-family dwellings, where the number of dwelling units exceeds 30, shall be provided with separate and approved fire apparatus access roads and shall meet the requirements of Section D104.3. Exception: Where there are more than 30 dwelling units on a single public or private fire apparatus access road and all dwelling units are equipped throughout with an approved automatic sprinkler system in accordance with section 903.3.1.1, 903.3.1.2, or 903.3.1.3 of the International Fire Code, access from two directions shall not be required. | OFC D107 |
| 9 | YX | N/A 🗌 | At least one of the required aerial access routes shall be located within a minimum of 15 feet and a maximum of 30 feet from the building, and shall be positioned parallel to one entire side of the building. The side of the building on which the aerial access road is positioned shall be approved by the Fire Marshal. Overhead utility and power lines shall not be located over the aerial access road or between the aerial access road and the building. | OFC D105.3, D105.4 |
| 10 | ΥX | N/A 🔲 | Where two access roads are required, they shall be placed a distance apart equal to not less than one half of the length of the maximum overall diagonal dimension of the area to be served (as identified by the Fire Marshal), measured in a straight line between accesses. | OFC D104.3 |
| 11 | ΥX | N/A 🗌 | Fire apparatus access roads shall have an unobstructed driving surface width of not less than 20 feet (26 feet adjacent to fire hydrants and an unobstructed vertical clearance of not less than 13 feet 6 inches. | OFC 503.2.1 & D103.1 |
| 12 | Υ□ | N/A 🔀 | The fire district will approve access roads of 12 feet for up to three dwelling units (Group R-3) and accessory (Group U) buildings. | OFC 503.1.1 |
| 13 | Y | N/A 🔀 | Where access roads are less than 20 feet and exceed 400 feet in length, turnouts 10 feet wide and 30 feet long may be required and will be determined on a case by case basis. | OFC 503.2.2 |
| 14 | Y 🔲 | N/A 🔀 | Where fire apparatus roadways are not of sufficient width to accommodate parked vehicles and 20 feet of unobstructed driving surface, "No Parking" signs shall be installed on one or both sides of the roadway and in turnarounds as needed. Signs shall read "NO PARKING - FIRE LANE" and shall be installed with a clear space above grade level of 7 feet. Signs shall be 12 inches wide by 18 inches high and shall have red letters on a white reflective background. | OFC D103.6 |
| 15 | YX | N/A 🗌 | Where required, fire apparatus access roadway curbs shall be painted red (or as approved) and marked "NO PARKING FIRE LANE" at 25-foot intervals. Lettering shall have a stroke of not less than one inch wide by six inches high. Lettering shall be white on red background | OFC 503.3 |
| 16 | ΥX | N/A 🗌 | Where a fire hydrant is located on a fire apparatus access road, the minimum road width shall be 26 feet and shall extend 20 feet before and after the point of the hydrant. | OFC D103.1 |
| 17 | Υ□ | N/A 🔀 | Where access roads are less than 20 feet and exceed 400 feet in length, turnouts 10 feet wide and 30 feet long may be required and will be determined on a case by case basis. | OFC 503.2.2 |
| 18 | YX | N/A 🔲 | Fire apparatus access roads shall be of an all-weather surface that is easily distinguishable from the surrounding area and is capable of supporting not less than 12,500 pounds point load (wheel load) and 75,000 pounds live load (gross vehicle weight). Documentation from a registered engineer that the final construction is in accordance with approved plans or the requirements of the Fire Code may be requested. | OFC 503.2.3 |
| 19 | YX | N/A 🗌 | The inside turning radius and outside turning radius shall not be less than 28 feet and 48 feet respectively, measured from the same center point. | OFC 503.2.4 & D103.3 |
| 20 | YX | N/A 🔲 | Fire apparatus access roadway grades shall not exceed 15%. Alternate methods and materials may be available at the discretion of the Fire Marshal (for grade exceeding 15%). | OFC D103.2 |
| 21 | Y | N/A 🔀 | Approved forest dwellings (in which the structure meets all County forest dwelling fire siting, fire retardant roof, and spark arrestor requirements) are allowed up to 20% maximum grade. Access roads greater than 20% shall be considered on a case-by-case basis. Forest dwelling access roads shall be an all-weather surface capable of supporting imposed loads of not less than 37,000 pounds gross vehicle weight and be no less than 12 feet minimum width. All other access requirements, including turnarounds shall be determined upon a | OFC 503.1.1 & D102.1.1 |

| ITEM | PRO | VIDED | REQUIREMENT | CODE |
|------|-----|-------|--|--------------------------------|
| # | | | | REF |
| 22 | ٧ | N/A 🔀 | Turnarounds shall be as flat as possible and have a maximum of 5% grade with the exception of crowning for water run-off. | OFC 503.2.7 & D103.2 |
| 23 | ΥX | N/A 🗌 | Intersections shall be level (maximum 5%) with the exception of crowning for water run-off. | OFC 503.2.7 & D103.2 |
| 24 | YX | N/A 🔲 | Portions of aerial apparatus roads that will be used for aerial operations shall be as flat as possible. Front to rear and side to side maximum slope shall not exceed 10%. | OFC D103.2 |
| 25 | YX | N/A 🗌 | Gates securing fire apparatus roads shall comply with all of the following: Minimum unobstructed width shall be not less than 20 feet (or the required roadway surface width). Gates shall be set back at minimum of 30 feet from the intersecting roadway or as approved. Electric gates shall be equipped with a means for operation by fire department personnel. Electric automatic gates shall comply with ASTM F 2200 and UL 325. | OFC D103.5, & 503.6 |
| 26 | Y 🔲 | N/A 🔀 | Private bridges shall be designed and constructed in accordance with the State of Oregon Department of Transportation and American Association of State Highway and Transportation Officials Standards Standard Specification for Highway Bridges. Vehicle load limits shall be posted at both entrances to bridges when required by the Fire Marshal. | OFC 503.2.6 |
| 27 | YX | N/A 🗌 | Applicants shall provide documentation of a fire hydrant flow test or flow test modeling of water availability from the local water purveyor if the project includes a new structure or increase in the floor area of an existing structure. Tests shall be conducted from a fire hydrant within 400 feet for commercial projects, or 600 feet for residential development. Flow tests will be accepted if they were performed within 5 years as long as no adverse modifications have been made to the supply system. Water availability information may not be required to be submitted for every project. | OFC Appendix B |
| 28 | ΥX | N/A 🔲 | Where a portion of a commercial building is more than 400 feet from a hydrant on a fire apparatus access road, as measured in an approved route around the exterior of the building, on-site fire hydrants and mains shall be provided. | OFC 507.5.1 |
| 29 | Y 🗆 | N/A 🔀 | Where the most remote portion of a residential structure is more than 600 feet from a hydrant on a fire apparatus access road, as measured in an approved route around the exterior of the structure(s), on-site fire hydrants and mains shall be provided. | OFC 507.5.1 |
| 30 | Υ 🔲 | N/A 🔀 | Rural one-and-two-family dwellings, where there is no fixed and reliable water supply and there is approved access, shall not be required to provide a firefighting water supply. | OFC B103 |
| 31 | Ϋ́ | N/A 🔀 | Detached U occupancies, in rural areas, that are in excess of 3,600 square feet are not required to have a water supply when they have approved fire department access. | OFC D102 |
| 32 | ΥX | N/A 🗆 | Fire hydrants shall be located not more than 15 feet from an approved fire apparatus access roadway unless approved by the Fire Marshal. | OFC C102.1 |
| 33 | YX | N/A 🗀 | Where fire hydrants are subject to impact by a motor vehicle, guard posts, bollards or other approved means of protection shall be provided. | OFC 507.5.6 & OFC 312 |
| 34 | ΥX | N/A 🗌 | FDCs shall be located within 100 feet of a fire hydrant (or as approved). Hydrants and FDC's shall be located on the same side of the fire apparatus access roadway or drive aisle, fully visible, and recognizable from the street or nearest point of the fire department vehicle access or as otherwise approved. | OFC 912.2.1 & NFPA 13 |

| ITEM # | PROVIDED | REQUIREMENT | CODE REF |
|-----------|----------|--|--|
| 35 | Y X N/A | In new buildings where the design reduces the level of radio coverage for public safety communications systems below minimum performance levels, a distributed antenna system, signal booster, or other method approved by TVF&R and Washington County Consolidated Communications Agency shall be provided. http://www.tvfr.com/DocumentCenter/View/1296. Emergency responder radio system testing and/or system installation is required for this building. Please contact me (using my contact info below) for further information including an alternate means of compliance that is available. If the alternate method is preferred, it must be requested from TVF&R prior to issuance of building permit. Testing shall take place after the installation of all roofing systems; exterior walls, glazing and siding/cladding; and all permanent interior walls, partitions, ceilings, and glazing. MERRC Q&A MERRC Q&A MERRC Permit Application MERRC Permit Application | OFC 510, Appendix F, & OSSC 915 |
| 36 | Y X N/A | A Knox box for building access may be required for structures and gates. See Appendix B for further information and detail on required installations. Order via www.knoxbox.com or contact TVF&R for assistance and instructions regarding installation and placement. | OFC 506.1 |

CERTIFICATION OF SIGN POSTING



ARCHITECTURAL REVIEW AR-[YY]-__

For more information call 503-691-3026 or visit www.tualatinoregon.gov

The applicant must provide and post a sign pursuant to Tualatin Development Code (TDC 32.150). The block around the word "NOTICE" must remain yellow composed of the RGB color values Red 255, Green 255, and Blue 0. A template is available at:

https://www.tualatinoregon.gov/planning/land-use-application-sign-templates

NOTE: For larger projects, the Community Development Department may require the posting of additional signs in conspicuous locations.

| the applicant for the <u>Walgraeve's</u> projection | ect, |
|---|------|
| ereby certify that on this day, $\underline{\text{Friday}}, \underline{\text{May } 20, 2022}$ sign(s) was/were posted on the subject property | / in |
| cordance with the requirements of the Tualatin Development Code and the Community Development Divisi | on. |
| Applicant's Name: Beth Zauner, PLA | |
| (Please Print) | |
| Applicant's Signature: | |
| Date: 5/20/2022 | |