

Planning & Development • 22500 Salamo Rd #1000 • West Linn, Oregon 97068 Telephone 503.656.4211 • Fax 503.656.4106 • westlinnoregon.gov

VELOPMENT DEVIEW APPLICATION

STAFF CONTACT			For Office Us	2 0 11 17			
Chi	ris Myers		-01/WAP-22-0)1/MISC-22	-06/WRG-22	1000	PA-22-01, 02
Non-Refundable FEE			UNDABLE DEPOSIT(S)		TOTAL		
\$5	00			\$2,800 + \$	1,700+1,050	+ 1,8	50 = \$7,900
Type of Review (Pl	ease check all	that apply):					
Annexation (ANO)		Historic Re	eview		Subdivision (SUB)	
Appeal and Review	(AP)	Legislative	Plan or Change		Temporary U	ses	
Conditional Use (O		Lot Line A	djustment (LLA)		☐ Time Extensi	on	
Design Review (DR	1		tition (MIP) (Prelimi		☐ Variance (VA		
Easement Vacation	1	The second contract of	orming Lots, Uses 8				Protection/Single Lat (WA
Extraterritorial Ext.			nit Development (f		The state of the s		Protection/Wetland (WAI
Final Plat or Plan (I			ation Conference (PA)			n River Greenway (WRG
Flood Managemen		Street Vac	ation		Zone Change		
Hillside Protection			o Povlov Parmit	and Temporar	Sign Permit and	dication	s require different or
additional application	forms, available	on the City web	site or at City Hall.	and reniporar	y sign remine opp	nication.	o require different of
ite Location/Addr				1	Assessor's Map	No.:	3-1E-2AC
1310 9th St. (5		0 9th St.) 123	20 9th St	- 5	Tax Lot(s):		300
				1	Total Land Area	1:	49,128 S.F.
Brief Description of	f Dronocal:						
Applicant Name: (please print) Address:	Icon Construction & Development, L 1969 Willamette Falls Dr., Suite 260 West Linn, OR 97068		100		Email:darre	en@ic	conconstruction.ne
City State Zip:	west Limi,	OK 37000			THE COURSE		
Owner Name (requi (please print)	red): Same	as applicant.			Phone:		
Address:		1675			Email:		
City State Zip:							
Consultant Name:					Phone: c	00.00	4 0004
(please print)		s, Planning C	onsultant		Part of Manager 1977	ATT FOR FAIR	1-8204
Address:	18680 Sun				Email: 1	ickgiv	ens@gmail.com
City State Zip:	Oregon Cit	y, OR 97045	8				
 All application for the owner/application. The owner/application may be a decision may be a decision may be a decision may be a decision. The City accepts e form and support https://westlinno. 	cant or their r be reversed or lectronic (.pdf) ing documents	epresentative appeal. The p land use applica through the <u>Sub</u>	should be press ermit approval wi tions and project mit a Land Use Ap	ent at all publ Il not be effecti submissions fro	ic hearings. ive until the appe om applicants. Ap	al peri	t in additional billin ad has expired. Is should submit this
The undersigned pro hereby agree to com- complete submittal.	perty owner(s) h ply with all code All amendments forced where as	requirements ap to the Commun plicable. Approv	s the filing of this a aplicable to my app ity Development C	olication. Accept ode and to othe	tance of this appli r regulations ado	cation of oted aft	by authorized staff. I loes not infer a ler the application is under the provisions in
1 /_	(/		3-28-22	16	1	333	3/28/22
Applicant's signat	ture		Date	Owner's sig	nature (require	:d)	Date /
CONTROL CONTRO	SOME CO.		1000000		-vertex (5-4V) -51(1)(0)	050	4 13-05-96-5-10

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Application Narrative

1220 9th St, West Linn

Icon Construction & Development, LLC

Proposal: This application requests approval of a three-lot partition, including WRG and WRAP reviews, for property located at 1220 9th St, West Linn in West Linn. The property is located at the intersection of 9th Street and 3rd Avenue in the Willamette area of West Linn. It is presently developed with one single-family home and a large outbuilding. The subject property is 49,208 square feet in area and is zoned R-10. The Clackamas County Assessor's description of the property is the eastern portion of Tax Lot 31E02AC000300. Tax Lot 300 is comprised of two legal platted lots of record: Tract C and Tract D. The partition is located on Tract D. Tract C will be developed separately with one single-family residence and is not a part of the partition application. It is included, however, with the HCA application relating to wetlands on the property.



Vicinity Map



The proposed development conforms to the applicable provisions of the CDC as follows:

CHAPTER 11 SINGLE-FAMILY RESIDENTIAL DETACHED, R-10

11.030 PERMITTED USES

The following are uses permitted outright in this zoning district

1. Single-family detached residential unit. (....)

Comment: The purpose of this application is to divide the property into three parcels to accommodate two new single family detached residential units plus the existing single-family home. This use is permitted use by this section. The criterion is met.

11.070 DIMENSIONAL REQUIREMENTS, USES PERMITTED OUTRIGHT AND USES PERMITTED UNDER PRESCRIBED CONDITIONS

Except as may be otherwise provided by the provisions of this code, the following are the requirements for uses within this zone:

1. The minimum lot size shall be 10,000 square feet for a single-family detached unit.

Comment: Parcel 1 will be 18,840 S.F. sq. ft. in area. Parcel 2 contains 13,606 S.F., and Parcel 3 is 16,682 S.F. This criterion is met.

2. The minimum front lot line length or the minimum lot width at the front lot line shall be 35 feet.

Comment: Parcel 1 has approximately 168 feet of frontage on 9th Street, Parcel 2 has 110 feet of frontage on 9th Street. Parcel 3 is accessed via an easement from 9th Street, but is approximately 87 feet in width at the front lot line. This standard is met.

3. The average minimum lot width shall be 50 feet.

Comment: Parcel 1 has an average lot width of 137 feet. Parcel 2 has a lot width of 110 feet. Parcel 3 measures approximately 79 feet wide at the midpoint of the lot depth. This standard is met.

- 4. Repealed by Ord. 1622.
- 5. Except as specified in CDC 25.070(C)(1) through (4) for the Willamette Historic District, the minimum yard dimensions or minimum building setback area from the lot line shall be:
 - a. For the front yard, 20 feet; except for steeply sloped lots where the provisions of CDC 41.010 shall apply.
 - b. For an interior side yard, seven and one-half feet.
 - c. For a side yard abutting a street, 15 feet.
 - d. For a rear yard, 20 feet.

Comment: The property is not in the Willamette Historic District. The existing home on Parcel 1 has a front yard of 51', a minimum interior side yard of 7.5' adjacent to Parcel 2 and a rear yard of approximately 23'. Setbacks for the homes to be constructed on both new parcels will be reviewed at the time of building permit application, but will conform to these standards.

6. The maximum building height shall be 35 feet, except for steeply sloped lots in which case the provisions of Chapter 41 CDC shall apply.

Comment: The existing home on Parcel 1 has a height of approximately 32', as shown on the Existing Conditions Map. Building height for the new homes will be reviewed with the building permit, but will not exceed the 35-foot height standard.

7. The maximum lot coverage shall be 35 percent.

Comment: Lot coverage for the existing home on Parcel 1 is approximately 2,014 sq. ft. counting the house and garage footprints. This equates to about 10.7% of the lot area. Lot coverage for the home to be built on the Parcels 2 and 3 will comply with the 35% maximum standard, as will be demonstrated at the time of building permit application.

8. The minimum width of an accessway to a lot which does not abut a street or a flag lot shall be 15 feet.

Comment: The access easement serving Parcel 3 is 27 feet in width. This standard is met.

9. The floor area ratio shall be 0.45. Type I and II lands shall not be counted toward lot area when determining allowable floor area ratio, except that a minimum floor area ratio of 0.30 shall be allowed regardless of the classification of lands within the property. That 30 percent shall be based upon the entire property including Type I and II lands. Existing residences in excess of this standard may be replaced to their prior dimensions when damaged without the requirement that the homeowner obtain a non-conforming structures permit under Chapter 66 CDC.

Comment: Compliance with the floor area ratio standard will be reviewed with the building permits.

10. The sidewall provisions of Chapter 43 CDC shall apply.

Comment: Compliance of the new homes will be reviewed with the building permit applications.

Chapter 85 GENERAL PROVISIONS (Land Division)

85.200 APPROVAL CRITERIA

No tentative subdivision or partition plan shall be approved unless adequate public facilities will be available to provide service to the partition or subdivision area prior to final plat approval and the Planning Commission or Planning Director, as applicable, finds that the following standards have been satisfied, or can be satisfied by condition of approval.

A. Streets.

Comment: No new streets are proposed. Parcels 1 and 2 front on 9th Street and Parcel 3 takes access via a private driveway easement from 9th Street. Per the pre-application

conference notes, 9th Street will require half-street local street improvements along the property's frontage. A 6-foot right-of-way dedication is shown on the Tentative Plan. This will bring the half-street right-of-way width to 26 feet, which is consistent with local street standards. The improvements to 4th Avenue will be consistent with a 20' alley width, as required in the pre-app notes. No additional right-of-way is required as the existing 40' width exceeds alley standards.

B. Blocks and lots.

1. <u>General</u>. The length, width, and shape of blocks shall be designed with due regard for the provision of adequate building sites for the use contemplated; consideration of the need for traffic safety, convenience, access, circulation, and control; and recognition of limitations and opportunities of topography and solar access.

Comment: As previously mentioned, the development pattern in this area is already established. No changes to the existing block pattern are proposed.

2. <u>Sizes</u>. The recommended block size is 400 feet in length to encourage greater connectivity within the subdivision. Blocks shall not exceed 800 feet in length between street lines, except for blocks adjacent to arterial streets or unless topographical conditions or the layout of adjacent streets justifies a variation. Designs of proposed intersections shall demonstrate adequate sight distances to the City Engineer's specifications. Block sizes and proposed accesses must be consistent with the adopted TSP.

Comment: Same as for B1, above.

3. <u>Lot size and shape</u>. Lot or parcel size, width, shape, and orientation shall be appropriate for the location of the subdivision or partition, for the type of use contemplated, for potential utilization of solar access, and for the protection of drainageways, trees, and other natural features. No lot or parcel shall be dimensioned to contain part of an existing or proposed street. All lots or parcels shall be buildable. "Buildable" describes lots that are free of constraints such as wetlands, drainageways, etc., that would make home construction impossible. Lot or parcel sizes shall not be less than the size required by the zoning code unless as allowed by planned unit development (PUD).

Depth and width of properties reserved or laid out for commercial and industrial purposes shall be adequate to provide for the off-street parking and service facilities required by the type of use proposed.

Comment: The proposed lots are consistent with the dimensional standards of the R-10 zone, as discussed under the standards for that zone. The parcels provide reasonable building sites for new single-family detached homes. The lots are deep enough on their north-south axes to provide for the opportunity to orient the homes for solar access. The lots do not include portions of existing streets.

4. <u>Access</u>. Access to subdivisions, partitions, and lots shall conform to the provisions of Chapter 48 CDC, Access, Egress and Circulation.

Comment: See discussion of Chapter 48, below.

5. <u>Double frontage lots and parcels</u>. Double frontage lots and parcels have frontage on a street at the front and rear property lines. Double frontage lots and parcels shall be avoided except where they are essential to provide separation of residential development from arterial streets or adjacent non-residential activities, or to overcome specific disadvantages of topography and orientation. A planting screen or impact mitigation easement at least 10 feet wide, and across which there shall be no right of access, may be required along the line of building sites abutting such a traffic artery or other incompatible use.

Comment: No double-frontage parcels are proposed.

6. <u>Lot and parcel side lines</u>. The lines of lots and parcels, as far as is practicable, should run at right angles to the street upon which they face, except that on curved streets they should be radial to the curve.

Comment: The proposed side lot line between the two parcels runs at a 90-degree angle to 9th Street.

7. Flag lots. Flag lots can be created where it can be shown that no other reasonable street access is possible to achieve the requested land division. A single flag lot shall have a minimum street frontage of 15 feet for its accessway. Where two to four flag lots share a common accessway, the minimum street frontage and accessway shall be eight feet in width per lot. Common accessways shall have mutual maintenance agreements and reciprocal access and utility easements. The following dimensional requirements shall apply to flag lots:

Comment: Not applicable. No flag lots are proposed. Setbacks will continue to comply with zoning requirements, as discussed above under R-10 standards.

- 8. <u>Large lots or parcels</u>. In dividing tracts into large lots or parcels which, at some future time, are likely to be redivided, the approval authority may:
 - a. Require that the blocks be of such size and shape, and be so divided into building sites, and contain such easements and site restrictions as will provide for extension and opening of streets at intervals which will permit a subsequent division of any tract into lots or parcels of smaller size; or
 - b. Alternately, in order to prevent further subdivision or partition of oversized and constrained lots or parcels, restrictions may be imposed on the subdivision or partition plat.

Comment: None of the parcels contain enough area to allow for a future lot split. ,

C. Pedestrian and bicycle trails.

Comment: Not applicable. No pedestrian or bicycle trails exist or are planned in this area.

D. Transit facilities.

Comment: There is no Tri-Met bus service in this area so there is no need for transit facilities.

- E. <u>Grading</u>. Grading of building sites shall conform to the following standards unless physical conditions demonstrate the propriety of other standards:
 - 1. All cuts and fills shall comply with the excavation and grading provisions of the Uniform Building Code and the following:
 - a. Cut slopes shall not exceed one and one-half feet horizontally to one foot vertically (i.e., 67 percent grade).
 - b. Fill slopes shall not exceed two feet horizontally to one foot vertically (i.e., 50 percent grade). Please see the following illustration.

Comment: No significant grading activities other than normal excavation for building foundations are proposed on the building sites.

2. The character of soil for fill and the characteristics of lot and parcels made usable by fill shall be suitable for the purpose intended.

Comment: Any fill materials will be appropriate as required by this section.

3. If areas are to be graded (more than any four-foot cut or fill), compliance with CDC 85.170(C) is required.

Comment: All grading will be less than four feet of cut or fill.

4. The proposed grading shall be the minimum grading necessary to meet roadway standards, and to create appropriate building sites, considering maximum allowed driveway grades.

Comment: Only minor grading required for the building foundations is proposed at this time.

5. Type I lands shall require a report submitted by an engineering geologist, and Type I and Type II lands shall require a geologic hazard report.

Comment: Not applicable. Type I land is defined as slopes greater than 35% grade over 50% or more of a site. The subject property does not contain slopes over 35% grade.

6. Per the submittals required by CDC 85.170(C)(3), the applicant must demonstrate that the proposed methods of rendering known or potential hazard sites safe for development, including proposed geotechnical remediation, are feasible and adequate to prevent landslides or other damage to property and safety. The review authority may impose conditions, including limits on type or intensity of land use, which it determines are necessary to mitigate known risks of landslides or property damage.

Comment: There are no known broad general geologic hazards in this area.

- 7. On land with slopes in excess of 12 percent, cuts and fills shall be regulated as follows:
 - a. Toes of cuts and fills shall be set back from the boundaries of separate private ownerships at least three feet, plus one-fifth of the vertical height of the cut or fill. Where an exception is required from that requirement, slope easements shall be provided.
 - b. Cuts shall not remove the toe of any slope where a severe landslide or erosion hazard exists.
 - c. Any structural fill shall be designed by a registered engineer in a manner consistent with the intent of this code and standard engineering practices, and certified by that engineer that the fill was constructed as designed.
 - d. Retaining walls shall be constructed pursuant to Section 2308(b) of the Oregon State Structural Specialty Code.
 - e. Roads shall be the minimum width necessary to provide safe vehicle access, minimize cut and fill, and provide positive drainage control.

Comment: Not applicable. No portion of the property is in excess of 12 percent grade.

- 8. Land over 50 percent slope shall be developed only where density transfer is not feasible. The development will provide that:
 - a. At least 70 percent of the site will remain free of structures or impervious surfaces.
 - b. Emergency access can be provided.
 - c. Design and construction of the project will not cause erosion or land slippage.
 - d. Grading, stripping of vegetation, and changes in terrain are the minimum necessary to construct the development in accordance with subsection J of this section.

Comment: Not applicable. No slopes over 50 percent grade exist on the site.

F. Water.

Comment: Water service to the new parcels will be provided from the existing water line in 9th Street, as shown on the Preliminary Utility Plan.

G. Sewer.

Comment: Sewer service to the new parcels will be provided to from the existing 8" sewer line in 9th Street, as shown on the Preliminary Utility Plan.

H. (Deleted)

I. Utility easements.

Eight-foot-wide public utility easements will be provided along both 9th Street, consistent with City standards, as shown on the Tentative Plan and Preliminary Utility Plan. An access and utility easement is provided along the private driveway serving Parcel 3. No other utility easements are necessary.

J. Supplemental provisions.

1. Wetland and natural drainageways.

Comment: There are wetlands and a drainageway on the north side of the subject property. Please refer to the wetlands report prepared by Schott & Associates for discussion of compliance with applicable portions of CDC Chapter 34.

2. Willamette and Tualatin Greenways.

Comment: The subject property is located within the Willamette or Tualatin Greenway areas. See discussion of applicable portions of CDC Chapter 28 in the Schott & Associates report included with this application.

3. <u>Street trees</u>. Street trees are required as identified in the appropriate section of the municipal code and Chapter 54 CDC.

Comment: Street trees will be provided with the new home construction, per City standards.

4. Lighting.

Comment: There is an existing street light on 9th Street near the north boundary of the property.

5. Dedications and exactions.

Comment: No additional right-of-way dedication is proposed along 9th Street. A public utility easement will be provided along the existing right-of-way per City standards.

6. <u>Underground utilities</u>.

Comment: The existing powerline on 9th Street is overhead, but because the existing neighborhood is substantially built out with overhead lines and there is little opportunity to underground the rest of the existing electrical system. PGE is supportive of keeping the lines above ground because of the wetness of soils in this area. Andrew Rollstin, a Design Project Manager with PGE has stated in an email to Darren Gusdorf or Icon Construction & Development, "PGE agrees with the developer and the City of West Linn, that leaving these lines overhead and in the current state they are in now, is most appropriate. There is no way to completely seal underground facilities in a wetland which means any vaults, conduits, and electrical cable would constantly be submerged in water which is not desired."

7. <u>Density requirement</u>. Density shall occur at 70 percent or more of the maximum density allowed by the underlying zoning. These provisions would not apply when density is transferred from Type I and II lands as defined in CDC 02.030. Development of Type I or II lands are exempt from these provisions. Land divisions of three lots or less would also be exempt.

Comment: The proposed partition contains three lots and, therefore, is exempt from the minimum density standard.

8. <u>Mix requirement</u>. The "mix" rule means that developers shall have no more than 15 percent of the R-2.1 and R-3 development as single-family residential. The intent is that the majority of the site shall be developed as medium high density multi-family housing.

Comment: The subject property is not in the R-2.1 or R-3 zones so this provision does not apply.

9. Heritage trees/significant tree and tree cluster protection.

Comment: There are no heritage trees on the site. There are also no significant clusters of trees on the property.

Chapter 48 - ACCESS, EGRESS AND CIRCULATION

48.025 ACCESS CONTROL

- B. Access control standards.
 - 1. <u>Traffic impact analysis requirements</u>. The City or other agency with access jurisdiction may require a traffic study prepared by a qualified professional to determine access, circulation and other transportation requirements. (See also CDC 55.125, Traffic Impact Analysis.)

Comment: Because of the small size of this project and its location on local streets, the City did not require a traffic impact analysis. The two new dwellings will generate approximately 20 trips per day.

2. The City or other agency with access permit jurisdiction may require the closing or consolidation of existing curb cuts or other vehicle access points, recording of reciprocal access easements (i.e., for shared driveways), development of a frontage street, installation of traffic control devices, and/or other mitigation as a condition of granting an access permit, to ensure the safe and efficient operation of the street and highway system. Access to and from off-street parking areas shall not permit backing onto a public street.

Comment: There are no existing curb cuts that need to be closed.

- 3. <u>Access options</u>. When vehicle access is required for development (i.e., for off-street parking, delivery, service, drive-through facilities, etc.), access shall be provided by one of the following methods (planned access shall be consistent with adopted public works standards and TSP). These methods are "options" to the developer/subdivider.
 - a) Option 1. Access is from an existing or proposed alley or mid-block lane. If a property has access to an alley or lane, direct access to a public street is not permitted.
 - b) Option 2. Access is from a private street or driveway connected to an adjoining property that has direct access to a public street (i.e., "shared driveway"). A public access easement covering the driveway shall be recorded in this case to assure access to the closest public street for all users of the private street/drive.
 - c) Option 3. Access is from a public street adjacent to the development lot or parcel. If practicable, the owner/developer may be required to close or consolidate an existing access point as a condition of approving a new access. Street accesses shall comply with the access spacing standards in subsection (B)(6) of this section.

Comment: All three parcels will have access from a local public street.

4. <u>Subdivisions fronting onto an arterial street</u>. New residential land divisions fronting onto an arterial street shall be required to provide alleys or secondary (local or collector) streets for access to individual lots. When alleys or secondary streets cannot be constructed due to topographic or other physical constraints, access may be provided by consolidating driveways for clusters of two or more lots (e.g., includes flag lots and mid-block lanes).

Comment: Not applicable. The property does not front on an arterial street.

5. <u>Double-frontage lots</u>. When a lot or parcel has frontage onto two or more streets, access shall be provided first from the street with the lowest classification. For example, access shall be provided from a local street before a collector or arterial street. When a lot or parcel has frontage opposite that of the adjacent lots or parcels, access shall be provided from the street with the lowest classification.

Comment: Not applicable. No double-frontage lots are proposed.

6. Access spacing.

- a. The access spacing standards found in Chapter 8 of the adopted Transportation System Plan (TSP) shall be applicable to all newly established public street intersections and non-traversable medians.
- b. Private drives and other access ways are subject to the requirements of CDC.

Comment: No new public street intersections are proposed. Existing driveway curb cuts will be used to access both parcels. No new accesses are proposed.

7. <u>Number of access points</u>. For single-family (detached and attached), two-family, and duplex housing types, one street access point is permitted per lot or parcel, when alley access cannot otherwise be provided; except that two access points may be permitted corner lots (i.e., no more than one access per street), subject to the access spacing standards in subsection (B)(6) of this section. The number of street access points for multiple family, commercial, industrial, and public/institutional developments shall be minimized to protect the function, safety and operation of the street(s) and sidewalk(s) for all users. Shared access may be required, in conformance with subsection (B)(8) of this section, in order to maintain the required access spacing, and minimize the number of access points.

Comment: Only one access point per lot is proposed.

- 8. <u>Shared driveways</u>. The number of driveway and private street intersections with public streets shall be minimized by the use of shared driveways with adjoining lots where feasible. The City shall require shared driveways as a condition of land division or site design review, as applicable, for traffic safety and access management purposes in accordance with the following standards:
 - a. Shared driveways and frontage streets may be required to consolidate access onto a collector or arterial street. When shared driveways or frontage streets are required, they shall be stubbed to adjacent developable parcels to indicate future extension. "Stub" means that a driveway or street temporarily ends at the property line, but may be extended in the future as the adjacent lot or parcel develops. "Developable" means that a lot or parcel is either vacant or it is likely to receive additional development (i.e., due to infill or redevelopment potential).
 - b. Access easements (i.e., for the benefit of affected properties) shall be recorded for all shared driveways, including pathways, at the time of final plat approval or as a condition of site development approval.
 - c. <u>Exception</u>. Shared driveways are not required when existing development patterns or physical constraints (e.g., topography, lot or parcel configuration, and similar conditions) prevent extending the street/driveway in the future.

Comment: The driveway serving Parcel 3 will also provide access to Tract C and to a residence to the south of this site. An access easement will be provided.

- C. <u>Street connectivity and formation of blocks required</u>. In order to promote efficient vehicular and pedestrian circulation throughout the City, land divisions and large site developments shall produce complete blocks bounded by a connecting network of public and/or private streets, in accordance with the following standards:
 - 1. <u>Block length and perimeter</u>. The maximum block length shall not exceed 800 feet or 1,800 feet along an arterial.
 - 2. <u>Street standards</u>. Public and private streets shall also conform to Chapter 92 CDC, Required Improvements, and to any other applicable sections of the West Linn Community Development Code and approved TSP.
 - 3. <u>Exception</u>. Exceptions to the above standards may be granted when blocks are divided by one or more pathway(s), in conformance with the provisions of CDC 85.200(C), Pedestrian and Bicycle Trails, or cases where extreme topographic (e.g., slope, creek, wetlands, etc.) conditions or compelling functional limitations preclude implementation, not just inconveniences or design challenges. (Ord. 1635 § 25, 2014; Ord. 1636 § 33, 2014)

Comment: The street block pattern in this area of the city is already established. No new blocks are proposed. Because of floodplain and wetlands limitations, there is no opportunity to create new streets.

48.030 MINIMUM VEHICULAR REQUIREMENTS FOR RESIDENTIAL USES

A. Direct individual access from single-family dwellings and duplex lots to an arterial street, as designated in the transportation element of the Comprehensive Plan, is prohibited for lots or parcels created after the effective date of this code where an alternate access is either available or is expected to be available by imminent development application. Evidence of alternate or future access may include temporary cul-de-sacs, dedications or stubouts on adjacent lots or parcels, or tentative street layout plans submitted at one time by adjacent property owner/developer or by the owner/developer, or previous owner/developer, of the property in question.

In the event that alternate access is not available as determined by the Planning Director and City Engineer, access may be permitted after review of the following criteria:

- 1. Topography.
- 2. Traffic volume to be generated by development (i.e., trips per day).
- 3. Traffic volume presently carried by the street to be accessed.
- 4. Projected traffic volumes.
- 5. Safety considerations such as line of sight, number of accidents at that location, emergency vehicle access, and ability of vehicles to exit the site without backing into traffic.
- The ability to consolidate access through the use of a joint driveway.

7. Additional review and access permits may be required by State or County agencies.

Comment: No arterial streets are present in this area. Access will be from a local street.

- B. When any portion of any house is less than 150 feet from the adjacent right-of-way, access to the home is as follows:
 - One single-family residence, including residences with an accessory dwelling unit as defined in CDC 02.030, shall provide 10 feet of unobstructed horizontal clearance. Dual-track or other driveway designs that minimize the total area of impervious driveway surface are encouraged.
 - 2. Two to four single-family residential homes equals a 14- to 20-foot-wide paved or all-weather surface. Width shall depend upon adequacy of line of sight and number of homes.
 - 3. Maximum driveway grade shall be 15 percent. The 15 percent shall be measured along the centerline of the driveway only. Variations require approval of a Class II variance by the Planning Commission pursuant to Chapter 75 CDC. Regardless, the last 18 feet in front of the garage shall be under 12 percent grade as measured along the centerline of the driveway only. Grades elsewhere along the driveway shall not apply.
 - 4. The driveway shall include a minimum of 20 feet in length between the garage door and the back of sidewalk, or, if no sidewalk is proposed, to the paved portion of the right-of-way.

Comment: All lots take access from 9th Street, a local street, and will have driveway access complying with these standards.

- C. When any portion of one or more homes is more than 150 feet from the adjacent right-of-way, the provisions of subsection B of this section shall apply in addition to the following provisions.
 - 1. A turnaround may be required as prescribed by the Fire Chief.
 - 2. Minimum vertical clearance for the driveway shall be 13 feet, six inches.
 - 3. A minimum centerline turning radius of 45 feet is required unless waived by the Fire Chief.
 - 4. There shall be sufficient horizontal clearance on either side of the driveway so that the total horizontal clearance is 20 feet.

Comment: Portions of the home to be built on Parcel 3 will be farther than 150 feet from 9th Street. The applicant will comply with requirements of the Fire Chief.

D. Access to five or more single-family homes shall be by a street built to full construction code standards. All streets shall be public. This full street provision may only be waived by variance.

Comment: Not applicable. The shared access driveways will serve a total of 3 lots.

E. Access and/or service drives for multi-family dwellings shall be fully improved with hard surface pavement:

Comment: Not applicable. No multi-family development is proposed.

F. Where on-site maneuvering and/or access drives are necessary to accommodate required parking, in no case shall said maneuvering and/or access drives be less than that required in Chapters 46 and 48 CDC.

Comment: The driveways will not require on-site maneuvering.

G. The number of driveways or curb cuts shall be minimized on arterials or collectors. Consolidation or joint use of existing driveways shall be required when feasible.

Comment: No access to arterials or collectors is proposed.

H. In order to facilitate through traffic and improve neighborhood connections, it may be necessary to construct a public street through a multi-family site.

Comment: Not applicable. The site is not a multi-family site and there is no opportunity for a street connection due to existing development.

 Gated accessways to residential development other than a single-family home are prohibited. (Ord. 1408, 1998; Ord. 1463, 2000; Ord. 1513, 2005; Ord. 1584, 2008; Ord. 1590 § 1, 2009; Ord. 1636 § 34, 2014)

Comment: No gated accessways are proposed.

48.040 MINIMUM VEHICLE REQUIREMENTS FOR NON-RESIDENTIAL USES

Comment: No non-residential uses are proposed so this section does not apply.

48.050 ONE-WAY VEHICULAR ACCESS POINTS

Where a proposed parking facility plan indicates only one-way traffic flow on the site, it shall be accommodated by a specific driveway serving the facility, and the entrance drive shall be situated closest to oncoming traffic, and the exit drive shall be situated farthest from oncoming traffic.

Comment: No one-way traffic flow patterns are proposed.

48.060 WIDTH AND LOCATION OF CURB CUTS AND ACCESS SEPARATION REQUIREMENTS

A. Minimum curb cut width shall be 16 feet.

Comment: Curb cuts will be designed to comply with this minimum.

B. Maximum curb cut width shall be 36 feet, except along Highway 43 in which case the maximum curb cut shall be 40 feet. For emergency service providers, including fire stations, the maximum shall be 50 feet.

Comment: No new curb cuts in excess of 36 feet will be proposed.

- C. No curb cuts shall be allowed any closer to an intersecting street right-of-way line than the following:
 - 1. On an arterial when intersected by another arterial, 150 feet.
 - 2. On an arterial when intersected by a collector, 100 feet.
 - 3. On an arterial when intersected by a local street, 100 feet.
 - 4. On a collector when intersecting an arterial street, 100 feet.
 - On a collector when intersected by another collector or local street, 35 feet.
 - 6. On a local street when intersecting any other street, 35 feet.

Comment: 9th Street is a local street. Driveways will be located so as to conform to these standards.

- D. There shall be a minimum distance between any two adjacent curb cuts on the same side of a public street, except for one-way entrances and exits, as follows:
 - 1. On an arterial street, 150 feet.
 - 2. On a collector street, 75 feet.
 - 3. Between any two curb cuts on the same lot or parcel on a local street, 30 feet.

Comment: The 30-foot minimum curb cut separation onto the local streets serving these lots will be maintained.

E. A rolled curb may be installed in lieu of curb cuts and access separation requirements.

Comment: Not proposed.

F. Curb cuts shall be kept to the minimum, particularly on Highway 43. Consolidation of driveways is preferred. The standard on Highway 43 is one curb cut per business if consolidation of driveways is not possible.

Comment: One curb cut per lot will be provided, consistent with this provision.

G. Adequate line of sight pursuant to engineering standards should be afforded at each driveway or accessway.

Comment: There are no obstructions to sight distance at the driveway location.

CHAPTER 55 DESIGN REVIEW

55.100 APPROVAL STANDARDS – CLASS II DESIGN REVIEW

Design Review is only applicable to significant trees as cross referenced by CDC 85.200(J) (9).

- B. Relationship to the natural and physical environment.
 - 1 The buildings and other site elements shall be designed and located so that all heritage trees, as defined in the municipal code, shall be saved. Diseased heritage trees, as determined by the City Arborist, may be removed at his/her direction.
 - 2. All heritage trees, as defined in the municipal code, all trees and clusters of trees ("cluster" is defined as three or more trees with overlapping driplines; however, native oaks need not have an overlapping dripline) that are considered significant by the City Arborist, either individually or in consultation with certified arborists or similarly qualified professionals, based on accepted arboricultural standards including consideration of their size, type, location, health, long term survivability, and/or numbers, shall be protected pursuant to the criteria of subsections (B)(2)(a) through (f) of this section. (....)

Comment: There are no heritage trees on the property so the provisions of Chapter 55 do not apply.

Chapter 92, required improvements

92.010 PUBLIC IMPROVEMENTS FOR ALL DEVELOPMENT

The following improvements shall be installed at the expense of the developer and meet all City codes and standards:

E. Surface drainage and storm sewer system. A registered civil engineer shall prepare a plan and statement which shall be supported by factual data and comply with the standards for the improvement of public and private drainage systems located in the West Linn Public Works Design Standards. (....)

Comment: The applicant proposes to install storm water detention facility adjacent to the private driveway. Raingardens are anticipated to be used for the homes to be built on the new parcels. Please refer to the Preliminary Utility Plan and Storm Report for more details.

Chapter 27, Flood Management Areas

27.020 Applicability - A flood management area permit is required for all development in the Flood Management Area Overlay Zone. The standards that apply to flood management areas apply in addition to State or federal restrictions governing floodplains or flood hazard areas.

Response: A small portion of the subject property is indicated on FEMA flood hazard maps as being located within the 100-year floodplain of the Willamette River. This area affects the access driveway near 9th Street and a small area in the southerly portion of Parcel 2. The approved plans for the construction of the driveway and the homes on land to the south of the subject property call for the finished grade of the driveway to isolate the floodplain area of the subject property from the balance of the 100-year floodplain. This will effectively remove the subject property from the floodplain as no flood waters will be able to access the lower portion of this site. For this reason, the subject property is no longer subject to the provisions of the Flood Management Area Overlay Zone.



Preliminary Storm Analysis 1220 9th Street West Linn, Oregon

NARRATIVE

Site Conditions:

This is a property on the westerly side to 9th street in West Linn, containing approximately 1.1 acres. There is one residential house on the property which will remain with the proposed redevelopment into a 3-lot partition. The property slopes both north and south from the existing house. The USDA web site finds the soil to be 19 Cloquato silt loam, hydrologic group B and Wapato silty clay loam, hydrologic group D. The majority of the property is in the hydrologic group B area and on site infiltration appears a suitable solution for storm water.

At this time, there are no house plans developed for the two new parcels. It has been assumed that 2000 SF of new impervious area would be created with development.

Regulatory:

2.0013 Minimum Design Criteria

A. Storm Detention Facilities

2. Storms to be evaluated shall include the 2, 5, 10, 25 and 100-year events. Allowable post development discharge rates for the 2, 5, 10, and 25-year events shall be that of the pre-development rate. An outfall structure such as a "V-Notch" weir or single or multiple orifice structure shall be designed to control the release rate for the above events. No flow control orifice smaller than 1 in. shall be allowed. If the maximum release cannot be met with all the site drainage controlled by a single 1 in. orifice, the allowable release rate provided by a 1 in. orifice will be considered adequate as approved by the City Engineer.

Time of Concentration:
A minimum 5-minutes was assumed

CITY OF PORTLAND PRESUMPTIVE APPROACH CALCULATOR

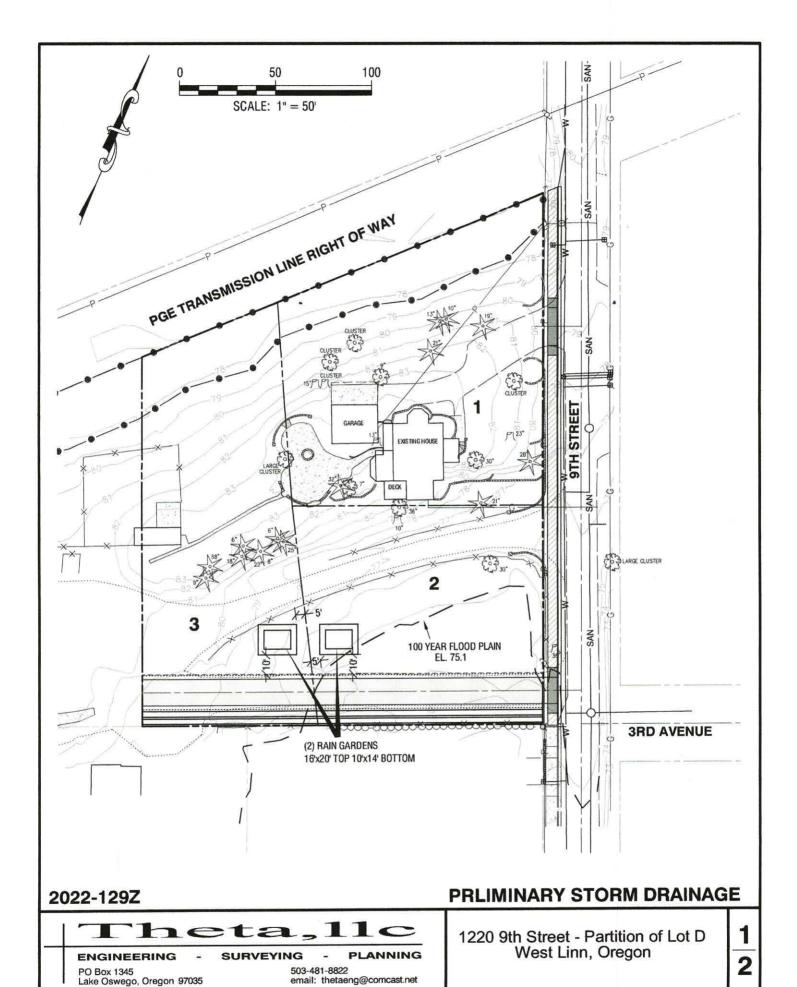
Applying the site information to the City of Portland software a facility was sized with a rain garden having a facility bottom area of 140 SF and meeting the pollution reduction and onsite infiltration. (See Attached). These calculations demonstrate feasibility and will be modified when actual development plans are available.

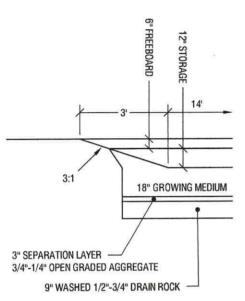
Prepared by: Bruce D. Goldson, PE Theta 2014-129z

March 23, 2022

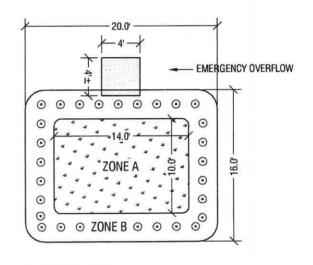
PROFESON
TO DEBON
TO DE D. GOLDS

EXPIRES: 06/30/2023 SIGNATURE DATE: 3/23/27





© POLYPDIUM MUNITUM (SWORD FERN)
@ 24" O.C. - ZONE B
JUNCUS TENUIS (SIENDER SEDGE)
CAREX DENSAI (DENSE SEDGE)
SCRIPTUS AMERICANUS (AMERICAN
BULLRUSH)
1/3 EACH @ 12" O.C.



SECTION

SCALE: NTS

RAIN GARDEN

SCALE: 1" = 10'

2022-129Z

PRLIMINARY STORM DRAINAGE

Theta,llc

ENGINEERING

SURVEYING

PLANNING

PO Box 1345 Lake Oswego, Oregon 97035 503-481-8822 email: thetaeng@comcast.net 1220 9th Street - Partition of Lot D West Linn, Oregon



Presumptive Approach Calculator ver. 1.2

Catchment Data

A

Project Name: Project Address: D partition 1220 9th **West Linn**

Date: 03/22/22 Permit Number: 0

Catchment ID:

Designer:

B. Goldson

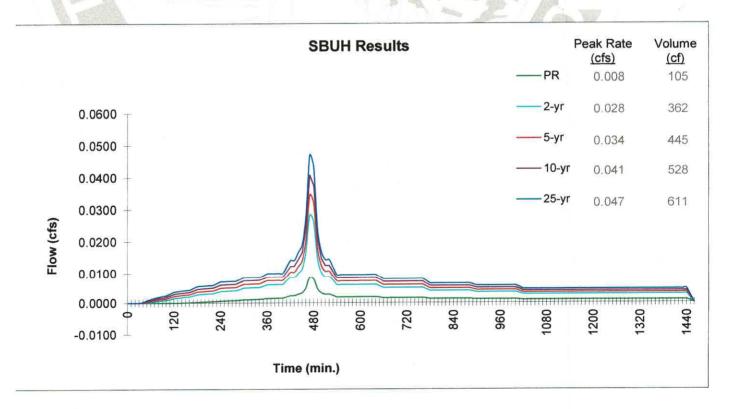
Company:

Theta

3/22/2022 3:28:06 PM Run Time

Catchment ID	Chment Area
Impervious Area	2,000 SF
Impervious Area	0.05 ac
Impervious Area Curve Number, CN _{imp}	98
Time of Concentration, Tc, minutes	5 min.
Site Soils & Infiltration Testing Data	
Infiltration Testing Procedure: Open Pit Fa	alling Head
Native Soil Field Tested Infiltration Rate (I _{test}):	1.27 in/hr
Bottom of Facility Meets Required Separation From High Groundwater Per BES SWMM Section 1.4:	Yes
Correction Factor Component	
CF _{test} (ranges from 1 to 3)	2
Design Infiltration Rates	
l _{dsgn} for Native (I _{test} / CF _{test}): l _{dsgn} for Imported Growing Medium:	0.64 in/hr 2.00 in/hr

Execute SBUH



Printed: 3/22/2022 3:32 PM



Presumptive Approach Calculator ver. 1.2

Catchment ID: A

Run Time

3/22/2022 3:28:06 PM

Project Name: D partition

Catchment ID: A

Date:

3/22/2022

Instructions:

- 1. Identify which Stormwater Hierarchy Category the facility.
- 2. Select Facility Type.
- Identify facility shape of surface facility to more accurately estimate surface volume, except for Swales and sloped planters that use the PAC Sloped Facility Worksheet to enter data.
- 4. Select type of facility configuration.
- 5. Complete data entry for all highlighted cells.

Catchment facility will meet Hierarchy Category:

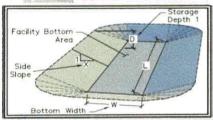
1

Goal Summary:

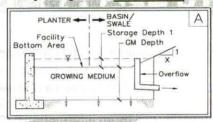
Hierarchy	SWMM Requirement	RESULTS box below needs to display		
Category	SWMM Requirement	Pollution Reduction as a	10-yr (aka disposal) as a	
1	On-site infiltration with a surface infiltration facility.	PASS	PASS	



Facility Shape: Rectangle/Square







DATA FOR ABOVE GRADE STORAGE COMPONENT

Facility Bottom Area =	140	st
Bottom Width =	10.0	ft
Facility Side Slope =	3	to 1
Storage Depth 1 =	12	in
Growing Medium Depth =	18	in
Freeboard Depth =	N/A	in
Surface Capacity at Depth 1 =	224	cf
Infiltration Area at 75% Depth1 =	266	SF
GM Design Infiltration Rate =	2.00	in/hr
Infiltration Capacity =	0.012	cfs

BELOW GRADE STORAGE

266	sf
0	in
	266 0

Rock Storage Capacity = ____ cf

Native Design Infiltration Rate = 0.64 in/hr
Infiltration Capacity = 0.004 cfs

Native Infiltration Rate Used in PA

Max. Rock Stor. Bottom Area

308 SF

RESULTS		Overflow Volume			
Pollution Reduction	PASS	0 CF	3%	Surf. Cap. Used	Run PAC
10-yr	PASS	0 CF	96%	_Surf. Cap. Used	

FACILITY FACTS

Total Facility Area Including Freeboard = #VALUE!
Sizing Ratio (Total Facility Area / Catchment Area) = #VALUE!

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Clacka	mas County Area	, Oregon	
Clackama (OR610)	s County Area,	Oregon	③
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
19	Cloquato silt loam	1.1	70.8%
84	Wapato silty clay loam	0.4	29.2%
Totals fo Interest	r Area of	1.5	100.0%



SCHOTT & ASSOCIATES



Ecologists & Wetlands Specialists

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NATURAL RESOURCE ASSESSMENT Within Water Resource Area (WRA) and Habitat Conservation Area (HCA)

1220 9th St West Linn, OR

T13S, R1E, Section 2AC TL# 300 Clackamas County

Prepared for

Darren Gusdorf Icon Construction and Development 1969 Willamette Falls Drive, Suite 160 West Linn, Oregon 97068

Prepared by

Juniper Tagliabue of Schott & Associates, Inc.

Date:

March 2022

Project #: 2942

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- Figure 5. 2002 Aerial Photograph
- Figure 6. Delineation and WRA Existing Conditions and Proposed Restoration Planting Area
- Figure 7. Existing Conditions March 10, 2022

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Appendix A. Wetland Delineation

Introduction

Schott & Associates (S&A) was contracted to conduct a wetland delineation and natural resource assessment report for the project site at 1220 9th Street, West Linn, Clackamas County, Oregon (T3S, R1E, Section 02AC, tax lot 300); Figure 1). Wetland delineation has been completed and submitted to DSL for review (WD#2022-0084; Appendix A). This subject property contains zoning overlays including Water Resource Area (WRA) and Habitat Conservation Area (HCA) (Figure 3 & 4) and is subject to the regulations of West Linn Community Development Code (CDC) Chapter 32 and Chapter 28 respectively. The purpose of this report is to document existing and proposed conditions with regards to the WRA setback and moderate HCA boundary to gain approvals for WRA permit and WRG permit as applicable.

All work on this project has been completed by qualified natural resource specialists. Onsite assessment was conducted by Jodi Forgione, principal of S&A, a wetland and wildlife ecologist with over 10 years' experience in conducting natural resource assessments. The project management and reporting were completed by Juniper Tagliabue, a senior wetland ecologist with over 15 years' experience conducting natural resource assessments and permitting.

Site Description and Land Use

The study site encompassed the entirety of tax lot 300. The somewhat irregular triangular shaped property was defined by 9th Street to the east and a power line utility easement to the north. To the south was predominantly open space, with a new residential home adjacent to the southeast corner of the study site. At the time of the site visit a large residential home was present in the northeastern portion of the site with access via driveway from 9th Street to the east. A large barn was located at the western end of the property with a separate driveway access via 9th street and a large gravel parking area. To the south was grasses.

Site topography was characterized by a small knoll in the eastern portion of the site with all the buildings and barn located on higher ground, sloping down and offsite along the margins to the north, west and south. Vegetation was generally composed of mowed lawns with a forested area around the house in the eastern portion of the site. North of the barn was a bare paddock. West of the barn was flat and appeared to have been a historically graded paddock. In the earliest available aerial photograph (Google Earth 1994), the residential home is not clearly visible but believed to be present under tree canopy in the northeast portion of the site. A smaller building is present in the location of the existing barn and clearing for future development or paddock use for livestock may already be underway. From 2000, additional site clearing has been conducted and the barn and parking area are clearly visible, the site is in much the same condition as it was during the time of fieldwork. In 2021 construction of a new residence on the property to the south is evident.

Surrounding land use was residential with Willamette Park, located at the confluence of the Tualatin River and the Willamette River, located just to the south and west.

Project Objectives

The applicant proposes a 3-lot minor partition on the property located at 1220 9th St. There is currently an historic lot line that divides the property into two. WRA application is for the entire existing property. The property is located within the R-10 zone. Wetland delineation conducted onsite by S&A documented preliminary jurisdictional boundaries of onsite water resources. WRA setback extends 65 feet south of the wetland boundary as per CDC Chapter 32. Four homes, including one existing, are proposed outside the delineated wetland within the mapped WRA. A WRA permit is required.

The applicant requests approval under the Alternative Review Process per Section 32.080. In order to complete the construction of the development the applicant proposes a reduced WRA to 25' wide in an

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otherwise degraded portion of the 65' wide WRA. This will maximize development potential of the property while maintaining the highest quality onsite resources.

Per the Metro Habitat Conservation Area (HCA) Map, the southeast portion of the site is in "moderate" HCA. HCAs are regulated by Chapter 28: Willamette and Tualatin River Protection (WRG). A WRG permit is required. As per 28.070 verification of the HCA boundary by the planning director is allowed. As described in this report the HCA map is inaccurate; no HCA should be mapped onsite and no WRG permit should be required.

Methods

While preparing this application site visit was conducted and the following existing data and information was reviewed:

- Clackamas County tax map
- U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI) and West Linn Local Wetland Inventory (LWI)
- West Linn Water Resource Area (WRA) Map (Figure 3)
- West Linn HCA Map (Figure 4)
- Oregon Department of Forestry (ODF) and Metro stream mapping
- U.S. Department of Agriculture (USDA) NRCS gridded Soil Survey Geographic (gSSURGO) database for Clackamas County
- Aerial photographs from the time period between 1994 and 2021, obtained from Google Earth
- Contours derived from the Oregon Department of Geology and Mineral Industries (DOGAMI, 2009)
- Previous DSL files for subject property (TL300; WD2001-0340) and property to south (TL800; 2020-0824 NSP, WD2019-0614).
- Permit# 935-21-000993-SD-1 Conditions of Approval
- Pre-application meeting conducted with City of West Linn; January 6, 2022 & February 17, 2022

Schott & Associates visited the site on January 3, 2022. Delineation data were collected according to methods described in the 1987 Manual and the Regional Supplement to the Corps of Engineers Delineation Manual: Western Mountains, Valleys, and Coast (Version 2.0). Seven sample plots were established throughout the site to locate the boundaries of wetlands. For each sample plot, data on vegetation, hydrology, and soils was collected, recorded in the field and later transferred to data forms. Plant indicator status was determined using the 2020 National Wetland Plant List (Corps 2020).

All identified wetlands and waters are classified according to the USFWS Classification of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979) and the Guidebook for Hydrogeomorphic (HGM)-based Assessment of Oregon Wetland and Riparian Sites (DSL 2001). Delineation report was submitted to DSL and is currently under review (WD#2022-0084).

Vegetation communities for mapped WRA and HCA were assessed in the field and documented by upland sample plots 1,2,3,4,6 located within the delineation report. Data forms are located in Appendix B of the delineation report (Appendix A). Results are described below.

Ground level photographs were taken to document site conditions (See Appendix C of Delineation Report).

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Results

Two soil series were mapped within the study site boundary according to the USDA NRCS soil survey for Clackamas County. Cloquato silt loam was mapped over most of the site. This is a well-drained series found predominantly in flood plains with 3% hydric inclusions. Wapato silty clay loam mapped was at the northern margin of the site. This poorly drained soil is listed as a hydric soil series as well as containing inclusions of other hydric soils.

No NWI wetlands or aquatic habitats are mapped on the site. The LWI shows a wetland closely corresponding to the delineated wetland as mapped in the field. A degraded WRA area associated with the onsite wetland was mapped onsite. No WRA was found to extend onsite from the offsite wetland to the south due to existing development truncating the WRA at the property boundary.

One Moderate HCA was found not to be present. Verification by the planner is requested as part of this application.

Chapter 32 Water Resource Area

Protected Water Features

Based on soils, vegetation and hydrology data gathered in the field, S&A identified one wetland along the northern and western margins of the study site. The wetland occupied the bottom of a broad swale and extended offsite to the north and west. The wetland was bounded by gentle to moderate sloped topography. Wetland, drainage channel, sample plots, and photo point locations are shown in the delineation report (Appendix A; Figure 6).

Wetland 1 (0.3-ac) was vegetated predominantly by facultative pasture grasses including meadow foxtail (Alopecurus pratensis; FAC), colonial bentgrass (Agrostis capillaris; FAC), and tall fescue (Schedonorus arundinaceus; FAC) along with creeping buttercup (Ranunculus repens; FAC). The western edge of the site was terraced and sloped offsite with a distinct elevation change. The area was overgrown with Himalayan blackberry (Rubus armeniacus; FAC) and could not be accessed. This boundary was estimated based on the blackberry line and topographic interpretation. The wetland was assessed as a slope HGM class with a Cowardin class of seasonally flooded, palustrine emergent (PEMC).

Soils samples met the Corps hydric soil indicator for redox dark surface (F6). Soils were dark brown (10YR 3/2) in matrix color with common yellow-red redoximorphic concentrations occurring as soft masses. The soil texture was silt loam. Wetland hydrological indicators observed included high water table (A2) and soil saturation (A3).

The wetland was bounded by topographic changes extending upslope to the residential home and barn. Soils in the uplands did not meet hydric soil criteria. Hydrological indicators were present in uplands, however this was assumed in part due to the recent heavy rains.

One drainage channel was identified within the wetland at the western extent of the property flowing from the west, to the east and then north. The channel extended offsite to both the north and west. The channel ranged from 2-4 feet wide and 1-3 feet deep with a silty substrate. The channel was well defined to slightly entrenched. Several inches of surface water were flowing during fieldwork. No vegetation was present within the channel. Himalayan blackberry was rooted outside the channel and growing over the channel, making access difficult. It is estimated that the channel is seasonal in flow period. The channel is not identified on the LWI, NWI or any local resources. The feature was assessed as a riverine flow through HGM class with an intermittent riverine streambed (R4SB) aquatic habitat.

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One additional protected water feature was identified offsite to the south. This wetland was delineated by others (WD#2019-0614).

Water Resource Areas (WRA)

As required by Table 32-2 the required width of the Water Resource Area extends 65 feet from the wetland boundary. A 65-foot buffer was assessed extending south from the onsite wetland (Figure 6). As per CDC Section 32.050(F)(8) plant communities within the undisturbed WRA were identified and characterized. This area was characterized by maintained landscape dominated by tall fescue and common bentgrass. The eastern portion was mowed and maintained with a cluster of large Douglas fir (*Pseudotsuga menziesii*) trees planted around the house in the north portion of the property. The 65-foot WRA boundary encompassed the house and driveway in this area. To the west the grass community was poorly established due to historical disturbance and grading for livestock pasture/paddock and parking. The westernmost portion of the buffer was entirely composed of Himalayan blackberry. A compacted parking area, chicken coops, and portion of the barn are included within the 65' boundary in this area. The entire WRA was found to be in degraded condition.

Any WRA previously extending north from the adjacent property to the south (TL800) was entirely truncated by permitted development for offsite residential development (File No: WAP-20-01/WRG-20-01/MIS-20-01/LLA-20-01) and construction of a 14-foot driveway for 1088 9th St (935-21-000993-SD-01) within the onsite ingress/egress & utility easement (Existing Conditions Map; March 10, 2022; Figure 7). At the time of the site visit the driveway was staked but had not been constructed. Vegetation was composed entirely of non-native invasive grasses as described above and was in degraded condition. No WRA was found to be onsite for this wetland.

Chapter 32 Approval Criteria

32.070 ALTERNATE REVIEW PROCESS

This section establishes a review and approval process that applicants can use when there is reason to believe that the width of the WRA prescribed under the standard process (CDC 32.060(D)) is larger than necessary to protect the functions of the water resource at a particular site. It allows a qualified professional to determine what water resources and associated functions (see Table 32-4 below) exist at a site and the WRA width that is needed to maintain those functions. (Ord. 1623 § 1, 2014)

32.080 APPROVAL CRITERIA (ALTERNATE REVIEW PROCESS)

Applications reviewed under the alternate review process shall meet the following approval criteria:

A. The proposed WRA shall be, at minimum, qualitatively equal, in terms of maintaining the level of functions allowed by the WRA standards of CDC 32.060(D).

Response: As described in this report, the existing WRA is low functioning and includes existing developed area as well as low functioning vegetation dominated by a single stratum of non-native invasive vegetation. The alternate WRA will extend 25' feet from the wetland boundary and be enhanced to good condition with a diverse mix of native trees, shrubs and groundcover species (Figure 6 and Table 2). The proposed WRA shall be, at minimum, qualitatively equal in terms of maintaining the level of functions allowed by the WRA standards of CDC 32.060(D).

B. If a WRA is already significantly degraded (e.g., native forest and ground cover have been removed or the site dominated by invasive plants, debris, or development), the approval authority may allow a reduced WRA in exchange for mitigation, if:

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1. The proposed reduction in WRA width, coupled with the proposed mitigation, would result in better performance of functions than the standard WRA without such mitigation. The approval authority shall make this determination based on the applicant's proposed mitigation plan and a comparative analysis of ecological functions under existing and enhanced conditions (see Table 32-4).

Response: As described in this report, the existing WRA is significantly degraded. Native forest has been removed and the site was dominated by non-native invasive species including pasture grass species and Himalayan blackberry as well as existing development including a home, driveway, and barn. The western portion of the site was historically used for livestock and the site has been heavily grazed and compacted from this use. The applicant proposes to reduce the existing WRA. The proposed WRA will extend 25 feet from the wetland boundary to the north. Mitigation will consist of removal of invasive species and replacement of native trees, shrubs and groundcover. The proposed reduced WRA, along with mitigation, will result in significantly higher functions than the existing (standard) WRA without mitigation.

Table 1. Ecological Functions Comparison per Table 32-4					
Ecological Functions	WRA existing conditions	WRA enhanced conditions			
Stream flow moderation and/or water storage	Wetland Storage functions moderate, surface water flows into wetland as well across portions of the WRA. Much of the WRA is developed. Small well defined intermittent stream within wetland. Does not overflow bank.	Storage functions will be higher with vegetation density increase in WRA to further slow flow for better storage capacity.			
Sediment or pollution control	Vegetation is present but highly disturbed within 100' of wetland /waterways. Development also present. The majority of vegetation is non-native grasses and Himalayan blackberry with few trees.	Increased vegetation and tree canopy within the entire remaining onsite WRA will increase functions by slowing water flow, creating more tree canopy and increasing the capacity to filter nutrients and retain sediments.			
Bank stabilization	Well defined bank for small intermittent stream within wetland boundary.	Increased native vegetation may help bank stabilization although bank is located within wetland boundary.			
Large wood recruitment for a fish bearing section of stream	Not a fish bearing stream. Few trees for LWD recruitment.	Additional trees will eventually increase tree canopy and increase functions. No fish bearing stream present.			
Organic material sources	Few scattered trees within the western portion with a dominance of blackberry shrub. Forest habitat not present with the exception of planted trees around home.	Additional trees/shrubs will increase organic material sources throughout the WRA.			

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Shade (water	No fish bearing stream.	Additional tree planting will
temperature	Currently minimal shade, with a	significantly increase this function,
moderation) and	few trees around the home on the	improving downstream
microclimate	northeastern side of the site and	temperatures as well.
	along the western margin of the	
	site.	
Stream flow that	Minor channel extending through	Intermittent flow will be
sustains in-stream and	wetland. Intermittent flow.	maintained. No hydrologic
adjacent habitats		impacts anticipated.
Other terrestrial	Habitat within 100 feet of the	Removal of invasives and planting
habitat	resource is partially developed	of diverse native species shall
	with predominantly non-native	increase type and diversity of
	and invasive vegetation with few	cover and food sources,
	scattered native trees planted	significantly improving terrestrial
	around the home.	habitat.

- 2. The mitigation project shall include all of the following components as applicable. It may also include other forms of enhancement (mitigation) deemed appropriate by the approval authority.
 - a. Removal of invasive vegetation.
 - b. Planting native, non-invasive plants (at minimum, consistent with CDC 32.100) that provide improved filtration of sediment, excess nutrients, and pollutants. The amount of enhancement (mitigation) shall meet or exceed the standards of CDC 32.090(C).
 - c. Providing permanent improvements to the site hydrology that would improve water resource functions.
 - d. Substantial improvements to the aquatic and/or terrestrial habitat of the WRA.

Response: The mitigation plan shall consist of removal of invasive species and planting a diverse assemblage of native trees, shrubs, and groundcover species to improve water quality functions including filtration of sediment, excess nutrients, and pollutants. Proposed enhancement will substantially improve aquatic and adjacent terrestrial habitat of the WRA onsite as well as providing additional functions within the wetland offsite to the north by increasing cover, nesting or burrowing sites and food availability and type. Proposed enhancement area is 13,196sf which exceeds the standards of CDC 32.090(C).

C. Identify and discuss site design and methods of development as they relate to WRA functions.

Response: Site design was based on siting proposed homes as far from the proposed WRA boundary as possible, minimizing potential impacts to the wetland and WRA. A shared driveway for 1088 9th Street will provide access to the three lots at the south end of the property and has already been constructed along the southern property line. This area is in degraded condition and directly adjacent to recent development to the south. The WRA to the south is primary located offsite and has been mitigated by others. This higher functioning WRA boundary will provide adequate protection to the offsite wetland.

D. Address the approval criteria of CDC 32.060, with the exception of CDC 32.060(D).

Response: Applicable approval criteria addressed below.

Page 7 S&A# 2942 No application for development on property containing a WRA shall be approved unless the approval authority finds that the proposed development is consistent with the following approval criteria, or can satisfy the criteria by conditions of approval:

- A. WRA protection/minimizing impacts.
 - 1. Development shall be conducted in a manner that will avoid or, if avoidance is not possible, minimize adverse impact on WRAs.
 - 2. Mitigation and re-vegetation of disturbed WRAs shall be completed per CDC 32.090 and 32.100 respectively.

Response: Proposed development shall minimize adverse impact on the WRA to the extent possible given the limitations of this site. Existing development and degraded WRA conditions are present, and a reduced buffer is proposed. To this end, the applicant requests approval pursuant to the Alternative Review Process provisions of Section 32.080 rather than this Section. Mitigation is provided per the standards of CDC 32.090.

B. Storm water and storm water facilities.

Page 8

- 1. Proposed developments shall be designed to maintain the existing WRAs and utilize them as the primary method of storm water conveyance through the project site unless:
 - a. The surface water management plan calls for alternate configurations (culverts, piping, etc.); or
 - b. Under CDC 32.070, the applicant demonstrates that the relocation of the water resource will not adversely impact the function of the WRA including, but not limited to, circumstances where the WRA is poorly defined or not clearly channelized. Re-vegetation, enhancement and/or mitigation of the realigned water resource shall be required as applicable.
- 2. Public and private storm water detention, storm water treatment facilities and storm water outfall or energy dissipaters (e.g., rip rap) may encroach into the WRA if:
 - a. Accepted engineering practice requires it;
 - b. Encroachment on significant trees shall be avoided when possible, and any tree loss shall be consistent with the City's Tree Technical Manual and mitigated per CDC 32.090;
 - c. There shall be no direct outfall into the water resource, and any resulting outfall shall not have an erosive effect on the WRA or diminish the stability of slopes; and
 - d. There are no reasonable alternatives available.
 - A geotechnical report may be required to make the determination regarding slope stability.
- 3. Roadside storm water conveyance swales and ditches may be extended within rights-of-way located in a WRA. When possible, they shall be located along the side of the road furthest from the water resource. If the conveyance facility must be located along the side of the road closest to the water resource, it shall be located as close to the road/sidewalk as possible and include habitat friendly design features (treatment train, rain gardens, etc.).
- 4. Storm water detention and/or treatment facilities in the WRA shall be designed without permanent perimeter fencing and shall be landscaped with native vegetation.
- 5. Access to public storm water detention and/or treatment facilities shall be provided for maintenance purposes. Maintenance driveways shall be constructed to minimum width and use water permeable paving materials. Significant trees, including roots,

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shall not be disturbed to the degree possible. The encroachment and any tree loss shall be mitigated per CDC <u>32.090</u>. There shall also be no adverse impacts upon the hydrologic conditions of the site.

Response: The project has been designed to maintain the existing WRA. Stormwater is anticipated to be treated and detained using rain gardens adjacent to the new homes. No outfall shall be located directly into the water resource No public stormwater facilities are proposed on-site. No significant trees will be affected by the development.

D. WRA width. Except for the exemptions in CDC <u>32.040</u>, applications that are using the alternate review process of CDC <u>32.070</u>, or as authorized by the approval authority consistent with the provisions of this chapter, all development is prohibited in the WRA as established in Table 32-2 below:

Response: Project proposes to use alternative review process per CDC 32.070 to reduce required WRA width.

- F. Roads, driveways and utilities.
 - 1. New roads, driveways, or utilities shall avoid WRAs unless the applicant demonstrates that no other practical alternative exists. In that case, road design and construction techniques shall minimize impacts and disturbance to the WRA by the following methods:
 - a. New roads and utilities crossing riparian habitat areas or streams shall be aligned as close to perpendicular to the channel as possible.
 - b. Roads and driveways traversing WRAs shall be of the minimum width possible to comply with applicable road standards and protect public safety. The footprint of grading and site clearing to accommodate the road shall be minimized.
 - c. Road and utility crossings shall avoid, where possible:
 - 1) Salmonid spawning or rearing areas;
 - 2) Stands of mature conifer trees in riparian areas;
 - *3) Highly erodible soils;*
 - 4) Landslide prone areas;
 - 5) Damage to, and fragmentation of, habitat; and
 - 6) Wetlands identified on the WRA Map.

Response: No roads, driveways or utilities are proposed within the WRA. Driveway access for the three southern lots will be via shared access from the existing driveway constructed at the southern property boundary and approved under a different application. As described above no WRA is present in this location. No roadway will extend through the proposed WRA and no crossing of fish bearing stream or riparian corridors is proposed.

2. Crossing of fish bearing streams and riparian corridors shall use bridges or archbottomless culverts or the equivalent that provides comparable fish protection, to allow passage of wildlife and fish and to retain the natural stream bed.

Response: No fish bearing streams are present onsite and no crossings are proposed. This criterion is not applicable.

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3. New utilities spanning fish bearing stream sections, riparian corridors, and wetlands shall be located on existing roads/bridges, elevated walkways, conduit, or other existing structures or installed underground via tunneling or boring at a depth that avoids tree roots and does not alter the hydrology sustaining the water resource, unless the applicant demonstrates that it is not physically possible or it is cost prohibitive. Bore pits associated with the crossings shall be restored upon project completion. Dry, intermittent streams may be crossed with open cuts during a time period approved by the City and any agency with jurisdiction.

Response: No new utilities shall span the WRA. As discussed with PGE and the City it was determined that undergrounding the utility lines would not be a requirement for this project.

4. No fill or excavation is allowed within the ordinary high water mark of a water resource, unless all necessary permits are obtained from the City, U.S. Army Corps of Engineers and Oregon Department of State Lands (DSL).

Response: No fill or excavation is proposed within the OHW or wetland.

5. Crossings of fish bearing streams shall be aligned, whenever possible, to serve multiple properties and be designed to accommodate conduit for utility lines. The applicant shall, to the extent legally permissible, work with the City to provide for a street layout and crossing location that will minimize the need for additional stream crossings in the future to serve surrounding properties.

Response: No fish bearing streams are present onsite and no crossings are proposed.

32.090 MITIGATION PLAN

A. A mitigation plan shall only be required if development is proposed within a WRA (including development of a PDA). (Exempted activities of CDC 32.040 do not require mitigation unless specifically stated. Temporarily disturbed areas, including TDAs associated with exempted activities, do not require mitigation, just grade and soil restoration and re-vegetation.) The mitigation plan shall satisfy all applicable provisions of CDC 32.100, Re-Vegetation Plan Requirements.

Response: Development is proposed under the Alternative Review Process per CDC Chapter 32.080 resulting a reduced WRA boundary. Reduced WRA area is defined as Previously Disturbed Area (PDA) and mitigation is required at 1:1/2. No impacts are proposed within the proposed 25' WRA which will be enhanced as described below.

- B. Mitigation shall take place in the following locations, according to the following priorities (subsections (B)(1) through (4) of this section):
 - 1. On-site mitigation by restoring, creating, or enhancing WRAs.

Response: Mitigation is proposed onsite.

- C. Amount of mitigation.
 - 1. The amount of mitigation shall be based on the square footage of the permanent disturbance area by the application. For every one square foot of non-PDA disturbed area, on-site mitigation shall require one square foot of WRA to be created, enhanced, or restored.

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2. For every one square foot of PDA that is disturbed, on-site mitigation shall require one half a square foot of WRA vegetation to be created, enhanced, or restored.

Response: Proposed impact area within existing 65' WRA setback (PDA) is 18,870sf. Proposed mitigation/enhancement area within the 25' reduced buffer is 13,196sf and exceeds the 1:1/2 ratio requirement.

- E. A mitigation plan shall contain the following information:
- 1. A list of all responsible parties including, but not limited to, the owner, applicant, contractor, or other persons responsible for work on the development site.

Response: The applicant, owner and contractor are a single entity listed below.

Icon Construction and Development 1969 Willamette Falls Drive, Suite 260 West Linn, Oregon 97068 503.657.4606 darren@iconconstruction.net

2. A map showing where the specific adverse impacts will occur and where the mitigation activities will occur.

Response: See Figure 2 and Figure 6.

3. A re-vegetation plan for the area(s) to be mitigated that meets the standards of CDC 32.100.

Response: See the response to CDC 32.100 below.

4. An implementation schedule, including timeline for construction, mitigation, mitigation maintenance, monitoring, and reporting. All in-stream work in fish bearing streams shall be done in accordance with the Oregon Department of Fish and Wildlife.

Response: Mitigation shall occur concurrently with construction after all approvals are met and in accordance with planting requirements outlined in 32.100. As per City of West Linn WRA protection requirements, 80% success is required for replanted areas. The mitigation site will be monitored and maintained for three years. If, after each year monitoring period, 80% survival has not been met, dead plants will be replaced up to the 80% success required. Mitigation monitoring reports shall be provided to document these activities. No work will be conducted in fish bearing streams and the in-stream work window is not applicable.

5. Assurances shall be established to rectify any mitigation actions that are not successful within the first three years. This may include bonding or other surety.(Ord. 1623 § 1, 2014)

Response: The applicant can provide any necessary assurance as necessary based on coordination with City staff. We would propose that any bonding or surety be deferred based on the results of the ongoing monitoring, maintenance, and reporting requirements.

32.100 RE-VEGETATION PLAN REQUIREMENTS

A. In order to achieve the goal of re-establishing forested canopy, native shrub and ground cover and to meet the mitigation requirements of CDC 32.090 and vegetative

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enhancement of CDC 32.080, tree and vegetation plantings are required according to the following standards:

- 1. All trees, shrubs and ground cover to be planted must be native plants selected from the Portland Plant List.
- 2. Plant size. Replacement trees must be at least one-half inch in caliper, measured at six inches above the ground level for field grown trees or above the soil line for container grown trees ... Shrubs must be in at least a one-gallon container or the equivalent in ball and burlap and must be at least 12 inches in height.
- 3. Plant coverage.
 - a. Native trees and shrubs are required to be planted at a rate of five trees and 25 shrubs per every 500 square feet of disturbance area ...Non-native sterile wheat grass may also be planted or seeded, in equal or lesser proportion to the native grasses or herbs.
 - b. Trees shall be planted between eight and 12 feet on center and shrubs shall be planted between four and five feet on center, or clustered in single species groups of no more than four plants, with each cluster planted between eight and 10 feet on center. When planting near existing trees, the dripline of the existing tree shall be the starting point for plant spacing measurements.
- 4. Plant diversity. Shrubs must consist of at least two different species. If 10 trees or more are planted, then no more than 50 percent of the trees may be of the same genus
- 5. Invasive vegetation. Invasive non-native or noxious vegetation must be removed within the mitigation area prior to planting.
- 6. Tree and shrub survival. A minimum survival rate of 80 percent of the trees and shrubs planted is expected by the third anniversary of the date that the mitigation planting is completed.
- 7. Monitoring and reporting. Monitoring of the mitigation site is the ongoing responsibility of the property owner. Plants that die must be replaced in kind.
- 8. To enhance survival of tree replacement and plantings, the following practices are required:
 - a. Mulching. Mulch new plantings a minimum of three inches in depth and 18 inches in diameter to retain moisture and discourage weed growth.
 - b. Irrigation. Water new plantings one inch per week between June 15th to October 15th, for the three years following planting.
 - c. Weed control. Remove, or control, non-native or noxious vegetation throughout maintenance period.
 - d. Planting season. Plant bare root trees between December 1st and February 28th, and potted plants between October 15th and April 30th.
 - e. Wildlife protection. Use plant sleeves or fencing to protect trees and shrubs against wildlife browsing and resulting damage to plants.

WRA Enhancement Plan

This WRA Enhancement plan has been designed to meet the requirements of 32.100(A)1-8 as outlined above and described below. The applicant proposes enhancement of a 25' buffer consisting of a total of 0.3-ac (13,196sf) onsite. The plan is expected to improve functions of the WRA by removing invasive species and impervious surfaces and replacing it with a diverse assemblage of native trees and shrubs along the entire length of the wetland. The functions expected to be enhanced include water quality functions (water storage), organic material recruitment, and upland wildlife habitat quality.

Planting Plan

The planting plan was developed according to 32.100 Revegetation requirements (Table 2). All plants were selected from the Portland Plant List and are adapted to upland/riparian conditions and quantities and sizing according to the requirements. All bare ground within the restoration area will be seeded with a native grass mix as shown below. Planting plan is subject to approval by the City.

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Table 2. Planting Palette for WRA Enhancement Area (13,196sf.)

Species	Туре	Minimum Size	Spacing	Quantity
Black cottonwood	Tree	0.5" diam or 1 gal.	12'OC	30
Populus balsamifera				
Red alder	Tree	0.5" diam or 1 gal.	12'OC	32
Alnus rubra				
Sitka willow	Tree	0.5" diam or 1 gal.	12'OC	32
Salix scouleriana				
Swamp rose	Shrub	1 gal.	Clusters	142
Rosa pisocarpa			10' OC	
Red elderberry	Shrub	1 gal.	4-5'OC	100
Sambucus racemosa				
Red flowering currant	Shrub	1 gal.	Clusters	130
Ribes sanguineum			10' OC	
Pacific ninebark	Shrub	1 gal.	4-5'OC	100
Physocarpus capitatus				
*California brome (<i>Bromus</i>	Grass	50/50%		As
carinatus)/Blue wildrye		1 lb/ac pls		needed
(Elymus glaucus)				

Schedule and Maintenance Requirements

Bare root trees shall be planted between December 1st and February 28th, and potted plants shall be planted between October 15th and April 30th.

Monitoring of the mitigation site is the ongoing responsibility of the property owner. Plants that die must be replaced in kind. In accordance with City requirements a minimum survival rate of 80 percent of the trees and shrubs planted is expected by the third anniversary of the date that the mitigation planting is completed.

To enhance survival of tree replacement and plantings, in accordance with Section 32.100 the following practices are required:

- Mulch new plantings a minimum of three inches in depth and 18 inches in diameter to retain moisture and discourage weed growth.
- Irrigation for new plantings shall be provided in the amount of one inch per week between June 15th to October 15th, for the three years following planting.
- Non-native or noxious vegetation shall be removed or controlled throughout maintenance period.
- Use plant sleeves or fencing to protect trees and shrubs against wildlife browsing and resulting damage to plants.

Chapter 28 Willamette and Tualatin River Protection

HCA Assessment and Verification

The site was visited on January 3, 2022 for the purposes of completing a natural resource assessment to determine the actual extent of the HCA overlay. S& A walked the subject property to assess the habitat conditions. Onsite conditions were not found to be consistent with HCA designation and as per CDC 28.070 Planning Director verification is requested for removal of onsite HCA boundaries.

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28.070 PLANNING DIRECTOR VERIFICATION OF METRO HABITAT PROTECTION MAP BOUNDARIES

A. The HCA Map is the basis for identifying and designating the habitat conservation areas in the City. A copy of the latest, updated HCA Map is on file at the City and is adopted by reference for use with this chapter. It is inevitable, given the large area that Metro's HCA Map covers, that there may be some errors. In cases where, for example, three properties share the same contours and the same natural features but the map shows the middle lot with an HCA designation on it, it is reasonable to question the accuracy of that HCA designation. Using tree overstory as the sole basis for HCA designation will also allow a change in designation since trees are already protected in the municipal code and Chapters 55 and 85 CDC.

B. The Planning Director shall verify the appropriate HCA or non-HCA designation by site visits or consultations with Metro or by other means. Determination is based on whether the Metro criteria are met or whether the Metro designation was based solely on tree overstory in which case a redesignation is appropriate. In cases where the determination is that the map is incorrect, the Planning Director will make a written finding of this as well as the site conditions that led to that conclusion.

Onsite assessment of the mapped HCA found a maintained grass community dominated by tall fescue and common bentgrass (SP1, 2, 3). No forested or other native community was present or significantly adjacent to the mapped HCA. Review of historical aerial photographs including summer 2002 (Figure 5) indicated presence of forest canopy located just offsite to the south (TL800 and 802) which may have slightly extended onto the subject property. The majority of the mapped area appears to consist of shade from offsite trees to the south. It appears that Metro designation was based on tree canopy and redesignation is appropriate.

Further, removal of adjacent trees and construction of a new residential home south of the site occurred in 2020-2021 under approval from the City (WAP-20-01/WRG-20-01/MIS-20-01/LLA-20-01). Approved development impacted mapped HCA offsite to the south and effectively cut off any contiguous habitat that may have been present. As previously described, construction of a 14-foot driveway along the southern property boundary St (935-21-000993-SD-01) has further truncated any HCA that may have been present. Based on these conditions it is proposed that the Planning Director allow removal of this HCA from the subject property.

Summary and Conclusions

The applicant proposes a 3-lot minor partition and residential development to include one existing home in the north portion of existing tax lot 300. Site visit was conducted by S&A to complete a wetland delineation and assess onsite conditions associated with WRA and HCA overlays.

Based on site assessment and outlined according to Chapter 32 of the West Linn Community Development Code the applicant has addressed Alternative Review Methods for WRA boundaries and proposes a 25' enhanced buffer along the entire boundary of the onsite wetland. The enhanced buffer is anticipated to provide significantly improved functions compared to functions provided by the current degraded WRA.

In accordance with Chapter 28 of the Development Code HCA verification is requested to remove mapped HCA onsite due to degraded conditions, lack of native tree canopy and presence of adjacent development truncating any extension of habitat onto the site.

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FIGURE 1: PROJECT VICINITY MAP



Date: 1/31/2022

Data Source: ESRI, 2022; Clackamas

County GIS Dept., 2022

Figure 1. Location Map



9th Street Project Site: S&A #2942

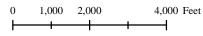


FIGURE 2: SITE DEVELOPMENT PLAN

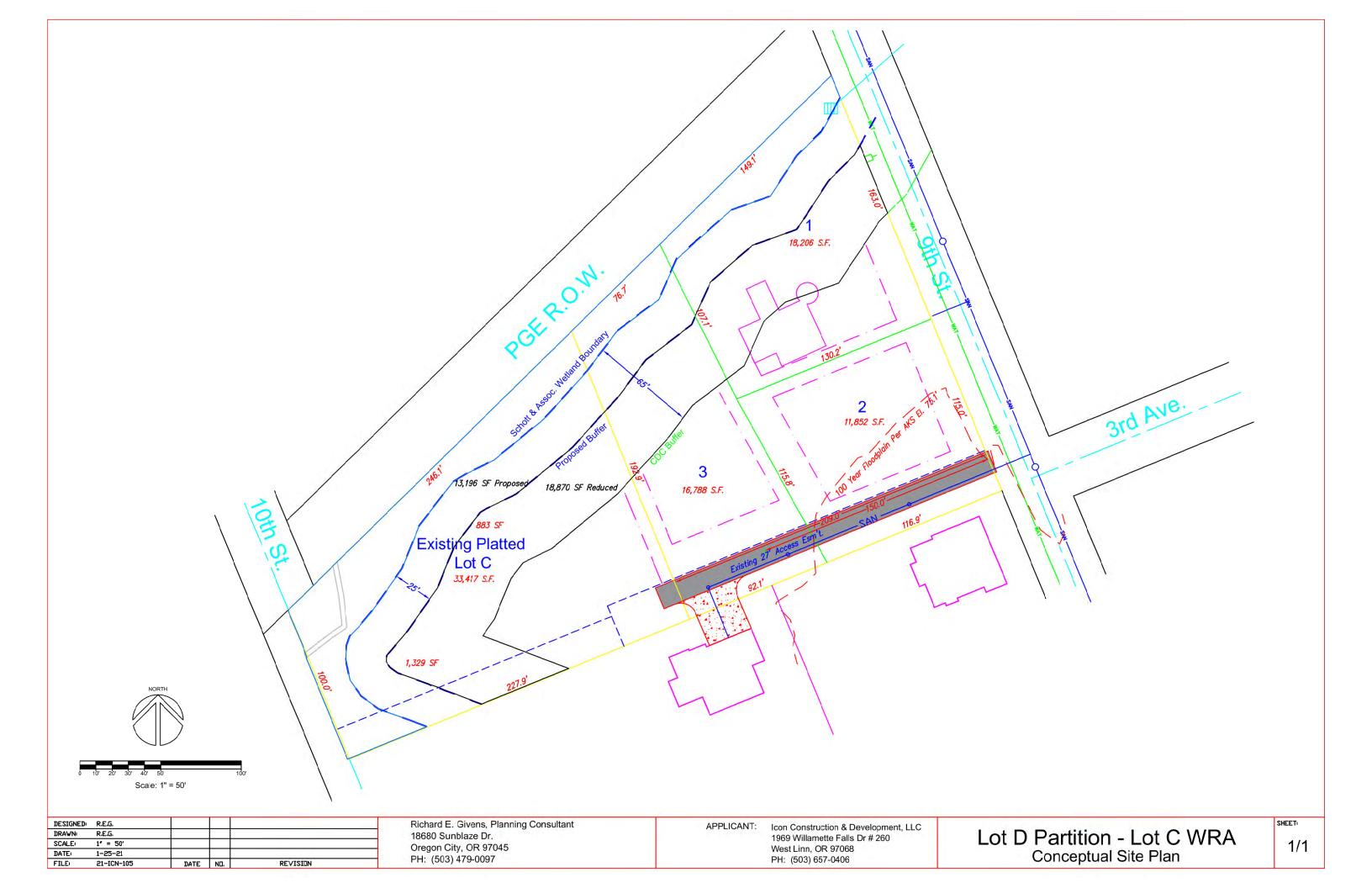


FIGURE 3. CITY OF WEST LINN WRA MAP

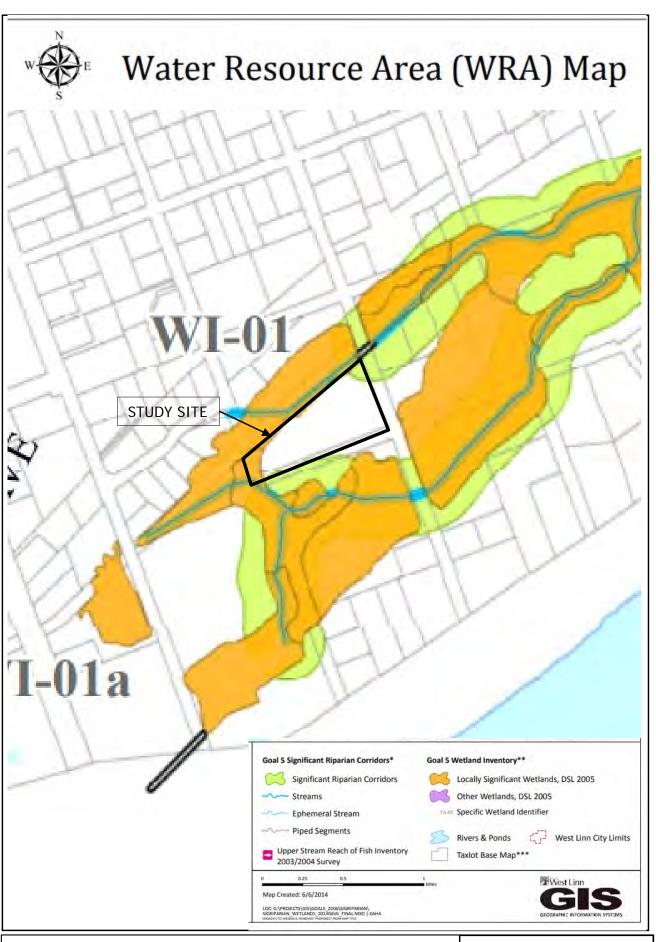
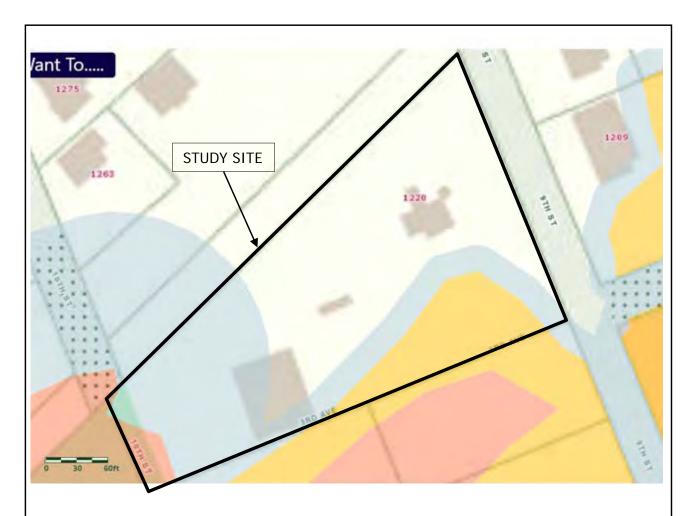


FIGURE 3. WATER RESOURCE AREA (WRA) MAP 9^{TH} ST PROJECT SITE S&A#2942

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FIGURE 4. CITY OF WEST LINN HCA MAP



LEGEND

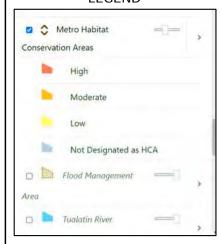


FIGURE 5. 2002 AERIAL PHOTOGRAPH



Date: 3/3/2022

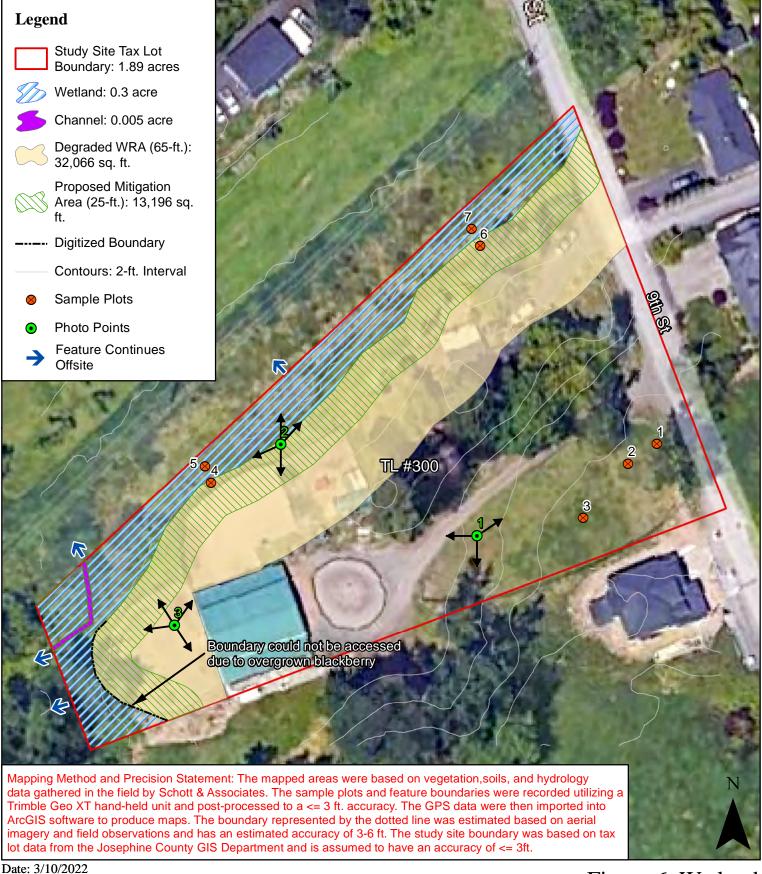
Data Source: Google Earth, 2022; Clackamas

County GIS Dept, 2022

Figure 5. 2002 Aerial



FIGURE 6. DELINEATION/WRA EXISTING CONDITIONS AND MITIGATION PLANTING AREA

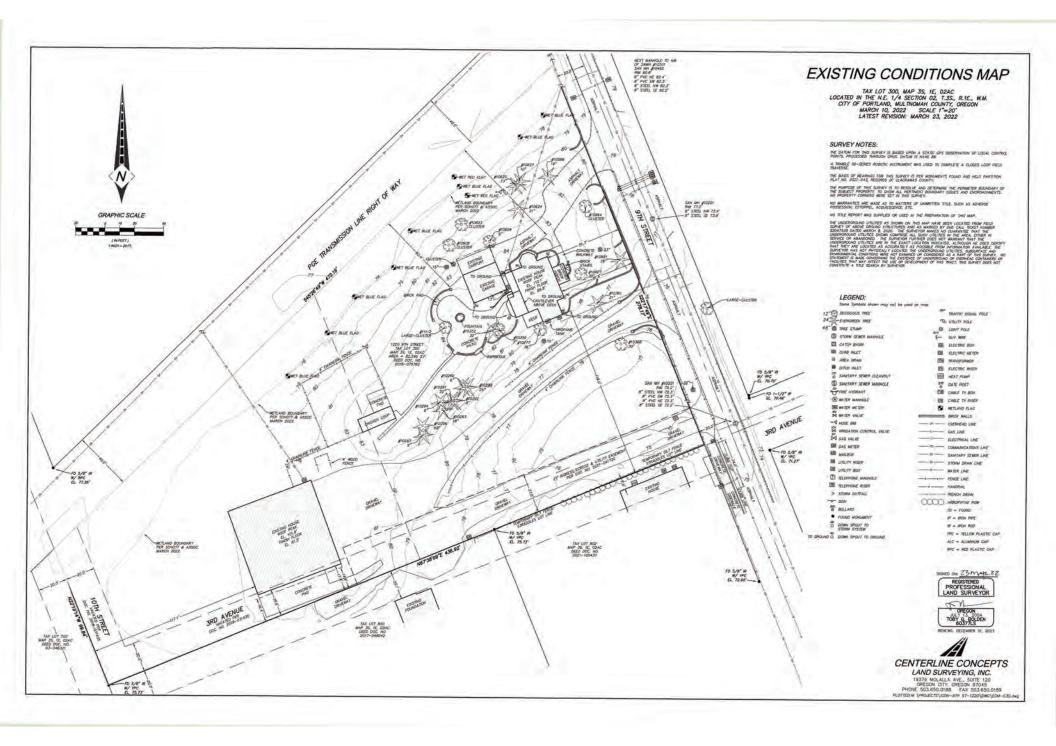


Data Source: Google Earth, 2022; Clackamas County GIS Dept, 2022; DOGAMI, 2009

Figure 6. Wetland **Delineation Map**



FIGURE 7: EXISTING CONDTIONS MARCH 10, 2022



APPENDIX A: WETLAND DELINEATION

WETLAND DELINEATION / DETERMINATION REPORT COVER FORM

Fully completed and signed report cover forms and applicable fees are required before report review timelines are initiated by the Department of State Lands. Make checks payable to the Oregon Department of State Lands. To pay fees by credit card, go online at: https://apps.oregon.gov/DSL/EPS/program?key=4.

Attach this completed and signed form to the front of an unbound report or include a hard copy with a digital version (single PDF file of the report cover form and report, minimum 300 dpi resolution) and submit to: **Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279.** A single PDF of the completed cover from and report may be e-mailed to: **Wetland_Delineation@dsl.state.or.us.** For submittal of PDF files larger than 10 MB, e-mail DSL instructions on how to access the file from your ftp or other file sharing website.

Section Owner Name, Firm and Address: Business phone # (503) 657-0406 Mobile phone # (cptional) E-mail: darren@iocnconstruction net	Contact and Authorization Information					
Darren Qusdorf (contional) E-mail: darren@iconconstruction.net		Dusiness share # (500) 057 0400				
Construction and Development Semail: darren@conconstruction.net						
See Willamente Falls Drive, Suite 160						
Authorized Legal Agent, Name and Address (if different):	1969 Willamette Falls Drive, Suite 160	E-mail: danen@iconconstruction.net				
Teither own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification-to-the primary contact. Typed/Printed Name: Date; 02/01/2022 Special instructions regarding site access.						
Leither own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification-to-the primary contact. Typed/Printed Name:	Authorized Legal Agent, Name and Address (if different and Address)	ent): Business phone #				
Leither own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification-to-the primary contact. Typed/Printed Name: Date; 02/01/2022 Special instructions regarding site access: Signature: Date; 02/01/2022 Special instructions regarding site access: Project Amme: 1220 9th Street Project Latitude: Longitude: decimal degree - centroid of site or start & end points of linear project Tax Map # 13 1 2AC Tax Lot(s) 300 Tax Map # Tax						
Typed/Printed Name:ARREAN		E-mail:				
Typed/Printed Name:ARREAN						
Typed/Printed Name:ARREAN	I either own the property described below or I have legal author	prity to allow access to the property. Lauthorize the Department to access the				
Date; 02/01/2022 Special instructions regarding site access: Project and Site Information Project Name: 1220 9th Street Project Latitude: decimal degree - centroid of site or start & end points of linear project Tax Map # 13 1 2AC	property for the purpose of confirming the information in the re	eport, after prior notification to the primary contact.				
Date; 02/01/2022 Special instructions regarding site access: Project and Site Information Project Name: 1220 9th Street Project Latitude: decimal degree - centroid of site or start & end points of linear project Tax Map # 13 1 2AC	Typed/Printed Name: DARREN GUSPOR	Signature:				
Project Name: 1220 9th Street Project Proposed Use: Housing development Project Street Address (or other descriptive location): Tax Map # 13 1 2AC Tax Lot(s) 300 Tax Map # Project Street Address (or other descriptive location): Township 13S Range 1E Section 2 QQ AC Use separate sheet for additional tax and location information Waterway: unknown Wetland Consultant Name, Firm and Address: Juniper Tagliabue & Jodi Forgione Schott & Associates Schott & Associates Aurora, OR 97002 The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge. Consultant Signature: Primary Contact for report review and site access is Consultant Applicanti/Owner Authorized Agent Wetland/Waters Present? Wetland/Waters Present? Yes No Study Area size: 1.89 ac Total Wetland Acreage: 0.3200 Check Applicable Boxes Below R-F permit application submitted Mitigation bank site Request for Reissuance. See eligibility criteria. (no fee) DSL # Expiration date Wetland ID code Wi-01 For Office Use Only DSL Reviewer: Fee Paid Date:						
decimal degree - centroid of site or start & end points of linear project						
decimal degree - centroid of site or start & end points of linear project Proposed Use:	Project Name: 1220 9th Street Project	Latitude: Longitude:				
Proposed Use: Housing development Tax Map # 13 1 2AC Tax Lot(s) 300 Tax Map # Project Street Address (or other descriptive location): Tax Map # Tax Lot(s) Township 13S Range 1E Section 2 QQ AC Use separate sheet for additional tax and location information Wetland Delineation Information Wetland Consultant Name, Firm and Address: Juniper Tagliabue & Jodi Forgione Schott & Associates Juniper Tagliabue & Jodi Forgione Schott & Associates 1010 Ne Hwy 99E Aurora, OR 97002 The information and conclusions on this form and in_the_attached report are true and correct to the best of my knowledge. Consultant Signature: Phone # (503) 678-6007 Mobile phone # (if applicable) E-mail: juniper@schottandassociates.com Date: 01/31/2022 Primary Contact for report review and site access is SC Consultant Applicant/Owner Applicant/O	Landing and additional and the state of the					
Project Street Address (or other descriptive location): Tax Lot(s) Township 13S Range 1E Section 2 QQ AC Use separate sheet for additional tax and location information Wetland Delineation Information Wetland Consultant Name, Firm and Address: Juniper Tagliabue & Jodi Forgione Schott & Associates 21018 NE Hwy 99E Aurora, OR 97002 The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge. Consultant Signature: Primary Contact for report review and site access is Consultant Applicant/Owner Authorized Agent Wetland/Waters Present? Yes No Study Area size: 1.89 ac Total Wetland Acreage: 0.3200 Check Applicable Boxes Below R-F permit application submitted Mitigation bank site Pee (\$100) for resubmittal of rejected report Request for Reissuance. See eligibility criteria. (no fee) DSL # Expiration date Wetland/D code WI-01 For Office Use Only DSL Reviewer: Fee Paid Date: / DSL WD #						
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City: West Linn County: Clackamas Waterway: unknown River Mile: n/a Wetland Delineation Information Wetland Consultant Name, Firm and Address: Phone # (503) 678-6007 Juniper Tagliabue & Jodi Forgione Mobile phone # (if applicable) Schott & Associates E-mail: juniper@schottandassociates.com Schott & Associates 2018 NE Hwy 99E Aurora, OR 97002 The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge. Consultant Signature: Date: 01/31/2022 Primary Contact for report review and site access is Consultant Application Application Agent Wetland/Waters Present? Yes No Study Area size: 1.89 ac Total Wetland Acreage: 0.3200 Check Applicable Boxes Below R-F permit application submitted Fee payment submitted \$500 Mitigation bank site Fee (\$100) for resubmittal of rejected report Industrial Land Certification Program Site Request for Reissuance. See eligibility criteria. (no fee) DSL # Expiration date Wetland ID code WI-01 Wetland ID code W	1220 9th St					
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Mobile phone # (if applicable) E-mail: juniper@schottandassociates.com	Wetland Consultant Name, Firm and Address:	Phone # (503) 678-6007				
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SCHOTT & ASSOCIATES



Ecologists & Wetlands Specialists

21018 NE Hwy 99E • P.O. Box 589 • Aurora, OR 97002 • (503) 678-6007 • FAX: (503) 678-6011

JURISDICTIONAL WETLAND DELINEATION REPORT FOR

1220 9th Street West Linn, Oregon

T13S, R1E, Section 2AC TL# 300 Clackamas County, Oregon

Prepared for

Darren Gusdorf Icon Construction and Development 1969 Willamette Falls Drive, Suite 160 West Linn, Oregon 97068

Prepared by

Jodi Forgione &
Juniper Tagliabue of
Schott & Associates, Inc.

Date:

February 2022

Project #: 2942

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(A) Landscape Setting and Land Use

Schott & Associates (S&A) was contracted to conduct a wetland delineation on a 1.89-acre study site located at 1220 9th Street, West Linn, Clackamas County, Oregon (T3S, R1E, Section 02AC, tax lot 300). The purpose of this study was to document the presence or absence of existing onsite wetlands and other waters that may be regulated under the Clean Water Act (CWA) by the U.S. Army Corps of Engineers (Corps) and under the Removal-Fill Law by the Oregon Department of State Lands (DSL). This report complies with all standards and requirements set forth in Oregon Administrative Rules (OAR) 141-090-0035 (1-17) for wetland delineation reports and jurisdictional determinations for the purpose of regulating fill and removal within waters of the state. This report will be used to fulfill federal and state regulatory requirements for project permitting.

The study site encompassed the entirety of tax lot #300. The somewhat irregularly triangle shaped property was defined by 9th Street to the east and a power line utility easement to the north. To the south was predominantly open space, with a new residential home along the southeast corner of the study site. At the time of the site visit a large residential home was present in the northeastern portion of the site with access via driveway from 9th Street to the east. A large barn was located at the western end of the property with a separate driveway access via 9th street and a large gravel parking area.

Site topography was characterized by a small knoll with all the buildings and barn located on higher ground, sloping down and offsite along the margins to the north, west and south. Vegetation was generally composed of mowed lawns with a forested area around the house in the eastern portion of the site. North of the barn was bare paddock. West of the barn was quite flat and appeared to have been historically graded and used as a paddock.

Surrounding land use was residential with Willamette Park, located at the confluence of the Tualatin River and the Willamette River, located just to the south and west.

(B) Site Alterations

Aerial photographs for the time period between 1994 and 2021, available from Google Earth, were reviewed to assess site history. In the earliest available aerial photograph (1994; Figure 5b), the residential home is not clearly visible but believed to be present under tree canopy in the northeast portion of the site. A smaller building is present in the location of the existing barn and clearing for future development or paddock use for livestock may already be underway. From 2000, additional site clearing has occurred and the barn and parking area are clearly visible; the site is in much the same condition as it was during the time of fieldwork (Figure 5a).

(C) Precipitation Data and Analysis

Precipitation data for the date of fieldwork and the time period preceding it were reviewed to evaluate observed wetland hydrology conditions relative to actual and statistically normal precipitation. Precipitation that deviates from normal ranges can affect site conditions and impact observed wetland hydrology indicators. Precipitation

data were acquired from the Natural Resources Conservation Service (NRCS) Agricultural Applied Climate Information System (AgACIS) for the Oregon City station to provide context for observed hydrological conditions of the study area at the time of the site visit (AgACIS 2021-2022). Table 1 provides the precipitation data, comparison to the normal water year average, as well as normal monthly ranges of precipitation representing 70% probability as reported for the Oregon City NRCS WETS station (NRCS 1990-2020).

Table 1. Precipitation Summary for the Date of Fieldwork and Preceding Water Year (October 1, 2021 – Date of Fieldwork)

	Observed Precipitation*				
Date of Field Visit	Date of Visit (in.)	2 weeks prior (in.) Water Year to-Date (in.)		Normal Water Year to-Date (in.)**	% of Normal Water Year-to Date
January 3, 2022	2.06	2.27+	22.14	17.44	127%

^{*}Data provided by NRCS AgACIS data from the Oregon City Station, OR, 2021-2022. Data available for month of December is incomplete.

Table 2. Precipitation Summary for Three Months Preceding Fieldwork and Comparison to WETS Average and Normal Range

Month	Total Precipitation (inches)*	WETS Average (inches)**	WETS Normal Range (inches)**	% of Normal
December	6.64+	7.02	4.95-8.32	95%
November	5.92	6.27	4.34-7.46	94%
October	7.26	4.15	2.66-5.00	175%

^{*}Data provided by NRCS AgACIS data from Oregon City Station, OR, 2021-2022. Data available for month of December incomplete.

Fieldwork took place on January 3, 2022, when a record 2.06 inches of precipitation was observed. Recorded precipitation for the month of December was incomplete but in the two weeks preceding fieldwork, at least 2.27 inches of precipitation was observed. Precipitation observed in the month of October was well above the WETS average and normal range. Precipitation observed November and December* were both below the WETs average but within normal range. Precipitation for the water year (October 1, 2021-January 3, 2022) was observed at 127% of normal (22.14 inches) through the month of December. Due to recent heavy rainfall and higher than average water year to date it is presumed that groundwater and surface water levels were higher than normal for midwinter in northwest Oregon.

(D) Site Specific Methods

Prior to visiting the site, the following existing data and information was reviewed:

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^{**}Data provided by NRCS AgCIS data from Oregon City, October 2021-December 2021.

^{**}Data provided by NRCS WETS station for the Oregon City Station, OR, 1990-2020.

- Clackamas County tax map (Figure 2)
- U.S. Fish and Wildlife Service (USFWS) National Wetland Inventory (NWI), West Linn Local Wetland Inventory (LWI) (Figure 3), and Oregon Department of Forestry (ODF) stream mapping
- U.S. Department of Agriculture (USDA) National Resource Conservation Service (NRCS) gridded Soil Survey Geographic (gSSURGO) database for Clackamas County (Figure 4)
- Recent and historical aerial photographs provided by Google Earth (Figures 5a-5b)
- Department of Oregon Geology and Mineral Industries (DOGAMI) LiDAR data (Figure 6)
- WD#2001-0340; DSL App No. 63410 and Authorization

Two soil series were mapped within the study site boundary according to the USDA NRCS soil survey for Clackamas County. Cloquato silt loam was mapped over most of the site. This is a well-drained series found predominantly in flood plains with 3% hydric inclusions. Wapato silty clay loam was at the northern margin of the site. This poorly drained soil is listed as a hydric soil series as well as containing inclusions of other hydric soils.

Schott & Associates visited the site on January 3, 2022. Data were collected according to methods described in the *1987 Manual* and the *Regional Supplement to the Corps of Engineers Delineation Manual: Western Mountains, Valleys, and Coast (Version 2.0).* Seven sample plots were established throughout the site to locate the boundaries of wetlands. For each sample plot, data on vegetation, hydrology, and soils was collected, recorded in the field and later transferred to data forms (Appendix B). Plant indicator status was determined using the 2020 National Wetland Plant List (Corps 2020). Onsite streams or drainages were delineated via the ordinary high-water mark (OHWM) as indicated by top of bank, wrack or scour lines, and change in vegetation communities.

All identified wetlands and waters are classified according to the USFWS *Classification* of Wetlands and Deepwater Habitats of the United States (Cowardin et al. 1979) and the Guidebook for Hydrogeomorphic (HGM)-based Assessment of Oregon Wetland and Riparian Sites (DSL 2001).

Representative ground level photographs were recorded to document site conditions (Appendix C; Figure 6).

(E) Description of All Wetlands and Other Non-Wetland Waters

Based on soils, vegetation and hydrology data gathered in the field, S&A identified one wetland along the northern and western margins of the study site. The wetland occupied the bottom of a broad swale and extended offsite to the north and west. The wetland was bounded by gentle to moderate sloped topography. Wetland, drainage channel, sample plots, and photo point locations are shown on Figure 6.

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Wetland 1 (0.32-ac) was vegetated predominantly by facultative pasture grasses including meadow foxtail (Alopecurus pratensis; FAC), colonial bentgrass (Agrostis capillaris; FAC), and tall fescue (Schedonorus arundinaceus; FAC) along with creeping buttercup (Ranunculus repens; FAC). The western edge of the site was terraced and sloped offsite with a distinct elevation change. The area was overgrown with Himalayan blackberry (Rubus armeniacus; FAC) and could not be accessed. This boundary was estimated based on the blackberry line and topographic interpretation. The wetland was assessed as a slope HGM class with a Cowardin class of seasonally flooded, palustrine emergent (PEMC).

Soils samples met the Corps hydric soil indicator for redox dark surface (F6). Soils were dark brown (10YR 3/2) in matrix color with common yellow-red redoximorphic concentrations occurring as soft masses. The soil texture was silt loam. Wetland hydrological indicators observed included high water table (A2) and soil saturation (A3).

The wetland was bounded by topographic changes extending upslope to the residential home and barn. Soils in the uplands did not meet hydric soil criteria. Hydrological indicators were present in uplands, however this is assumed in part due to the recent heavy rains.

One drainage channel was identified within the wetland at the western extent of the property flowing from the west, to the east and north. The channel extended offsite to both the north and west. The channel ranged from 2-4 feet wide in width and 1-3 feet in depth with a silty substrate. The channel was well defined to slightly entrenched. Several inches of surface water were flowing during fieldwork. No vegetation was present within the channel. Himalayan blackberry was rooted outside the channel and growing over the channel, making access difficult. It is estimated that the channel is seasonal in flow period. The channel is not identified on the LWI, NWI or any local resources. The feature was assessed as a riverine flow through HGM class with an intermittent riverine streambed (R4SB) aquatic habitat.

Three additional sample plots were placed in the southeastern pasture. Topography was sloped to the east-southeast. Soil samples did not meet hydric soil criteria with distinct redoximorphic features beginning below 10 inches. Hydrological indicators were present as surface water or high-water table. It is assumed that this was directly associated with the recent rains and above average precipitation.

(F) Deviation from LWI or NWI

No NWI wetlands or aquatic habitats are mapped on the site. The LWI (Appendix D) shows a wetland closely corresponding to the delineated wetland as mapped in the field (Winterbrook Planning, 2004; WI-01).

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(G) Mapping Method

Wetland, ordinary high water, photo point, and sample plot locations were recorded with a handheld Trimble GPS unit capable of sub-meter accuracy following differential correction with Pathfinder Office desktop software. These data were converted to ESRI shapefile and mapped using ArcMap 10.6 desktop software.

(H) Additional Information

Offsite wetland determination was completed for the subject property in 2001 indicating likely presence of onsite wetland with SE corner of site composed of upland. DSL Application 63410 was submitted in 2021 for development of a home offsite to the south (TL800) and including the southern extent of the study site for road and stormwater improvements. No wetland impacts were proposed and a No State Permit (NSP) letter was issued.

(I) Summary and Conclusions

Based on vegetation, soils, hydrology, and ordinary high-water mark data, one 0.32-acre PEMC/slope wetland was mapped at the northern and western margins of the subject property and extended offsite in both directions. A defined channel flowed through the northwest corner of the site bounded on both sides by the wetland.

(J) Disclaimer

This report documents the investigation, best professional judgment, and conclusions of the investigators. It is correct and complete to the best of our knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and used at your own risk unless it has been reviewed and approved in writing by the Oregon Department of State lands in accordance with OAR 141-090-0005 through 141-090-0055.

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APPENDIX A: FIGURES

FIGURE 1: LOCATION MAP



Date: 1/31/2022

Data Source: ESRI, 2022; Clackamas

County GIS Dept., 2022

Figure 1. Location Map



9th Street Project Site: S&A #2942

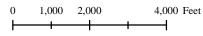
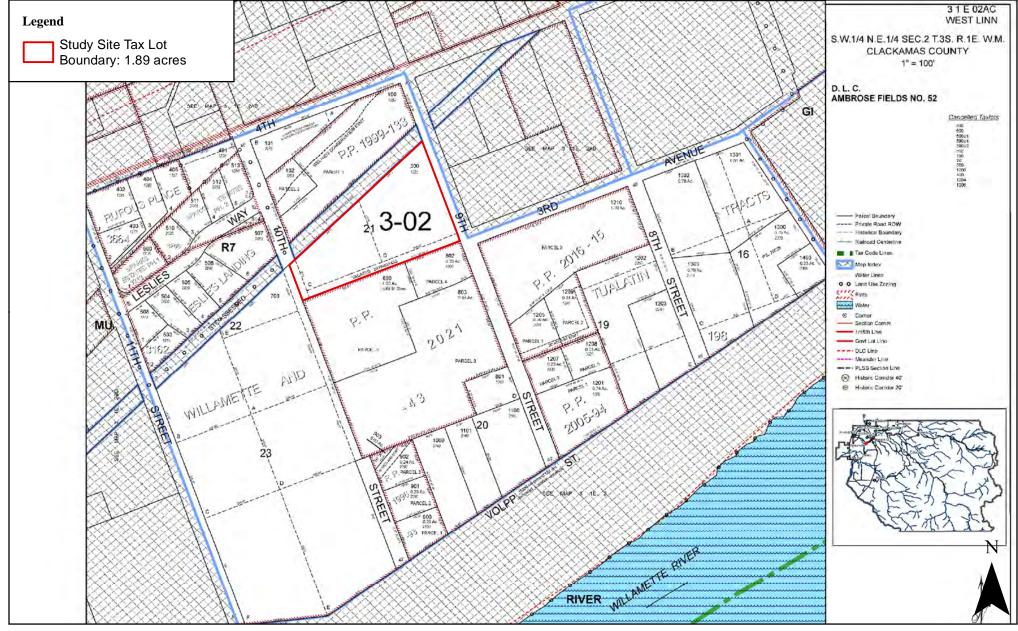


FIGURE 2: TAX MAP



Date: 1/31/2022

Data Source: ESRI, 2022; Clackamas

County GIS Dept., 2022

Figure 2. Clackamas County Tax Map - 3S1E02AC



9th Street Project Site: S&A #2942

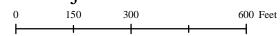


FIGURE 3: WETLAND INVENTORY MAP



Date: 1/31/2022

Data Source: ESRI, 2022; Clackamas County GIS Dept, 2022; USFWS, NWI, 2022; ODF, 2022; Shapiro and Assoc., 1999

Figure 3. Wetland Inventory Map



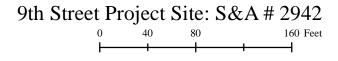


FIGURE 4: USDA/NRCS SOIL SURVEY MAP



Data Source: ESRI, 2022; Clackamas County GIS Dept, 2022; Soil Survey Staff, USDA, NRCS, 1/27/2022

Figure 4. USDA/NRCS Soil Survey Map of Clackamas County



9th Street Project Site: S&A # 2942

FIGURE 5A: RECENT AERIAL IMAGE



Date: 2/2/2022

Data Source: Google Earth, 2022; Clackamas County GIS Dept, 2022

Figure 5a. Recent Aerial Imagery - May 10, 2021



9th Street Project Site: S&A # 2942

FIGURE 5B: HISTORICAL AERIAL IMAGE



Date: 1/31/2022

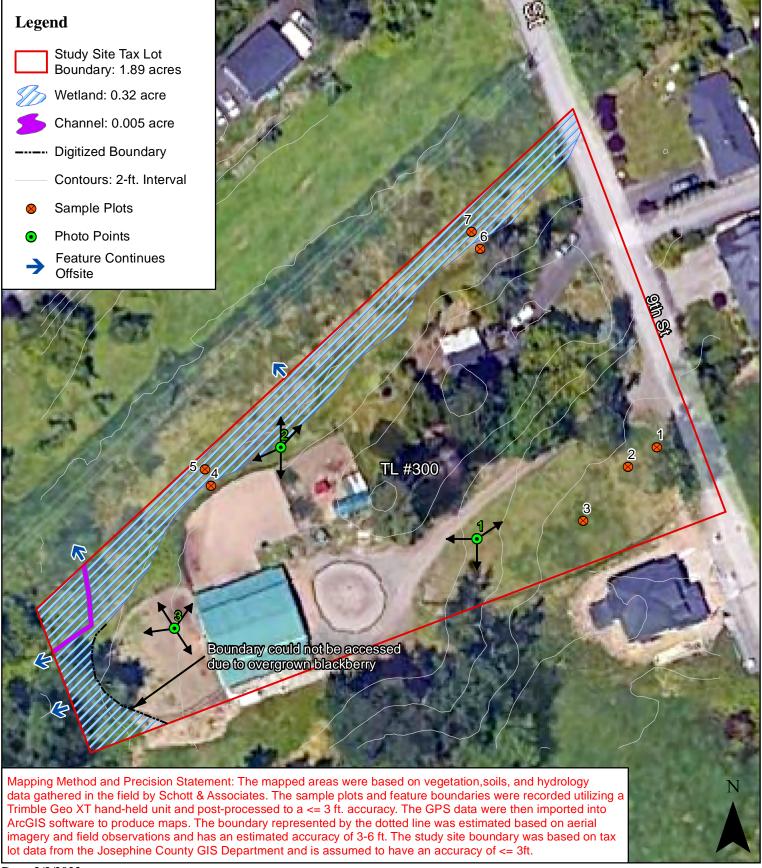
Data Source: Google Earth, 2022; Clackamas County GIS Dept, 2022

Figure 5b. Historical Aerial Imagery - June 19, 1994





FIGURE 6: WETLAND DELINEATION MAP



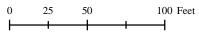
Date: 2/2/2022

Data Source: Google Earth, 2022; Clackamas County GIS Dept, 2022; DOGAMI, 2009

Figure 6. Wetland Delineation Map



9th Street Project Site: S&A # 2942



APPENDIX B: DATA FORMS

Project/Site:	1220 9th St			City/Courity	: West Linn/0	Ciackailias			pling Date:	Jan.s, Z	.022
Applicant/Owner:	Icon Construction a	nd Development				Sta	ite: OR	Sam	pling Point:		1
Investigator(s):	JRF			Section	n, Township,	, Range: 2A	T3S, R1E				
Landform (hillslope,	terrace, etc.):	Terrace		Local re	elief (concave	e, convex, no	ne): none		Slop	oe (%): <u>0</u>)-3%
Subregion (LRR):	Northwest Forests a	and Coast (LRR A)	Lat:		45.342	2360048 Lo	ong: -	122.6476	35548	Datum: 0)-2%
Soil Map Unit Name	: Cloquato silt	loam	_				Classification				
Are climatic / hydrolo			his time of	year?	Yes	X	No	(If no, e	explain in R	emarks)	
•	, Soil	• •			_		al Circumstan	_ `	•	•	10 х
	, Soil						, explain any a				
SUMMARY OF F		_		•		•			•		
Hydrophytic Vegetat		Yes x No				· · · · · · · · · · · · · · · · · · ·					
Hydric Soil Present?		Yes No			ampled Area	a Y	'es	No	x		
Wetland Hydrology I		Yes x No		within	a Wetland?			_		_	
Hydrology well abov				41							
VEGETATION											
			Absolute	Dominant	Indicator	Dominance	Test workshe	eet:			
Troo Stratum (Hac	o scientific names)		% Cover	Species?	Status?		ominant Spec				
Tree Stratum (Use 1. Populus balsam	,		15	Y			L, FACW, or F		3	()	۸۱
 Populus balsam 2. 	illera			·		Total Numbe	er of Dominant	_	<u> </u>	(/	A)
3.					-		oss All Strata:		3	(1	В)
4.					-	·		. -		(L	رد)
T		Total Cover:	15				ominant Spec L, FACW, or F		100%	(A/B)
Shrub Stratum						Prevalence	Index Worksl	neet:			
1.							Cover of:		Multiply I	ov:	
2.						OBL species		x1 =	0		
3.						FACW spec		x2 =	0		
4.						FAC species		x3 =	0		
5.						FACU specie		x4 =	0		
		Total Cover:	0			UPL species		x5 =	0		
Herb Stratum				•		Column Tota	als: 0	(A)	0	(E	B)
1. Lolium perenne			30	Υ	□FAC□	Prevalence	e Index = B/A	=		,	,
2. Alopecurus prat	ensis		55	Υ	FAC□			•			
3. Trifolium repens	3		10		IFAC□	Hydrophytic	Vegetation I	ndicator	s:		
4. Hypochaeris rad	dicata	_	5		ı∄ACU□	1 -	Rapid Test for	Hydroph	nytic Vegeta	tion	
5.						X 2-	Dominance Te	est is >50)%		
6.						3 -	Prevalence In	dex is ≤3	3.0 ¹		
7.		_				4 -	Morphological	Adaptati	ion1 (Provid	e support	ting
8.		_				dat	a in Remarks	or on a s	eparate she	et)	
^						5 -	Wetland Non-	Vascular	Plants ¹		
40						Pro	blematic Hydr	ophytic V	egetation ¹ ((Explain)	
11.											
		Total Cover:	100								
Woody Vine Stra	<u>atum</u>						f hydric soil ar unless disturbe			must	
2.		-			-	Usalue este est					
		Total Cover:	0			Hydrophytic Vegetation	į				
		=				•					
% Bare	e Ground in Herb St	ratum 0 %	Cover of B	iotic Crust	0	Present?		Yes	x No)	

	scription: (Describe	to the de	pth needed to doc	ument t	he indicat	or or co	nfirm the abs	sence of indi	cators.)		
Depth	Matrix		Red	lox Featı	ures						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	9	Remarks		
0-5	10 YR 3/2	95	10YR3/3	5	C	M	SiL				
5-10	10 YR 3/2	95	10YR3/3	5	C	M	SiL				
10-16	10YR3/2	95	10YR3/4	5	C	M	SiL				
¹ Type: C=0	 Concentration, D=Deរុ	oletion, RM	/=Reduced Matrix, 0	CS=Cove	ered or Co	ated San	d Grains. ² L	ocation: PL=	Pore Lining, M=Matrix		
Hydric Soi	I Indicators: (Applic	cable to al	II LRRs, unless oth	erwise	noted.)		Indicators	for Problem	atic Hydric Soils ³ :		
Histos	sol (A1)		Sandy F	Redox (S	5)			2 cm M	uck (A10)		
Histic	Epipedon (A2)		Stripped	l Matrix (S6)			Red Pa	rent Material (TF2)		
Black	Histic (A3)		Loamy N	Лиску М	ineral (F1)	(except	MLRA 1)	Other (I	Explain in Remarks)		
Hydro	gen Sulfide (A4)		Loamy (Gleyed M	1atrix (F2)						
Deple	ted Below Dark Surfa	ace (A11)	Depleted	d Matrix	(F3)						
Thick	Dark Surface (A12)		Redox D	ark Surl	face (F6)		³ Indic	ators of hydro	ophytic vegetation and		
Sandy	/ Muck Mineral (S1)				urface (F7)	we	tland hydrolog	gy must be present,		
Sandy	gleyed Matrix (S4)		Redox D)epressi	ons (F8)		u	ınless disturb	ed or problematic.		
Restrictive	Layer (if present):										
Type:											
Depth (inch	nes):					Ну	/dric Soil Pre	esent?	Yes	No _	X
Depth (inch	Υ					Ну	dric Soil Pre	esent?	Yes	No _	X
Depth (inchemarks: YDROLOG Wetland H	Y ydrology Indicators		fficient)			ну	ydric Soil Pre				X red)
Depth (inch emarks: EYDROLOG Wetland H Primary Inc	Y ydrology Indicators licators (any one indic		· · · · · · · · · · · · · · · · · · ·	Stained I	eaves (R9			Seconda	ry Indicators (2 or mor	e requi	
Depth (inchemarks: IYDROLOG Wetland H Primary Inc x Surface	Y ydrology Indicators: licators (any one indicators) ce Water (A1)		Water-S		eaves (B9			Seconda Water-S	ry Indicators (2 or mor Stained Leaves (B9) (f	e requi	
Depth (inch emarks: EMPROLOG Wetland H Primary Incomes X Surface High V	Y ydrology Indicators dicators (any one indicators (A1) Water Table (A2)		Water-S	A 1, 2, 4	eaves (B9) A and 4B)			Seconda Water-S	ry Indicators (2 or mor Stained Leaves (B9) (I	e requi	
Primary Inc. X Surface High V Satura	ydrology Indicators: dicators (any one indicators (A1) Water Table (A2) ation (A3)		Water-S MLRA Salt Cru	A 1, 2, 4 st (B11)	A and 4B)) (except		Seconda Water-{ 4A a Drainag	ry Indicators (2 or mor Stained Leaves (B9) (I Ind 4B) Je Patterns (B10)	re requi	
Depth (inche lemarks: Emarks: Emarks: Wetland H Primary Inco X Surfac High V Satura Water	ydrology Indicators: dicators (any one indicators (A1) Water Table (A2) ation (A3)		Water-S MLRA Salt Cru Aquatic	A 1, 2, 4, st (B11) Inverteb	A and 4B)) (except		Seconda Water-S 4A a Drainag Dry-Sea	ry Indicators (2 or mor Stained Leaves (B9) (I I nd 4B) Je Patterns (B10) Jason Water Table (C2)	re requi	, 2,
Depth (inche lemarks: YDROLOG Wetland H Primary Inche Satura Satura Sedim	ydrology Indicators: dicators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2)		Water-S MLRA Salt Cru Aquatic Hydroge	A 1, 2, 4 / st (B11) Inverteb en Sulfide	A and 4B) rates (B13 e Odor (C1) (except	<u> </u>	Seconda Water-S 4A a Drainag Dry-Sea Saturat	ry Indicators (2 or more Stained Leaves (B9) (N I nd 4B) Je Patterns (B10) Jeson Water Table (C2) Jeson Visible on Aerial In	re requi	, 2,
Depth (inche lemarks: Emarks: Emarks: Wetland H Primary Inco X Surfact High V Satura Water Sedim Drift D	ydrology Indicators: dicators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3)		Water-S MLRA Salt Cru Aquatic Hydroge Oxidized	A 1, 2, 4, st (B11) Inverteben Sulfide	A and 4B) rates (B13 e Odor (C1 pheres alo) (except		Seconda Water-S 4A a Drainag Dry-Sea Saturat Geomo	ry Indicators (2 or more Stained Leaves (B9) (I Ind 4B) Je Patterns (B10) Jeson Water Table (C2) Jeson Visible on Aerial In	re requi	, 2,
Depth (inche lemarks: IYDROLOG Wetland H Primary Inco X Surface High V Satura Water Sedim Drift D Algal	ydrology Indicators: dicators (any one indicators (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4)		Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presence	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizosee of Rec	A and 4B) rates (B13 e Odor (C1 pheres alo) (except)) ng Living (C4)	Roots (C3)	Seconda Water-S 4A a Drainag Dry-Sea Saturat Geomo Shallow	ry Indicators (2 or more Stained Leaves (B9) (Note of the Ind 4B) are patterns (B10) are passible on Aerial Information (D2) are Aquitard (D3)	re requi	, 2,
Depth (inche lemarks: Primary Inche X Surface YDROLOG Wetland H Primary Inche X Surface High V Satura Water Sedim Drift D Algal Iron D	ydrology Indicators: dicators (any one indicators (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)		Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizosee of Received	A and 4B) rates (B13 e Odor (C1 pheres alo luced Iron uction in P) (except)) ng Living (C4)	Roots (C3)	Seconda Water-S 4A a Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne	ry Indicators (2 or more Stained Leaves (B9) (Note of the Ind 4B) ge Patterns (B10) geson Water Table (C2) georgian (D2) graphic Position (D2) graphic Aquitard (D3) geutral Test (D5)	re requi	, 2,
Primary Inc. X Surface High V Satura Water Sedim Drift D Algal Iron D Surface	ydrology Indicators: dicators (any one indicators (any one indicators) dice Water (A1) Water Table (A2) ation (A3) or Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) de Soil Cracks (B6)	cator is su	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizose of Record Redom Redom Stres	A and 4B) rates (B13 e Odor (C1 pheres alo luced Iron uction in P sed Plants) (except)) ng Living (C4) llowed So (D1) (LF	Roots (C3)	Seconda Water-S 4A a Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne	ry Indicators (2 or more Stained Leaves (B9) (Mand 4B) ge Patterns (B10) gason Water Table (C2) gion Visible on Aerial Interphic Position (D2) graphic Aquitard (D3) geutral Test (D5) Ant Mounds (D6) (LRI	re requi MLRA 1	, 2,
Primary Inc. X Surface High V Satura Water Sedim Drift E Algal Iron E Surface Inund	ydrology Indicators: dicators (any one indicators (any one indicat	cator is su	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted (B7) Water-S Mater-S Request	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizose of Record Redom Redom Stres	A and 4B) rates (B13 e Odor (C1 pheres alo luced Iron uction in P) (except)) ng Living (C4) llowed So (D1) (LF	Roots (C3)	Seconda Water-S 4A a Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne	ry Indicators (2 or more Stained Leaves (B9) (Note of the Ind 4B) ge Patterns (B10) geson Water Table (C2) georgian (D2) graphic Position (D2) graphic Aquitard (D3) geutral Test (D5)	re requi MLRA 1	, 2,
Depth (inche lemarks: IYDROLOG Wetland H Primary Inco X Surface High V Satura Water Sedim Drift D Algal Iron D Surface Inund Spars	ydrology Indicators: dicators (any one indicators (any one indicators (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Aeria	cator is su	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted (B7) Water-S Mater-S Request	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizose of Record Redom Redom Stres	A and 4B) rates (B13 e Odor (C1 pheres alo luced Iron uction in P sed Plants) (except)) ng Living (C4) llowed So (D1) (LF	Roots (C3)	Seconda Water-S 4A a Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne	ry Indicators (2 or more Stained Leaves (B9) (Mand 4B) ge Patterns (B10) gason Water Table (C2) gion Visible on Aerial Interphic Position (D2) graphic Aquitard (D3) geutral Test (D5) Ant Mounds (D6) (LRI	re requi MLRA 1	, 2,
YDROLOG Wetland H Primary Inc X Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac Inund Spars	ydrology Indicators: dicators (any one indicators (any one indicators (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B6) ation Visible on Aeria	I Imagery ve Surface	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted (B7) Other (E	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizose of Receiron Reder or Strese Explain in	rates (B13 e Odor (C1 pheres alo luced Iron uction in P sed Plants) (except)) ng Living (C4) llowed So (D1) (LF	Roots (C3)	Seconda Water-S 4A a Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne	ry Indicators (2 or more Stained Leaves (B9) (Mand 4B) ge Patterns (B10) gason Water Table (C2) gion Visible on Aerial Interphic Position (D2) graphic Aquitard (D3) geutral Test (D5) Ant Mounds (D6) (LRI	re requi MLRA 1	, 2,
Primary Inc. X Surface High V Satura Water Sedim Drift E Algal Iron E Surface Inund Spars Field Obse Surface Wa Water table	ydrology Indicators: dicators (any one indicators (any one indicators (any one indicators (any one indicators (any one indicator) Water Table (A2) ation (A3) Marks (B1) Deposits (B3) Mat or Crust (B4) Deposits (B5) Deposits (B5) Deposits (B5) Deposits (B6) Deposits (B	I Imagery ve Surface	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted (B7) Other (E	st (B11) Inverteben Sulfided Rhizose of Record Red or Strese Explain in (inches)	rates (B13 e Odor (C1 pheres alo luced Iron uction in P sed Plants n Remarks)) (except)) ng Living (C4) llowed So (D1) (LF	Roots (C3)	Seconda Water-S 4A a Drainag Dry-Sea Saturat Geomo Shallow FAC-Nea Raised Frost-H	ry Indicators (2 or more Stained Leaves (B9) (Mand 4B) ge Patterns (B10) gason Water Table (C2) gion Visible on Aerial Interphic Position (D2) graphic Aquitard (D3) gentral Test (D5) Ant Mounds (D6) (LR1) geave Hummocks (D7)	nagery (, 2,
YDROLOG Wetland H Primary Inc X Surfac High V Satura Water Sedim Drift E Algal Iron E Surfac Inund Spars Field Obse Surface Wa Water table Saturation	ydrology Indicators: dicators (any one indicators (any one indicators (any one indicators (any one indicators (any one indicator) water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Ce Soil Cracks (B6) ation Visible on Aeriately Vegetated Concatervations: ater Present? Present? Yes Present?	I Imagery ve Surfaces x x	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted (B7) Other (E	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizose of Recolor Strese Explain in (inches)	rates (B13 e Odor (C1 pheres alo luced Iron uction in P sed Plants n Remarks)) (except)) ng Living (C4) llowed So (D1) (LF	Roots (C3)	Seconda Water-S 4A a Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne	ry Indicators (2 or more Stained Leaves (B9) (Mand 4B) ge Patterns (B10) gason Water Table (C2) gion Visible on Aerial Interphic Position (D2) graphic Aquitard (D3) gentral Test (D5) Ant Mounds (D6) (LR1) geave Hummocks (D7)	nagery (, 2,
YDROLOG Wetland H Primary Inc X Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac Inund Spars Field Obse Surface Wa Water table Saturation (includes ci	ydrology Indicators: dicators (any one indicators (any one indicators (any one indicators (any one indicators (any one indicator) Water Table (A2) ation (A3) Marks (B1) Deposits (B3) Mat or Crust (B4) Deposits (B5) Deposits (B5) Deposits (B5) Deposits (B6) Deposits (B	I Imagery ve Surfaces S X S X	Water-S MLR/ Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted Other (Ee (B8) No Depth No Depth No Depth	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizos de of Recorder Strest Explain in (inches) (inches)	rates (B13 e Odor (C1 pheres alo luced Iron uction in P sed Plants n Remarks :0 :0 :0) (except)) ng Living (C4) llowed So (D1) (LF	Roots (C3) pils (C6) RR A) Wetland Hy	Seconda Water-S 4A a Drainag Dry-Sea Saturat Geomo Shallow FAC-Ne Raised Frost-H	ry Indicators (2 or more Stained Leaves (B9) (Mand 4B) ge Patterns (B10) gason Water Table (C2) gion Visible on Aerial Interphic Position (D2) graphic Aquitard (D3) gentral Test (D5) Ant Mounds (D6) (LR1) geave Hummocks (D7)	nagery (, 2,

Investigator(s): Landform (hillslope, terrace Subregion (LRR): Northw Soil Map Unit Name: Are climatic / hydrologic co Are Vegetation Are Vegetation	e, etc.): Terrace vest Forests and Coast (LRR A Cloquato silt loam Inditions on the site typical for the silt of the silt	this time of	Local re	_	, Range: <u>2</u> e, convex, r	State: OR 2A, T3S, R1E none): none		npling Point: Slope (%): <u>0-3%</u>
Landform (hillslope, terrace Subregion (LRR): Northw Soil Map Unit Name: Are climatic / hydrologic co Are Vegetation Are Vegetation SUMMARY OF FINDI	rest Forests and Coast (LRR A Cloquato silt loam Inditions on the site typical for to a company to the company of the company	this time of	Local re	elief (concave	e, convex, r	none): <u>none</u>		Slope (%): <u>0-3%</u>
Subregion (LRR): Northwood Northwood Nap Unit Name: Are climatic / hydrologic control Name Vegetation Are Vegetation SUMMARY OF FINDING	rest Forests and Coast (LRR A Cloquato silt loam Inditions on the site typical for to a company to the company of the company	this time of		•				Slope (%): <u>0-3%</u>
Soil Map Unit Name: Are climatic / hydrologic co Are Vegetation Are Vegetation SUMMARY OF FINDI	Cloquato silt loam nditions on the site typical for t , Soil, or Hydrology	this time of		45.342	2323893	I			
Are climatic / hydrologic co Are Vegetation Are Vegetation SUMMARY OF FINDI	nditions on the site typical for t					Long:	-122.6477	706545 Dat	tum: 0-2%
Are Vegetation Are Vegetation SUMMARY OF FINDI	, Soil, or Hydrology				N	NI Classificati	on: none		
Are Vegetation SUMMARY OF FINDI			year?	Yes	Х	No	(If no,	explain in Rema	arks)
Are Vegetation SUMMARY OF FINDI			significantly			mal Circumst	ances" Pres	sent? Yes	No x
SUMMARY OF FINDI						ed, explain an			
Hydrophytic Vegetation Pro	NGS – Attach site map				tions, tra	nsects, im	portant fe	eatures, etc.	
varoonviic vedetalion Pit	esent? Yes x No	0							
Hydric Soil Present?	Yes No			ampled Area	a	Yes	No	x	
Netland Hydrology Presen			· Within a	a Wetland?					
	nal with record rainfall occurring		·						
VEGETATION									
		Absolute	Dominant	Indicator	Dominano	e Test works	sheet:		
Tree Stratum (Use scient	rific names)	% Cover	Species?	Status?		f Dominant Sp			
1.	ille Hairles.)			-		DBL, FACW, o		3	(A)
2.					Total Num	ber of Domina		<u> </u>	(^)
 3.						cross All Stra		3	(B)
4.					-				(D)
	 Total Cover	: 0				Dominant Sp DBL, FACW, c		100%	(A/B)
			•						`_`
Shrub Stratum						e Index Wor	ksheet:		
1					-	% Cover of:		Multiply by:	
2.					OBL speci		x1 =	0	
3.					FACW spe		x2 =	0	
4. -			·		FAC speci		x3 =	0	
5	Total Cover				FACU spe		x4 =	0	
Jord Ctrature	Total Cover	: 0	•		UPL speci		x5 =	0	(D)
Herb Stratum		30	Υ	□FAC□	Column To	nce Index = B	(A)	U	(B)
 Lolium perenne Alopecurus pratensis 		40	·	#AC□	Flevalei	ice index – b	/A		
B. Ranunculus repens		20	·	#AC□	Hydronhy	tic Vegetatio	n Indicator	e•	
4. Rumex crispus		10	· <u> </u>	FAC□		_		s. nytic Vegetation	1
5.						? - Dominance			ı
5. 5.						B - Prevalence			
7.								ion1 (Provide s	upporting
2							-	eparate sheet)	pp=g
	_					5 - Wetland No			
								/egetation ¹ (Ex	plain)
 1.							, [,	(=-1	,
	Total Cover	: 100							
Woody Vine Stratum			•		¹ Indicators	of hydric soil	and wetlan	d hydrology mu	ıst
1					be present	t, unless distu	rbed or prol	olematic.	
2					Hydrophy	tic			
	Total Cover		•		Vegetatio				
% Bare Grou	nd in Herb Stratum <u>0</u> %	Cover of B	iotic Crust	0	Present?		Yes_	No	

	scription: (Describe	to the dep	oth needed to	document t	he indicate	or or con	firm the abs	sence of indicators	s.)	
Depth	Matrix			Redox Feat	ures					
(inches)	Color (moist)	%	Color (moist) %	Type ¹	Loc ²	Texture	<u> </u>	Remarks	
0-9	10 YR 3/2	100					SiL			
9-12	10 YR 3/2	95	10YR3/3	5	C	M	SiL			
12-16	10YR3/2	95	10YR3/4	5	<u>C</u>	<u>M</u>	SiL			
Type: C=0	Concentration, D=Dep	letion, RM=	=Reduced Mat	rix, CS=Cov	ered or Coa	ated Sand	d Grains. ² L	ocation: PL=Pore L	ining, M=Matrix.	
 Hydric Soi	I Indicators: (Application	able to all	LRRs, unless	otherwise	noted.)		Indicators	s for Problematic H	ydric Soils ³ :	
Histos	sol (A1)		San	dy Redox (S	55)			2 cm Muck (A	-	
— Histic	Epipedon (A2)			oped Matrix	-			Red Parent M	•	
— Black	Histic (A3)			my Mucky M	` '	(except l	MLRA 1)	Other (Explain		
	gen Sulfide (A4)			my Gleyed N	` '	•	,		,	
	ted Below Dark Surfac	ce (A11)		leted Matrix	-					
	Dark Surface (A12)	, ,		lox Dark Sur	` '		³ Indic	cators of hydrophytic	vegetation and	
 Sandy	Muck Mineral (S1)		<u>——</u> Dep	leted Dark S	Surface (F7))	we	tland hydrology mus	st be present,	
 Sandy	gleyed Matrix (S4)		Red	lox Depressi	ons (F8)		u	ınless disturbed or p	roblematic.	
Restrictive	Layer (if present):									
Гуре:										
Depth (inch	es):					Ну	dric Soil Pre	esent?	Yes No	o <u>x</u>
Depth (inchemarks:						Ну	dric Soil Pre	esent?	Yes No	o <u>x</u>
Depth (inchemarks:						Нус	dric Soil Pre			
Depth (inchemarks: 'DROLOG' Wetland H Primary Inc	Y ydrology Indicators: licators (any one indicators		· · · · · · · · · · · · · · · · · · ·				dric Soil Pre	Secondary Indi	cators (2 or more re	equired)
Depth (inchemarks: DROLOG Wetland H Primary Income	Y ydrology Indicators: licators (any one indicators (A1)		Wat	ter-Stained L	, ,		dric Soil Pre	Secondary Indi Water-Stained	cators (2 or more re	equired
Depth (inchemarks: DROLOG Wetland H Primary Inco X Surfac High	ydrology Indicators: licators (any one indicators (A1) Water Table (A2)		Wat	ILRA 1, 2, 4	A and 4B)		dric Soil Pre	Secondary Indi Water-Stained 4A and 4B	cators (2 or more red Leaves (B9) (MLR	equired
OPPTIMENT OF THE PRIME SURFACE Metland H Primary Inc X Surface High N Satura	ydrology Indicators: licators (any one indicators (A1) Water Table (A2) ation (A3)		Wat N Salt	ILRA 1, 2, 4 Crust (B11)	A and 4B)	(except	dric Soil Pre	Secondary Indi Water-Stained 4A and 4B Drainage Patt	cators (2 or more red Leaves (B9) (MLR 3) erns (B10)	equired
Primary Inc. X Surfac High V Satura Water	ydrology Indicators: licators (any one indicators (A1) Water Table (A2) ation (A3)		Wat Salt Aqu	ILRA 1, 2, 4 Crust (B11) atic Inverteb	A and 4B) orates (B13)	(except	dric Soil Pre	Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V	cators (2 or more red Leaves (B9) (MLR 3) erns (B10) Vater Table (C2)	equired
Primary Inc. X Surface High V Satura Water Sedim	ydrology Indicators: licators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2)		Wat Salt Aqu Hyd	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid	A and 4B) orates (B13) e Odor (C1	(except		Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V Saturation Vis	cators (2 or more red Leaves (B9) (MLR 3) erns (B10) Vater Table (C2) sible on Aerial Image	equired
Primary Inc X Surfac High \ Satura Water Sedim Drift E	ydrology Indicators: licators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2)		Wat Salt Aqu Hyd Oxio	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid dized Rhizos	A and 4B) orates (B13) e Odor (C1) epheres alor	(except		Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F	cators (2 or more red Leaves (B9) (MLR 8) erns (B10) Vater Table (C2) sible on Aerial Image	equired
Primary Inc. X Surfac. High Vater Sedim Drift E Algal	ydrology Indicators: licators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4)		Wate Wate No. 10	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid dized Rhizos sence of Rec	A and 4B) prates (B13) e Odor (C1) pheres alor duced Iron	(except)) ng Living (C4)	Roots (C3)	Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit	cators (2 or more red Leaves (B9) (MLRS) erns (B10) Vater Table (C2) sible on Aerial Image Position (D2) ard (D3)	equired
Depth (inchemarks: (DROLOG) Wetland H Primary Inco X Surfact High V Satura Water Sedim Drift D Algal Iron D	ydrology Indicators: licators (any one indicators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)		Wat N Salt Aqu Hyd Oxid	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid dized Rhizos sence of Recent Iron Rec	A and 4B) prates (B13) e Odor (C1 pheres alor duced Iron duction in P	(except)) ng Living (C4) lowed Soi	Roots (C3)	Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	cators (2 or more red Leaves (B9) (MLR B) erns (B10) Vater Table (C2) sible on Aerial Image Position (D2) ard (D3) Fest (D5)	equired
CDEPTH (INCEPTED CONTROL CONTROL	ydrology Indicators: licators (any one indicators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) deposits (B5) de Soil Cracks (B6)	ator is suffi	Wat Wat Note: The second sec	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid dized Rhizos sence of Recent Iron Recented or Stress	A and 4B) prates (B13) e Odor (C1) pheres alor duced Iron duction in Passed Plants	(except)) ng Living (C4) lowed Soi (D1) (LR	Roots (C3)	Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	cators (2 or more red Leaves (B9) (MLRs) erns (B10) Vater Table (C2) sible on Aerial Image Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A)	equired
Primary Inc. X Surfac Water Satura Water Sedim Drift D Algal Iron D Surfac	ydrology Indicators: licators (any one indicators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Deposits (B5) Deposits (B6) Deposits (B6)	ator is suffi	Wat Wat Wat Wat Wat	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid dized Rhizos sence of Recent Iron Rec	A and 4B) prates (B13) e Odor (C1) pheres alor duced Iron duction in Passed Plants	(except)) ng Living (C4) lowed Soi (D1) (LR	Roots (C3)	Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	cators (2 or more red Leaves (B9) (MLR B) erns (B10) Vater Table (C2) sible on Aerial Image Position (D2) ard (D3) Fest (D5)	equired
Primary Inc. X Surfac Water Satura Water Sedim Drift D Algal Iron D Surfac	ydrology Indicators: licators (any one indicators (any one indicators (any one indicators (any one indicators (any one indicator) (and indicators) (and indicators) (and indicators) (and indicators) (any one indicators) (any	ator is suffi	Wat Wat Wat Wat Wat	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid dized Rhizos sence of Recent Iron Recented or Stress	A and 4B) prates (B13) e Odor (C1) pheres alor duced Iron duction in Passed Plants	(except)) ng Living (C4) lowed Soi (D1) (LR	Roots (C3)	Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	cators (2 or more red Leaves (B9) (MLRs) erns (B10) Vater Table (C2) sible on Aerial Image Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A)	equired A 1, 2,
Primary Inc. X Surfact Water Satura Water Sedim Drift D Algal Iron D Surfact Inund Spars	ydrology Indicators: licators (any one indicators (any one indicators (any one indicators (any one indicators (any one indicator) (and indicators) (and indicators) (and indicators) (and indicators) (any one indicators) (any	Imagery (Eve Surface	Wat Wat N Wat N Wat N Wat N Wat N Wat N Wat N Wat Wat Wat N Wat Wat Wat Wat N Wat Wa	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid dized Rhizos sence of Recent Iron Recented or Stres er (Explain in	A and 4B) prates (B13) e Odor (C1) pheres alor duced Iron eluction in Persed Plants in Remarks) (b):0	(except)) ng Living (C4) lowed Soi (D1) (LR	Roots (C3)	Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	cators (2 or more red Leaves (B9) (MLRs) erns (B10) Vater Table (C2) sible on Aerial Image Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A)	equired
Primary Inc X Surfac Water Sedim Drift D Algal Iron D Surfac Spars Field Obse Water table	ydrology Indicators: licators (any one indicators (any one indicators)) Marks (B1) Marks (B1) Marks (B1) Marks (B3) Mat or Crust (B4) Mat or Crust (B4) Mat or Crust (B4) Mat or Crust (B6)	Imagery (Eve Surface	Wat Wat Wat Wat Wat Wat No Wat Wat No Wat	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid dized Rhizos sence of Recent Iron Recented or Stres er (Explain in	A and 4B) orates (B13) e Odor (C1) spheres aloreduced Iron of duction in Presed Plants in Remarks)):0):0	(except)) ng Living (C4) lowed Soi (D1) (LR	Roots (C3) ils (C6) R A)	Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant Mo	cators (2 or more red Leaves (B9) (MLR) I) Perns (B10) Vater Table (C2) Sible on Aerial Image Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A) Hummocks (D7)	equired A 1, 2,
Primary Inc. X Surface Water Sedim Drift D Algal Iron D Surface Inund Spars Field Obse Surface Water table Saturation	ydrology Indicators: licators (any one indicators (any one indicat	Imagery (Eve Surface	Wat Wat Wat Wat Wat Wat No Wat Wat No Wat	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid dized Rhizos sence of Recent Iron Recented or Stres er (Explain in	A and 4B) orates (B13) e Odor (C1) spheres aloreduced Iron of duction in Presed Plants in Remarks)):0):0	(except)) ng Living (C4) lowed Soi (D1) (LR	Roots (C3) ils (C6) R A)	Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral	cators (2 or more red Leaves (B9) (MLR) I) Perns (B10) Vater Table (C2) Sible on Aerial Image Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A) Hummocks (D7)	equired)
CDROLOG Wetland H Primary Inc X Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac Inund Spars Field Obse Surface Water table Saturation of	ydrology Indicators: licators (any one indicators (any one indicators)) Marks (B1) Marks (B1) Marks (B1) Marks (B3) Mat or Crust (B4) Mat or Crust (B4) Mat or Crust (B4) Mat or Crust (B6)	Imagery (Eve Surface	Wat N N Salt N Salt Sal	ILRA 1, 2, 4 Crust (B11) atic Inverteb rogen Sulfid dized Rhizos sence of Recent Iron Recent Iron Recented or Stres er (Explain in	A and 4B) prates (B13) e Odor (C1) pheres aloreduced Iron eluction in Plased Plants in Remarks) (): 0 (): 0 ():	(except)) ng Living (C4) lowed Soi (D1) (LR	Roots (C3) ils (C6) R A) Wetland Hy	Secondary Indi Water-Stained 4A and 4B Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral Raised Ant Me Frost-Heave F	cators (2 or more red Leaves (B9) (MLR) I) Perns (B10) Vater Table (C2) Sible on Aerial Image Position (D2) ard (D3) Test (D5) ounds (D6) (LRR A) Hummocks (D7)	equired A 1, 2,

Project/Site:	1220 9th St			City/County:	: West Linn/	Clackama	ıs		_ Sam	npling Da	ite: <u>Jan</u>	.3, 2022
Applicant/Owner:	Icon Construction a	nd Development					State: _	OR	Sam	npling Po	int:	
Investigator(s):	JRF				n, Township,							
` .	e, terrace, etc.):	Terrace			elief (concave		_					
	Northwest Forests a	•	<u>v)</u> Lat:		45.342				22.6478	314941	Datu	m: <u>0-2%</u>
Soil Map Unit Nam			41-i- 4i f					ssification:			. D	I\
-	ologic conditions on t			-			-	roumatana		explain ir		•
Are Vegetation Are Vegetation	, Soil , Soil							rcumstand Iain any ar				NOX
Are vegetation	, 3011	, or rivarology		Tiaturally pr	obiematic:	(II IIee	иеи, ехр	iaiii aiiy ai	isweis ii	ii ixeman	NS.)	
SUMMARY OF	FINDINGS - Att	ach site map	showing	sampling —	point loca	tions, tr	ansect	ts, impo	rtant fe	eatures	s, etc.	
Hydrophytic Veget	ation Present?	Yes <u>x</u> N	0	le the S	ampled Area							
Hydric Soil Presen	t?	YesN	o <u>x</u>		ampied Area a Wetland?		Yes _		No_	х		
Wetland Hydrology	y Present?	Yes <u>x</u> N	0									
Hydrology well abo	ove normal with recor	d rainfall occurrin	g the day of	the site visit.								
VEGETATION						Damina.	T		-4-			
			Absolute % Cover	Dominant Species?	Indicator Status?			t workshe nant Speci				
,	se scientific names.)			-				ACW, or F				(4)
								Dominant	_		2	(A)
2 3.				-	- —			All Strata:			2	(B)
3 4.									_		<u> </u>	— ^(B)
		Total Cove	r: 0					nant Specie ACW, or F		10	0%	(A/B)
Shrub Stratum					-	Prevalei	nce Inde	x Worksh	eet:			
1						Tot	al % Cov	er of:		Multip	oly by:	
2						OBL spe	cies		_x1 =	()	
3						FACW s			_x2 =)	_
4						FAC spe	-		_x3 =)	
5							-				<u> </u>	_
		Total Cove	r: <u> </u>	-		UPL spe	-		_x5 =		<u> </u>	
Herb Stratum			40	V	□FAC□		_	0)	(B)
 Schedonorus a Alopecurus pra 			<u>40</u> 20	- Y		Prevai	ence ind	ex = B/A =				<u> </u>
 Alopecurus pre Ranunculus re 		-	10	·	#AC□	Hydronk	vtic Vec	getation Ir	dicator	e•		
4. Rumex crispus	•	_	5		— □FAC□	Пушорі		d Test for			etation	
5.	<u>, </u>							inance Te			otation	
6								alence Inc				
7.							4 - Morp	phological	Adaptati	ion1 (Pro	vide sup	porting
8.							data in l	Remarks c	r on a s	eparate :	sheet)	
9.							5 - Wetl	and Non-\	/ascular	Plants ¹		
10.							Problem	natic Hydro	phytic \	/egetatio	n¹ (Expl	ain)
11		_										
		Total Cove	r: <u>75</u>	<u>.</u>								
Woody Vine S	<u>tratum</u>						•	lric soil and s disturbe		•	-	t
2.						Hydroph	nvtic					
		Total Cove	r: <u> </u>	_		Vegetati	•					
					_							
% Ba	are Ground in Herb St	tratum <u>25</u> %	Cover of B	iotic Crust	0	Present	?		Yes_	Х	No	

SOIL											Sampling Poir			3
Profile Des	scription: (Describe	to the de	pth needed	to doc	ument th	ne indicat	or or c	onf	irm the ab	sence of	indicators.)			
Depth	Matrix			Red	dox Featu									
(inches)	Color (moist)	<u>%</u>	Color (m	oist)	%	Type ¹	Loc ²		Textu	<u>e</u>		Remarks		
0-7	10 YR 3/2	100							SiL					
7-12	10 YR 3/2	98	10YR3		2	C	M		SiL					
12-16	10YR3/2	85	10YR3	3/4	15	C	M	_	SiL					
								_ _		:				
¹ Type: C=0	 Concentration, D=Dep	letion, RM	1=Reduced	Matrix,	CS=Cove	red or Co	ated Sa	 and	Grains. ²	Location:	PL=Pore Lin	ning, M=Matrix	.	
•	Il Indicators: (Applica	able to al	•		h erwise r Redox (S5	•			Indicator		blematic Hyo			
— Histic	Epipedon (A2)			•	d Matrix (•					d Parent Mat	•		
Black	Histic (A3)			Loamy	Mucky Mi	neral (F1)	(excep	pt N	ILRA 1)	Oth	ner (Explain i	n Remarks)		
Hydro	ogen Sulfide (A4)		<u> </u>	Loamy	Gleyed M	atrix (F2))							
Deple	eted Below Dark Surfac	ce (A11)		Deplete	d Matrix ((F3)								
Thick	Dark Surface (A12)			Redox I	Dark Surfa	ace (F6)			³ Indi	icators of l	hydrophytic v	egetation and		
Sandy	y Muck Mineral (S1)			Deplete	d Dark Su	urface (F7	')		W	etland hyd	Irology must	be present,		
Sandy	y gleyed Matrix (S4)			Redox I	Depressio	ns (F8)				unless dis	turbed or pro	oblematic.		
Restrictive	Layer (if present):													
Type:														
Depth (inch	nes):							Нус	Iric Soil Pı	resent?	Υ	'es	No _	Х
Remarks:														
HYDROLOG	Y													
Wetland H	ydrology Indicators:													
Primary Inc	dicators (any one indic	ator is su	fficient)							Sec	ondary Indica	ators (2 or mo	re requ	ired)
Surfa	ce Water (A1)			Water-S	Stained Le	eaves (B9) (exce	pt		Wa	ater-Stained I	Leaves (B9) (I	MLRA '	1, 2,
x High	Water Table (A2)			MLR	A 1, 2, 4A	and 4B)					4A and 4B)			
Satura	ation (A3)			Salt Cru	ust (B11)					Dra	ainage Patter	ns (B10)		
Water	r Marks (B1)			Aquatic	Invertebr	ates (B13	3)			Dry	/-Season Wa	ater Table (C2)	
Sedim	nent Deposits (B2)			Hydroge	en Sulfide	Odor (C	1)			Sa	turation Visib	le on Aerial Ir	nagery	(C9)
Drift D	Deposits (B3)			Oxidize	d Rhizosp	heres alc	ng Livir	ng F	Roots (C3)	Ge	omorphic Po	sition (D2)		
	Mat or Crust (B4)				ce of Red		` '				allow Aquitar	. ,		
	Deposits (B5)				Iron Redu				` '		C-Neutral Te			
	ce Soil Cracks (B6)	_			or Stress		. , .	LRF	R A)			unds (D6) (LR	-	
	ation Visible on Aerial	• •	` ' ——	Other (I	Explain in	Remarks)			Fro	st-Heave Hu	ımmocks (D7)		
	sely Vegetated Concav	e Surface	e (B8)											
Field Obse			No. v	Danth	, (in ab a a)									
Water table	ater Present? Yes e Present? Yes		No x No		n (inches) n (inches)									
Saturation			No	-	i (inches)				Wetland H	Hydrology	Present?	Yes X	_No	
•	apillary fringe)													
Describe Red	corded Data (stream ga	auge, mo	nitoring well	l, aerial	photos, p	revious in	spectio	ns)	, if availabl	e:				
 Remarks: Ab	ove average recent pro	ecipitation	n and water	year.										

Project/Site:	1220 9th St			City/County:	: West Linn/0	Clackama	IS	S	ampling Da	ite: <u>Jan.3</u>	3, 2022
Applicant/Owner:	Icon Construction ar	nd Development					State: OR	<u>. </u>	ampling Po	oint:	4
Investigator(s):	JRF			Sectio	on, Township,	Range:	2A, T3S, R	R1E			
Landform (hillslope	, terrace, etc.):	Terrace		_ Local re	elief (concave	e, convex	, none): <u>nor</u>	ne		Slope (%):	: 0-3%
Subregion (LRR):	Northwest Forests a	nd Coast (LRR A)	Lat:		45.342	270722	Long:	-122.6	48750364	Datum	n: <u>0-2%</u>
Soil Map Unit Name	e: Cloquato silt	loam				1	NWI Classif	ication: none	е		
Are climatic / hydro	ologic conditions on th	e site typical for t	nis time of	year?	Yes	Χ	No	(If n	o, explain ii	n Remark	s)
Are Vegetation	, Soil	, or Hydrology		significantly	/ disturbed?	Are "N	ormal Circu	ımstances" P	resent?	Yes	_No _x
Are Vegetation	, Soil	, or Hydrology		naturally pr	oblematic?	(If nee	ded, explair	n any answer	s in Remar	ks.)	
SUMMARY OF	FINDINGS - Atta	ach site map s	showing	sampling	point locat	tions, tr	ansects,	important	features	s, etc.	
Hydrophytic Vegeta	ation Present?	Yes x No)	1							
Hydric Soil Present	?	Yes No	X		ampled Area a Wetland?	l	Yes	No	x		
Wetland Hydrology	Present?	Yes x No		Within	a welland:						
Hydrology well abo	ve normal with record	raintail occurring	the day of	the site visit.							
VEGETATION											
			Absolute	Dominant	Indicator	Domina	nce Test w	orksheet:			
Tree Stratum (Us	se scientific names.)		% Cover	Species?	Status?		of Dominan				
1						That Are	OBL, FAC	W, or FAC:	;	3	_ (A)
2							mber of Doi				
3						Species	Across All S	Strata:	;	3	_(B)
4		Total Cover:	0				of Dominan OBL, FAC\	•	10	0%	_(A/B)
								A/ 1 1 4			
Shrub Stratum			10	V	ŒAC□		nce Index v al % Cover	Norksheet:	N.A 14:	ما دا دا د	
 Rubus armenia 2. 	acus		10	<u> </u>		OBL spe		<u>σι:</u> x1 =		oly by: 0	_
3.					- —	FACW s		x1 = x2 =		<u> </u>	_
4.						FAC spe		^2 = x3 =		<u> </u>	_
5.						FACU sp		x3 = x4 =		<u> </u>	_
·		Total Cover:	10			UPL spe		x- x5 =		0	_
Herb Stratum						•	Totals:	0 (A)		<u> </u>	— (B)
1. Schedonorus a	arundinaceus		70	Υ	□FAC□		ence Index	- D/A -		_	- ` ′
2. Agrostis capilla			25	Y							_
3. Ranunculus rej	pens		5			Hydroph	ytic Veget	ation Indicat	tors:		
4.							1 - Rapid T	Test for Hydro	ophytic Veg	etation	
5						X	2 - Domina	ance Test is >	>50%		
6							3 - Prevale	ence Index is	≤3.0 ¹		
7							4 - Morpho	ological Adap	tation1 (Pro	ovide supp	porting
8.								marks or on a	•	sheet)	
9								d Non-Vascu			
10							Problemati	ic Hydrophyti	c Vegetatio	n¹ (Explai	in)
11											
		Total Cover:	100			1					
Woody Vine St 1.	<u>ratum</u>						•	soil and wetl listurbed or p	•	0.	
2.						Hydroph					
		Total Cover:	0			Vegetati	•				
% Ba	re Ground in Herb Str	atum <u>0</u> %	Cover of Bi	otic Crust	0	Present	?	Yes	X	No	

OIL			th pooded to d	ocument t	he indicato			anaa of indias		
Profile Des	cription: (Describe	to the dep	in needed to d	ocument t	ne maicato	or con	firm the abs	ence or maica	ators.)	
Depth	Matrix		F	Redox Feat	ures					
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-16	10 YR 3/2	100	, ,				SiL			
				_						
						,				
Type: C=0	Concentration, D=De	oletion, RM	=Reduced Matri	x, CS=Cove	ered or Coa	ed Sand	d Grains. ² Lo	ocation: PL=P	ore Lining, M=Matr	ix.
Judria Sai	Indicators: (Appli	cable to all	I DDs unloss	othorwiso	noted)		Indicators	for Problems	tic Hydric Soils ³ :	
•	ol (A1)	cable to all		y Redox (S	•		iliuicators	2 cm Muc	•	
	Epipedon (A2)			ed Matrix (•		-		ent Material (TF2)	
	Histic (A3)				ineral (F1) (evcent	MIRA1)		kplain in Remarks)	
	gen Sulfide (A4)			y Mucky M y Gleyed M	, , ,	схоорг	WIENA 1) _	Other (E)	(piaiii iii itemaiks)	
	ted Below Dark Surfa	ace (Δ11)		ted Matrix	, ,					
	Dark Surface (A12)	ice (ATT)		x Dark Surl	, ,		³ Indic:	ators of hydron	hytic vegetation an	nd
	Muck Mineral (S1)				Surface (F7)			• •	must be present,	iu
	gleyed Matrix (S4)			x Depressi					d or problematic.	
	Layer (if present):			. Вергесси		1			a or problematic.	
	Layor (ii procont).									
	es).					Hv	dric Soil Pre	sent?	Yes	No
Depth (inch	es):					Ну	dric Soil Pre	sent?	Yes	No
Depth (inch						Ну	dric Soil Pre	sent?	Yes	No
Depth (inchemarks:	Υ					Ну	dric Soil Pre	sent?	Yes	No
Depth (inch marks: DROLOG'	Y ydrology Indicators		icient)			Ну	dric Soil Pre			
Depth (inch marks: DROLOG' Vetland Hy Primary Ind	Y ydrology Indicators icators (any one indi			r-Stained I	eaves (B9)		dric Soil Pre	Secondary	/ Indicators (2 or m	ore require
Depth (inch marks: DROLOG' Vetland Hy Primary Ind Surface	ydrology Indicators icators (any one indice be Water (A1)		Wate		eaves (B9)		dric Soil Pre	Secondary Water-St	∕ Indicators (2 or mo	ore require
DROLOGY Vetland Hy Surfac x High V	ydrology Indicators icators (any one indice Water (A1) Vater Table (A2)		Wate	.RA 1, 2, 4	A and 4B)		dric Soil Pre	Secondary Water-St	/ Indicators (2 or mained Leaves (B9)	ore require
DROLOG' Vetland Hy Surface X High V	ydrology Indicators icators (any one indice Water (A1) Vater Table (A2) ation (A3)		Wate MI Salt (. RA 1, 2, 4 Crust (B11)	A and 4B)		dric Soil Pre	Secondary Water-St. 4A an Drainage	r Indicators (2 or mo ained Leaves (B9) d 4B) Patterns (B10)	ore require (MLRA 1, 2
DROLOGY Vetland Hy Surface X High V Satura Water	ydrology Indicators icators (any one indice Water (A1) Vater Table (A2) ation (A3) Marks (B1)		Wate MI Salt (. RA 1, 2, 4 Crust (B11) tic Inverteb	A and 4B)		dric Soil Pre	Secondary Water-St 4A an Drainage Dry-Seas	v Indicators (2 or mained Leaves (B9) d 4B) Patterns (B10) son Water Table (C	ore require (MLRA 1 , 2
DROLOGY Vetland Hy Surface X High V Satura Water Sedim	ydrology Indicators icators (any one indice Water (A1) Vater Table (A2) ation (A3) Marks (B1) ient Deposits (B2)		Wate MI Salt (Aqua	.RA 1, 2, 4, Crust (B11) tic Inverteb ogen Sulfide	A and 4B) rates (B13) e Odor (C1)	except		Secondary Water-St. 4A an Drainage Dry-Seas Saturation	r Indicators (2 or mo ained Leaves (B9) d 4B) Patterns (B10) son Water Table (C n Visible on Aerial	ore require (MLRA 1 , 2
DROLOGY Vetland Hy Surface X High V Satura Water Sedim Drift D	ydrology Indicators icators (any one indice Water (A1) Vater Table (A2) ation (A3) Marks (B1) tent Deposits (B2)		Wate MI Salt (Aqua Hydro	RA 1, 2, 4, Crust (B11) tic Inverteb ogen Sulfide zed Rhizos	A and 4B) rates (B13) e Odor (C1) pheres alon	(except		Secondary Water-St. 4A an Drainage Dry-Seas Saturation Geomorp	v Indicators (2 or mained Leaves (B9) d 4B) Patterns (B10) son Water Table (Con Visible on Aerial whic Position (D2)	ore require (MLRA 1 , 2
Depth (inch marks: DROLOGY Wetland Hy Primary Ind Surfact X High W Satura Water Sedim Drift D Algal I	ydrology Indicators icators (any one indice Water (A1) Vater Table (A2) ation (A3) Marks (B1) ent Deposits (B2) deposits (B3) Mat or Crust (B4)		Wate MI Salt (Aqua Hydro Oxidi Prese	RA 1, 2, 4, 2, 4, 2, 2, 3, 4, 2, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	A and 4B) rates (B13) e Odor (C1) pheres alon duced Iron (0	g Living		Secondary Water-St. 4A an Drainage Dry-Seas Saturation Geomorp Shallow A	r Indicators (2 or monained Leaves (B9) d 4B) Patterns (B10) son Water Table (C n Visible on Aerial whic Position (D2) Aquitard (D3)	ore require (MLRA 1 , 2
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Depth (inch marks: DROLOGY Wetland Hy Primary Ind Surfact X High V Satura Water Sedim Drift D Algal I Iron D Surfact	ydrology Indicators icators (any one indice Water (A1) Vater Table (A2) ation (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ce Soil Cracks (B6)	cator is suff	Wate MI Salt (Aqua Hydro Oxidi Preso Rece Stunt	RA 1, 2, 4, 2, 4, 2, 2, 3, 4, 2, 4, 4, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,	A and 4B) rates (B13) e Odor (C1) pheres alon duced Iron (0 luction in Plo	g Living C4)	Roots (C3) ils (C6)	Secondary Water-St. 4A an Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A	r Indicators (2 or mained Leaves (B9) d 4B) Patterns (B10) con Water Table (C n Visible on Aerial phic Position (D2) Aquitard (D3) atral Test (D5) at Mounds (D6) (L1	ore require (MLRA 1 , 2 2) Imagery (C
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Depth (inch marks: Depth (inch marks: DROLOGY Wetland Hy Primary Ind Surface Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse Surface Water table Saturation I	ydrology Indicators icators (any one indicators (any one indicators (A1) Vater Table (A2) ation (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ce Soil Cracks (B6) ation Visible on Aeria ely Vegetated Conca rvations: ater Present? Yee Present? Yee Present? Yee	I Imagery (Ive Surface	Wate MI Salt (Aqua Hydro Oxidi Prese Rece Stunt Other (B8) Salt (De De De	RA 1, 2, 4, 2, 4, 2, 2, 3, 4, 2, 4, 2, 4, 2, 4, 4, 2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	A and 4B) rates (B13) e Odor (C1) pheres alon duced Iron (0 luction in Plo sed Plants (n Remarks)):	g Living C4)	Roots (C3)	Secondary Water-St. 4A an Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A	r Indicators (2 or mained Leaves (B9) d 4B) Patterns (B10) con Water Table (Con Visible on Aerial whic Position (D2) Aquitard (D3) atral Test (D5) ant Mounds (D6) (L1) ave Hummocks (D7)	ore required (MLRA 1, 2 2) Imagery (C
CDROLOGY Wetland Hy Primary Ind Surface X High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse Surface Water table Saturation I (includes ca	ydrology Indicators icators (any one indicators (any one indicators) indicators (any one i	Il Imagery (Ive Surface	Wate MI Salt (Aqua Hydro Oxidi Prese Rece Stunt Other Stunt Other No	RA 1, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 4, 2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	rates (B13) e Odor (C1) pheres alon duced Iron (duction in Pla sed Plants (duced Plants) h Remarks) :	g Living C4) bwed So D1) (LR	Roots (C3) ils (C6) R A) - Wetland Hy	Secondary Water-St. 4A an Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A Frost-Hea	r Indicators (2 or mained Leaves (B9) d 4B) Patterns (B10) con Water Table (Con Visible on Aerial whic Position (D2) Aquitard (D3) atral Test (D5) ant Mounds (D6) (L1) ave Hummocks (D7)	ore required (MLRA 1, 2 2) Imagery (C
CDROLOGY Wetland Hy Primary Ind Surface X High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse Surface Water table Saturation I (includes ca	ydrology Indicators icators (any one indicators (any one indicators (A1) Vater Table (A2) ation (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) ce Soil Cracks (B6) ation Visible on Aeria ely Vegetated Conca rvations: ater Present? Yee Present? Yee Present? Yee	Il Imagery (Ive Surface	Wate MI Salt (Aqua Hydro Oxidi Prese Rece Stunt Other Stunt Other No	RA 1, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 4, 2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	rates (B13) e Odor (C1) pheres alon duced Iron (duction in Pla sed Plants (duced Plants) h Remarks) :	g Living C4) bwed So D1) (LR	Roots (C3) ils (C6) R A) - Wetland Hy	Secondary Water-St. 4A an Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A Frost-Hea	r Indicators (2 or mained Leaves (B9) d 4B) Patterns (B10) con Water Table (Con Visible on Aerial whic Position (D2) Aquitard (D3) atral Test (D5) ant Mounds (D6) (L1) ave Hummocks (D7)	ore required (MLRA 1, 2 2) Imagery (C
Primary Ind Surface X High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse Surface Water table Saturation I (includes catescribe Received)	ydrology Indicators icators (any one indicators (any one indicators) indicators (any one i	Il Imagery (Ive Surface S X gauge, mon	Wate MI Salt (Aqua Hydro Oxidi Prese Rece Stunt Other (B8)	RA 1, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 4, 2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	rates (B13) e Odor (C1) pheres alon duced Iron (duction in Pla sed Plants (duced Plants) h Remarks) :	g Living C4) bwed So D1) (LR	Roots (C3) ils (C6) R A) - Wetland Hy	Secondary Water-St. 4A an Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A Frost-Hea	r Indicators (2 or mained Leaves (B9) d 4B) Patterns (B10) con Water Table (Con Visible on Aerial whic Position (D2) Aquitard (D3) atral Test (D5) ant Mounds (D6) (L1) ave Hummocks (D7)	ore required (MLRA 1, 2 2) Imagery (C
Primary Ind Surface X High V Satura Water Sedim Drift D Algal I Iron D Surface Inunda Spars Field Obse Surface Water table Saturation I (includes calescribe Rece	ydrology Indicators icators (any one indicators (any one indicators (A1) Vater Table (A2) Ation (A3) Marks (B1) Ation Deposits (B2) Ation Crust (B4) Ation Crust (B4) Ation Visible on Aeria Ation Visible on Aeria Ation Visible on Aeria Ation Present? Atter Prese	Il Imagery (Ive Surface S X gauge, mon	Wate MI Salt (Aqua Hydro Oxidi Prese Rece Stunt Other (B8)	RA 1, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 2, 4, 4, 2, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	rates (B13) e Odor (C1) pheres alon duced Iron (duction in Pla sed Plants (duced Plants) n Remarks) :	g Living C4) bwed So D1) (LR	Roots (C3) ils (C6) R A) - Wetland Hy	Secondary Water-St. 4A an Drainage Dry-Seas Saturation Geomorp Shallow A FAC-Neu Raised A Frost-Hea	r Indicators (2 or mained Leaves (B9) d 4B) Patterns (B10) con Water Table (Con Visible on Aerial whic Position (D2) Aquitard (D3) atral Test (D5) ant Mounds (D6) (L1) ave Hummocks (D7)	ore required (MLRA 1, 2 2) Imagery (C

Project/Site:	1220 9th St			City/County:	: West Linn/	Clackamas			_ San	npling Date:	Jan.3, 2022
Applicant/Owner:	Icon Construction a	and Development				Sta	ate: O	R	_ San	npling Point:	
Investigator(s):	JRF			_ Sectio	n, Township	, Range: <u>2A</u>	A, T3S,	R1E			
Landform (hillslope	e, terrace, etc.):	Terrace		_			one): <u>nc</u>	one		Slop	e (%): <u>0-3%</u>
	Northwest Forests	•	<u>)</u> Lat:		45.342		.ong:		122.648	766270 I	Datum: <u>0-2%</u>
Soil Map Unit Nam								ification:			
-	ologic conditions on t			-	_					explain in Re	•
Are Vegetation	, Soil										Nox
Are Vegetation	, Soil	, or Hydrology		naturally pro	oblematic?	(If needed	d, expla	ın any a	nswers I	n Remarks.)	
SUMMARY OF	FINDINGS - Att	tach site map	showing	sampling	point loca	itions, tran	sects	, impo	rtant fo	eatures, e	tc.
Hydrophytic Veget	ation Present?	Yes x No	0								
Hydric Soil Presen		Yes x No			ampled Area a Wetland?	a ,	Yes	X	No		
Wetland Hydrolog	y Present?	Yes x No	o	_	a Wetland:				_		-
Hydrology well abo	ove normal with recor	d rainfall occurring	the day of	the site visit.							
VEGETATION											
			Absolute	Dominant	Indicator	Dominance	e Test v	workshe	et:		
Tree Stratum (U	se scientific names.)		% Cover	Species?	Status?	Number of [
1						That Are OF	BL, FAC	۷۷, or F	AC:	2	(A)
2						Total Numb					
3						Species Acr	ross All	Strata:		2	(B)
4						Percent of D					
		Total Cover:	: 0			That Are OF	BL, FAC	CW, or F	AC:	100%	(A/B)
Charle Charles						Prevalence	la day	\A/ - = -			
<u>Shrub Stratum</u> 1.							: inaex % Cove		ieet:	Multiply b	DV:
2.						OBL specie		1 01.	 x1 =	0	/y.
3.					. ——	FACW species			 x2 =	0	
4.						FAC specie	_		x3 =	0	
5.					,	FACU speci			x4 =	0	
		Total Cover:	: 0			UPL species			x5 =	0	
Herb Stratum						Column Tot	als:	0	(A)	0	(B)
1. Schedonorus	orundinocous			V	TEAC -						
	arunumaceus		60	Y	ŒAC□	Prevalenc	ce Inde	x = B/A =	=		
2. Alopecurus pr			60 25	Y Y	#AC□	Prevalenc	ce Inde	x = B/A =			
	atensis			· — ·	- — —	Prevalence Hydrophyti				·s:	
3. Ranunculus re	atensis		25	· — ·	ŒAC□	Hydrophyti	ic Vege - Rapid	etation II Test for	ndicator Hydropl	hytic Vegetat	ion
3. Ranunculus re	atensis epens		25	· — ·	ŒAC□	Hydrophyti 1 2 -	ic Vege - Rapid - Domin	etation In Test for nance Te	ndicator Hydroplest is >50	hytic Vegetat 0%	ion
3. Ranunculus re4.5.6.	atensis epens		25	· — ·	ŒAC□	Hydrophyti 1 2 3 -	ic Vege - Rapid - Domin - Preval	etation II Test for nance Te	ndicator Hydroplest is >50 dex is ≤	hytic Vegetat 0% 3.0 ¹	
3. Ranunculus re 4. 5. 6.	atensis epens		25	· — ·	ŒAC□	Hydrophyti 1 2 3 4 -	ic Vege - Rapid - Domin - Preval - Morph	etation la Test for nance Te lence Ind	ndicator Hydroplest is >50 dex is ≤ Adaptat	hytic Vegetat 0% 3.0 ¹ ion1 (Provide	e supporting
3. Ranunculus re 4. 5. 6. 7.	atensis epens		25	· — ·	ŒAC□	Hydrophyti 1 3 4 da	ic Vege - Rapid - Domin - Preval - Morph	etation In Test for nance Te lence Ind nological emarks o	ndicator Hydropl est is >50 dex is ≤ Adaptat or on a s	hytic Vegetat 0% 3.0 ¹ iion1 (Provide separate shee	e supporting
3. Ranunculus re 4. 5. 6. 7. 8.	atensis epens		25	· — ·	ŒAC□	Hydrophyti 1 3 3 4 da 5 -	ic Vege - Rapid - Domin - Preval - Morph ita in Re	Test for nance Tealence Incomplete Incomplet	ndicator Hydroplest is >50 dex is ≤ Adaptat or on a s	hytic Vegetat 0% 3.0 ¹ ion1 (Provide eparate shee Plants ¹	e supporting et)
3. Ranunculus re 4. 5. 6. 7. 8. 9.	atensis epens		25 15	Y	ŒAC□	Hydrophyti 1 3 3 4 da 5 -	ic Vege - Rapid - Domin - Preval - Morph ita in Re	Test for nance Tealence Incomplete Incomplet	ndicator Hydroplest is >50 dex is ≤ Adaptat or on a s	hytic Vegetat 0% 3.0 ¹ iion1 (Provide separate shee	e supporting et)
3. Ranunculus re 4. 5. 6. 7. 8. 9.	atensis epens		25 15	Y	ŒAC□	Hydrophyti 1 3 3 4 da 5 -	ic Vege - Rapid - Domin - Preval - Morph ita in Re	Test for nance Tealence Incomplete Incomplet	ndicator Hydroplest is >50 dex is ≤ Adaptat or on a s	hytic Vegetat 0% 3.0 ¹ ion1 (Provide eparate shee Plants ¹	e supporting et)
3. Ranunculus re 4. 5. 6. 7. 8. 9.	atensis epens		25 15	Y	ŒAC□	Hydrophyti134da5Pro	ic Vege - Rapid - Domin - Preval - Morph ta in Re - Wetlan	etation In Test for nance Te lence Ind nological emarks on nd Non-V	ndicator Hydropl est is >50 dex is ≤ Adaptat or on a s Vascular ophytic \	hytic Vegetat 0% 3.0 ¹ ion1 (Provide eparate sheet Plants ¹ Vegetation ¹ (e supporting et) Explain)
3. Ranunculus re 4. 5. 6. 7. 8. 9. 10. 11.	atensis epens		25 15	Y	ŒAC□	Hydrophyti 1 3 4 da 5 Pro	ic Vege - Rapid - Domin - Preval - Morph ta in Re - Wetlan roblema	etation In Test for nance Te lence Ind nological emarks of nd Non-V	ndicator Hydropl est is >50 dex is ≤ Adaptat or on a s Vascular ophytic \	hytic Vegetat 0% 3.0 ¹ ion1 (Provide eparate sheet Plants ¹ Vegetation ¹ (e supporting et) Explain)
3. Ranunculus re 4. 5. 6. 7. 8. 9. 11. Woody Vine S	atensis epens		25 15	Y	ŒAC□	Hydrophyti 1 - X 2 - 3 - 4 - 6a 5 - Pro	ic Vege - Rapid - Domin - Preval - Morph ta in Re - Wetlan roblema	etation In Test for nance Te lence Ind nological emarks of nd Non-V	ndicator Hydropl est is >50 dex is ≤ Adaptat or on a s Vascular ophytic \	hytic Vegetat 0% 3.0 ¹ ion1 (Provide eparate sheet Plants ¹ Vegetation ¹ (e supporting et) Explain)
3. Ranunculus re 4. 5. 6. 7. 8. 9. 11. Woody Vine S	atensis epens	Total Cover:	25 15 	Y	ŒAC□	Hydrophyti 1 - X 2 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	ic Vege - Rapid - Domin - Preval - Morph ta in Re - Wetlan roblema	etation In Test for nance Te lence Ind nological emarks of nd Non-V	ndicator Hydropl est is >50 dex is ≤ Adaptat or on a s Vascular ophytic \	hytic Vegetat 0% 3.0 ¹ ion1 (Provide eparate sheet Plants ¹ Vegetation ¹ (e supporting et) Explain)
3. Ranunculus re 4. 5. 6. 7. 8. 9. 11. Woody Vine S 1. 2.	atensis epens	Total Cover:	25 15 100	Y	ŒAC□	Hydrophyti 1 - X 2 - 3 - 4 - 6a 5 - Pro	ic Vege - Rapid - Domin - Preval - Morph ta in Re - Wetlan roblema	etation In Test for nance Te lence Ind nological emarks of nd Non-V	ndicator Hydropl est is >50 dex is ≤ Adaptat or on a s Vascular ophytic \	hytic Vegetat 0% 3.0 ¹ ion1 (Provide eparate sheet Plants ¹ Vegetation ¹ (ad hydrology blematic.	e supporting et) Explain) must

	scription: (Describe	to the de	pth needed to doc	ument t	he indicate	or or co	nfirm t	he absence	e of indicators.)	
Depth	Matrix	10 1110 40	-	lox Featı		J. C. C.			o or maiouror,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	-	Texture	Remarks	
0-16	10 YR 3/2	85	10YR3/4	15	C	M	SiL	rexture	Remains	
0 10	10 111 0/2		101110/1				<u> </u>		-	
									-	
							_			
¹ Type: C=0	Concentration, D=Dep	oletion, RN	/=Reduced Matrix, 0	CS=Cove	ered or Coa	ated Sa	nd Grai	ns. ² Locati	ion: PL=Pore Lining, M=Matrix.	
Uhadaia Cai	l la dia stana . / A a a lia		II I DDa suniaga ath				l		Dualdamatia Huduia Caila ³ .	
-	I Indicators: (Applications)	cable to a	ii LRRS, uniess oth Sandy F		•		inai	cators for	Problematic Hydric Soils ³ : 2 cm Muck (A10)	
	Epipedon (A2)		Stripped	•	•				Red Parent Material (TF2)	
	Histic (A3)		 ··	`	ineral (F1)	(excen	· MI R Δ		Other (Explain in Remarks)	
	gen Sulfide (A4)			•	fatrix (F2)	(схоср			Other (Explain in Remarks)	
	ted Below Dark Surfa	ice (A11)	Deplete	-	. ,					
	Dark Surface (A12)	,			face (F6)			³ Indicators	s of hydrophytic vegetation and	
Sandy	/ Muck Mineral (S1)		Depleted	d Dark S	urface (F7)		wetland	I hydrology must be present,	
Sandy	gleyed Matrix (S4)		Redox E)epressio	ons (F8)			unles	s disturbed or problematic.	
Restrictive	Layer (if present):									
Type:										
	nes):					Н	ydric S	oil Presen	t? Yes x	No
Type: Depth (inch	nes):					н	ydric S	oil Presen	t? Yes <u>x</u>	No
Type: Depth (inch						н	ydric S	oil Presen	t? Yes x	No
Type: Depth (inch Remarks: HYDROLOG Wetland H	Y ydrology Indicators:					Н	ydric S			
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc	Y ydrology Indicators: licators (any one indic		,						Secondary Indicators (2 or more	required)
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc. x Surface	Y ydrology Indicators: licators (any one indic ce Water (A1)		Water-S		eaves (B9)				Secondary Indicators (2 or more Water-Stained Leaves (B9) (M	required)
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High (Y ydrology Indicators: licators (any one indic ce Water (A1) Water Table (A2)		Water-S	A 1, 2, 4	A and 4B)				Secondary Indicators (2 or more Water-Stained Leaves (B9) (M 4A and 4B)	required)
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High \ Satura	ydrology Indicators: licators (any one indic ce Water (A1) Water Table (A2) ation (A3)		Water-S MLRA Salt Cru	A 1, 2, 4 / st (B11)	A and 4B)	(ехсер			Secondary Indicators (2 or more Water-Stained Leaves (B9) (M 4A and 4B) Drainage Patterns (B10)	required)
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High V Satura Water	ydrology Indicators: licators (any one indicators (A1) Water Table (A2) ation (A3)		Water-S MLRA Salt Cru Aquatic	A 1, 2, 4, st (B11) Inverteb	A and 4B)	(ехсер			Secondary Indicators (2 or more Water-Stained Leaves (B9) (M 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)	required) LRA 1, 2,
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High \ Satura Water Sedim	ydrology Indicators: licators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2)		Water-S MLRA Salt Cru Aquatic Hydroge	A 1, 2, 4 / st (B11) Inverteb en Sulfide	A and 4B) rates (B13) e Odor (C1)	(excep	ot		Secondary Indicators (2 or more Water-Stained Leaves (B9) (Mater A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Ima	required) LRA 1, 2,
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High V Satura Water Sedim Drift D	ydrology Indicators: licators (any one indicators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) ment Deposits (B2)		Water-S MLRA Salt Cru Aquatic Hydroge Oxidized	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizos	A and 4B) rates (B13) e Odor (C1) pheres alo	(excep	ot		Secondary Indicators (2 or more Water-Stained Leaves (B9) (Mage 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Image Geomorphic Position (D2)	required) LRA 1, 2,
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High \ Satura Sedim Drift D Algal	ydrology Indicators: licators (any one indicators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4)		Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presence	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizosee of Reco	A and 4B) rates (B13) e Odor (C1) pheres alo	(except)) ng Living	t g Roots		Secondary Indicators (2 or more Water-Stained Leaves (B9) (Mater-Stained Leaves (B9)) 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imageomorphic Position (D2) Shallow Aquitard (D3)	required) LRA 1, 2,
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High V Satura Water Sedim Drift D Algal Iron D	ydrology Indicators: licators (any one indicators (any one indicat		Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent	A 1, 2, 4/st (B11) Inverteben Sulfided Rhizospe of Recollection Red	A and 4B) rates (B13) e Odor (C1) pheres alouded Iron uction in P	(exception) Ing Living (C4) Howed S	g Roots		Secondary Indicators (2 or more Water-Stained Leaves (B9) (Magnetic Admirator) (B10) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imageomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)	required) LRA 1, 2,
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High \ Satura Sedim Drift D Algal Iron D Surfac	ydrology Indicators: licators (any one indicators (any one indicators (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4)	cator is su	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizos e of Recorder Redor Stress	A and 4B) rates (B13) e Odor (C1) pheres alo	(exception) Ing Living (C4) Ilowed S (D1) (L	g Roots		Secondary Indicators (2 or more Water-Stained Leaves (B9) (Mater-Stained Leaves (B9)) 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imageomorphic Position (D2) Shallow Aquitard (D3)	required) LRA 1, 2,
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac Inund	ydrology Indicators: licators (any one indicators (any one indicators) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Ce Soil Cracks (B6)	cator is su	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted Other (E	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizos e of Recorder Redor Stress	A and 4B) rates (B13) e Odor (C1) pheres alouduced Iron uction in P sed Plants	(exception) Ing Living (C4) Ilowed S (D1) (L	g Roots		Secondary Indicators (2 or more Water-Stained Leaves (B9) (Mater-Stained Leaves (B9)) 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imageomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	required) LRA 1, 2,
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac Inund	ydrology Indicators: licators (any one indicators (any one indicator) Water Table (A2) ation (A3) Marks (B1) Deposits (B1) Deposits (B3) Mat or Crust (B4) Deposits (B5) Deposits (B5) Deposits (B5) Deposits (B6)	cator is su	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted Other (E	A 1, 2, 4, st (B11) Inverteben Sulfided Rhizos e of Recorder Redor Stress	A and 4B) rates (B13) e Odor (C1) pheres alouduced Iron uction in P sed Plants	(exception) Ing Living (C4) Ilowed S (D1) (L	g Roots		Secondary Indicators (2 or more Water-Stained Leaves (B9) (Mater-Stained Leaves (B9)) 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imageomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	required) LRA 1, 2,
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surface High V Satura Water Sedim Drift E Algal Iron E Surface Inund Spars Field Obse	ydrology Indicators: licators (any one indicators) licators (any one indicators) licators (A1) Water Table (A2) lation (A3) Marks (B1) licent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) lice Soil Cracks (B6) lation Visible on Aerial lely Vegetated Concatervations: later Present?	I Imagery ve Surface	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted (B7) Other (E	A 1, 2, 4/st (B11) Inverteben Sulfided Rhizospe of Redor Stresexplain in (inches)	A and 4B) rates (B13) e Odor (C1) pheres alor duced Iron uction in P sed Plants n Remarks)	(exception) Ing Living (C4) Ilowed S (D1) (L	g Roots		Secondary Indicators (2 or more Water-Stained Leaves (B9) (Mater-Stained Leaves (B9)) 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imageomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	required) LRA 1, 2,
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surface High V Satura Water Sedim Drift E Algal Iron E Surface Inund Spars Field Obse Surface Wa Water table	ydrology Indicators: licators (any one indicators (any one indicators (any one indicators (any one indicators (any one indicator) Water Table (A2) Action (A3) Marks (B1) Ment Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) Deposits (B5) Deposits (B5) Deposits (B6) Action Visible on Aerial Bely Vegetated Concatervations: Concatervations: Concater Present? Mater Present. Mater Presen	I Imagery ve Surface	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted (B7) Other (E	st (B11) Inverteben Sulfided Rhizos e of Recorder Red or Stres explain in (inches) (inches)	A and 4B) rates (B13) e Odor (C1) pheres alouded Iron uction in P sed Plants n Remarks)	(exception) Ing Living (C4) Ilowed S (D1) (L	g Roots foils (C6 RR A)	(C3)	Secondary Indicators (2 or more Water-Stained Leaves (B9) (Magnetic Adams) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imageomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR Frost-Heave Hummocks (D7)	required) LRA 1, 2, agery (C9)
Type: Depth (inch Remarks: HYDROLOG Wetland H Primary Inc x Surfac High V Satura Water Sedim Drift D Algal Iron D Surfac Inund Spars Field Obse Surface Wa Water table Saturation	ydrology Indicators: licators (any one indicators) licators (any one indicators) licators (any one indicators) licators (A1) Water Table (A2) lation (A3) Marks (B1) licent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) lice Soil Cracks (B6) lation Visible on Aerial lely Vegetated Concatervations: later Present? Persent? Yes	I Imagery ve Surface	Water-S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Stunted (B7) Other (E	A 1, 2, 4/st (B11) Inverteben Sulfided Rhizospe of Redor Stresexplain in (inches)	A and 4B) rates (B13) e Odor (C1) pheres alouded Iron uction in P sed Plants n Remarks)	(exception) Ing Living (C4) Ilowed S (D1) (L	g Roots foils (C6 RR A)	(C3)	Secondary Indicators (2 or more Water-Stained Leaves (B9) (Mater-Stained Leaves (B9)) 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imageomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR	required) LRA 1, 2, agery (C9)

Project/Site:	1220 9th St			City/County:	: West Linn/	Clackama	s		Sam	npling Date	e: <u>Jan.3</u>	, 2022
Applicant/Owner:	Icon Construction a	nd Development					State: C	DR	Sam	npling Poin	nt:	(
Investigator(s):	JRF				n, Township,							
	e, terrace, etc.):	Terrace			elief (concave							
	Northwest Forests		<u>) </u>		45.342					090988	Datum	: <u>0-2%</u>
Soil Map Unit Nam								sification:				
-	ologic conditions on t			-						explain in		-
Are Vegetation	, Soil											_No <u>x</u>
Are Vegetation	, Soil	_, or Hydrology		naturally pr	oblematic?	(If nee	ded, expl	aın any an	iswers II	n Remarks	S.)	
SUMMARY OF	FINDINGS - Att	tach site map s	showing	sampling	point loca	tions, tr	ansect	s, impor	tant fe	eatures,	etc.	
Hydrophytic Veget	tation Present?	Yes x No)	1-41-0								
Hydric Soil Presen	nt?	Yes No	о <u>х</u>		ampled Area a Wetland?	1	Yes		No	x		
Wetland Hydrolog	y Present?	Yes x No	<u> </u>		a Wolland.							
Hydrology well abo	ove normal with recor	d rainfall occurring	the day of	the site visit.								
VEOET A TION												
VEGETATION			Absolute	Dominant	Indicator	Domina	aco Tost	workshee				
			Absolute % Cover	Dominant Species?	Indicator Status?			ant Specie				
•	se scientific names.)							CW, or FA		•		(A)
								Dominant	_	2		_(A)
2				· 	- —	Species				2		(D)
3									_	2		_(B)
4		Total Cover:	. 0					ant Specie CW, or F <i>l</i>		1009	%	(A/B)
				•				,			,,,	_(' ''-')
Shrub Stratum								k Worksh	eet:			
1							al % Cove			Multiply		_
2					· ———	OBL spe	_		_x1 =	0		_
3.					- —	FACW s	_		_x2 =	0		_
4 5.					· ——	FAC spe	_		_x3 = _x4 =	0		_
o		Total Cover:	: 0			UPL spe	_		_^4 = <u></u> _x5 =	0		_
Herb Stratum		rotal cover.		-		Column	_		(A)			– (B)
1. Schedonorus	arundinaceus		30	Υ	ŒAC□		_	ex = B/A =				_(=)
2. Agrostis capill			55	Y	□FAC□							_
3. Ranunculus re			5			Hydroph	ytic Veg	etation In	dicator	s:		
4. Dactylis glome	erata		10				1 - Rapid	d Test for I	Hydroph	hytic Vege	tation	
5.						X	2 - Domi	inance Tes	st is >50	0%		
6.							3 - Preva	alence Ind	exis ≤	3.0 ¹		
		<u> </u>					4 - Morp	hological /	Adaptat	ion1 (Prov	ide supp	orting
7							data in F	emarks o	ronae	eparate sh	neet)	
0								Ciliai No U	i Oii a s	•		
8.								and Non-V				
8. 9.							5 - Wetla	and Non-V	′ascular		¹ (Explai	n)
8. 9. 10.							5 - Wetla	and Non-V	′ascular	Plants ¹	¹ (Explai	n)
8. 9. 10.							5 - Wetla	and Non-V	′ascular	Plants ¹	¹ (Explai	n)
8. 9. 10.							5 - Wetla Problem rs of hydi	and Non-V atic Hydro ric soil and	′ascular phytic \ I wetlan	Plants ¹ /egetation	` '	n)
8. 9. 10. 11. Woody Vine S							5 - Wetla Problem rs of hydi	and Non-V atic Hydro	′ascular phytic \ I wetlan	Plants ¹ /egetation	` '	n)
8. 9. 10. 11. Woody Vine S		Total Cover:	100			be prese	5 - Wetla Problem rs of hydi nt, unless	and Non-V atic Hydro ric soil and	′ascular phytic \ I wetlan	Plants ¹ /egetation	` '	n)
9		Total Cover:	100			be prese	5 - Wetla Problem rs of hydr nt, unless nytic on	and Non-V atic Hydro ric soil and	′ascular phytic \ I wetlan	Plants ¹ /egetation id hydrolog	` '	n)

SOIL							Sar	npling Point:		
Profile Des	scription: (Describe	to the dep	th needed to do	cument th	e indicator	or confirm t	he absence of in	dicators.)		
Depth	Matrix		Re	edox Featu	res					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ² T	exture	Rem	arks	
0-16	10 YR 3/2	100				L				
	<u> </u>									
	<u> </u>									
		. ——. –								
		- <u></u> -		<u> </u>						
-										
17	Otti D-D		Dadesa d Matrice	00-0		-1.0	21	-Dana Linina M-	N 4 4 i	
Type: C=	Concentration, D=Dep	pietion, Rivi	=Reduced Matrix	, CS=Cove	red or Coate	ed Sand Grair	is. "Location: Pi	_=Pore Lining, M=	Matrix.	
Hydric Soi	il Indicators: (Applic	able to all	LRRs, unless of	therwise n	oted.)	Indi	cators for Proble	matic Hydric Soi	ls³:	
Histos	sol (A1)		Sandy	Redox (S5	5)		2 cm	Muck (A10)		
Histic	Epipedon (A2)		Strippe	ed Matrix (S6)		Red F	Parent Material (TF	-2)	
Black	Histic (A3)		Loamy	Mucky Mi	neral (F1) (e	xcept MLRA	1) Other	(Explain in Rema	rks)	
Hydro	ogen Sulfide (A4)		Loamy	Gleyed M	atrix (F2)					
Deple	eted Below Dark Surfa	ice (A11)	Deplet	ed Matrix (F3)					
Thick	Dark Surface (A12)		Redox	Dark Surfa	ace (F6)		³ Indicators of hyd	drophytic vegetatio	n and	
Sand	y Muck Mineral (S1)		Deplet	ed Dark Sเ	urface (F7)		wetland hydro	logy must be prese	ent,	
Sand	y gleyed Matrix (S4)		Redox	Depressio	ns (F8)		unless distu	bed or problemati	C.	
Restrictive	e Layer (if present):									
Type:										
Depth (inch	hes):					Hydric S	oil Present?	Yes	No _	Х
IYDROLOG										
	lydrology Indicators		iaiamt)				Casan	dom (Indiantora (2)		رام مین
	dicators (any one indi	cator is sum		Otalia a d La	(DO) (a			dary Indicators (2		-
	ice Water (A1)				eaves (B9) (except		r-Stained Leaves (B9) (MLRA	1, 2,
	Water Table (A2)			RA 1, 2, 4A	and 4B)			and 4B)	`	
	ration (A3)			rust (B11)	otoo (D42)			age Patterns (B10	•	
	r Marks (B1)				ates (B13)			season Water Tabl	, ,	· (CO)
	nent Deposits (B2)				Odor (C1)	Living Roots		ation Visible on Ae		(Ca)
	Deposits (B3) Mat or Crust (B4)				uced Iron (C	•		norphic Position (D ow Aquitard (D3)	12)	
	Deposits (B5)				•	+) ved Soils (C6		Neutral Test (D5)		
	ice Soil Cracks (B6)				sed Plants (E	`	<i></i>	ed Ant Mounds (D6	S) (IRR A)	
	lation Visible on Aeria	l Imagery (F		(Explain in		/		-Heave Hummock		
	sely Vegetated Conca	• • •	·	(Explain in	(Ciriaino)		11030	- Ticave Traininock	3 (01)	
Field Obse			(20)							
	ater Present? Yes	s I	No x Dept	th (inches):	:					
Water table	e Present? Yes	s <u>X</u> I	No Dept	th (inches)	6	_				
Saturation		s <u>X</u> I	No Dept	th (inches):	5	Wetla	and Hydrology P	resent? Yes	XNo	
•	apillary fringe) corded Data (stream (nalide mon	itoring well aeria	Inhotos n	revious insp	actions) if av	ailahle:			
JOSOHDE INC	oorded Data (Stream (jaaye, mon	noming wen, acid	ι μποισό, μ	i ovious irispi	Journal, II av	инаыс.			
Remarks: Ab	ove average recent p	recipitation	and water year.							

Project/Site:	1220 9th St			City/County:	: West Linn/0	Clackamas		e: Jan.3, 2022
Applicant/Owner:	Icon Construction a	and Development				State: OR	Sampling Poi	nt:
Investigator(s):	JRF			Sectio	n, Township,	Range: <u>2A, T3S, R1E</u>		
Landform (hillslope	e, terrace, etc.):	Terrace		_ Local re	elief (concave	e, convex, none): none	S	lope (%): <u>0-3%</u>
Subregion (LRR):	Northwest Forests	and Coast (LRR <i>F</i>	<u>A)</u> Lat:		45.342	2731346 Long:	-122.648114417	Datum: <u>0-2%</u>
Soil Map Unit Nam	ne: <u>Wapato silt</u> y	y clay loam				NWI Classification	n: <u>none</u>	
Are climatic / hydro	ologic conditions on t	he site typical for	this time of	year?	Yes_		(If no, explain in	Remarks)
Are Vegetation	, Soil	, or Hydrology		significantly	/ disturbed?	Are "Normal Circumstar	nces" Present? Y	es Nox
Are Vegetation	, Soil	, or Hydrology		naturally pr	oblematic?	(If needed, explain any	answers in Remark	s.)
SUMMARY OF	FINDINGS - Att	tach site map	showing	sampling	point loca	tions, transects, impe	ortant features,	etc.
Hydrophytic Veget	tation Present?	Yes x N	0					
Hydric Soil Presen		Yes x N			ampled Area a Wetland?	Yes x	No	
Wetland Hydrology		Yes x N	0	Within	a welland?			
Hvdrologv well abo	ove normal with recor	d rainfall occurrin	the day of	the site visit				
VEGETATION								
			Absolute	Dominant	Indicator	Dominance Test worksh	eet:	
Trop Stratum (III	aa aajantifia namaa \		% Cover	Species?	Status?	Number of Dominant Spe		
,	se scientific names.)				. ———	That Are OBL, FACW, or		(A)
1 2.					· ———	Total Number of Dominan		(A)
3.					· ———	Species Across All Strata:		(B)
4.					. —			(D)
		Total Cove	r: 0		. —	Percent of Dominant Spec That Are OBL, FACW, or		% (A/B)
				1				`` `
<u>Shrub Stratum</u>						Prevalence Index Works	heet:	
1						Total % Cover of:	Multipl	y by:
2						OBL species	x1 = 0	
3						FACW species	x2 = 0	
4						FAC species	x3 = 0	
5					- —	FACU species	x4 =0	
		Total Cove	r: <u> </u>	•		UPL species	x5 = 0	
Herb Stratum							/ A \	
	l'		00	V	TACΠ	Column Totals: 0	` /	(B)
	arundinaceus		20	Y Y	FAC□	Prevalence Index = B/A	` /	(B)
2. Alopecurus pra	atensis		45	Y		Prevalence Index = B/A	.=	(B)
2. Alopecurus pro 3. Ranunculus re	atensis epens		45 20	-	□FAC□ □FAC□	Prevalence Index = B/A Hydrophytic Vegetation	=	
2. Alopecurus pra 3. Ranunculus re 4. Agrostis capilla	atensis epens aris		45 20 10	Y	□FAC□ □FAC□ □FAC□	Prevalence Index = B/A Hydrophytic Vegetation 1 - Rapid Test for	Indicators: or Hydrophytic Vege	
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APPENDIX C: GROUND LEVEL PHOTOGRAPHS



Photo Point 1. Facing east.



Photo Point 1. Facing south.

S&A#2942

Schott & Associates P.O. Box 589 Aurora, OR. 97002 503.678.6007



Photo Point 1. Facing west.



Photo Point 2. Facing northeast. Blue flags demarcate approximate wetland boundary.

S&A#2942



Photo Point 2. Facing north.



Photo Point 2. Facing southwest. Blue flags demarcate approximate wetland boundary.



Photo Point 2. Facing south.



Photo Point 3. Facing west.

APPENDIX C: GROUND LEVEL PHOTOGRAPHS 1220 9th Street S&A#2942



Photo Point 3. Facing northwest.

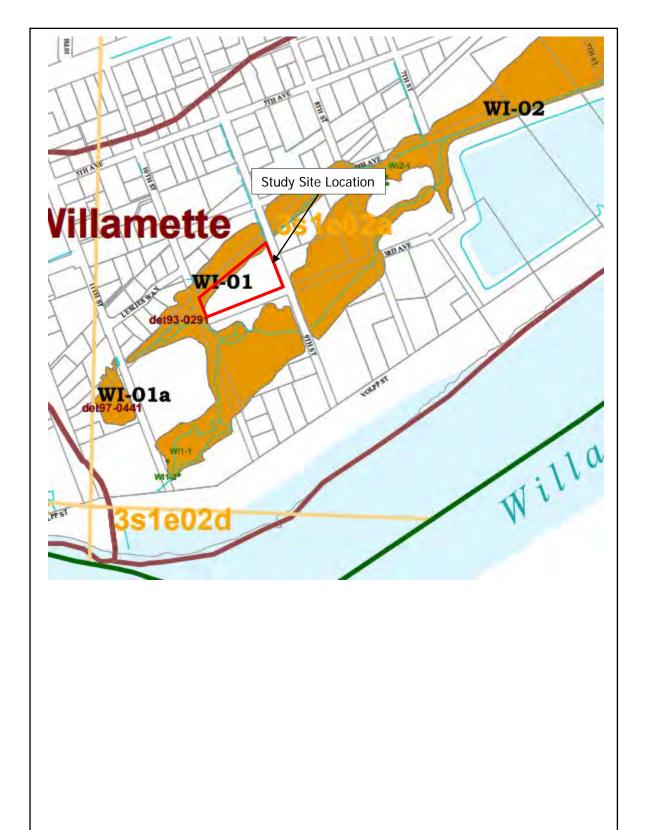


Photo Point 3. Facing northeast.



Photo Point 3. Facing southeast.

APPENDIX D: LOCAL WETLAND INVENTORY



APPENDIX D. West Linn Local Wetland Inventory (Winterbrook Planning 2002) 9th St Project Site S&A#2942

Schott & Associates P.O. Box 589 Aurora, OR. 97002 503.678.6007

APPENDIX E: LITERATURE CITATIONS

- Environmental Laboratory, 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, U.S. Army Engineers Waterways Experiment Station, Vicksburg, MS.
- Environmental Laboratory, 2010 Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, Coast Region (Version 2.0), Wetlands Regulatory Assistance Program ERDC/EL TR-10-3 U.S. Army Engineer Research and Development Center. Vicksburg, MS.
- Federal Interagency Committee for Wetland Delineation, 1989. Federal Manual for Identifying and Delineating Jurisdictional Wetlands, U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, and U.S.D.A. Soil Conservation Service, Washington, D.C. Cooperative technical publication. 138 pp.
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- Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed [1/23/2020]
- U.S. Army Corps of Engineers 2020. National Wetland Plant List, Federal Register Citation 86FR 60449. U.S. Army Corps of Engineers Engineer Research and Development Center Cold Regions Research and Engineering Laboratory, Hanover, NH

Juniper Tagliabue

From: Juniper Tagliabue

Sent: Tuesday, 22 March 2022 11:11 AM

To: STEVENSON Chris DSL

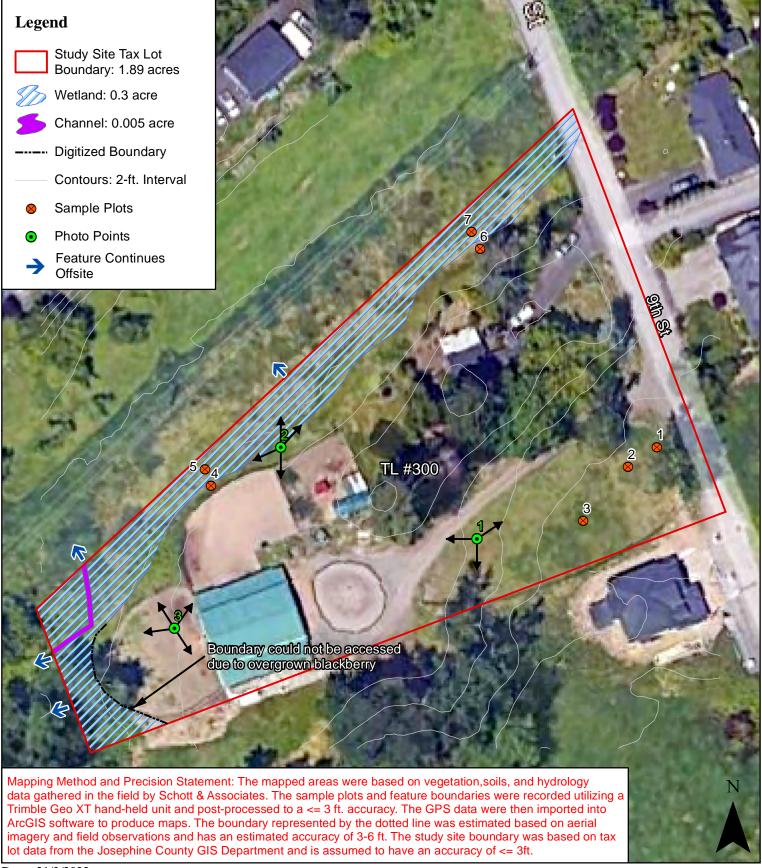
Subject: 1220 9th St_WD2022-0084; S&A2492

Attachments: Fig6_WetlandMap.pdf

Good Afternoon Chris,

Please accept the attached revised map for the 9th St project in West Linn referenced above. After submittal of the delineation report the site was surveyed by a PLS. Due to a slight discrepancy between surveyed property boundaries and County GIS tax lot data the area of the onsite wetland has been reduced from 0.32-acre to 0.3-acres. Please note that the mapping accuracy is within 3 feet as indicated in the report and the mapping accuracy/method has not been changed. The revised wetland area information is provided for consistency and to allow DSL to reference the higher accuracy data. Please replace Figure 6 in the submitted report with the attached map. Wetland area within the report should be 0.3 rather than 0.32-acre. Please let me know if you have any questions or need anything additional. Sincerely,

Juniper Tagliabue Schott and Associates PO Box 589 Aurora, OR 97002



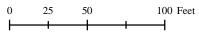
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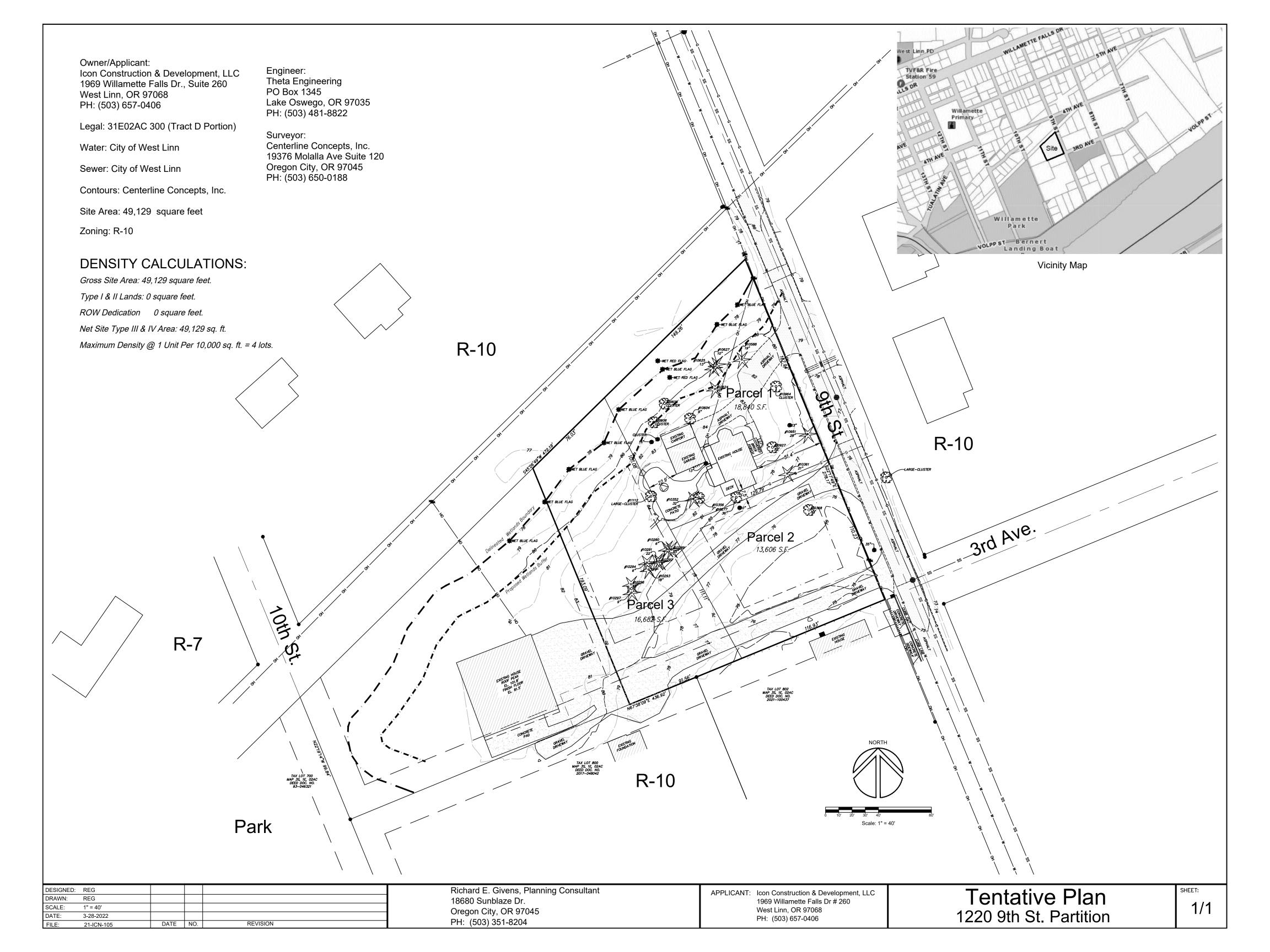
Data Source: Google Earth, 2022; Clackamas County GIS Dept, 2022; DOGAMI, 2009

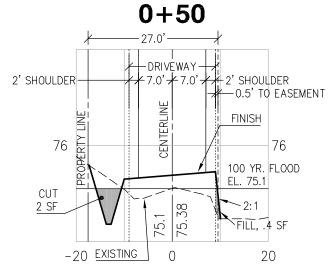
Figure 6. Wetland Delineation Map

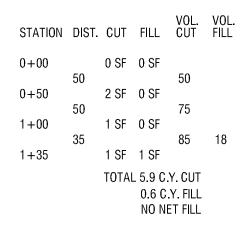


9th Street Project Site: S&A # 2942

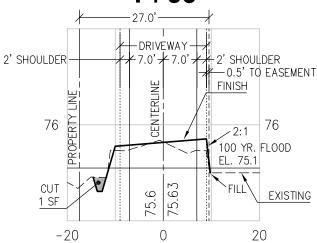




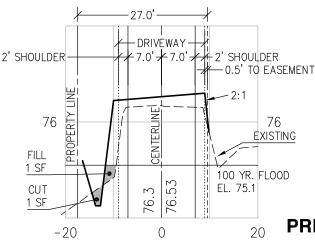




1 + 00



1 + 35



SCALE: 1" = 20' HORIZONTAL 1" = 2' VERTICAL PRELIMINARY CALCULATIONS
FOR PRIVATE DRIVE
CUT/FILL IN 100 YEAR FLOOD PLAIN

2022-129Z

Theta,llc

ENGINEERING

PO Box 1345 Lake Oswego, Oregon 97035 SURVEYING

PLANNING

503-481-8822 email: thetaeng@comcast.net 1220 9th Street - Partition of Lot D West Linn, Oregon

