Joint Permit Application

This is a joint application, and must be sent to all agencies (Corps, DSL, and DEQ). Alternative forms of permit applications may be acceptable; contact the Corps and DSL for more information.

Date Stamp

U.S. A Engin Portla Action ID Number	Army Cor neers and Distr	ps of ict	Interest of the second	Dep Dep Stat	gon artment of e Lands	DEQ	Oregon Department of Environmental Quality	
(1) TYPE OF PER	(1) TYPE OF PERMIT(S) IF KNOWN (check all that apply)							
Corps: Individual	Nationwid	e No.:	<u>39</u>	Regional (General Permit	<u>0</u>	ther (specify):	
Authorized Agent (if applicable					ed Agent (if applicable)			
	Applicant			Property Ow	ner (il dillerent)	Consu	Itant Contractor	
Name (Required)	Seth Sherry					Greta Pre	sley	
Business Name	City of Alba	лy				Herrera E	nvironmental Consultants	
Mailing Address 1	333 Broadal	bin St. S\	V			1001 SW	Water Ave, Suite 290	
City, State, Zip	Albany, Ore	gon 9732	1			Portland,	OR 97214	
Business Phone	541-791-018	30				503-542-	8445	
Fax	541-917-75	11						
Email	seth.sherry@	<u>cityofall</u>	bany.r	<u>net</u>		<u>gpresley@</u>	herrerainc.com	
(3) PROJECT INF	ORMATIO	N						
A. Provide the proje	ct location.							
Project Name Albany Wate	rfront Redev	elopmer	t	Latitude & Lor 44.63859 & -	n <u>gitude*</u> 123.111314			
Project Address / Loc	cation	Cit	y (nea	arest)		County		
489 NW Water Ave al	ong waterfro	nt Alb	any	0		Linn	.1	
Township	Range	Section	on	Quarter / Quarter		lax	(LOT	
115	04W	01 D	C	SE/NW		102	, 200	
115	03W	06 C	-	NW,NE/NE,N	W 200, 3	00, 400, 401	, 500, 501, 502, 600	
115	03W	06 CI)	NW,NE/NE,N	W	100, 560	00, 11500	
115	03W	06 D	2	NE/NW		100, 69	01, 7001	
115	03W	06 D.	4	N, NW/NW,	NE	11000, 11	100, 1700	
Brief Directions to the	Site:	_						
I-5 to Albany, exit 234	B. Take SE Sal	em Ave,	right o	on main, left or	n SE 1 st Avenue to	NE Water A	venue.	
B. What types of waterbodies or wetlands are present in your project area? (Check all that apply.)								
River / Stream Non-			Non-	Tidal Wetland		🗌 Lake	/ Reservoir / Pond	
Estuary or Tidal			Othe	r		🗆 Pacit	fic Ocean	
Waterbody or Wet	and Name*	* Riv	/er M	lile	6 th Field HUC	6th Field	HUC (12 digits)	
Willamette River		119)		<u>Name</u> Truax Creek- Willamette Rive	1709000 r	30610	

C. Indicate the project category. (Check all that apply.)					
Commercial Development	Industrial Development	Residential Development			
Institutional Development	Agricultural	Recreational			
Transportation	Restoration	Bridge			
	Utility lines	☐ Survey or Sampling			
□ In- or Over-Water Structure	Maintenance	Other:			

(4) PROJECT DESCRIPTION

A. Summarize the overall project including work in areas both in and outside of waters or wetlands. Located in downtown Albany, Oregon, the Albany Waterfront project aims to establish an integrated waterfront experience unique to the city. The project includes Monteith Park renovation and planting restoration along Dave Clark Trail, connecting people directly from the historic downtown to the waterfront.

Monteith Park is a favorite gathering space at the confluence of the Willamette and Calapooia rivers. It has played a vital part in the history of Albany. Most summers, it hosts numerous festivals, concerts, and events that attract thousands of visitors. The Park renovation project includes improved vehicular circulation with dedicated drop-off zone, improved ADA-compliant pedestrian pathways with direct access to the riverfront, a new splash pad and playground, a relocated new stage, two existing piers to be improved to meet ADA and building codes, and habitat improvement including removal of invasive species, wetland restoration and enhancement, and new native and climate-adaptive planting throughout the park.

Along Dave Clark Trail, there will be selective restoration along the top of riverbank including removing invasive species and dense vegetation while replanting with diverse native species.

Associated work includes a total of 7.56 acres of ground disturbance. The project will create a total of 57,356 square feet of new impervious surface or modifications to existing impervious surfaces representing a net increase of 15,000 square feet of impervious area. The project will result in 173 cubic yards of net fill (total cut: 710 cubic yards, total fill: 883 cubic yards).

B. Describe work within waters and wetlands.

The proposed project avoids impacts below the Ordinary High Watermark of both rivers but includes some minor temporary and permanent impacts to wetlands located upslope of the rivers.

Work in Wetland A includes construction of a boardwalk spanning the wetland and will disturb a total of 0.008 acres of wetland area. Aside from minor intrusions into the wetland by constructing the boardwalk foundations there will be no fill associated with the boardwalk. However, the entire crossing is considered a permanent impact due to indirect impacts, such as shading, associated with the boardwalk. Hydrology flow will be maintained below the elevated boardwalk.

Work in Wetland E includes grading and construction of a paved pedestrian walkway and will disturb a total of 0.09 acres of wetland area. A total of 21 cubic yards of material will be removed from Wetland E during grading. Backfill and construction of the paved walkway represents 45 cubic yards of fill resulting in a total net fill of 24 cubic yards in Wetland E.

Work in Wetland F will disturb 0.024 acres of wetland area for grading and construction of a paved pedestrian walkway and children's play area. A total of 3 cubic yards of material will be removed from Wetland F during grading. Backfill and construction of the paved walkway represents 19 cubic yards of fill resulting in a net fill of 16 cubic yards in Wetland F.

C. Construction Methods. Describe how the removal and/or fill activities will be accomplished to minimize impacts to waters and wetlands.

The construction methods will comply with all codes and requirements. All construction work occurs above ordinary high water. Tree protection fencing will be in place to protect the existing trees to remain, while only allowing non-mechanized work within the protection area. Wetlands along the Willamette River will be protected, allowing only non-mechanized work within the zone.

General Construction BMPs

General measures used for all construction practices will be used to avoid and minimize impacts on the environment and are discussed below. Specific measures are included in the Erosion Control Plan figures (Attachment 1). Minimization measures include:

- Implementation of a spill prevention plan
- Tracking of sediment from the site will be minimized with a stabilized construction entrance/exit.
- All areas of the site will be graded simultaneously such that exposed inactive areas are minimized. Any exposed inactive areas or stockpiles will be stabilized.
- Materials stored on site will be hydraulically isolated and covered.
- Concrete truck and other concrete equipment washout areas will be established prior to work.

Erosion and Sediment Control

High visibility fencing with a sediment barrier will be used to protect existing wetlands and sensitive areas from non-permitted impacts near the construction zone. Following earthwork activities, exposed slopes will be graded and stabilized, and all exposed soils will be seeded or planted. The project will include a Stormwater Pollution Prevention Plan and standard best management practices (BMPs) will be implemented in accordance with the National Pollutant Discharge Elimination System General Construction Permit. Specific BMP guidance is provided in the permits, and some of the proposed BMPs may include, but will not be limited to the following:

- Perimeter sediment control, including storm drain inlet protection as well as all sediment basins, traps, and barriers will be installed prior to land disturbance.
- A temporary seed mix will be applied as required by the City of Albany Erosion Prevention and Sediment Control Manual Section 4.1.3.
- Temporary and/or permanent soil stabilization measures will be applied immediately on all disturbed areas as grading progresses.
- During dry months water will be used to control dust. Before discharging this water it will pass through perimeter ESC measures.

Vegetation Removal/Protection

Minimization measures to be implemented that are associated with temporary and permanent vegetation removal include:

- The project will minimize removal of wetland vegetation and contractors shall replant wetland vegetation as needed. Replanting may not be possible in permanent impact areas.
- Vegetation will only be grubbed from areas undergoing permanent alteration and areas dominated by invasive species or harzardous trees and shurbs.
- Disturbance to vegetation from the operation of heavy equipment will be minimized as practicable by straddling it with heavy equipment or by pruning it without damaging the roots. Existing riparian vegetation outside of the work area will not be removed or disturbed.
- The contractor will preserve vegetation on steep slopes until it become necessary to disturb for construction
- Riparian areas, wetlands, buffers, critical root zones of preserved trees, and other vegetation to be preserved will be identified, marked, and protected with construction fencing or other means.
- Existing vegetation will be preserved wherever practicable. Impacted areas will be re-vegetated where after construction.
- The existing natural buffers within 50 feet of water of the state will be delineated and maintained.

(4) PROJECT DESCRI	PTION (co	ontinued)							
D. Describe source of Fill material includes or construction or import an approved location.	fill mater n-site exc ed aggre	ial and d i avated s gate and	sposal lo oils appro soils fror	cations if I oved by the m a local se	e pro ource	/n. bject geot e. Any exc	echnical en ess soils w	igineer c ill be hau	luring uled offsite to
E Construction timeli	no								
What is the estimated	proiect s	tart date	?		Ma	rch 2023			
What is the estimated	project c	omnletio	n dato?		<u>An</u>				
Is any of the work und	lerway or	already of	complete	?	<u>Api</u>	<u>II 2024</u>			
If yes, please describe).					Yes 🗹 I	No		
Site clearing and demolition – March 2023 through April 2023 Mass grading and utility installation – April 2023 through July 2023 Structures and paving – July 2023 through November 2023 Landscaping and final stabilization – November 2023 through April 2024									
F. Removal Volumes a	and Dime	nsions (if	more than	n 7 impact s	sites,	include a s	summary tal	ole as an	attachment)
		Re	emoval Di	mensions			Time		
Wetland / Waterbody Name *	Length (ft.)	Width (ft.)	Depth (ft.)	Area (sq.ft. or	ac.)	Volume (c.y.)	Removal is to remain**	N	laterial***
Wetland E	var	var	var	0.090		21			Soil
Wetland F	15	12	var	0.024		3			Soil
C. Total Damawal Mak	 	Dimonoi						<u> </u>	
G. Total Removal Volu	imes and	Dimensi	ons				A		
Total Removal to Wetla	ands and	Other wa	aters		Lei	ngtn (ft.)	Area (sq. f	$\frac{t \text{ or ac.}}{4}$	volume (c.y.)
Total Removal Below (anus Ordinary I	High Wat	or				0.11	4	24
Total Removal Below	Highest M	leasured	Tide						
Total Removal Below	High Tide	Line							
Total Removal Below	Mean Hig	h Water 1	idal Eleva	ation					
H. Fill Volumes and Di	mension	s (if more	than 7 im	pact sites, i	ncluc	le a summ	ary table as	an attach	nment)
Matland / Matarbady			Fill Dime	nsions			Time Fill		
Name*	Length (ft.)	Width (ft.)	Depth (ft.)	Area (sq. ft. or	ac.)	Volume (c.y.)	is to remain**	N	laterial***
Wetland A	27	10	1	0.008 a	с.	<1		E anch	Boardwalk or/foundation
Wetland E	var	var	var	0.090 a	с.	45		Soi	l/paved trail
Wetland F	15	12	var	0.024 a	с.	19		Soi	l/paved trail

(4) PROJECT DESCRIPTION (CONTINUED)						
I. Total Fill Volumes and Dimensions						
Total Fill to Wetlands and Other Waters		Length (ft.)	Area (sq. ft or ac.)	Volume (c.y.)		
Total Fill to Wetlands			0.122 acre	64		
Total Fill Below Ordinary High Water						
Total Fill Below Highest Measured Tide						
Total Fill Below High Tide Line						
Total Fill Below Mean High Water Tidal I	Elevation					

*If there is no official name for the wetland or waterbody, create a unique name (such as "Wetland 1" or "Tributary A"). **Indicate whether the proposed area of removal or fill is permanent or, if you are proposing temporary impacts, specify the days, months or years the fill or removal is to remain. *** Example: soil, gravel, wood, concrete, pilings, rock etc.

(5) PROJECT PURPOSE AND NEED

Provide a statement of the purpose and need for the overall project.

The purpose of the proposed Albany Waterfront project is to rehabilitate City-owned property along the Willamette and Calapooia Rivers in accordance with the Central Albany Revitalization Area Urban Renewal Plan.

The City of Albany has been envisioning a revitalized downtown and riverfront since 1995. The need for this project was determined as part of the Central Albany Revitalization Area Urban Renewal Plan. The project aims to re-establish the physical and cultural connection between the city and the riverfront. The project will first and foremost improve the safety and accessibility for visitors, by providing better lighting, improved sight lines and accessible pathways. The new and improved park amenities and flexible spaces, as desired by the community, will attract more visits, activities and events to the park. The ecological restoration along Willamette river front will enhance wetland and riparian areas, improving the habitats. This will provide unique opportunities for education regarding river dynamics and fish and wildlife habitat, while demonstrating the importance of integrating cultural and wildlife needs into the landscape.

(6) DESCRIPTION OF RESOURCES IN PROJECT AREA

A. Describe the existing physical, chemical, and biological characteristics of each wetland or waterbody. Reference the wetland and waters delineation report if one is available. Include the list of items provided in the instructions.

The Wetland Delineation Report includes a full description of on-site resources. In summary, wetland areas within the proposed Study Area total approximately 1.78 acres. Wetlands A, B, and D are associated with the Willamette River, receiving periodic hydrologic inputs during high water events. Wetlands E and F lie on a north facing slope in an area created and maintained as lawn in the Monteith Park area. DSL approved the wetland delineation on September 14, 2021 (Attachment 1).

The Calapooia and Willamette rivers border the study area on the west and north. Both rivers contain populations of Federally listed "threatened" winter steelhead (Oncorhynchus mykiss) and spring Chinook (O. *tshawytscha*). The project has been designed to avoid all impacts below the Ordinary High Water Mark.

The following table provides a summary of on-site wetlands.

Wetland / Waterway Feature	Cowardin Class	HGM Setting	Primary Hydrologic Source and Direction	Existing Uses	Downstream waterbody	Wetland/ Water Area (Acres)
A	PSS	Riverine Impounding	Willamette River backwater during flooding, runoff, direct precipitation. Flows east into river.	Passive wildlife and human foot traffic. Potential fish entrapment during flooding. Passive waterbird use typical of the area.	Willamette River	0.30
B (no impacts)	PSS	Riverine Impounding	Willamette River backwater during flooding, runoff, direct precipitation, stormwater outfalls. Flows west and north into river.	Passive wildlife and human foot traffic. Potential fish entrapment during flooding. Passive waterbird use.	Willamette River	0.23
D (no impacts)	PSS	Riverine Impounding	Willamette River backwater during flooding, runoff, direct precipitation, stormwater outfalls. Flows east into river.	Passive wildlife and human foot traffic. Potential fish entrapment during flooding. Passive waterbird use.	Willamette River	0.30
E	PEM	Slope/Flats	Hillside runoff, irrigation, direct precipitation, leaking irrigation lines or abandoned sewer pipe; flows north.	Limited wildlife use due to park setting and frequent human use.	Willamette River	0.70
F	PEM	Slope/Flats	Hillside runoff, irrigation, direct precipitation, leaking irrigation lines or abandoned sewer pipe; flows northwest.	Limited wildlife use due to park setting and frequent human use.	Willamette River	0.09
Total Jurisdictional Wetland Areas						1.78

Below is a summary of the Oregon Rapid Wetland Assessment Protocol (ORWAP) functional assessment grouped wetland function assessment information. The ORWAP was used to derive the functional values presented below for the existing condition. Data sheets are available upon request.

A site visit to collect data on wetland functions was conducted by Herrera on February 11 and May 12, 2020. During the site visit, the three on-site wetlands proposed for impacting were evaluated. To obtain accurate and consistent results, the entire wetland was visited while filling out the field forms. The ORWAP method suggests visiting during both the wettest and driest times of the year. The February site visit could be considered the wettest portion of the year.

Groups	Selected Functions	Wetland A		Wetland E		Wetland F	
Groups	Selected Functions	Function	Value	Function	Value	Function	Value
Hydrologic Function	Water Storage& Delay	Moderate	Higher	Lower	Higher	Lower	Higher
Water Quality Support	Sediment Retention & Stabilization	Moderate	Higher	Moderate	Higher	Higher	Higher
Fish Habitat	Anadromous Fish Habitat	Moderate	Higher	Lower	Lower	Lower	Lower
Aquatic Habitat	Waterbird Feeding Habitat	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Ecosystem Support	Water Cooling	Higher	Lower	Higher	Lower	Higher	Lower
	[A	dditional O	utputs		[
Carbon Sequestration		Moderate		Lower		Lower	
Public Use & Recognition			Moderate		Moderate		Moderate
Sensitivity			Moderate		Lower		Lower
Ecological Condition			Moderate		Lower		Lower
Stressors			Higher		Higher		Higher

There are no proposed impacts to the Calapooia or Willamette rivers and therefore no impacts spring Chinook salmon (*Oncorhynchus tshawytscha*) and winter steelhead (*O. mykiss*) which are known to these rivers. Erosion control, stormwater, and construction BMPs will prevent any impacts to receiving surface waters which could temporarily affect fish during the construction phase.

The project will result in 173 cubic yards of net fill (total cut: 710 cubic yards, total fill: 883 cubic yards) within the floodplain. A no-rise certification letter was prepared and submitted to the City. The no-rise certification concluded that project impacts will not result in any increase in flood levels during the occurrence of the base flood discharge.

B. Describe the existing navigation, fishing and recreational use of the waterbody or wetland.

The Calapooia and Willamette rivers are both heavily used for fishing and recreational purposes in the vicinity of the project. The proposed project aims to increase access, safety, and bank stability along the rivers within the project area.

(7) PROJECT SPECIFIC CRITERIA AND ALTERNATIVES ANALYSIS

Describe project-specific criteria necessary to achieve the project purpose. Describe alternative sites and project designs that were considered to avoid or minimize impacts to the waterbody or wetland.* This project is a key part of the urban renewal effort as identified by the Central Albany Revitalization Area Urban Renewal Plan 2001. The public space improvements as identified by the community would serve as catalysts in attracting private sector rehabilitation and development interest.

During the conceptual design phase, the design team explored ideas of putting a trail and overlook into existing wetlands adjacent to the Willamette river, and also a hand-carried boat launch dock by the Calapooia River. After evaluating environmental impacts, those features were eliminated in the final design to reduce disturbances to the wetland and water body. In addition, the original design indicated grading and other stage restoration-related impacts to the entirety of Wetland E. The stage location was adjusted to cause only minor impacts to Wetland E and the remainder of the wetland will be fenced off during construction to avoid heavy equipment impacts with no grading work planned.

(8) ADDITIONAL INFORMATION							
Are there state or federally listed species on the project site?	Ves	No	Unknown				
Is the project site within designated or proposed critical habitat?	Ves	🗌 No	Unknown				
Is the project site within a national Wild and Scenic River ?	Yes	✓ No	Unknown				
Is the project site within a State Scenic Waterway?	Yes	✓ No	Unknown				
Is the project site within the <u>100-year floodplain</u> ?	Ves Yes	🗌 No	Unknown				
If yes to any above, explain in Block 6 and describe measures to minimize adverse effects to those resources in Block 7.							
Is the project site within the Territorial Sea Plan (TSP) Area?	Yes	✓ No	Unknown				
If yes, attach TSP review as a separate document for DSL.							
Is the project site within a designated Marine Reserve?	Yes	✓ No	Unknown				
If yes, certain additional DSL restrictions will apply.							
Will the overall project involve ground disturbance of one acre or more?	Ves	No	Unknown				
If yes, you may need a 1200-C permit from the Oregon Department of En	nvironmental	Quality (DEQ).					
Is the fill or dredged material a carrier of contaminants from on-site or off-site spills?	Yes	✓ No	Unknown				
Has the fill or dredged material been physically and/or chemically tested?	Yes	✓ No	Unknown				
If yes, explain in Block 6 and provide references to any physical/chemic	al testing rep	ort(s).					
Has a cultural resource (archaeological and/or built environment) survey been performed on the project area?	Ves Yes	No	Unknown				
Do you have any additional archaeological or built environment documentation, or correspondence from tribes or the State Historic Preservation Office?	Yes	□ No	Unknown				
If yes, provide a copy of the survey and/or documentation of correspon not describe any resources in this document. Do not provide the survey	dence with thi / or document	is application to th ation to DSL. CRA	ne Corps only. Do				

^{*} Not required by the Corps for a complete application, but is necessary for individual permits before a permit decision can be rendered.

. ,	Is the project part of a DEQ Cleanup Site? No⊠ Yes⊡ Permit numberDEQ contact							
Will the project result in new impervious surfaces or the redevelopment of existing surfaces? Yes \boxtimes No \square If yes, the applicant must submit a post-construction stormwater management plan as part of this application to DEQ's 401 WQC program for review and approval, see <u>https://www.oregon.gov/deq/FilterDocs/401wqcertPostCon.pdf</u>								
Identify any	Identify any other federal agency that is funding, authorizing or implementing the project. None							
Agency Nan	y Name Contact Name Phone Number Most Recent Date of Contact							
List other ce described in	_ist other certificates or approvals/denials required or received from other federal, state or local agencies for work described in this application.							
Ą	gency	Cei	Certificate / approval / denial description			lied		
Other DSL	and/or Co	rps Actions Ass	ociated with this S	Site (Check all that	apply.)			
Work pr pursuan real esta	Work proposed on or over lands owned by or leased from the Corps (may require authorization pursuant to 33 USC 408). These could include the federal navigation channel, structures, levees, real estate, dikes, dams, and other Corps projects.							
State ov	vned water	way	D	SL Waterway Lease #	<i>‡</i> :			
Other C	orps or DS	L Permits	C	orps #	DSL #			
☐ Violation	n for Unaut	horized	C	orps #	DSL #			
✓ Wetland	and Wate	rs Delineation	C	orps #	DSL # 2021-009	93		
Submit the e to DSL. If n	entire delinea ot previously	ation report to the submitted to DSL	Corps; submit only t ., send under a sepa	the concurrence letter arate cover letter	(if complete) and appro	ved maps		
(9) IMPAC	CTS. REST	ORATION/RE	HABILITATION.	AND COMPENS	ATORY MITIGATIO	N		
A. Describe	unavoidab	le environmental	impacts that are I	ikely to result from th	he proposed project. I	nclude		
permanent,	, temporary,	direct, and indir	ect impacts.					
The propos	sed project	design has avoid	led and minimized	l wetland impacts to	the greatest extent p	ossible. In		
total, 0.13 a	acre (5,468 s tlands will b	square feet) of w	retiands will be pe	inct:	, and 0.23 acre (9,838	square		
ieel) oi we			ipacted by the pro	ject.				
	Wetland / Waterway Feature	Classification (Cowardin)	HGM Setting	Temporary Impacts (square feet/ acres)	Permanent Impacts			
1				· · · /	(Square recarderes)			
	А	PSS	Riverine Impounding	0	341/ 0.008			
	A E	PSS PEM	Riverine Impounding Slope/Flats	0 948/ 0.022	341/ 0.008 3,926/ 0.090			
	A E F	PSS PEM PEM	Riverine Impounding Slope/Flats Slope/Flats	0 948/ 0.022 8,890/ 0.204	341/ 0.008 3,926/ 0.090 1,201/ 0.0280			
	A E F	PSS PEM PEM	Riverine Impounding Slope/Flats Slope/Flats Total Impact Area	0 948/ 0.022 8,890/ 0.204 9,838	341/ 0.008 3,926/ 0.090 1,201/ 0.0280 5,468			
Impacts to connectivit impacted a canarygras	A E F Wetland A y in Wetland Ind represer s (Phalaris a	PSS PEM PEM are the result of d A will be main nts a permanent rundinacea).	Riverine Impounding Slope/Flats Total Impact Area indirect shading fitained underneath impact due to sha	0 948/ 0.022 8,890/ 0.204 9,838 rom an overwater bo the boardwalk how ading. Impacted vego	341/ 0.008 3,926/ 0.090 1,201/ 0.0280 5,468 bardwalk. Hydrologic ever, existing vegetat etation includes invas	ion will be ive reed		

Direct impacts to Wetland F are from installation of a playground and associated hardscaping. Wetland F (including the impacted area) is currently vegetated with mowed turf grass dominated by bluegrass.

area) is currently vegetated with mowed turf grass dominated by bluegrass (Poa annua).

Temporary impacted areas are composed of non-native turf grass which will be restored in-kind to maintain the recreational use of the area after construction is complete.					
B. For temporary removal or fill or d	isturbance of vegetation in water	oodies, wetlands or riparian (i.e.,			
restoration.	site will be restored after construct	ction to include the timeline for			
Once construction is complete, tem	porarily impacted wetland areas	will be restored by grading to match			
existing contours and replanting tu	rf grass that is compatible with th	ne existing recreational use of the park.			
Disturbed upland vegetation will be	e replanted after construction wit	h in-kind vegetation.			
Compensatory Mitigation					
C. Proposed mitigation approach. C	heck all that apply:				
		Device entite Drevide			
Permittee- Perm	ittee- Mitigation	Bank or Payment to Provide			
Consite Mitigation	nsible Offsite In-Lieu Fe	use with Corps			
Offsite Mitigation Intiga	ation Fiogram	nermits)			
D. Provide a brief description of pro	need mitigation approach and th	a rationals for shapping that approach			
If you believe mitigation should not	be required, explain why.	e rationale for choosing that approach.			
Mitigation for all permanent wetlan	d impacts will be provided off-sit	e at Santiam mitigation bank.			
Temporary impacted wetland area	will be replanted on-site with in-k	kind vegetation.			
		2			
The proposed project design has av	voided and minimized wetland im	pacts to the greatest extent possible.			
The no-rise certification concluded	that project impacts will not resu	It in any increase in flood levels during			
the occurrence of the base flood di	scharge.				
Mitigation Bank / In Liou Eas Inform	ation				
Name of mitigation bank or in-lieu fee r	alion:	action Pank			
Type and amount of credits to be purch	Type and amount of credits to be purchased:				
If you are proposing permittee-respons	ible mitigation, have you prepared a	compensatory mitigation plan?			
Yes. Submit the plan with this a	application and complete the ren	nainder of this section.			
□ No. A mitigation plan will need to be submitted (for DSL, this plan is required for a complete					
Mitigation Location Information (Fill	out only if permittee-responsible	mitigation is proposed)			
Mitigation Site Name/Legal	Mitigation Site Address	Tax Lot #			
Description					
proposed					
County	City	Latitude & Longitude (in DD.DDDD format)			
,					

Township	Range	Section	Quarter/Quarter	

(10) ADJACENT PROPERTY OWNERS FOR PROJECT AND MITIGATION SITE					
Pre-printed mailing labels ☐ of adjacent property owners attached	Project Site Adjacent Property Owners	Mitigation Site Adjacent Property Owners			
Contact Name Address 1 Address 2 City, ST ZIP Code	Glorietta Bay LLC 418 & 424 Water Ave NW Albany, OR 97321				
Contact Name Address 1 Address 2 City, ST ZIP Code	Singapuri Shashikant 297 & 213 Water Ave NW Albany, OR 97321				
Contact Name Address 1 Address 2 City, ST ZIP Code	City of Albany 489 Water NW Albany, OR 97321				

(11) CITY/COUNTY PLANNING DEPARTMENT LAND USE AFFIDAVIT (TO BE COMPLETED BY LOCAL PLANNING OFFICIAL)

I have reviewed the project described in this application and have determined that:

This project is not regulated by the comprehensive plan and land use regulations

This project is consistent with the comprehensive plan and land use regulations

This project is consistent with the comprehensive plan and land use regulations with the following:

Conditional Use Approval

Other Permit (explain in comment section below)

This project is not currently consistent with the comprehensive plan and land use regulations. To be consistent requires:

Plan Amendment

Zone Change

Other Approval or Review (explain in comment section below)

An application or variance request has <u>has not</u> been filed for the approvals required above.

Local planning official name (print)	Title	City / County
Matthew Ruettgers	Com. Dev. Director	Albany / Linn
Signature	Date	
	11/02/2021	
Comments:		
Development Applications applied	ior and pending final approvals	

(12) COASTAL ZONE CERTIFICATION

If the proposed activity described in your permit application is within the Oregon Coastal Zone, the following certification is required before your application can be processed. The signed statement will be forwarded to the Oregon Department of Land Conservation and Development (DLCD) for its concurrence or objection. For additional information on the Oregon Coastal Zone Management Program and consistency reviews of federally permitted projects, contact DLCD at 635 Capitol Street NE, Suite 150, Salem, Oregon 97301 or call 503-373-0050 or click here. CERTIFICATION STATEMENT

I certify that, to the best of my knowledge and belief, the proposed activity described in this application complies with the approved Oregon Coastal Zone Management Program and will be completed in a manner consistent with the program.

Print /Type Applicant Name	Title
Applicant Signature	Date

(13) SIGNATURES

Application is hereby made for the a	ctivities described herein. I certify that I am familiar with the information contained
in the application, and, to the best of	my knowledge and belief, this information is true, complete and accurate. I further
certify that I possess the authority to	undertake the proposed activities. By signing this application I consent to allow
Corps or DSL staff to enter into the a	above-described property to inspect the project location and to determine
compliance with an authorization, if g	granted. I hereby authorize the person identified in the authorized agent block
below to act in my behalf as my agei	nt in the processing of this application and to furnish supplemental information in
support of this permit application. I u	nderstand that the granting of other permits by local, county, state or federal
agencies does not release me from a	the requirement of obtaining the permits requested before commencing the project.
I understand that payment of the req	uired state processing <u>fee</u> does not guarantee permit issuance.
To be considered complete, the fee m application to the Corps.	ust accompany the application to DSL. The fee is not required for submittal of an
Fee Amount Enclosed	\$841

Fee Amount Enclosed

Applicant Signature (required) must match the name in Block 2			
Print Name	Title		
Seth Sherry	Economic Development Manager		
Signature	Date		
	11/02/2021		
Authorized Agent Signature			
Print Name	Title		
Signature	Date		

Landowner Signature(s)*				
Landowner of the Project Site (if different from applicant)				
Print Name	Title			
Signature	Date			
Landowner of the Mitigation Site (if different from appli	cant)			
Print Name	Title			
Signature	Date			
Department of State Lands, Property Manager (to be co	ompleted by DSL)			
If the project is located on <u>state-owned submerged and sub</u> Land Management Division of DSL. A signature by DSL for lands only grants the applicant consent to apply for a remov submerged and submersible lands grants no other authority authorization may be required.	mersible lands, DSL staff will obtain a signature from the activities proposed on state-owned submerged/submersible /al-fill permit. A signature for activities on state-owned /, express or implied and a separate proprietary			
Print Name	Title			
Signature	Date			

ATTACHMENT 1

Figures











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GENERAL NOTES

SURVEY FROMED BY MAD EXCINENTING, INC, ONTED JANUARY 11, 2018. HORIZONTAL DATUM IS MOD BI (01) BASED ON THE PUBLISHED DORCOVI STATE PLAN NOTIFIC DORCINATES OF CITY OF ALBANY GRS POINTS S2077 MAS 2023, VETTLAL, DATUM ESTABLISHED FRIC CITY OF ALBANY GRS POINT NO. 32077 MITH AN ELEVATION OF SAKE (1960) 28,

- CONSTRUCTION LAYOUT (ALL ACTUAL UNES AND GRADES) SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OREGON, BASED ON COORDINATES, DIMENSIONS, BEARINGS, AND ELEVATIONS, AS SHOW, ON THE FLANS.
- 3. PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT. SEE SHEET C1.00 FOR PROJECT CONTROL INFORMATION.
- PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE VERTICAL POSITION BASED ON THE BENCHMARK STATED HEREON, PRIDE TO BEGINNING CONSTRUCTION LAYOUT.
- WHEN DIMENSIONS AND COORDINATE LOCATIONS ARE REPRESENTED DIMENSIONS SHALL HOLD OVER COORDINATE LOCATION. NOTIFY THE CIVIL ENGINEER OF RECORD INMEDIATELY UPON DISCOVERY.
- BUILDING SETBACK DIMENSIONS FROM PROPERTY LINES SHALL HOLD OVER ALL OTHER CALLOUTS. PROPERTY LINES AND ASSOCIATED BUILDING SETBACKS SHALL BE VERIFIED PRIOR TO CONSTRUCTION LAYOUT.
- CONTRACTOR SHULL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONLIMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONIMENTS DAMAGED OR REMOVED DURING CONSTRUCTION, NEW MONLIMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR.
- 8. CONTRACTOR TO REFERENCE SOLS REPORT BY GEOTECHNICS LLC., DATED DECEMBER 22, 2020 FOR THE SITE SOLS CONDITIONS.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE PROJECT SPECIFICATIONS AND THE APPLICABLE REQUIREMENTS OF THE 2018 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS. ALL FEMITIS, LICENSES AND INSPECTIONS REGURED BY THE GOVERNING AUTHORITIES FOR THE EXECUTION AND COMPLETION OF WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
- A TEMPLO RECOV. UN RECEIPTED OF 10 CLU OWER ALL SECTION TO THE OWER COURSELING TO THE ADDRESS OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF WY OTHER CONTRECTOR OWER ADDRESS OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A HOUSE OF A DESCRIPTION OF A
- 12. THE LOCATION OF EXISTING UNDERGROUND UTLITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT OWNAMIES TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL NEETY ELEVATIONS, IMP SEZ. AND WITCH. TYPES OF ALL UNDERGROUND UTLITIES BRARD TO COMPLETE NOT INFORMATION AND SHALL BRACK ANY DECEMBERSTON THE ATTENTION OF KIPT CONSULTING EXQUERS, 72 HOURS MORE TO STATUTO CONSTRUCTION OF REVEAL OWNED AND LISTING.
- 13. THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
- 14. TEMPORARY AND PERMINENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED. THE CONTRACTOR SHALL ADDRER TO CITY OF ALBANY FOR MINIMUM EROSION CONTROL MEASURES. THE ESC FACILITIES SHOWIN IN THESE PLANSK BET, BHANMM REQUERVEMENTS FOR ANTERPACTE DECONTROLS, OLIVING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE LIPORADED AS EXCEED FOR UNEDVECTOS STOM EVENTS AND TO ENSURE THAT SEMBATI YOUR SEQUENT LIDON WHITER ON OTI LAVE THE GATT.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
- 16. CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO BUILDINGS AT ALL TIMES DURING CONSTRUCTION.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE
- 18. NOTIFY CITY OF ALBAMY INSPECTOR 72 HOURS BEFORE STARTING WORK. A PRECONSTRUCTION MEETING WITH THE OWNER, THE OWNERS ENGINEER, CONTRACTOR AND THE CITY OF ALBAMY REPRESENTATIVE SHALL BE RECURED.

GENERAL ACTUAL LINES AND GRADES SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF INTATEL BASED ON DIVENSIONS OF EVALUATIONS AND READINGS AS SHOWN ON THE PLANS

SUBGRADE AND TRENCH BACKFLL SHALL BE COMPACTED TO AT LEAST 69% OF THE MAXIMUM BRY DENSITY AS DETERMINED BY ASTIN D-89% FLOCOING OR JETTING THE BACKFLLED TRENCHES WITH WATER IS NOT PERMITTED.

3. SPECIAL INSPECTION REQUIRED FOR ALL COMPACTION TESTING.

DEMOLITION

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF EXISTING AC, CURBS, SIDEWALKS AND OTHER SITE ELEMENTS WITHIN THE SITE AREA IDENTIFIED IN THE PLANS. EXCEPT FOR MATERIALS INECATED TO BE STOCKPLED OR TO REMAIN ON OWNERS PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY, REMOVED FROM THE SITE, AND DISPOSED OF PROPERTY.
- ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND DELIVERED STORED AT THE PROJECT SITE AS DIRECTED BY THE OWNER.
- ALL LANDSCAPING, PAVEMENT, CURBS AND SIDEWALKS, BEYOND THE IDENTIFIED SITE AREA, DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED TO THEIR ORIGINAL CONDITION OR BETTER.
- 5. CONCRETE SIDEWALKS SHOWN FOR DEMOLITION SHALL BE REMOVED TO THE NEAREST EXISTING CONSTRUCTION JOINT
- 6. SAWOUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING AND NEW PAVEMENT.

UTILITIES

- 1. ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO SIMPLED CRAME
- CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, TV, TELEPHONE, ELEC ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANJTARY SEWER, ETC.) IF CONFLICT OCCURS.
- CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OF OR ADJUSTMENT TO GAS, ELECTRICAL, POWER AND TELEPHONE SERVICE. BEFORE BACKFILLING ANY SUBGRADE UTLITY IMPROVEMENTS CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF EXACT LOCATION AND DEPTH AND SUBMIT TO ENGINEER AND GAMER.
- 5. ALL WORK TO CONFORM TO THE 2017 OREGON PLUMBING SPECIALTY CODE.

WATER

- 1. ALL WATER AND FIRE PROTECTION PIPE SHALL HAVE A MINIMUM 35-INCH COVER TO THE FINISH GRADE.
- 2. ALL WATER AND FIRE PRESSURE FITTINGS SHALL BE PROPERLY RESTRAINED WITH THRUST BLOCKS PER DETAIL.
- 3. ALL WATER MAIN / SANITARY SEWER CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT REGULATIONS, CHAPTER 333.

EARTHWORKS

- 1. CONTRACTOR SHALL PREVENT SEDIMENTS AND SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAINAGE SYSTEM
- TRENCH BEDDING AND BACKFILL SHALL BE AS SHOWN ON THE PIPE BEDDING AND BACKFILL DETAIL, THE PROJECT SPECIFICATIONS AND AS REQUIRED IN THE SOLS REPORT. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER MULL NOT BE PERMITTED.

PAVING

1. SEE LANDSCAPE ARCHITECTURAL PLANS FOR PAVING AND SITE LAYOUT

SEPARATION STATEMENT

SUCTAVISATION STRATEGY AND AND ADDRESS AND ADDRESS ADD

VECETATED STORMWATER FACILITY NOTE

- SUCCESSFUL CONSTRUCTION OF THE VEGETATED STORMWATER FACLITY DEPEND ON PROPER CONSTRUCTION SEQUENCING, MATERIALS, INSTALLATION, PROTECTION OF SUBGRADE AND EROSION CONTROL CONTRACTOR SHALL SETUP A PRE-CONSTRUCTION MEETING WITH CIVIL ENGINEER TO SPECIFICALLY DISCUSS THESE ITEMS. CONTACT WATT KEENAN WITH KEEP CONSULTING ENGINEERS 641-736-9251
- CLEAROUT CLEAROUT CONCRETE CONTROLFORM CONTROLFORM DRIVEWAY DRIVEWAY DRIVEWAY DRIVER EXSTING EXSTING EXSTING EXSTING EXSTING EXSTING FREE HYDRAWT GAS LINE GATE VALVE HEIGHT NIGHT FRE NIGHT NI D IE NV IRR LP MH N O D O F O V H O P P D C PP P U E P V MT P V T R R D R C W

S SD SDMH

AC AD APPROX B BLDG BOW BS CB

CL CO CONC. COTG CP D/W DIA.,Ø

EXIST

ABBREVIATIONS ASPHALT CONCRETE AREA DRAIN APPROXIMATE BOLLARD BUJLDING BUCK OF WALK BOTTOM OF SWALE CATCH BASIN CENTERLINE CLEANOUT

SHEET SANITARY SEWER SANITARY SEWER MANHOLE STREET STATION STATION

STATION STANDARD SIDEWALK TRENCH DRAIN TRANSFORMER TYPICAL UNDERGROUND UNDERGROUND UNDERGROUND UNDERGROUND UNDERGROUND UNDERGROUND UNDERGROUND WATER WITH WATER METER

WATER METER WATER VALVE

SHT SS SSMH STA STD SIW TD TRANS TYP UG UGE UND W





WALKER MACY



ALBANY WATERFRONT REDEVELOPMENT -MONTEITH PARK AND DAVE CLACK TRAIL



LAND USE PERMIT
10/15/2021
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CIVIL NOTES AND ABBREVIATIONS

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FOR CONSTRUCTION









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KD

ALBANY WATERFRONT REDEVELOPMENT -MONTEITH PARK AND DAVE CLACK TRAIL



P3601.01

WM ROTENED IN MK



8 2019/1

EROSION AND SEDIMENT CONTROL PLANS

EE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-C PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIAN

THE SITE CONTAINS GRASSY PARK SURROUNDED BY TREES WITH PAVED TRAIL, 20VERED PERFORMANCE STAGE, AND PARKING LOTS.

RIVERFRONT PARK CONSISTS OF PLAYGROUNDS, RECREATIONAL BUILDINGS, PAVED TRAILS, NEW COVERED PERFORMANCE STAGE, AND STORMWATER FACILITIES. NATURE OF CONSTRUCTION ACTIVITY AND ESTIMATED TIME TABLE CONSTRUCTION ACTIVITY TO INCLUDE CONSTRUCTION OF PROPOSED UTILITIES,

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS

DEVELOPED CONDITIONS

* SITE CLEARING & DEMOLITION

TOTAL SITE AREA = 353.760 SF = 8.12 ACRES

329,130 SF = 7.56 ACRES

TOTAL DISTURBED AREA

SITE CLEARING & DEMOLITION (MARCH 2023 - APRIL 2023)
 MASS GRADING & UTLITY INSTALLATION (APRIL 2023 - JULY 2023)
 STRUCTURES & PAVING

(JULY 2023 - NOVEMBER 2023) (JULY 2023 - NOVEMBER 2023) LANDSCAPING & FINAL STABILIZATION (NOVEMBER 2023 - APRIL 2024)

PAVING AND BUILDING



VICINITY MAP

SITE NOTES

2:\c\b\2019\

FLOOD NOTE: THE PROPERTY SHOWN HEREON APPEARS TO BE WITHIN SPECIAL FLOOD HAZARD AREAS ZONE "X", AREAS HAVING MINIMAL FLOOD HAZARD PER THE FIRM MAP NUMBER HAVING MINIMAL FLOOD HAZARD PER THE FIRM MAP NUMBER

PROPERTY DESCRIPTION

MONTHEITH PARK AREA INCLUDING AVERY MILLS PARKING LOT AND CALAPOCIA STREET IN ALBANY LINN COUNTY OREGON

PROJECT IS LOCATED ON NW WATER AVENUE SOUTH OF THE WILLAMETTE RIVER AND EAST OF CALAPOOR RIVER LATITUDE = 44.6375° N LONGITUDE = -123.1108° W

RAIN GAUGE NEAREST RAIN GAUGE ID: DC LOCATION: ALBANY, OR LOCATION: ALBANY, OR LATITUDE = 44.64* NORTH LONGITUDE = 123.11* WEST ICCORDINATES FROM WEATHER UNDERGROUND - wunderground.com

PROJECT LOCATION

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES

- NCLUDE A LIST OF ALL PERSONNEL (BY NAME AND POSITION) THAT ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF STORMWATER CONTROL MEASURES (E.S. ESCP DEVELOPER, BMP INSTALLER (SEE SECTION 4:10), AS WELL AS THER INDIVIDUAL RESPONSIBILITES. VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DED 1200-C PERMIT REDUREMENTS. (SECTION 6.5) 3. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SECTION 6.5.Q)

 - RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEC, AGENT, OR THE LOCAL MUNICIPALITY.
- 5 THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
- 6. THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
- SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED, SUBMITAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS, SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS. (SECTION 4.9)
- 8. SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
- 8. CREATE SMOOTH SURFACES BETWEEN SOL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORWWATER FROM BYPASSING CONTROLS AND PONDING (SECTION 2.2.3)
- 10. DENTFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEMIS) CRITICAL RPARAM AREAS AND VEGETATION INCLUDING IMPORTA TREES AND ASSOCIATED ROOTING ZONES, MO VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE RRADS (E.G., WEILANDS), MO OTHER MERKS TO BE PRESERVED. ESPECIAL DIVIDUAL SENSITIVE RESERVED. THE SITE
- 11. PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION, IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED, (SECTION 2.2.5)
- 12. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (SECTION 2.2.4)
- 13. INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE, (SECTIONS 2.1.3)
- 14. CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAMBANKS (SECTIONS 2.11, AND 2.2.16)
- 15. CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY. (SECTIONS 22.6 AND 22.13)
- 16. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK, (SECTION 2.2.14)

- APPLY TEMPORARY AND/OR PERMANENT SCIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABLIZATIONS MEASURES ARE NOT RECURED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROMBO GRUTTUTY POLE PADS/SECTORS 2220 NO 2321)
- 18 ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SECTION 2.3.7)
- HEP WATE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE USENEES DAY FOR THOSE CONTAINERS THAT AND ACTIVEY. VIEW TRUNKINGHUT THE ANY FOR WATES CONTAINEDS THAT DO ATTIME USENEEDS ENT IN THE ANY FOR THE THAT AND SHEETING, TEMPORATY ROOP TO PREVENT EXPOSURE OF WASTES TO PRECENTIATION, OR (7) A SMILARY OFFICITIVE MEN'S DESIGNED TO PREVENT THE ESPERATE OF POLLITIATIS E.G., ECONOMY CONTAINENT, ISCIDIN 2:17
- PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TRE WASH. THESE BMPS MUST BE IN PLACE PRIOR TO LAND AND PARKING AREAS, GRAVEL ALL UNPA DISTURBING ACTIVITIES (SECTION 2.2.7)
- WHEN TRUCKING SATURATED SOILS FROM THE SITE. EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.6 CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, LE, CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS, (SECTIONS 1.5 AND 2.3.9)
- 23. ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED, (SECTION 2.2.10)
- PREVENT SOL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED. (SECTION 2.2.12)
- LISE BINPS TO REVENT OF MININE STORMMATER EXPOSIBLE TO POLIUTARITS FROM SPLILS. VEHICLE AND EXPLIPIENT FUELING, MININEC: AND ESTRABLE OFFICE LEXINING AND MININES AND MATER HANDING MATTHEST. THESE PERLITARITIS REVENTES FREIL PROMILIE FLIL, AND OTHER OLS FROM VEHICLES AND INCOMENT. AS VELLAS DEBRES FERTILEZER PESTICIDES AND HERBIZDES, PANTS, SOLVENTS, CURING COMPOLINGS AND ADBENESS FROM CONSTRUCTION OFFICIATIONS, BISCITORS 2015 AND ALE RANDING TO MATERIA.
- 28. PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONA ENGINEER. (SEE SECTION 2.2.17.A) 27. IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPOUNDMENT MUST BE INSTALLED, (SEE SECTIONS 2.2,17 AND 2.2,18)
- 28. PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)
- IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPLL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPLL PREVENTION AND PROPER DISPOSAL, PROCEDURES, SPLL KITS IN ALL VENCLES, REGULAR MUNITEMANCE SCHEDULE FOR VENCLES AND IMMCHINERY MITEMAL DELLINERY AND STORMES CONTROLS, TRANSING AND SGIWAGE, MORE CONTROLS TO AND AND AND AND AND AND AND AND A
- 30. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SECTION 22.9)
- 31. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE

POLLUTANT-GENERATING ACTIVITIES:	
POLLUTANT-GENERATING ACTIVITIES EXPECTED ON SITE AND THE MATERI	ALS
ASSOCIATED ARE:	
1. ACTIVITY: BUILDING CONSTRUCTION	
LOCATION ADJACENT TO AND WITHIN BUILDING FOOTPRINT	
POLLUTANTS:	
BUILDING PRODUCTS	
TRASH	
PAINTS	
CAULKS	
 SEALANTS 	
GROUT	
STAIN	
• OL	
HYDRAULIC FLUID	
GLUE	
ACTIVITY:SITE CLEARING	
LOCATION: DISTURBED SOIL	
POLLUTANTS:	
 FUEL OR OIL LEAKS FROM CONSTRUCTION EQUIPMENT 	
SEDMENT	
2. ACTIVITY:UTLITY INSTALLATION	
LOCATION: TRENCH EXCAVATION FOR UTILITIES	
POLLUTANTS:	
 FUEL OR OL LEAKS FROM CONSTRUCTION EQUIPMENT 	
SEDMENT	
LUBRICANT	
• GLUE	
CONCRETE	
SOLVENI	
3 ACTIVITY I ANDSCADING	

- LOCATION DISTURBED SOIL ACROSS SITE
- LIGCATION/BITUINED SOL ACROSS SITE POLLUTAVIS FUEL OF 01 LIGANS FROM CONSTRUCTION EDUPMENT FUEL OF 01 LIGANS FROM CONSTRUCTION EDUPMENT MATERIAL STORAGE TO BE HYDROLIGUALY ISOLATED AND COVERED. CONTRACTOR TO UPDATE LIST OF POLLUTAVITS DURING CONSTRUCTION. ON-SITE FUEL STORAGE IS NOT ALLOVED, DESITION 24.4
- WASTE MANAGEMENT PORT DIE CLEMED UP NO FLAGED IN DEIGENATED INISTE CONTINERS, WASTE PORT DIE CLEMED UP NO FLAGEN SANATEN NO TO ELOS SUFELINI MEL NO MUMERT DOORNIN CONSTRUCTION DIO DOORSTU WASTE. CONTINERS TO EX KEPT CLOSED WIEI NOT IN USE NO CLOSED AT THE END OF THE BUSNESS DAY, (BECTON 23.1, 23.4 MOZ 327)
- Part Lessons Part Lessons procision Aurora the Paulton desentation contract. Allo Sountesedeurses procision Aurora the Paulton desentation constitution activities destina procision Aurora the Paulton desentation constitution activities destina procision activities and process process and proces
- SEED NOTE: NOTE: CONTRACTOR TO PRESERVE VEGETATION ON STEEP SLOPES UNTIL IT BECOMES NECESSARY TO DISTURB FOR CONSTRUCTION.
- TEMPORARY SEED MIX: DWARF PERENNIAL RYE GRASS, 80% BY WEIGHT AND CREEPING RED FESCUE, 20% BY WEIGHT AT 100 LB.WACRE. PREPARE SOIL AND INSTALL TEMPORARY SEEDING PER CITY OF ALBANY EROSION PREVENTION & SEDIMENT CONTROL MANUAL SECTION 413

33.

K&D ENGINEERING, INC. CONTACT: JOE COTA, PLS 276 NW HCKORY ST. PHONE: 541-928-2583 E-MAL: jcota@kdeng.com PERMITEE'S SITE INSPECTOR TBD AT PRE-CONSTRUCTION MEETING



ENGINEER KPFF CONSULTING ENGINEERS CONTACT. MITT KEENIN, PE 800 WILLAMETTE ST., SUITE 400 EUGENE, DREGON 97401 PHONE: 541-684-4902 E-WAL: mat/keenan@spf.com

SURVEYOR

ON-SITE CONTRACTORS

OWNER

ARCHITECT

WALKER MACY CONTACT: UN PENG 111 SW OAK STREET, SUITE 200 PORTLAND, CR 97204 TWOME: 400-228-3122

E-MAIL: beng@walkermacy.co

CITY OF ALBANY CONTACT: LORI SCHUMACHER 333 BROADALBIN STREET SW ALBANY, OREGON 97321

PHONE: 541-735-9251 E-MAIL: bri schumachen@cityofabany.ne*

CONTRACTOR TO PROVIDE A LET AT PRECONSTRUCTION MEETING OF ALL CONTRACTORS THAT WILL ENGAGE IN CONSTRUCTOR ACTIVITIES ON THE ADA THE AREAS OF THE STEE WEEKE THE CONTRACTORS MILL ENGAGE IN CONSTRUCTOR ACTIVITIES. REVISED THE LIST AS APPROPRIATE UNTIL PERMIT COVERAGE IS TERMINATED ISECTION 4.4.0.

ATTENTION EXCAVATORS

OREGORIUM REQUIRES YOU TO FOLLOW RULES ADDITED BY THE OREGONUTED INTO NOTIFICATION GENERAL. THOSE RULES ARE SET FORTIN HOURS GOLD AND INFOLUEI ON RESCHOOL YOU MAY BOTTING FORTING STATING CONTES OF THESE RULES AREAN THE CONTENT ON THIS SCI 252-1897. IF YOU HAVE ANY QUESTIONS AREAN THE RULES, YOU MAY CONTACT THE CONTERNO THE YOU CONTENT AT LEAST THAT DUBLISHES BOARD, BEFORE COMMENCING AN EXCAVATION, CALL 503-246-661

BUSINESS DAYS/HOURS ESC SHEET INDEX

MONDAY	7:00a - 7:00p	SHEET	
TUESDAY	7:00a - 7:00p	NUMBER	SHEET THEE
WEDNESDAY	7:00a - 7:00o	EC0.01	COVER SHEET
THUREDAY	7:00= 7:00=	EC0.02	NOTES & BMP MATRIX
THURSDALL	7.000 7.000	EC1.00	EXISTING CONDITIONS
FNUAY	7:008 • 7:00p	EC2.00	PROPOSED CONDITIONS
SATURDAY	7:00e - 7:00p	EC3.00	DETAILS
SUNDAY	 NO WORK 		

ALBANY WATERFRONT REDEVELOPMENT -MONTEITH PARK AND DAVE CLACK TRAIL

AY	7:00a - 7:00p	SHEET	SHEET TITLE
MY	7:00e - 7:00p	NUMBER	
SDAY	7:00a - 7:00p	ED0.01	COVER SHEET
DAY	7:00a - 7:00o	EC0.02	NOTES & BMP MATRIX
	7.000 2.000	EC1.00	EXISTING CONDITIONS
a	1.008-1.000	EC2.00	PROPOSED CONDITIONS
DAY	7:009 - 7:00p	EC3.00	DETAILS

NUTRIENT RELEASES TO SURFACE WATERS, EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SECTION 2.3.5)

- (SETION 1245) E MAICTINE TRANSITISTEM FOR EXAMPLE, ELECTRO-COMULATION, FLOCOLLATION, FLITRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTIANT REMOVAL BE BAR OVERS, SAMPLE AND ORDERATISTI AND MAINTENANCE RAVIN/CLILLING SYSTEM SCHEMATE, LOCATION ORDERAL, DESAMENT DELE LOCATION ORDERALE, BLOORAGE DERIVERISTICATION DESAMENTATION AND ADMINISTRATISTICATION OF STETEL (CATION OR DELE LOCATION ORDERALE, BLOORAGE DERIVERSITE DERIVERSITE DAVID DESAMENTATION DE DELETATIONE TERAINERT STETEL CATION ORDERALE, BLOORAGE DERIVERSITION COMULATIONE DAVID TERAINERT STETEL CATION ORDERALE, BLOORAGE DERIVERSITE DAVID DELETATION DE DELETATION DE DELETATION DE DELETATIONE DE DELETATIONE DE DELETATIONE DE DELETATIONE DELETATION DE DELETATIONE DE DELETATIO TEMPORARLY STABLIZE SOLS AT THE END OF THE SHIFT BEFORE HOL DAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOLS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR. (SECTION 2.2)
- AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS, (SECTION 2.2.8)
- SEDMENT FENCE: REMOVE TRAPPED SEDMENT BEFORE IT REACHES ONE THRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL (SECTION 2.15.8)
- 36. OTHER SEDIMENT BARNIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL. (SECTION 2.1.5.C)
- CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT. SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SECTION 2.1.5.0)
- WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED, INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS ANY INSTREMAC O OF SEDIMENT SAML BE PREVORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LAUGS RECURRENT DIFFERME, (SECTION 22,19.4) THE INTENTIONAL WASHING OF SEGMENT INTO STORM SERVERS OR DAMAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS. (SECTION 22.19)
- 40. DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS, (SECTION 6.5.F.)
- PROVIDE TEMPORARY STABLIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFER, LOGSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH LIVITL WORK RESUMES ON THAT
- COVERING OF BLOWN STRAW AND A 199 PORTION OF THE SITE. (SECTION 2.2.20) DO NOT REMOVE TEMPORARY SEDMENT CONTROL PRACTICES UNTI, PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED. CNCS CONSTRUCTION IS COMPLETE AND THE SITE IS STABLIZED, ALL TEMPORARY EROSION CONTROLS AND RETINNED SOL, IS MUST BE REMOVED AND DISPOSED OF ROPORTRU, UNLESS NEEDE FOR LONG TERME VIDE FORMINTION OF PENIT COVERAGE, ISSENTOR 22.21







EC0.01



WALKER MACY

CONSTRUCTION SUPPORT ACTIVITY ON-STE ACTIVITIES WILL BE LIMITED TO THE DISTURBED AREA OF APPROXIMATELY X.XX ACRES. THERE IS NO OFF-SITE CONSTRUCTION AREA. FILL MATERIAL: MIPORTED AGGREGATE AND ON-SITE SOLS. ENGINEERED SOLS: ENGINEERED SOLS ARE NOT EXPECTED TO BE USED ON-SITE. IF ENGINEERED SOLS

AUTHORIZED NON-STORAWATER DISCHARGES: THERE BARDTENTIAL RED FOR OUT CONTROL DRIVE DRY MONTHS: THERE BARDTENTIAL RED FOR OUT CONTROL DRIVE DRY ROW THE THE AUTHORIZED FOR THE RESEARCH THE CONTROL THE RESEARCH THE DRY THE MONTHS AUTHORIZED FOR THE RESEARCH THE CONTROL THE RESEARCH THE DRY THE MONTHS AUTHORIZED FOR THE RESEARCH THE CONTROL THE RESEARCH THE DRY THE RESEARCH THE DRY THE RESEARCH THE DRY THE RESEARCH THE RESEARCH THE DRY THE RESEARCH THE DRY THE RESEARCH THE DRY THE RESEARCH THE DRY THE RESEARCH THE RESEARCH THE DRY THE RESEARCH THE DRY THE RESEARCH THE DRY THE RESEARCH THE DRY THE RESEARCH THE RESEARCH THE DRY THE RESEARCH THE RESEARCH THE RESEARCH THE DRY THE RESEARCH RESPONSIBLE PERSONNEL: PERSONNEL RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF STORMWATER

SITE SOIL CLASSIFICATION: SITE CONSISTS PRIMARLY OF HOLCOMB SILT LOAM, WHICH IS CLASSIFIED AS HYDROLOGIC SOIL GROUP D. THE EROSION POTENTIAL IS HIGH. RECEIVING WATER BODIES: SOIL CONTAMINATION CONTAMINATED SOLS NOT EXPECTED ON-SITE PER THE ECSI DATABASE. IF CONTAMINATED SOLS ARE DESCOVERED, AN ENVIRONMENTAL MANAGEMENT PLAN WILL BE REQUIRED, (SECTION 12.9)

RE IMPLEMENTED ON-SITE DURING CONSTRUCTION, AN ENGINEERED SEDIMENT BASIN ND pH MONITORING WILL BE REQUIRED, (SECTIONS 2.2.17, 2.2.18, AND 6.6)

INSPECTION FREQUENCY

SITE CONDITIONS	MINIMUM FREQUENCY
1. ACTIVE PERIOD	ON INITIAL DATE THAT LAND DISTURBANCE ACTIVITIES COMMENCE. WITHN 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNOW MELT, THAT RESULTS IN DISCHARGE FROM THE SITE. AT LEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS	THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTIONS IN ANY AREA OF THE SITE WHERE THE STABLIZATION STEPS IN SECTION 2220 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THE KONCE PER MONTH.
3. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER	F SAFE, ACCESSIBLE AND PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT DISCHARGE POINT OR DOWNSTREAM LOCATION OF THE RECEIVING WATERBODY.
4. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS.	VISUAL MONITORING INSPECTIONS MAY BE TEMPORARILY SUSPENDED, IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.
5. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE CONDUCTED AND RUNOFF IS UNLIKELY DURING FROZEN CONDITIONS.	VISUAL MONTORING INSPECTIONS MAY BE REDUCED TO ONCE A MONTH. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR. TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS

ALL INSPECTIONS MUST BE MADE IN ACCORDANCE WITH DED 1200-ON PERMIT REQUIREMENTS

INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-CN PERMIT REQUIREMENTS.

RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEC. AGENT, OR THE LOCAL MUNICIPALITY, DURING NACTIVE PERICOS OF GREATER THAN SEVEN (7) CONSECUTIVE CALENDAR DAYS, RETAIN THE ESCP AT THE CONSTRUCTION SITE OR AT ANOTHER LOCATION.

EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION

- ALL BASE ESC MEASURES (IN ET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
- 2. LONG TERM SLOPE STABLIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOLS BY OCTOBER 1.
- 3. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.
- ALL ESC MEASURES DOWNSLOPE MUST BE IN PLACE PRIOR TO GRADING ACTIVITIES. INTEGRATE ENOSION CONTROL MEASURES TO UPSLOPE AREAS AS PROJECT PROGRESSES.

BMP MATRIX FOR CONSTRUCTION PHASES

		SITE CLEARING & DEMOLITION	MASS GRADING & UTILITY INSTALLATION	STRUCTURES & PAVING	LANDSCAPING & FINAL STABILIZATION	WET WEATHER *
BMP'S	(MOIYR) ¹	03/2023-04/2023	04/2023-07/2023	07/2023-11/2023	11/2023-04/2024	10/2023-04/2024
CONCRETE TRUCK WASHOUT			X	х	X	х
CONSTRUCTION ENTRANCE		۳X	X	х	X	х
NLET PROTECTION		۳X	X	х	X	х
NATURAL BUFFER ZONE ALTERNATIVE		۳X	X	х	X	Х
ORANGE CONSTRUCTION FENCING		۳X	x	х	X	х
PROTECT EXISTING VEGETATION		х	×	х	X	Х
PERMANENT SEEDING AND PLANTING					X	х
PLASTIC SHEETING ON STOCKPILES			×	х	X	х
SEDIMENT FENCING		۳X	X	X	X	х
SEDIMENT BARRIER		"Х	X	х	X	х
TEMPORARY SEEDING		х	X	х	X	х
TREE PROTECTION FENCING		"Х	X	х	X	х
UNPAVED ROADS & HAUL ROADS GRAV	ELED AND	x	×	x	×	х

1 = CONTRACTOR TO REVIEW TIME FRAME FOR CONSTRUCTION STAGES: CONTRACTOR TO PROVIDE REVISED TIME FRAME AT INITIAL EROSION CONTROL INSPECTION.

* - WET WEATHER CONSTRUCTION IS 10/1 - 4/39 AS DEFINED BY CITY OF ALBANY ADMINISTRATIVE RULES. WET WEATHER RECURREMENTS: 1. STRAILEX ALL EXPOSED SOL AND SOL STOCKPLES TO PREVENT SEDIMENT RUNOFF AND TRACK OFF BY VEHICLES.

2. CLEAN UP ALL OFF SITE SEDIMENT AND TRACK OFF IMMEDIATELY.

3. PROTECT ALL STORMWATER INLETS, WATER QUALITY FACILITIES AND NATURAL RESOURCES AREAS FROM CONSTRUCTION RUNOFF. 4. KEEP PUBLIC R-O-W, ADJACENT PROPERTIES AND THE CITY'S STORMWATER SYSTEM FREE OF CONSTRUCTION DEBRIS.

DESCRIPTION OF STORMWATER CONTROLS

PERMIT SECTION	DESCRIPTION			
2.2.1 ACTIVITIES BEFORE CONSTRUCTION	PRIOR TO GROUND DISTURBING ACTIVITIES, WILLAMETTE AND CALAPOOM RIVER TOP OF BANK TO BE STAKED AND SLT FENCE TO BE INSTALLED. STORM FACILITIES NORTH OF THE MILL RACE ARE INFLITRATION FACILITIES AND ARE TO BE STAKED AND FENCED.			
2.2.2 SEQUENCE OF LAND DISTURBING ACTIVITIES	ALL AREAS OF THE SITE TO BE GRADED SIMULTANEOUSLY, EXPOSED NACTIVE AREAS TO BE STABILIZED EITHER TEMPORAF OR PERMANENTLY PER SEED NOTE ON EC1.0 AND LANDSCAPE PLANS.			
2.2.3 PREVENT BYPASS AND PONDING	CREATE SMOOTH SURFACES BETWEEN THE SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS WHEN POSSIBLE TO PREVENT STORMWATER FROM BYPASSING CONTROLS OR PONDING.			
2.2.4 MAINTAIN NATURAL BUFFERS	A NATURAL BUFFER ALTERNATIVE HAS BEEN CHOSEN AND MODELED FOR THIS PROJECT FOR EQUIVALENT SEDIMENT REMOVAL, CONTRACTOR TO INSTALL SINGLE SILT FENCE AT TOP OF BANK PRIOR TO CONSTRUCTION.			
22.5 VEGETATION	VEGETATION WILL BE PRESERVED WHERE GRADING IS NOT REQUIRED AND WITHIN THE BANKS OF THE WILLAMETTE AND CALAPOOL RIVER, DISTURBED AREAS FROM GRADING TO BE RE-VEGETATED UPON COMPLETION OF WORK OR TEMPORARY CESSATION OF WORK.			
2.2.6 INSTALL PERIMETER SEDIMENT CONTROL	SEDIMENT FENCE TO BE INSTALLED ALONG PERIMETER OF SITE WHERE SHOWN ON EC1.0 AND EC2.0.			
2.2.7 PREVENT SEDIMENT TRACK-OUT	CONSTRUCTION INTRANCE WILL BE USED TO PREVENT SEDMENT FROM LEAVING THE STE ON VEHICLES. ANY TRACK-OUT THAT OCCURS MUST BE REMOVED BY SWEETING, SOVEMULING, OR Y AUGMON, OR BY USING OTHER SMILLAR, Y REPECTIVE MEANS OF SEDMENT REMOVAL, AND HOSING OR SWEETING TAXAKED OUT SEDMENT INTO ANY STORMMATER CONVEYANCE, STORM DRAINING. OR WATER OF THE STATE IS PROVIDENTED.			
2.2.8 STOCKPILE MANAGEMENT	STOCKPILES TO BE LOCATED AWAY FROM THE WILLAMETTE AND CALAPOOIA RIVER NATURAL BUFFER AND STORM NILETS. AT THE END OF EACH WORKDAY SOLL STOCKFILES NUST BE STABILIZED ACCORDING TO SECTION 22.20, TO PREVENT DISCHARGE! TO SURFACE WATERS OR COWERVANCE SYSTEME LEADING TO SURFACE WATERS.			
2.2.9 PREVENT WIND EROSION AND DUST	WATER TO BE APPLIED TO EXPOSED SOIL TO PREVENT WIND BLOWN SOIL AND DUST.			
2.2.10 STEEP SLOPE DISTURBANCES	THERE ARE NO EXISTING OR PROPOSED STEEP SLOPES ON OR NEAR THE SITE. STEEP SLOPES ARE DEFINED AS THOSE THAT ARE 70 PERCENT OR GREATER IN GRADE (SECTION 7.5.1).			
22.11 PREVENT DISCHARGE OF SEDIMENT TO WATER	SECTIONET CONTROL MEASURES HAVE BEEN PLACED ARAUDO THE SETE TO PREVENT SECTIONET AND LAVION THE SET FOLLOWING SETE CONTROL MER PREVENTED A THEY POLICIES EXCINENT HAL DE OLI DE LIALEN TO LEURE THE SET STALLIZZIONE MEASURES ANT THE RESETED (2) FARTH SIZES AND MAR TO (XMS, 0) FALL, CHANGES AND OTHER CONCENTRATED DO MOMITATE FLOORE SECONDATION FLOOR AND THE AND CONTROL MEASURES AND OTHER TO PLACED THE SECONDATION FLOORE SECONDATION FLOOR AND THE AND THE SECONDATION MEASURES AND OTHER TO PLACED THE SECONDATION FLOORE SECONDATION FLOOR AND THE AND THE SECONDATION MEASURES THE TO PLACED THE SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE TO PLACED THE SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE TO PLACED THE SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE TO PLACED THE SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE TO PLACED THE SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE TO PLACED THE SECONDATION FLOOR AND THE SECONDATION SECONDATION FLOOR AND THE SECONDATION THE SECONDATION FLOOR AND THE PLACED THE SECONDATION FLOOR AND THE SECONDATION SECONDATION FLOOR AND THE SECONDATION FLOOR AND THE SECONDATION THE SECONDATION FLOOR AND THE SECONDATION AND SECONDATION SECOND			
2.2.12 PREVENT SOIL COMPACTION	SCIL COMPACTION TO BE LIMITED IN LANDSCAPE AREAS AROUND THE WILLAMETTE AND CALAPCOLA RIVER AND THROUGHOUT SITE. WHERE FEASIBLE NATIVE TOPSOLI. WILL BE PRESERVED BY STOCKPILING AND TRANSFERRING, COMPACTED SOLIS TO BE REHVABILITATED PRIOR TO SECONG AND PLANTING.			
22.13 PROTECT STORM DRAIN INLETS	INSTALL INLET PROTECTION FOR ALL INLETS THAT COULD RECEIVE STORWWATER. CLEAN, OR REMOVE AND REPLACE, THE PROTECTION MEASURES AS SEDIMENT ACCUMULATES, THE FLTER BECOMES CLOGGED, AND/OR PERFORMANCE IS COMPROMISED			
22.14 CONCRETE TRUCK WASH OUT	CONCRETE WASH OUT SHOWN ON ECT A WID ECZD, CONCRETE WASHOUT AND WASTE A			
2.2.15 MATERIAL STORAGE	MATERIAL EXPECTED TO BE BROUGHT ON SITE AS NEEDED, IF STOCKPILING IS NEEDED, STOCKPILING TO BE LOCATED WHERE STAGING IS SHOWN ON EC1.0 AND EC2.0. STOCKPILES TO BE STABILIZED PER 2.2.9.			
2.2.16 CONTROL STORMWATER DISCHARGES	STORMWATER DISCHARGES TO BE TO EXISTING STORMWATER SYSTEM.			
2.2.17 ENGINEERED SEDIMENT BASIN	NOT APPLICABLE, ENGINEERED SEDIMENT BASIN WILL NOT BE USED ON SITE.			
2.2.18 ENGINEERED SEDIMENT BASIN WITH ENGINEERED SOILS	NOT APPLICABLE, ENGINEERED SEDIMENT BASIN WITH ENGINEERED SOLS WILL NOT BE USED ON SITE.			
2.2.19 MAINTAIN SITE	SECIMENT THAT LEAVES THE SITE TO BE CLEANED UP WITHIN 24 HOURS, VACUUMING, DRY MECHANICAL SINEEPING, OR MANUAL SWEEPING MUST BE USED TO CLEANUP RELEASED SEDIMENTS. DO NOT INTENTIONALLY WASH SEDIMENT INTO STORM SEVIERS OR DRAININGE WAYS.			
2.2.20 STABILIZE EXPOSED SOILS	EXPOSED SQLS TO BE STABLED MYN THEMPORYN MESLINES, YNGETATYN CO'NR OR REMANN Y STABLEDATON MESAIRES DIWRAFLAT Y YMENYER YN YN ADO STURIBEN ACTIFIS YNW FRANKNY T CASLED O'N AL BE TEMPORIAL Y NACHYE O'N AM PORTON O'R HEI FE'R FO'N AG NO'R CURDAR DA'S DODARM THE DA'T FE ACT CASE AC M TE'N COATON O'N RE I'N Y WYN MYN GAR REGAR REFORT GES SECTON SAC, COARENT FE HON THE ACT STABLEDTON MESAIR SE ACON AS PRACTICABLE, BUT NO LATER THAN SYNC MALED O'N SA TER STABLEDATON STABLEDTON MESAIR SE ASO'N AS PRACTICABLE, BUT NO LATER THAN SYNC MALEDATON'S AFTER STABLEDATON SEN INTITYT.			
22.21 FINAL STABILIZATION	TPMS. SUFFACES TO BE PAVED, BULICING OR LANDSCAPED PAREA, LANDSCAPE AVERAS TO BE STABLED PER 2.22 AVID NEET PHAS. STABLENDING dISTENIC OF SECTIVA 2.21. VICENTATIONES TO BE STABLENDE PAREN TO REMOVING TEMPORARY SEDIMENT BARRIERS AND SUFFENCE. CONSTRUCTION MATERIALS, WASTE, POTENTIAL, POLLUTANTS, EQUIPMENT AND VIENTLISS MUST ENERNICE PROVIDENT BE STE.			
2.3 POLLUTION PREVENTION CONTROL	Technological de lacense formation de la construction and de la construction and policitant de lacense formation de la construction and policitant de la construction and and policitant de la construction and antigene and an antigene and and an antigene and and and and and and and and antigene and			
2.4 CONSTRUCTION DEWATERING	NOT APPLICABLE. DEWATERING IS NOT ANTICIPATED ON THIS SITE			



WALKER MACY



ALBANY WATERFRONT REDEVELOPMENT -MONTEITH PARK AND DAVE CLACK TRAIL





EC0.02



: 0:\0\0)2019\1900193-Mbany-Waterfront\CAD\PL0T\PARK\EC\0193-05PRK-EC01.4wg TAB teet: 10/19/21 et 12:17pm By: Kfi



0.\c\c\2019\1900193-Mbany-Waterfront\CAD\PLOT\PARK\EC\0193-05PRKetc: 10.1973\at 12:18cm By: KG







2 X 2 Abod stakes (2 per bale & otwar at least 12" rits and SECTION A-#

CONCRETE TRUCK WASH OUT FADUIT

3 CONCRETE WASH OUT









ALBANY WATERFRONT REDEVELOPMENT -MONTEITH PARK AND DAVE CLACK TRAIL

kD





EROSION CONTROL DETAILS

EC3.00



SECTION 1 - WETLAND E



0 8 16 32

SECTION 2 - WETLAND F


September 14, 2021

City of Albany

Re:

Attn: Seth Sherry

Albany, OR 97321

333 Broadalbin Street SW

Department of State Lands

775 Summer Street NE, Suite 100 Salem, OR 97301-1279 (503) 986-5200 FAX (503) 378-4844 www.oregon.gov/dsl

State Land Board

Kate Brown Governor

Shemia Fagan Secretary of State

WD # 2021-0093 **Approved** Wetland Delineation Report for Albany Waterfront Redevelopment Linn County; T11S R4W S1DD TLs 102 and 200 (Portions); T11S R3W S6CC TL501 and TLs 200, 300, 400, 401, 500, 502, and 600 (Portions); S6CD TLs 100, 5600, and 11500 (Portions); S6DC TLs 100, 6901, 7001 (Portions); S6DA TLs 11000 and 11100 and TL1700 (Portion) City of Albany Local Wetlands Inventory, Wetlands CAL-2A & WIL-3

Dear Seth Sherry:

The Department of State Lands has reviewed the wetland delineation report prepared by Herrera Inc. for the site referenced above. Please note that in some areas the study area includes only a portion of the tax lots described above (see the attached maps). Based upon the information presented in the report, a site visit on July 15, 2021, and additional information submitted upon request, we concur with the wetland and waterway boundaries as mapped in revised Figure 6-A through 6-F of the report. Please replace all copies of the preliminary wetland maps with these final Departmentapproved maps.

Within the study area, 5 wetlands (Wetland A, B, D, E and F, totaling approximately 1.78 acres) and 1 waterway (Water 1) were identified. The wetlands and waterway are subject to the permit requirements of the state Removal-Fill Law. Under current regulations, a state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in wetlands or below the ordinary high-water line (OHWL) of the waterway (or the 2-year recurrence interval flood elevation if OHWL cannot be determined). In addition, please note that OHWLs for both the Willamette and Calapooia Rivers lie just outside the study area boundary for this project and both are designated essential salmonid habitats. Therefore, fill or removal of any amount of material below their OHWLs or within hydrologically connected wetlands may require a state permit.

This concurrence is solely for purposes of the state Removal-Fill Law. Federal or local permit requirements may apply as well. The U.S. Army Corps of Engineers will determine jurisdiction under the Clean Water Act, which may require submittal of a complete Wetland Delineation Report.

Tobias Read State Treasurer This concurrence is based on information provided to the agency. The jurisdictional determination is valid for five years from the date of this letter unless new information necessitates a revision. Circumstances under which the Department may change a determination are found in OAR 141-090-0045 (available on our web site or upon request). In addition, laws enacted by the legislature and/or rules adopted by the Department may result in a change in jurisdiction. Individuals and applicants are subject to the regulations that are in effect at the time of the removal-fill activity or complete permit application. The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within six months of the date of this letter.

Thank you for having the site evaluated. If you have any questions, please contact Jurisdiction Coordinator, Jessica Imbrie at (503) 986-5250.

Sincerely,

Bt Rym

Peter Ryan, SPWS Aquatic Resource Specialist

Enclosures

ec: Greta Presley, SPWS, Herrera Inc. City of Albany Planning Department (Maps enclosed for updating LWI) Katharine Mott, Corps of Engineers Charles Redon, DSL

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.

Contact and Authorization Information	
🛛 Applicant 🖾 Owner Name, Firm and Address:	Business phone # (541) 791-0180
City of Albany	Mobile phone # (optional)
Attn: Seth Sherry	E-mail: seth.sherry@cityofalbany.net
Authorized Legal Agent, Name and Address:	Business phone #
	Mobile phone #
	E-mail:
I either own the property described below or I have legal author the property for the purpose of confirming the information in the	rity to allow access to the property, I authorize the Department to access e report, after prior notification to the primary contact.
Typed/Printed Name: <u>Seth Sherry</u> Date: <u>Special instructions regarding site</u>	Signature:
Project and Site Information	
Project Name: Albany Waterfront Redevelopment	Latitude: 44.63859 Longitude: -123.111314
Proposed Use:	Tax Map # 11S04W01DD Tax Map # 11S03W06CD
Park and street interface	Tax Lot(s) 102, 200 Tax Lot(s) 100, 5600, 11500
	Tax Map # 11S03W06CC Tax Map # 11S03W06DC Tax Lot(s) 100, 6901, 7001
Project Street Address (or other descriptive location):	Tax Lot(s) 200, 300, 400, 401, Tax Map # 11S03W06DA 500, 501, 502, 600 Tax Lot(s) 11000, 11100, 1700
489 NW Water Avenue to Main Street SE between	Township 11S Range 03W Section 06, 01 QQ
Water Avenue and the Willamette River	Use separate sheet for additional tax and location information
City: Albany County: Linn	Waterway: Willamette River River Mile: 119
Wetland Delineation Information	
Wetland Consultant Name, Firm and Address:	Phone # (503) 542-8445 Mobile phone #
Herrera	E-mail: gpreslev@herrerainc.com
1001 SE Water Avenue, Portland, OR 97214	51 , C
The information and conclusions on this form and in the attache	ed report are true and correct to the best of my knowledge.
Consultant Signature: Thete Presby	Date: 8-6-2021
Primary Contact for report review and site access is	Consultant Applicant/Owner Authorized Agent
Wetland/Waters Present?	Area size: 13.2 acres I otal Wetland Acreage: 1.78 acres Total Water Acreage: 0.01 acre
Check Applicable Boxes Below	
R-F permit application submitted	☑ Fee payment submitted \$ <u>466</u>
Mitigation bank site	Resubmittal of rejected report (\$100)
EFSC/ODOE Proj. Mgr:	Request for Reissuance. See eligibility criteria. (no fee)
Wetland restoration/enhancement project (not mitigati	ion) DSL # Expiration date
Previous delineation/application on parcel	LWI shows wetlands or waters on parcel
If know, previous DSL #	Wetland ID code
For Office Use Only	
DSL Reviewer: Fee Paid Date: _	// DSL WD #
Date Delineation Received:// Scar	nned: Electronic: DSL App. #















Legend Study area Delineated wetland boundary Delineated OHWM Wetland Sample plot A Photo points Tax lot boundaries



Note: All wetland boundaries and sample plots professionally surveyed by K&D Engineering, Inc. to sub-foot accuracy. Tax lot boundaries are from Linn County. Study area boundary is approximated from surveyed south boundary of existing path pavement and OHWM.

Figure 6-A. Wetland Delineation Map for the Albany Waterfront Redevelopment.





- **Delineated wetland** boundary **Delineated OHWM** Wetland Sample plot 0 Photo points Tax lot boundaries

Note: All wetland boundaries and sample plots professionally surveyed by K&D Engineering, Inc. to sub-foot accuracy. Tax lot boundaries are from Linn County. Study area boundary is approximated from surveyed south boundary of existing path pavement and OHWM.

Waterfront Redevelopment.





Tax lot boundaries

pavement and OHWM.







ALBANY WATERFRONT REDEVELOPMENT: PHOTOGRAPHIC LOG

Photo Point Number	Photo Description
1	Representative existing conditions in Wetland A.
2	Representative existing conditions in Wetland A.
3	Representative existing conditions in Wetlands E and F.
4	Representative existing conditions in Wetlands E and F.
5	Representative existing conditions in Wetlands E and F.
6	Representative existing conditions in Wetlands E and F.





October 2021









ATTACHMENT 2

Compensatory Mitigation Eligibility and Accounting Worksheet



COMPENSATORY MITIGATION - ROUTINE ELIGIBILITY ACCOUNTING

Draft Compensatory Mitigation Eligibility and Accounting Determination Form STEP 1. ELIGIBILITY

INSTRUCTIONS: This eligibility worksheet is used to determine whether a proposed compensatory mitigation site is ecologically appropriate to offset proposed impacts. Final eligibility is determined by the agency. The expectation is that compensatory mitigation sites provide an ecological match (i.e. class, function, and value) to the impact site. In some circumstances, an exception to ecological match may be allowed if the permittee demonstrates that the proposed compensatory mitigation site addresses local or watershed needs or priorities. Enter data in red boxes only. Yellow boxes will populate automatically.

	Criteria	RESPONSE	RESULT	COMMENTS
	Deac the mitigation cite replace all of the following:			Aquatic Resources of Special Concern must be replaced in-kind and may not otherwise meet all criteria.
	Does the mitigation site replace an of the following.			
Expectation for	 a) HGM class(es) and subclass(es)? Select yes or no from drop-down list. 	Yes	MET	
providing ecological match for wetlands	b) Cowardin system(s) and class(es)?Select yes or no from drop-down list.	Yes	MET	
impacts	 c) Group-level functions and values? Compare ORWAP ratings between the impact site and the mitigation site (predicted scores) to determine this. Select yes or no from drop-down list. 	Yes	MET	This criterion does not apply when purchasing Legacy Credits, ILF credits not associated with a DSL-approved project, or PIL. Does not apply to non-tidal wetland impacts ≤0.2 acres purchasing credits.
	WORKSHEET Does the mitigation site replace <u>all</u> of the following:			Aquatic Resources of Special Concern must be replaced in-kind and may not otherwise meet all criteria.
	a) Flow permanance (intermittent or perennial)?			
Expectation for providing ecological match	 Select yes or no from drop-down list. b) Stream size class (small, medium, or large)? 			Stream size class as set forth by Oregon Department of Forestry in OAR 629-635- 0200 Sections (13) and (14). <u>Mitigation</u> Planning Man Viewer
for stream	 Select yes or no from drop-down list. 			
impacts	c) Essential Indigenous Anadromous Salmonid Habitat (ESH) designation, if the impact is to an ESH stream?			
	 Select yes, no, or Impact site is not ESH from the drop-down list. 			
	 d) Group-level functions and values? Compare SFAM ratings between the impact site and the mitigation site (predicted scores) to determine this. Select yes or no from drop-down list. 			This criterion does not apply when purchasing Legacy Credits, ILF credits not associated with a DSL approved project, or PIL
If any criterion ab answering the foll	ove are not met, determine whether the mitigation site might qualify for a owing two questions. If all criteria above were met, skip the next two ques	n exception (as a wat stions and move to St	ershed priority) by ep 2: Accounting.	Aquatic Resources of Special Concern are not eligible for an exception and must be replaced in-kind
	Does the mitigation site:			
	a) Address a watershed priority, as identified in a planning or assessment document, report, or other data?			
Possible exception to	 Must be fully described in the permit application. Select yes or no from the drop-down list. 			
ecological match	b) Provide a high level of the functions and values that are relevant to the targeted priority (either currently or post-construction)?			
	 Must be fully described in the permit application. Select yes or no from the drop-down list. 			

COMPENSATORY MITIGATION - ROUTINE ELIGIBILITY ACCOUNTING

STEP 2. ACCOUNTING

INSTRUCTIONS: This accounting worksheet is used to estimate a permittee's wetland mitigation requirements, specific to a particular impact and proposed mitigation site. There are no minimum requirements defined for streams. Final requirements will be determined by the agency. Requirements are based on (1) the mitigation method, (2) the function/value replacement achieved, (3) function temporal loss factors, (4) level of function replacement, and (5) stewardship and site protection plans. Enter data in red boxes only. Yellow boxes will populate automatically. A separate column must be used for each mitigation method used (e.g. if a mitigation site includes both restoration and enhancement, the mitigation method for those distinct areas must be calculated in separate columns). A separate column may also be used to allow different function temporal loss factors to be applied to different acreages, even if the mitigation method being used on that acreage is the same.

	Factor	Method 1	Method 2	Method 3	Notes
Mitigation method	What method(s) of mitigation is proposed? • Select an option from drop-down list.	Credit purchase	Credit purchase		If purchasing credits, ILF or PIL, select "credit purchase." Minimum requirements for preservation and non-wetland waters
	MINIMUM MITIGATION REQUIREMENT (acres of mitigation required per acre of impact)	1.00	1.00		are case-by-case, as determined by the Department.
Note: Adjustmen	ts do not apply to non-tidal wetland impacts ≤0.2 ac	res purchasing credi	ts as mitigation; selec	t "Not applicable" fo	r each factor.
Specific function	How many specific functions and values from the impact site are replaced at the mitigation site? • Compare ORWAP ratings between the impact site and	Not applicable	Not applicable		Select "Not applicable" if the mitigation site is approved/seeking approval as an exception to in-kind replacement under a watershed priority approach, if purchasing
replacement (increase factor)	the mitigation site (predicted scores) to determine this. Select an option from drop-down list.	+ 0%	+ 0%		legacy credits, or best professional judgement was used to assess functions and values.
Function temporal	Which factor, if any, will cause the greatest temporal loss of function? WORKSHEET	Not applicable	Not applicable		Soil adjustment factors are not applicable to credit purchases or removal of historic fill. Vegetation and soil adjustments may
loss (increase factor)	 Select <i>first</i> applicable option from drop-down list. 	+ 0%	+ 0%		not apply when the mitigation method is preservation.
High level of function	Does the CM site exceed at least 80% of the specific functions being lost at the impact site? • Compare ORWAP function ratings between the impact site and the mitiaation site (predicted scores) to	Not applicable	Not applicable		"Exceed" means replaced beyond an overlapping rating break proximity. Select "Not applicable" if the mitigation site is approved/seeking approval as an exception to in-kind replacement under a watershed
replacement (decrease factor)	determine this. Select an option from drop-down list.	- 0%	- 0%		priority approach, if purchasing legacy credits, or best professional judgement was used to assess functions and values.
Mitigation site protection & stewardship	What level of site protection and stewardship is proposed for the mitigation site? • Select an option from the drop-down list.	Enhanced stewardshi	p Enhanced stewardship		Mitigation banks and ILFs typically have enhanced stewardship. Minimum mitigation requirement is 1 acre credit to 1 acre of impact.
(aecrease factor)		- 20%	- 20%		
	Total adjustment (percent increase)	0%	0%		
	ADJUSTED MITIGATION REQUIREMENT (acres of mitigation required per acre of impact)	1.00	1.00		

	Method 1	Method 2	Method 3	Notes
Acreage of impact*	0 13	0		Insert the area of unavoidable permanent
(*enter the acreage associated with each method)	0.10	Ŭ		impact
MITIGATION ACREAGE REQUIRED (adjusted mitigation requirement * impacted acreage)	0.13	0.00		
TOTAL MITIGATION REQUIRED WITHOUT BUFFERS	0.13	This is the mitigation	n acreage required if	a buffer is not required by DSL

	This section is only used if I	OSL requires a	buffer	at the compen	satory	mitigation pro	oject	
Factor		Method	1	Method	2	Method	3	Notes
	Buffer acreage							Use multiple methods only if more than one ratio will be applied to the buffer.
Credit for DSL Required Buffers	Buffer credit ratio							DSL will determine the credit ratio for required buffers. Enter the acres of buffer required per credit (e.g. for 10:1, enter 10).
	Buffer Credit							
	Total Buffer Credit		0					
	TOTAL MITIGATION REQUIRED WITH BUFFER CREDITS APPLIED			This is the mit	tigatior	n acreage requ	ired if	buffers are required by DSL

WORKSHEET

ATTACHMENT 3

Wetland Delineation Report

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.

Applicant 🛛 Owner Name, Firm and Address:	Business phone # (541) 791-0180
City of Albany	Mobile phone # (optional)
Attn: Seth Sherry	E-mail: seth.sherry@cityofalbany.net
Authorized Legal Agent, Name and Address:	Business phone #
	Mobile phone #
	E-mail:
I either own the property described below or I have legal author the property for the purpose of confirming the information in the	rity to allow access to the property. I authorize the Department to access e report, after prior notification to the primary contact.
Typed/Printed Name: Seth Sherry	Signature:
Date. Special instructions regarding site	
Project and Site Information	
Project Name: Albany Waterfront Redevelopment	Latitude: 44.63859 Longitude: -123.111314
Proposed Lise:	Tax Map # 11S04W01DD Tax Map # 11S03W06CD
Park and street interface	Tax Lot(s) 102, 200 Tax Lot(s) 100, 5600, 11500
	Tax Map # 11S03W06CC Tax Map # 11S03W06DC Tax Lot(s) 100, 6901, 7001
Project Street Address (or other descriptive location):	Tax Lot(s) 200, 300, 400, 401, 500, 501, 502, 600 Tax Lot(s) 11000, 11100, 170
489 NW Water Avenue to Main Street SE between	Township 11S Range 03W Section 06, 01 QQ
Water Avenue and the Willamette River	Use separate sheet for additional tax and location information
City: Albany County: Linn	Waterway: Willamette River River Mile: 119
Wetland Delineation Information	
Wetland Consultant Name, Firm and Address:	Phone # (503) 542-8445
Greta Presiey, PWS	Mobile phone #
1001 SE Water Avenue, Portland, OR 97214	
, , ,	
The information and conclusions on this form and in the attache	ed report are true and correct to the best of my knowledge.
The information and conclusions on this form and in the attache Consultant Signature:	ed report are true and correct to the best of my knowledge. Date: 8-6-2021
The information and conclusions on this form and in the attache Consultant Signature: <i>Preference</i> Primary Contact for report review and site access is	ed report are true and correct to the best of my knowledge. Date: 8-6-2021 Consultant Applicant/Owner Authorized Agent
The information and conclusions on this form and in the attached Consultant Signature: Instand Present Primary Contact for report review and site access is Image: Consultant Signature Wetland/Waters Present? Image: Consultant Signature	ed report are true and correct to the best of my knowledge. Date: 8-6-2021 Consultant Applicant/Owner Area size: 13.2 acres Total Wetland Acreage: 1.78 acres Total Water Acreage: 0.01 acre
The information and conclusions on this form and in the attached Consultant Signature: Intel Presevery Primary Contact for report review and site access is Image: Consultant Signature Wetland/Waters Present? Image: Study A Check Applicable Boxes Below Image: Study A	ed report are true and correct to the best of my knowledge. Date: 8-6-2021 Consultant Applicant/Owner Area size: 13.2 acres Total Wetland Acreage: 1.78 acres Total Water Acreage: 0.01 acre
The information and conclusions on this form and in the attached Consultant Signature: Intel Puscay Primary Contact for report review and site access is Image: Consultant Signature Wetland/Waters Present? Image: Study A Check Applicable Boxes Below Image: Study A Image: R-F permit application submitted Image: Study A	ed report are true and correct to the best of my knowledge. Date: 8-6-2021 Consultant Applicant/Owner Authorized Agent Area size: 13.2 acres Total Wetland Acreage: 1.78 acres Total Water Acreage: 0.01 acre Fee payment submitted \$ 466
The information and conclusions on this form and in the attached Consultant Signature: Intel Present Primary Contact for report review and site access is Wetland/Waters Present? Yes No Study A Check Applicable Boxes Below R-F permit application submitted Mitigation bank site	ed report are true and correct to the best of my knowledge. Date: 8-6-2021 Consultant Applicant/Owner Area size: 13.2 acres Total Wetland Acreage: 1.78 acres Total Water Acreage: 0.01 acre Fee payment submitted \$ _466 Resubmittal of rejected report (\$100)
The information and conclusions on this form and in the attached Consultant Signature: Intel Puseby Primary Contact for report review and site access is Image: Consultant Signature Wetland/Waters Present? Image: Study A Check Applicable Boxes Below Image: Study A Image: R-F permit application submitted Image: Study A Image: Def SC/ODOE Proj. Mgr: Image: Study A	ed report are true and correct to the best of my knowledge. Date: 8-6-2021 Consultant Applicant/Owner Authorized Agent Area size: 13.2 acres Total Wetland Acreage: 1.78 acres Total Water Acreage: 0.01 acre Fee payment submitted \$ 466 Resubmittal of rejected report (\$100) Request for Reissuance. See eligibility criteria. (no fee)
The information and conclusions on this form and in the attached Consultant Signature: Intel Present Primary Contact for report review and site access is Wetland/Waters Present? Yes No Study A Check Applicable Boxes Below R-F permit application submitted Mitigation bank site EFSC/ODOE Proj. Mgr: Wetland restoration/enhancement project (not mitigation	ed report are true and correct to the best of my knowledge. Date: 8-6-2021 Consultant Applicant/Owner Authorized Agent Area size: 13.2 acres Total Wetland Acreage: 1.78 acres Total Water Acreage: 0.01 acre See payment submitted \$ 466 Resubmittal of rejected report (\$100) Request for Reissuance. See eligibility criteria. (no fee) ion) DSL #
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The information and conclusions on this form and in the attached Consultant Signature: Primary Contact for report review and site access is Wetland/Waters Present? Yes No Check Applicable Boxes Below R-F permit application submitted Mitigation bank site EFSC/ODOE Proj. Mgr: Wetland restoration/enhancement project (not mitigated Previous delineation/application on parcel If know, previous DSL # For Office Use Only	ed report are true and correct to the best of my knowledge. Date: 8-6-2021 Consultant Applicant/Owner Authorized Agent Area size: 13.2 acres Total Wetland Acreage: 1.78 acres Total Water Acreage: 0.01 acre Fee payment submitted \$ _466 Besubmittal of rejected report (\$100) Bequest for Reissuance. See eligibility criteria. (not fee) SEL # Expiration date LWI shows wetlands or waters on parcel Wetland ID code
The information and conclusions on this form and in the attache Consultant Signature: Auto Purely Primary Contact for report review and site access is Wetland/Waters Present? Yes No Study A Check Applicable Boxes Below R-F permit application submitted Mitigation bank site EFSC/ODOE Proj. Mgr: Wetland restoration/enhancement project (not mitigation Previous delineation/application on parcel If know, previous DSL # For Office Use Only DSL Reviewer: Fee Paid Date:	ed report are true and correct to the best of my knowledge. Date: 8-6-2021 Consultant Applicant/Owner Authorized Agent Area size: 13.2 acres Total Wetland Acreage: 1.78 acres Total Water Acreage: 0.01 acre Fee payment submitted \$ _466 Besubmittal of rejected report (\$100) Request for Reissuance. See eligibility criteria. (no fee) DSL # Expiration date LWI shows wetlands or waters on parcel Wetland ID code J J DSL WD #

WETLAND DELINEATION REPORT

ALBANY WATERFRONT REDEVELOPMENT ALBANY, OREGON

Prepared for Walker Macy

Prepared by Herrera Environmental Consultants, Inc.



Note:

Some pages in this document have been purposely skipped or blank pages inserted so that this document will copy correctly when duplexed.

WETLAND DELINEATION REPORT

ALBANY WATERFRONT REDEVELOPMENT ALBANY, OREGON

Prepared for Walker Macy 111 Southwest Oak Street, Suite 200 Portland, Oregon 97204

Prepared by Herrera Environmental Consultants, Inc. 1001 Southeast Water Avenue, Suite 290 Portland, Oregon 97214 Telephone: 503-228-4301

February 18, 2021
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COMMON ABBREVIATIONS AND ACRONYMS

ACOE	US Army Corps of Engineers
DSL	Oregon Department of State Lands
ESH	Essential Salmonid Habitat
FAC	Facultative plants
FACW	Facultative wetland plants
F/T	Flow-Through
HGM	Hydrogeomorphic
HUC	Hydrologic Unit Code
LWI	Local wetland inventory
MSL	Mean sea level
NRCS	Natural Resources Conservation Service
NWI	National Wetlands Inventory
OAR	Oregon Administrative Rules
OBL	Obligate wetland plants
OHWM	Ordinary high water mark
PEM	Palustrine Emergent
PSS	Palustrine Scrub-Shrub
R2SB	Riverine Lower Perennial Streambed
USFWS	US Fish and Wildlife Service



INTRODUCTION

Herrera Environmental Consultants, Inc. (Herrera) conducted the wetland delineation and determination of the ordinary high water mark (OHWM) described in this report for Walker Macy and the City of Albany in support of the Albany Waterfront Redevelopment Project (hereinafter referred to as the project). The project would revitalize the City's waterfront parcels from their former function as an industrial waterfront to a mixed-use urban waterfront and recreational area. An active rail line parallels Water Avenue and the existing footpath for much of the project area.

This report describes the locations and size of wetlands within the areas proposed for redevelopment. Appendix A includes figures and reference maps and Appendix B includes wetland delineation data forms. Ground-level site photographs are included in Appendix C. Additional tables and information are included in Appendix D. The reference list for sources cited is provided in Appendix E of this report.

Landscape Setting and Land Use

The project lies on the eastern flank of the Oregon Coast Range in the Willamette Valley ecoregion, in the Willamette River watershed (hydrologic unit code [HUC] 170900030610). Located along the south bank of the Willamette River, the Study Area includes approximately 24 acres of riverfront properties, including Monteith Park (Appendix A, Figure 1). A portion of the Study Area is also located along the Calapooia River (HUC 170900030403), near its confluence with the Willamette River.

The Study Area encompasses numerous tax lots in Township 11 South, Range 03 and 04 West, Sections 06CC, 06CD, 06DA, 06DC, and 01DD (Appendix A, Figure 2). The Study Area includes the area from the waterline of the Willamette and Calapooia Rivers up to Water Avenue and Monteith Park at the west end of the project. Surface elevations range from 170 mean sea level (MSL) to 200 MSL at Water Avenue. Near-vertical slopes can be found along the Willamette River between Railroad Street Southeast and Main Street Southeast. In Monteith Park, fill material was historically placed to create a convex slope up to the parking area.

Hydrology

The Local Wetlands Inventory (LWI) completed for Albany in 1999 (Pacific Habitat Services 1999) maps wetlands along the Calapooia and Willamette Rivers within the Study Area (Appendix A, Figure 3). The National Wetland Inventory (NWI) (USFWS 2020) identifies riverine areas associated with the two rivers, but no palustrine wetlands.

Overall main hydrology inputs for the Study Area include direct precipitation and associated runoff and flooding. Some areas receive seasonal irrigation from Monteith Park.



Soils

Natural Resources Conservation Service (NRCS) soil series information for the Study Area was obtained from sources including the NRCS Web Soil Survey and NRCS Soil Series Descriptions (Appendix A, Figure 4). Identification of mapped hydric soils was obtained from Hydric Soils in [the] Linn County Area, Oregon (US Department of Agriculture 1987) as well as online geographic information system (GIS) based mapping sources. Table 1 provides a summary of soil series information for the Study Area.

	Table 1. Soil Series Information.					
Map Unit Number	Soil Type Description	Percent of Study Area	Hydric Classification	Drainage Class		
3	Amity silt loam	9	Concord and Dayton inclusions (9 percent)	Somewhat poorly drained		
27	Concord silt loam	2	Hydric (89 percent)	Poorly drained		
39	Fluvents-Fluvaquents complex	23	Hydric (87 percent)	Moderately well drained		
46	Holcomb silt loam	46	Concord and Dayton inclusions (6 percent)	Somewhat poorly drained		
106A	Woodburn silt loam, 0 to 3 percent slopes	18	Concord and Dayton inclusions (6 percent)	Moderately well drained		
106C	Woodburn silt loam, 3 to 12 percent slopes	2	Concord and Dayton inclusions (6 percent)	Moderately well drained		

Vegetation

Although much of the Study Area is zoned Open Areas, it is actively managed as park in some areas and as natural areas along the Calapooia and Willamette Rivers. These riparian areas include mixed conifer/deciduous forest and riparian scrub-shrub vegetation communities typical of the Willamette Valley.

Land Use

Land uses within the Study Area include parks, roadways, an active railway, and existing footpaths. Surrounding properties are mostly commercial and residential areas. Historical land uses were tied to the centrally located railway and river access from Monteith Park and included industrial and commercial operations. In the early 1900s, the Monteith Park area was a gravel mine operation with transport via river boats. Much of the eastern portion of the river within the Study Area was used for logging storage and transport.



SITE ALTERATIONS

Examination of historical aerial photographs of the Study Area vicinity from 1963 to 2019 (Appendix A, Figures 5a through 5e) helps establish historical context. Recent aerial photographs were examined to assist in identifying recent site alterations, as well as current hydrology patterns.

Industrial uses dominated the Albany waterfront into the 1970s. By the late 1970s, the gravel mine in the Monteith Park area was filled and used for stockpiling material and as abandoned open space. The area was converted to a park in the 1980s. A sewer main bisecting the park just below the current location of a pentagonal gazebo was installed in 1974 and abandoned in 1995. The Dave Clark footpath was built in 1995 and parallels Water Avenue near the edge of the embankment to the Willamette River.



PRECIPITATION DATA AND ANALYSIS

Herrera conducted wetland delineation fieldwork on February 10 and 11, and May 12, 2020. Tables 2 and 3 provide precipitation data recorded at the Albany Weather Station (National Weather Service Station 2020) for each of the 3 months preceding the site visits. Table 3 includes the precipitation date for the day of and weeks preceding the site visits. Appendix D includes daily precipitation data prior to the field visits.

Table 2. Summary of Precipitation Between November 2019 and April 2020for Albany, Oregon.							
Category	November	December	January	February	March	April	Total Water Year to Date ^a
Recorded Precipitation (inches)	1.14	4.72	8.28	1.81	4.15	1.96	23.21
Monthly Precipitation Average (inches)	6.86	7.63	6.31	5.25	4.37	3.10	34.50
Percent of Normal Recorded	17 percent	62 percent	131 percent	34 percent	95 percent	63 percent	67 percent

^a As of May 12, 2020.

Table 3. Precipitation Data Preceding the Site Visits for Albany, Oregon.						
Site Visit Date	Precipitation Within 24 Hours of Visit (inches)	Precipitation Within 1 Week of Visit (inches)	Precipitation Within 2 Weeks of Visit (inches)			
February 10, 2020	0.01	0.42	2.11			
February 11, 2020	0	0.39	2.07			
May 12, 2020	0.07	0.19	0.85			

On average, precipitation was below normal for the water year (beginning October 1) by the May 11, 2020, site visit. However, both the February and May site visits were preceded by precipitation events. The February site visit was preceded by a large precipitation event at the end of January, which also included extensive flooding from the Calapooia and Willamette Rivers. Given the pronounced presence of hydrology and the late-winter timing of the February site visit, hydrologic indicators were expected to be exaggerated during the February site visits. Given the near-normal to below-average precipitation in the spring, hydrologic observations were expected to be absent during the May site visit.



METHODS

Herrera conducted wetland delineation fieldwork on February 10 and 11, and May 12, 2020. The delineation was conducted in accordance with the routine methodology in the US Army Corps of Engineers (ACOE) 1987 Wetland Delineation Manual (ACOE Manual) (Environmental Laboratory 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (ACOE 2010). This report has been prepared in compliance with the Oregon Department of State Lands (DSL) Administrative Rules for Wetland Delineation Report Requirements and Section 404 of the Federal Clean Water Act in order to confirm wetland boundaries and facilitate future permitting.

To be considered a wetland using the ACOE Manual, an area must meet specific criteria characterized by wetland hydrology, hydric soils, and hydrophytic vegetation. Each of the three criteria—vegetation, soils, and hydrology—are independently evaluated by collecting and recording data on routine wetland determination field data forms (Appendix B). At least two plots are used to characterize a wetland, one located within and another just outside each wetland. Plots are generally placed 4 to 20 feet apart.

Herrera identified potential wetlands prior to the site visits using US Fish and Wildlife Service (USFWS) NWI Mapping, Soil Survey of Linn County Areas, Oregon, the LWI, and aerial photographs from various seasons dating back to 1994.

Hydrology

Hydrology observations were recorded at each plot. Data collected included the presence or absence and depth of saturation and/or inundation and the presence or absence of other primary and secondary wetland hydrology indicators. Soil pits were used to measure depth of saturation and depth to free water, when present.

The OHWM of the Calapooia and Willamette Rivers were flagged within the Study Area.

Soils

Soil pits were dug to an adequate depth to observe and describe the soil type, to observe subsurface hydrologic conditions, and to confirm or refute the assigned soil series description contained in the Soil Survey for Linn County. These soil pits are usually excavated to a depth of at least 16 inches. Soil hue, value, and chroma were determined using Munsell Soil Color Charts (Munsell Color Services 2000). Type and depth of other indicators of hydric soil, such as mottles, concretions, oxidized rhizospheres, and depletions were also recorded. In addition to sampling points provided in this report, fieldwork included the digging of many soil test points to determine the presence or absence of hydric soil indicators. Data was not recorded at these soil test points, which were dug to refine the wetland boundary to an accuracy of ±3 feet.



Vegetation

Vegetation plots were sampled using a 5-foot radius for herbs and shrubs/saplings and a 30-foot radius for trees and shrubs over 3 inches diameter at breast height, if present. Plot configuration and size were adjusted in some areas to account for the presence of differing adjacent plant communities, topographic variation, or other landscape characteristics.

Vegetation data collected within each plot included scientific name, stratum, wetland indicator status, and absolute percent cover by stratum (visually estimated) for all identifiable plants. Absolute cover estimates were then converted to relative percent cover. Dominant species were determined using the 50/20 Rule (ACOE Manual). Hydrophytic vegetation was considered prevalent if more than 50 percent of dominant species from all strata had a wetland indicator status of obligate wetland plants (OBL) (>99 percent in wetlands), facultative wetland plants (FACW) (67 to 99 percent in wetlands), or facultative plants (FAC) (34 to 66 percent in wetlands), or if the prevalence index was at or below 3.0.



RESULTS

Wetlands and waters identified within the Study Area are shown on Figure 6 in Appendix A. Based on the available survey drawings and results of the field investigations, wetland areas within the proposed Study Area total approximately 1.62 acres. Wetlands are classified as Palustrine Emergent (PEM) and Palustrine Scrub-Shrub (PSS) wetlands by the Cowardin System (Cowardin 1979) and Slope/Flats or Riverine Impounding wetlands by the Guidebook for Hydrogeomorphic (HGM)-based Assessment of Oregon Wetland and Riparian Sites (Adamus and Field 2001). Waters are classified as Riverine Lower Perennial Streambed (R2SB) wetlands/waters under Cowardin and Riverine Flow-Through (F/T) under HGM. Approximately 7.90 acres of waters are mapped within the Study Area.

	Table 4. Summary of Study Area Wetlands/Waters.						
Feature Name	Cowardin Class	Oregon HGM Class	Sample Plots	Site Photos	Onsite Acreage		
А	PSS	Riverine Impounding	Sp-1 to Sp-7	PP-1 to PP-6	0.30		
В	PSS	Riverine Impounding	Sp-12 and Sp-13	PP-16, PP-17	0.23		
C (Calapooia River)	R2SB	Riverine F/T	N/A	PP-15	1.34		
D	PSS	Riverine Impounding	Sp-14 and Sp-15	PP-18, PP-19	0.30		
E	PEM	Slope/Flats	Sp-8 to Sp-11; Sp-16 to Sp-19; and Sp-24	PP-7 to PP-12; PP-14	0.70		
F	PEM	Slope/Flats	Sp-22 and Sp-23	PP-13	0.09		
G (Willamette River)	R2SB	Riverine F/T	N/A	PP-20 to PP-23	6.56		

Table 4 summarizes the characteristics of the onsite wetlands and waters.

Scrub-Shrub Wetlands

Wetlands A, B, and D are associated with the Willamette River, receiving periodic hydrologic inputs during high water events. Wetland A receives hydrologic inputs from backwatering of the Willamette River into the east end of the wetland during high water events. Due to its low position near the mouth of the Calapooia River, Wetland A gets completely flooded during major flood events. Wetlands B and D are backwater areas separated by a rise in topography and are completely flooded during major flood events. These wetlands may also receive hydrologic inputs from stormwater outfalls along the steep bank to the south.

Soils sampled were silty clay loams with low chroma and greater than 5 percent mottling. Soils met criteria for the redox dark surface indicator. Upland soils lacked 4 or more inches of mottled low chroma soils in the upper 12 inches of the soil profile. Most upland soils exhibited low



chromas but did not contain distinct or prominent mottles and, therefore, did not meet wetland criteria.

Although shaded by large trees growing in the upland riparian areas of the Willamette River, willows (*Salix* spp.) dominate the vegetation rooted in the wetland areas. Reed canarygrass (*Phalaris arundinacea*) dominates the herbaceous layer.

Emergent Wetlands

Wetlands E and F lie on a north-facing slope in an area maintained as lawn in the Monteith Park area. At one time a gravel mine, this area has been filled and heavily altered over the last 100 years. The lower portions are flooded during major flood events. The upper portions may receive hydrologic inputs from a leaky abandoned sewer main bisecting the lawn. The lawn is also routinely irrigated during the spring and summer months. During the relatively high precipitation period in February, hydrology in the sample plots was lacking. However, when allowed to remain open, water filled the soil pit from below the level of the open pit.

Soils sampled were silty clay loams with low chroma and greater than 5 percent mottling in the upper 10 inches. Soils met criteria for the redox dark surface indicator. Below 10 inches, soils generally contained gravels and sand with varying degrees of compaction. Upland soils lacked 4 or more inches of mottled low chroma soils in the upper 12 inches of the soil profile. Most upland soils exhibited higher chromas and did not contain distinct or prominent mottles and, therefore, did not meet wetland criteria.

Regularly mown annual bluegrass (*Poa annua*) dominates Wetlands E and F. White clover (*Trifolium repens*) and buttercup (*Ranunculus repens*) are subdominants in some areas of the wetlands.

Other Waters

Features C and G represent the OHWM of the Calapooia and Willamette Rivers. The OHWM along the east bank of the Calapooia River (Feature C) generally lies between elevation 180 and 181 MSL. Composed of fine silts, the bank is steep and actively eroding within the Study Area. This may be due in part to backwatering action during high flows from its confluence with the Willamette River. Himalayan blackberry (*Rubus armeniacus*), snowberry (*Symphoricarpos albus*), and English ivy (*Hedera helix*) dominate the understory of the east bank. The overstory includes Oregon ash (*Fraxinus latifolia*), black cottonwood (*Populus balsamifera* ssp. *trichocarpa*), and big-leaf maple (*Acer macrophyllum*).

The OHWM along the south bank of the Willamette River (Feature G) lies between elevation 176.5 and 179 MSL. Below elevation 176.5 MSL, gravels and cobbles become exposed as the river recedes in the summer, especially near the confluence with the Calapooia River. Higher up the bank, silty clay underlies root systems from Himalayan blackberry, reed canarygrass, willows, and red osier dogwood (*Cornus sericea*). Overstory along the steep bank to the existing

Dave Clark path includes red alder (*Alnus rubra*), Oregon ash, black cottonwood, Douglas fir (*Pseudotsuga menziesii*), and Western red cedar (*Thuja plicata*).

The OHWM for both rivers was determined by the presence of sediment lines on vegetation and other fixed objects (such as river pilings) and evidence of root scour and exposed roots.

Both rivers contain populations of federally listed "threatened" winter steelhead (*Oncorhynchus mykiss*) and spring Chinook (*O. tshawytscha*).



DEVIATION FROM LWI OR NWI

The LWI completed for Albany in 1999 maps wetlands along the Calapooia and Willamette Rivers within the Study Area. The NWI maps riverine areas associated with the two rivers, but no palustrine wetlands. The findings of this investigation are similar to the LWI, with refinement of the backwater wetland areas and the addition of emergent wetlands upslope of the rivers in the Monteith Park area.

MAPPING METHOD

Flagged wetland/water boundaries and sample points were surveyed by K&D Engineering, Inc. to sub-foot accuracy and digitally mapped using AutoCAD®. Wetland boundaries and sample points are identified on the ground with stakes, flags, and/or identified on an aerial photo and/or the wetland map, such that the boundaries and sample points can be relocated.

Wetland survey data was combined with topographic field survey data collected at the site to develop the 1 inch = 100-foot mapping provided on Figure 6 in Appendix A. Jurisdictional boundaries were determined through a combination of analysis of sampling plots and analysis of, and visible changes in, topography, vegetation, soils, and/or hydrology. Maps and aerial photographs were obtained from a variety of sources including Google Earth and the City of Albany.

ADDITIONAL INFORMATION

The Calapooia and Willamette Rivers are mapped as Essential Salmonid Habitat (ESH) within the Study Area on the DSL ESH Map for Linn County, Oregon. In addition to steelhead and Chinook, the rivers are known to contain the following listed species (Table 5).

Table 5. Endangered Species of the Willamette and Calapooia Rivers.					
Latin Name	Common Name	Listed Status	Typical Range in Oregon		
Actinemys marmorata	Western pond turtle	State: Sensitive-Critical Federal: Species of Concern	Western Oregon—Terrestrial and aquatic habitats. Rivers, lakes, streams, ponds, wetlands, vernal pools, ephemeral creeks, reservoirs, agricultural ditches, estuaries, and brackish waters.		
Entosphenus tridentatus	Pacific lamprey	State: Sensitive Federal: Species of Concern	Statewide—Gravel bottomed streams at the upstream end of a riffle habitat.		
Margaritifera falcata	Western pearlshell (mussel)	No state or federally status, but TNC state ranked as "rare"	Native statewide—In clean, cold rivers.		
Fluminicola virens	Olympia pebblesnail	No state or federally status, but TNC state ranked as "imperiled"	Willamette River and Lower Columbia River basins.		



CONCLUSIONS

Based on the results of the February 10, 11, and May 12, 2020, routine wetland delineation and OHWM determination conducted by Herrera, wetlands and other waters total approximately 9.52 acres within the Study Area. The locations of wetlands are shown on Figure 6 in Appendix A and summarized in Table 6.

Table 6. To	tal Acreage of Study Area Wetla	ands/Waters.
Cowardin Class	Oregon HGM Class	Onsite Size (acres)
PSS	Riverine Impounding	0.83
PEM	Slope/Flats	0.79
R2SB	Riverine F/T	7.90
	Total	9.52



DISCLAIMER

This report documents the investigation, best professional judgment, and conclusions of the investigator. It is correct and complete to the best of the investigator's knowledge. It should be considered a Preliminary Jurisdictional Determination of wetlands and other waters and should be 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.



APPENDIX A

Figures





















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Figure 5-D. 1974 Aerial Photograph for the Albany Waterfront Redevelopment.









Legend Study area Delineated wetland boundary Delineated OHWM Wetland Sample plot A Photo points Tax lot boundaries



Note: All wetland boundaries and sample plots professionally surveyed by K&D Engineering, Inc. to sub-foot accuracy. Tax lot boundaries are from Linn County. Study area boundary is approximated from surveyed south boundary of existing path pavement and OHWM.

Figure 6-A. Wetland Delineation Map for the Albany

Waterfront Redevelopment.





Note: All wetland boundaries and sample plots professionally surveyed by K&D Engineering, Inc. to sub-foot accuracy. Tax lot boundaries are from Linn County. Study area boundary is approximated from surveyed south boundary of existing path pavement and OHWM.

Tax lot boundaries










APPENDIX B

Data Forms



Project/Site:	Albany - Ca	alapooia / \	Willamette River	Confluence	City/County:	Albany, Lin	n County		Sampling Date:		2/10/2020
Applicant/Owner:	City of Alba	iny						State: OR	Sampling Point:	SP-1	
Investigator(s):	Greta Presl	ey, Rayna	Gleason		Sect	ion, Townshi	p, Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace, et	tc.):	Flat, seasonally	flooded	Local	relief (conca	ve, convex	, none): <u>Slightly cor</u>	ncave Slop	be (%):	0-1
Subregion (LRR):	Columbia P	Plateau (LF	RR B)	Lat:		4	4.638717	Long:	-123.110913	Datum:	NAD27
Soil Map Unit Nan	ne: Hold	comb silt lo	bam					NWI Classification:	Riverine		
Are climatic / hydr	ologic condit	tions on th	e site typical for	this time of ye	ear?	Yes 🗸	/	No	(If no, explain in Re	emarks)	
Are Vegetation	, So	il	, or Hydrology		significantly d	listurbed?	Are "No	ormal Circumstance	s" Present? Yes	\checkmark	No
Are Vegetation	, So	il	, or Hydrology	√	naturally prob	olematic?	(If neede	ed, explain any ansv	vers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	メ メ メ	No No No	Is the Sampled Area within a Wetland?	Yes	1	_ No	
Area receives seasonal winter floodi plot sizes are 30' for trees and shrub	ng where t is and 5' fo	the SF or herb	P-1 site is comp aceous vegeta	letely underwater for over 24 hours. tion, unless otherwise noted.				All

VEGETATION

	Absolute %	Dominant	Indicator	Dominance Te	est worksheet:			
Tree Stratum (Use scientific names.)	Cover	Species?	Status?	Number of Dom	minant Species			
1. Alnus rubra	80	Yes	FAC	That Are OBL,	FACW, or FAC	:	2	(A)
2.				Total Number o	of Dominant			
3.				Species Across	s All Strata:		2	(B)
4				Percent of Dom	ninant Species	That		
	=	Total Cover	-	Are OBL, FAC	W, or FAC:		100%	(A/B)
Shrub Stratum				Prevalence Inc	dex Workshee	t:		
1				Total % 0	Cover of:		Multiply by:	
2				OBL species		x1 =	0	
3				FACW species	s <u>30</u>	x2 =	60	
4				FAC species	80	x3 =	240	
5				FACU species		x4 =	0	
	=	Total Cover	-	UPL species		x5 =	0	
Herb Stratum				Column Totals:	: 110	(A)	300	(B)
1. <i>Phalaris arundinacea</i>	30	Yes	FACW	Prevalence	e Index = B/A =		2.7	
2	·							
3				Hydrophytic V	egetation Indi/	cators:		
4				1 - F	Rapid Test for H	Hydroph	ytic Vegetation	
5				<u> </u>	Dominance Tes	st is >50°	%	
6				<u>X</u> 3-F	Prevalence Inde	ex is ≤3	.0 ¹	
7				4 - N	Morphological A	Adaptatio	on ^{1,2}	
8				5 - V	Wetland Non-V	ascular I	Plants ¹	
	30 =	Total Cover	-	Prot	blematic Hydro	phytic Ve	egetation ¹ (Expl	ain)
Woody Vine Stratum				¹ Indicators of h	ydric soil and w	/etland h	ydrology must I	pe present. ²
1.				Provide suppor	rting data in Rei	marks or	on a separate s	heet
2				Hydrophytic				
	=	Total Cover	-	Vegetation				
% Bare Ground in Herb Stratum70 %	Cover of Biotic	Crust	0	Present?		Yes <u>√</u>	<u>No</u>	
Remarks: Surrounding area is a willow/alder peninsula.				•				

Sampling Point: SP-1

Depth	Matrix		Re	dox Featu	ures		-	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-2"	10YR 3/2	100					Silty clay	
2-7"	10YR 3/2	70	10YR 3/6	30	С	М	Clay loam	
7-9"	10YR 3/3	100					Sandy loam	
9-16"	10YR 3/3	100					sand	
Type: C=	Concentration, D=De	pletion, R	M=Reduced Matrix	, CS=Cov	vered or C	oated Sa	ind Grains. ² Loca	tion: PL=Pore Lining, M=Matrix.
Hydric So	il Indicators: (Appli	cable to a	II LRRs, unless o	therwise	noted.)		Indicators for	Problematic Hydric Soils ³ :
Histo	sol (A1)		Sandy F	Redox (S5	5)			2 cm Muck (A10) (LRR B)
Histic	: Epipedon (A2)		Stripper	d Matrix (S6)			Red Parent Material (TF2)
Black	Histic (A3)		Loamy	Mucky Mi	neral (F1)	(except	MLRA 1)	Other (Explain in Remarks)
Hydro	ogen Sulfide (A4)		Loamy	Gleyed M	atrix (F2))		Very Shallow Dark Surface (TF12)
Deple	eted Below Dark Surfa	ace (A11)	Deplete	d Matrix (F3)			
Thick	Dark Surface (A12)		X Redox I	Dark Surfa	ace (F6)		³ Indicator	s of hydrophytic vegetation and
Sand	y Muck Mineral (S1)		Deplete	d Dark Su	urface (F7)	wetland	d hydrology must be present,
Sand	y gleyed Matrix (S4)		Redox I	Depressio	ons (F8)		unles	s disturbed or problematic.
Restrictiv	e Layer (if present):							
Гуре:								
Donth (incl							vdric Soil Proson	
marks:	nes):					Hy		
marks:	nes):					<u> </u>		
/DROLOG Wetland H	hes): Y lydrology Indicators	 :				H;		
/DROLOG Wetland H Primary Inc	hes): Y lydrology Indicators dicators (any one indi	: cator is su	ifficient)			H;		Secondary Indicators (2 or more required)
<u> <u> </u> </u>	hes): Y Iydrology Indicators dicators (any one indi ce Water (A1)	: cator is su	ıfficient)	Stained Le	eaves (B9) (except	MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2 ,
/DROLOG Wetland H Primary Ind Surfa	iY Iydrology Indicators dicators (any one indi ice Water (A1) Water Table (A2)	: cator is su	 	Stained Le 4A and 4	eaves (B9) (except	MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B)
TOROLOG Wetland H Primary Inc Surfa High Satur	iY Iydrology Indicators dicators (any one indi ice Water (A1) Water Table (A2) ration (A3)	: cator is su	Ifficient) Water-S 1, 2, Salt Cru	Stained Le 4A and 4 Ist (B11)	eaves (B9 B)) (except		Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10)
ZDROLOG Wetland H Primary Ind Surfa High Satur ✓ Wate	hes): Y Iydrology Indicators dicators (any one indi ice Water (A1) Water Table (A2) ration (A3) r Marks (B1)	: cator is su	Ifficient) Water-S 1, 2, Salt Cru Aquatic	Stained Le 4A and 4 Ist (B11) Invertebr	eaves (B9 I B) ates (B13) (except	MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
ZEPUT (Incl marks: ZDROLOG Wetland H Primary Inc Surfa High Satur ✓ Wate Sedir	hes): Y lydrology Indicators dicators (any one indi ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) ment Deposits (B2)	: cator is su	Ifficient) Water-S 1, 2, Salt Cru Aquatic Hydroge	Stained Le 4A and 4 ust (B11) Invertebr en Sulfide	eaves (B9 PB) ates (B13 e Odor (C ²) (except	MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
	hes): y lydrology Indicators dicators (any one indi ice Water (A1) Water Table (A2) ration (A3) r Marks (B1) nent Deposits (B2) Deposits (B3)	: cator is su	Ifficient) Water-S 1, 2, Salt Cru Aquatic Hydroge Oxidize	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp	eaves (B9 I B) ates (B13 e Odor (C ² oheres alc) (except)) (except	■ Roots (C3)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
	hes): y ydrology Indicators dicators (any one indi ace Water (A1) Water Table (A2) ration (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4)	:: cator is su	Ifficient) Water-S 1, 2, Salt Cru Aquatic Hydroge Oxidizer Presend	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp ce of Redu	eaves (B9 I B) ates (B13 e Odor (C ² oheres alc uced Iron) (except)) (except)))))))))))) (C4)	■ Roots (C3)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
ZDROLOG Wetland H Primary Ind Surfa High Satur ✓ Wate Sedir Drift I Algal Iron [hes): Y lydrology Indicators dicators (any one indi ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5)	:: cator is su	Ifficient) Water-S 1, 2, Salt Cru Aquatic Hydroge Oxidized Presend Recent	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp ce of Redu Iron Redu	eaves (B9 B) ates (B13 Odor (C ² oheres alc uced Iron uction in F) (except)) (except)))))))))))))))) (C4) Plowed Sc	■ Roots (C3)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
ZDROLOG Wetland H Primary Ind Surfa High Satur ✓ Wate Mate Sedir Drift I Algal Iron I Surfa	hes): y ydrology Indicators dicators (any one indi ce Water (A1) Water Table (A2) ration (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ice Soil Cracks (B6)	: cator is su	Ifficient) Water-S 1, 2, Salt Cru Aquatic Hydroge Oxidizer Recent Stunted	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp ce of Redu Iron Redu or Stress	eaves (B9 IB) ates (B13 e Odor (C ² oheres alc uced Iron uction in F sed Plants) (except)) (except))))))))))))))))))))))))))	■ Roots (C3)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
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Project/Site:	Albany -	Calapooia /	Willamette River C	<u>Confluence</u> C	City/County: A	Albany, Linn C	County		Sampling Date:		2/10/2020
Applicant/Owner:	City of A	lbany						State: OR	Sampling Point:	SP-2	
Investigator(s):	Greta Presley, Rayna Gleason Section, Town						Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace	e, etc.):	flat, seasonally flo	oded	Local rel	lief (concave,	convex	, none): <u>slightly con</u>	cave Slop	e (%):	
Subregion (LRR):	Columbi	a Plateau (Ll	RR B)	Lat:		44.6	638511	Long:	-123.110795	Datum:	NAD27
Soil Map Unit Nan	ne: <u>F</u>	lolcomb silt l	oam					NWI Classification:	Riverine		
Are climatic / hydr	ologic co	nditions on tl	he site typical for tl	his time of y	ear?	Yes 🗸		No	(If no, explain in Re	emarks)	
Are Vegetation	,	Soil	, or Hydrology	s	significantly dis	turbed?	Are "N	ormal Circumstance	s" Present? Yes	✓	No
Are Vegetation	,	Soil	, or Hydrology	r	naturally proble	matic? ((If need	ed, explain any ansv	vers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	✓ ✓ ✓	No No No	Is the Sampled Area within a Wetland?	Yes _	~	_ No
Under power lines, east of the pilings							

VEGETATION

	Absolute	Dominant	Indicator	Domina	nce Test w	vorkshee	et:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status?	Number	of Domina	nt Specie	es		
1. Alnus rubra	90	Yes	FAC	That Are	OBL, FAC	W, or FA	NC:	3	(A)
2.				Total Nu	mber of Do	ominant			
3.				Species Across All Strata:				3	(B)
4.				Percent	of Dominar	nt Specie	s		
	90 =	Total Cove	r	That Are	OBL, FAC	W, or FA	C:	100%	(A/B)
Shrub Stratum				Prevale	nce Index	Workshe	et:		
1.				То	tal % Cove	er of:		Multiply by:	
2.				OBL spe	cies		x1 =	0	
3.				FACW s	pecies	5	x2 =	10	
4.				FAC spe	cies	100	x3 =	300	
5				FACU sp	pecies		x4 =	0	
	=	Total Cove	r	UPL spe	cies		x5 =	0	
Herb Stratum				Column	Totals:	105	(A)	310	(B)
1. <i>Poa pratensis</i>	10	Yes	FAC	Preva	alence Inde	ex = B/A	=	3.0	
2. <i>Phalaris arundinacea</i>	5	Yes	FACW						
3				Hydroph	nytic Vege	tation In	dicators	:	
4					1 - Rapi	d Test fo	r Hydroph	nytic Vegetation	
5				Х	2 - Dom	inance T	est is >50)%	
6				X	3 - Prev	alence In	dex is ≤	3.0 ¹	
7					4 - Morp	hologica	l Adaptati	ion ^{1,2}	
8					5 - Wetla	and Non-	Vascular	Plants ¹	
	<u> </u>	Total Cove	r		Problem	natic Hyd	rophytic \	/egetation ¹ (Expl	ain)
Woody Vine Stratum				¹ Indicato	rs of hydric	c soil and	wetland	hydrology must	be
1.				present. separate	² Provide s sheet	supporting	g data in	Remarks or on a	
2.				Hydroph	ovtic				
		Total Cove	r	Vegetati	on				
% Bare Ground in Herb Stratum	85 % Cover of Bio	tic Crust	0	Present	?		Yes	√ No	
 Remarks:				1					

Sampling Point: SP-2

iches)	Color (moist)	%	Co	olor (moist)	%	Type ¹	Loc ²	Texture	Remarks
2	10 YR 3/1	70	10 Y	'R 3/2	30	С	М	Silty clay	
7"	10 YR 3/2	80	10 Y	'R 3/6	20	С	М	Silty clay	
6"							Μ	Sand	no discernible matrix color
		·							
pe: C=C	Concentration, D=De	pletion, R	M=Re	duced Matriv	, CS=Cov	vered or C	oated Sa	nd Grains. ² Loca	ation: PL=Pore Lining, M=Matrix.
dric Soil	Indicators: (Appl	icable to a	all LR	Rs, unless c	therwise	noted.)		Indicators for	Problematic Hydric Soils ³ :
Histos	ol (A1)		_	Sandy	Redox (St	5)			2 cm Muck (A10) (LRR B)
Histic E	Epipedon (A2)			Strippe	d Matrix (S	S6)			Red Parent Material (TF2)
Black I	Histic (A3)			Loamy	Mucky Mi	neral (F1)	(except	MLRA 1)	Other (Explain in Remarks)
Hydrog	gen Sulfide (A4)			Loamy	Gleyed M	atrix (F2)			
Deplet	ed Below Dark Sur	ace (A11)		Deplete	ed Matrix ((F3)			
Thick [Dark Surface (A12)			X Redox	Dark Surfa	ace (F6)		³ Indicato	rs of hydrophytic vegetation and
Sandy	Muck Mineral (S1)			Deplete	ed Dark Su	urface (F7)	wetlar	nd hydrology must be present,
Sandy	gleyed Matrix (S4)			Redox	Depressio	ons (F8)		unle	ss disturbed or problematic.
strictive	Layer (if present):								
strictive	Layer (if present):								
strictive be: pth (inche arks:	Layer (if present):						Ну	ydric Soil Preser	nt? Yes <u>√</u> No
strictive be: pth (inche arks:	Layer (if present):						ну	ydric Soil Preser	nt? Yes <u>√</u> No
strictive be: pth (inche arks: ROLOGY	Layer (if present): es):	 					ну	ydric Soil Preser	nt? Yes <u>√</u> No
strictive be: pth (inche arks: ROLOGY etland Hy mary Indi	Layer (if present): es): // // // // // // // // // // // // //	s: icator is su	ufficier				ну	ydric Soil Preser	nt? Yes <u>√</u> No
strictive be: pth (inche arks: ROLOGY tland Hy mary Indi Surfac	Layer (if present): es): // // // // // // // // // // // // //	s: icator is st	ufficier	<u></u>	Stained Le	eaves (B9) (except	/dric Soil Preser	nt? Yes √ No Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2
strictive be: pth (inche arks: ROLOGY etland Hy mary Indi Surfac High W	Layer (if present): es): // // // // // // // // // // // // //	s: icator is si	ufficier	nt) Water-\$ 1, 2,	Stained Le 4A and 4	eaves (B9 I B)	Hy) (except	/dric Soil Preser	nt? Yes <u>√</u> No Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B)
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ROLOGY mary Indi Satura Water Water	Layer (if present): es): vdrology Indicators icators (any one ind e Water (A1) Vater Table (A2) tion (A3) Marks (B1)	s: icator is si	ufficier	nt) Water-\$ Salt Cru Salt Cru	Stained Le 4A and 4 ust (B11) i Invertebr	eaves (B9 IB) rates (B13) (except	vdric Soil Preser	Me No Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
strictive pe: pth (inche arks: ROLOGY etland Hy mary Indi Surfac High W Satura Water Sedime	Layer (if present): es): vdrology Indicators icators (any one ind e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	s: icator is st	ufficier	nt) Water-S Salt Cru Aquatic Hydrog	Stained Le 4A and 4 ust (B11) : Invertebr en Sulfide	eaves (B9 IB) ates (B13 Odor (C1) (except	vdric Soil Preser	Ne Ne Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C8
ROLOGY marks: BROLOGY Mary Indi Surfac High W Satura Water Sedimo Drift Do	Layer (if present): es): ////////////////////////////////////	s: icator is si	ufficier -	nt) Water3 1, 2, Salt Cru Aquatic Hydrog ✔ Oxidize	Stained Le 4A and 4 ust (B11) Invertebr en Sulfide ed Rhizosp	eaves (B9 IB) rates (B13 e Odor (C1 oheres alo) (except	Veric Soil Preser	Ne Ne Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2)
ROLOGY mary Indi Satura Water Satura Drift Do Algal N	Layer (if present): es): ////////////////////////////////////	s: icator is si	ufficier -	nt) Water-5 1, 2, Salt Cru Aquatic Hydrog ✓ Oxidize Presen	Stained Le 4 A and 4 ust (B11) Invertebr en Sulfide ed Rhizosp ce of Red	eaves (B9 IB) ates (B13 e Odor (C1 oheres alo uced Iron) (except) ng Living (C4)	Vdric Soil Preser	Me No Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2) Shallow Aquitard (D3)
strictive strictive pe: pth (inche arks: ROLOGY stland Hy mary Indi Surfac High W Satura Water Satura Unift De Algal M Iron De	Layer (if present): es): vdrology Indicators icators (any one ind e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5)	s: icator is si	ufficier -	nt) Water-3 1, 2, Salt Cru Aquatic Hydrog ✓ Oxidize Presen Recent	Stained Le 4A and 4 ust (B11) e Invertebr en Sulfide ed Rhizosp ce of Redu Iron Redu	eaves (B9 IB) ates (B13 odor (C1 oheres alo uced Iron uction in P) (except) (except)) ng Living (C4) lowed Sc	Vdric Soil Preser	Ne Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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strictive strictive pe: pth (inche arks: ROLOGY etland Hy mary Indi Surfac High W Satura Water Sedime Algal M Iron De Surfac Water- Sparse	Layer (if present): es): ////////////////////////////////////	s: icator is si i) ave Surfac	ufficier - - - - - - - - - - - - - - - - - - -	nt) Water-3 1, 2, Salt Cru Aquatic Hydrog ✓ Oxidize Presen Recent Stuntec Other ()	Stained Le 4A and 4 ust (B11) e Invertebr en Sulfide d Rhizosp ce of Redu Iron Redu I or Stress Explain in	eaves (B9 IB) ates (B13 odor (C1 oheres alo uced Iron uction in P sed Plants Remarks) (except) ng Living (C4) lowed Sc (D1) (LR	Vdric Soil Preser	Yes √ No Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
strictive strictive pe: pth (inche arks: ROLOGY tland Hy mary Indi Surfac High W Satura Water Sedime Algal M Iron De Surfac Water- Sparse Id Obser	Layer (if present): es): rdrology Indicators icators (any one ind e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) the Soil Cracks (B6) Stained Leaves (B5) ely Vegetated Conc rvations: the Deposit (2000)	s: icator is si i) ave Surfac Total Cov	ufficier - 	nt) Water-3 1, 2, Salt Cru Aquatic Hydrog ✓ Oxidize Presen Recent Stuntec Other ()	Stained Lee 4A and 4 ust (B11) e Invertebr en Sulfide ed Rhizosp ce of Redu Iron Redu Iron Redu d or Stress Explain in	eaves (B9 IB) ates (B13 oberes alo uced Iron uction in P sed Plants Remarks) (except) (except)) ng Living (C4) lowed Sc (D1) (LR	Veric Soil Preser	Me Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
strictive pe: pth (inche arks: ROLOGY etland Hy mary Indi Surfac High W Satura Satura Vater Sedimu Sedimu Sedimu Sedimu Surfac Nater Surfac Surfac Surfac Surfac Surfac Surfac Surfac Surfac Surfac Surfac	Layer (if present): es):	s: icator is sı icator is sı icator is sı icator is sı icator is sı icator is sı	ufficier - - - - - - - - - - - - - - - - - - -	nt) Water 1, 2, Salt Cri Aquatic Hydrog ✔ Oxidize Presen Recent Stuntec Other () Dept	Stained Lee 4A and 4 ust (B11) Invertebr en Sulfide ed Rhizosp ce of Redu Iron Redu I or Stress Explain in h (inches)	eaves (B9 IB) ates (B13 e Odor (C1 oheres alo uced Iron uction in P sed Plants Remarks)) (except))))) ng Living (C4) ! lowed Sc (D1) (LR)) 0	Vdric Soil Preser	Me No Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
strictive pe: pth (inche arks: ROLOGY etland Hy mary Indi Surfac High W Satura Water Sedime Sedime Sedime Nater Surfac	Layer (if present): es): rdrology Indicators icators (any one ind e Water (A1) Vater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) e Soil Cracks (B6) ·Stained Leaves (B5) ely Vegetated Conc rvations: ter Present? Present? Yeresent? Yeresent?	e) ave Surfac Total Cov es es	ufficier 	nt) Water 1, 2, Salt Cru Aquatic Hydrog ✓ Oxidize Presen Recent Stunted Other (1) ✓ Dept	Stained Lee 4A and 4 ust (B11) Invertebr en Sulfide d Rhizosp ce of Redu Iron Redu Iron Redu d or Stress Explain in h (inches)	eaves (B9 HB) eates (B13 e Odor (C1 oheres alo uced Iron uced Iron uction in P sed Plants Remarks : : : : : : : : : : : : :)) (except))) ng Living (C4) lowed Sc (D1) (LR) 0	Vdric Soil Preser	Me No Secondary Indicators (2 or more required Water-Stained Leaves (B9) (MLRA 1, 2 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (CS Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site:	Albany - Cal	apooia / Willamette River	Confluence City	/County: <u>Albany, Lir</u>	nn County		Sampling Dat	e:	2/10/2020
Applicant/Owner:	City of Albar	ıy				State: OR	Sampling Poir	nt: <u>SP-3</u>	
Investigator(s):	Greta Presle	ey, Rayna Gleason		Section, Townsh	ip, Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace, et	c.): <u>floodplain</u>		Local relief (conca	ave, convex	(, none): <u>convex</u>	S	lope (%):	10
Subregion (LRR):	Columbia Pl	ateau (LRR B)	Lat:		44.63875	Long:	-123.110722	Datum:	NAD27
Soil Map Unit Nan	ne: Holo	omb silt loam				NWI Classification:	Riverine		
Are climatic / hydr	ologic conditi	ons on the site typical for	this time of yea	r? Yes	/	No	(If no, explain in	Remarks	
Are Vegetation	, Soi	, or Hydrology	sig	nificantly disturbed?	Are "N	ormal Circumstance	s" Present? Y	es 🗸	No
Are Vegetation	, Soil	, or Hydrology	nat	urally problematic?	(If need	ed, explain any ans	vers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes _ Yes _ Yes _	✓	No No No	✓ ✓	Is the Sampled Area within a Wetland?	Yes	No	
On topographic rise between SP-1 a	nd SP-2							

VEGETATION

% Cover	Species?	Status?	Number of Dominant S	Specie	s		
			That Are Obl., FACW	or FA	NC:	1	(A)
			Total Number of Domi Species Across All Str	nant ata:		2	(B)
=	= Total Cover		Percent of Dominant S Are OBL, FACW, or F	Specie AC:	s That	50%	(A/B)
			Prevalence Index Wo	orkshe	et:		
5	yes	FAC	Total % Cover of	of:		Multiply by:	
25	no*	FACW	OBL species		x1 =	0	
			FACW species	100	x2 =	200	
			FAC species		x3 =	0	
			FACU species	5	x4 =	20	
30 =	Total Cover	r	UPL species		x5 =	0	
			Column Totals:	105	(A)	220	(B)
100	Yes	FACW	Prevalence Index	= B/A	=	2.1	
			Hydrophytic Vegetat	ion In	dicators		
			1 - Rapid T	est for	r Hydropł	nytic Vegetation	
			2 - Domina	nce Te	est is >50)%	
			X 3 - Prevale	nce In	dex is ≤	3.0 ¹	
			4 - Morpho	logica	l Adaptat	ion ^{1,2}	
			5 - Wetland	l Non-	Vascular	Plants ¹	
100 =	Total Cover	r	Problemati	c Hvdi	rophytic \	/egetation ¹ (Expla	ain)
			¹ Indicators of hydric so present. ² Provide sup separate sheet	pil and	wetland g data in	hydrology must I Remarks or on a	be
			Hydrophytic				
= 6 Cover of Bio	Total Cover	r 0	Vegetation Present?		Yes	√ No	
	5 25 	= Total Cover = Total Cover 25 no* 100 Yes 100 Yes 100 = Total Cover = Total Cover 6 Cover of Biotic Crust		5 yes FAC 25 no* FACW 25 no* FACW 30 = Total Cover OBL species 30 = Total Cover OBL species 30 = Total Cover OBL species 100 Yes FACW 100 Total Cover 1 - Rapid T 100 Total Cover Yes 100 Total Cover Yesetaton 100	10tal Number of Dominant	10ta Number of Dominant Species Across All Strata: = Total Cover 5 yes 25 no* FAC OBL species Are OBL, FACW, or FAC: Prevalence Index Worksheet: Total % Cover of: 0BL species Are OBL species Are OBL species State OBL species FACW FAC species FACU species Total Cover OBL species State OBL species State OBL species State OBL species FACW Prevalence Index # B/A = OPL species Column Totals: 100 Yes FACW Prevalence Index = B/A = Optiminant Species 100 Yes FACW Prevalence Index = B/A = Yes Yes Yes Yes <tr< td=""><td>India Number of Dominant Species Across All Strata: 2 Percent of Dominant Species That 50% Percent of Dominant Species That 50% Percent of Dominant Species That 50% Prevalence Index Worksheet: 50% Diamond Species x1 = 0 FACW FACW OBL species x1 = 0 FAC species x3 = 0 FAC species x3 = 0 FAC species 5 × 4 = 20 UPL species 5 × 4 = 20 IO0 Yes FACW Prevalence Index = B/A = 2.1 IO0 Yes FACW Prevalence Index = B/A = 2.1 IO0 Yes FACW Prevalence Index = B/A = 2.1 IO0 Yes FACW Prevalence Index = B/A = 2.1 IO0 Yes FACW Prevalence Index = B/A = 2.1 IO0 Yes FACW Prevalence Index is ≤3.0¹ 4 - Morphological Adaptation^{1,2} 5 - Wetland Non-Vascular Plants¹ IO0 Total Cover Hydrophytic vegetation 1 (Explation 1 (Explation 1 (Explation 1 (Explation 1 (Exp</td></tr<>	India Number of Dominant Species Across All Strata: 2 Percent of Dominant Species That 50% Percent of Dominant Species That 50% Percent of Dominant Species That 50% Prevalence Index Worksheet: 50% Diamond Species x1 = 0 FACW FACW OBL species x1 = 0 FAC species x3 = 0 FAC species x3 = 0 FAC species 5 × 4 = 20 UPL species 5 × 4 = 20 IO0 Yes FACW Prevalence Index = B/A = 2.1 IO0 Yes FACW Prevalence Index = B/A = 2.1 IO0 Yes FACW Prevalence Index = B/A = 2.1 IO0 Yes FACW Prevalence Index = B/A = 2.1 IO0 Yes FACW Prevalence Index = B/A = 2.1 IO0 Yes FACW Prevalence Index is ≤3.0 ¹ 4 - Morphological Adaptation ^{1,2} 5 - Wetland Non-Vascular Plants ¹ IO0 Total Cover Hydrophytic vegetation 1 (Explation 1 (Explation 1 (Explation 1 (Explation 1 (Exp

SOIL							Sampling Point:	SP-3	
Profile Des	cription: (Desc	cribe to the d	lepth needed to	document the indi	cator or	confirm the absenc	e of indicators.)		
Depth	Matri	ix	R	edox Features					
(inches)	Color (moist	:) %	Color (moist)	% Type ¹	Loc ²	Texture	F	Remarks	
0-6"	10 YR 3/2	100				Silty clay	Ant eggs at 2"		
6-16"						Sand	no discernible ma	atrix color	
			-	·					
				- <u> </u>					
			-						
¹ Type: C=C	Concentration D	=Depletion R	M=Reduced Mat	rix_CS=Covered or	Coated	Sand Grains ² Locat	tion: PI =Pore Lining	n M=Matri	x
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Jonioonnaaton, B	Boplotion, I			ooulou			,	
Hydric Soil	I Indicators: (A	pplicable to	all LRRs, unless	otherwise noted.))	Indicators for P	roblematic Hydric	Soils ³ :	
Histos	ol (A1)		Sandy	Redox (S5)		:	2 cm Muck (A10) (L	RR B)	
Histic	Epipedon (A2)		Strippe	ed Matrix (S6)		!	Red Parent Material	(TF2)	
Black	Histic (A3)		Loamy	Mucky Mineral (F1) (excep	ot MLRA 1)	Other (Explain in Re	marks)	
Hydro	gen Sulfide (A4)		Loamy	Gleyed Matrix (F2	2)				
	ted Below Dark	Surface (A11)		ed Matrix (F3)		3,,			
Thick	Dark Surface (A	12)	Redox	Dark Surface (F6)	7)	Indicators	of hydrophytic veget	ation and	
Sandy	/ Muck Mineral (51) 64)	Deplet	Depressions (FR)	()	wetiand	diaturbad ar problem	resent,	
Bestrictive	gleyed Matrix (54)	Redox	Depressions (Fo)		uniess	disturbed of probler	nauc.	
T	Layer (il prese	nıy.							
Type: Depth (inch	es).		<u> </u>			Judric Soil Procont?	yes		No 🖌
Bopai (mon					'	Iyunc Son Fresent:	100		<u> </u>
HYDROLOG	Y								
Wetland Hy	ydrology Indica	tors:				-		-	
Primary Ind	icators (any one	indicator is s	ufficient)	<u></u>		<u></u>	econdary Indicators	(2 or more	e required)
Surfac	ce Water (A1)		Water-	Stained Leaves (B	9) (exce l	ot MLRA	Water-Stained Leav	es (B9) (M	LRA 1, 2,
Hign V	vater Table (A2))	1, 2 Salt Ci	2, 4A and 4B)		—	4A and 4B)	240)	
Satura Water	Marks (B1)		Salt Ci	ust (BTT) c Invertebrates (B1	3)		Drainage Patterns (i Dry Season Water I	310) Table (C2)	
Valer Sedim	inarias (DT) ient Denosits (B'	2)	Aquau Hydror	ren Sulfide Odor (C	3) `1)	—	Saturation Visible or		(CQ) vranc
Drift D	enosits (B3)	-)		ed Rhizospheres al	ona Livir	ng Roots (C3)	Geomorphic Positio	n (D2)	agery (00)
Algal I	Mat or Crust (B4)	Preser	nce of Reduced Iror	וואַ (C4)	ig (10010 (000)	Shallow Aquitard (D	3)	
Iron D	eposits (B5)	,	Recen	t Iron Reduction in	Plowed S	Soils (C6)	FAC-Neutral Test (D	-))5)	
Surfac	e Soil Cracks (E	36)	Stunte	d or Stressed Plant	ts (D1) (L	_RR A)	Raised Ant Mounds	(D6) (LRR	A)
Water	-Stained Leaves	(B9)	Other	(Explain in Remark	s)	·	Frost-Heave Humme	ocks (D7)	,
Sparse	ely Vegetated C	oncave Surfa	ce (B8)						
Field Obse	rvations:								
Surface Wa	ter Present?	Yes	No 🖌 Dep	th (inches):	0				
Water table	Present?	Yes	No 🖌 Dep	th (inches) [,] >16"					
Saturation F	Present?	Yes	No 🗸 Dep	th (inches): >16"		Wetland Hydrolo	gy Present?	Yes	No √
(includes ca	apillary fringe)								
Describe Rec	orded Data (stre	am gauge, m	onitoring well, ae	rial photos, previous	s inspect	ions), if available:			
US Army Corp	ps of Engineers					Wester	rn Mountains, Valley	s and Coa	st - Version 2.0

Project/Site:	Albany - Calapooia	i / Willamette River (Confluence City	/County: <u>Albany, Linn</u>	County		Sampling Date:		2/10/2020
Applicant/Owner:	City of Albany					State: OR	Sampling Point:	SP-4	
Investigator(s):	Greta Presley, Ray	na Gleason		Section, Township	o, Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace, etc.):	floodplain		Local relief (concav	ve, conve	(, none): <u>concave</u>	Slo	oe (%):	0-1
Subregion (LRR):	Columbia Plateau	(LRR B)	Lat:	2	44.63875	Long:	-123.111209	Datum:	NAD27
Soil Map Unit Nan	ne: Holcomb si	It loam				NWI Classification:	Riverine		
Are climatic / hydr	ologic conditions on	the site typical for the	his time of year	? Yes <mark>√</mark>		No	(If no, explain in R	emarks)	
Are Vegetation	, Soil	, or Hydrology	sig	nificantly disturbed?	Are "N	ormal Circumstance	s" Present? Yes	~	No
Are Vegetation	, Soil	, or Hydrology	nat	urally problematic?	(If need	ed, explain any ansv	vers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No Yes No	Is the Sampled Area within a Wetland?	Yes 🖌 No	
~200 North of amphitheatre				

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status?	Dominar Number o Are OBI	of Dominal FACW_0	vorkshee nt Specie: r FAC [.]	t: s That		
1 2 3				Total Nur Species	mber of Do Across All	ominant Strata:	_	2 3	(A) (B)
ł	:	= Total Cover		Percent of Are OBL,	of Dominar FACW, o	nt Species r FAC:	s That	67%	(A/B)
Shrub Stratum				Prevalen	ce Index	Workshe	et:		
I. Salix lasiandra	70	yes	FACW	To	tal % Cove	er of:		Multiply by:	
<u>.</u>				OBL spe	cies		x1 =	0	
s				FACW sp	pecies	90	x2 =	180	
				FAC spe	cies		x3 =	0	
-				FACU sp	ecies	30	x4 =	120	
	70 :	= Total Cover		UPL spec	cies		x5 =	0	
lerb Stratum				Column T	Fotals:	120	(A)	300	(B)
. Phalaris arundinacea	20	Yes	FACW	Prev	alence Ind	lex = B/A	=	2.5	_
				Hydroph	vtic Vogo	tation Inc	licators.		
·				nyaropi	1 - Rani	d Test for	Hydronby	utic Vegetation	
·				Y	2 - Dom	inance Te	rigatoph	%	
·				 	2 - Dom 3 - Prov		dav ie <3	0 ¹	
·					4 - Morr		uci is uci Adaptatiα	.0 201,2	
					5 - Wot	and Non-		Plante ¹	
		- Total Cava			 Droblom	anu Non-	onbutic V	- Idilis	in)
Woody Vine Stratum	20			¹ Indicator	rs of hydric	soil and	wetland h	ydrology must b	e
. Rubus ursinus	30	Yes	FACU	present.	Provide s	supporting	j data in F	Remarks or on a	
% Bare Ground in Herb Stratum8	30 = 0 % Cover of Bio	Total Cover	0	Hydroph Vegetati Present?	ytic on		Yes	√No	

US Army Corps of Engineers

SOIL								Sampling Poir	nt: SP-4	
Profile Des	cription: (Desc	ribe to the d	epth needed	o documen	t the indic	cator o	r confirm the abse	nce of indicators	i.)	
Depth	Matri	x		Redox Feat	tures					
(inches)	Color (moist)	0/2	Color (mois	t) %	Type ¹	Loc	² Texture		Pemarke	
				10 10			Silty day		Remarks	
7.10"	10 11 3/1		10 11 3/0	10	<u> </u>					
7-16"		100					Coarse sand	no discernible	e matrix color	
					·					
¹ Type: C=C	Concentration, D	Depletion, R	M=Reduced M	latrix, CS=Co	overed or	Coated	I Sand Grains. ² Loca	ation: PL=Pore Li	ning, M=Matr	ix.
Hydric Soi	I Indicators: (A	pplicable to a	all LRRs, unle	ss otherwis	e noted.)		Indicators for	Problematic Hyd	Iric Soils":	
Histos	sol (A1)		Sar	ndy Redox (S	\$5)			2 cm Muck (A10) (LRR B)	
Histic	Epipedon (A2)		Stri	pped Matrix	(S6)			Red Parent Mat	erial (TF2)	
Black	Histic (A3)		Loa	my Mucky N	lineral (F1) (exce	pt MLRA 1)	Other (Explain in	n Remarks)	
Hydro	gen Sulfide (A4)		Loa	my Gleyed N	Aatrix (F2)				
Deple	ted Below Dark S	Surface (A11)	De	oleted Matrix	(F3)					
Thick	Dark Surface (A1	12)	X Red	lox Dark Sur	face (F6)		³ Indicators	s of hydrophytic v	egetation and	l
Sandy	/ Muck Mineral (S	S1)	Dep	oleted Dark S	Surface (F	7)	wetland	d hydrology must	be present,	
Sandy	v gleyed Matrix (S	64)	Ree	lox Depressi	ons (F8)		unles	s disturbed or pro	blematic.	
Restrictive	Layer (if prese	nt):								
Turno:		,								
Depth (inch	les):						Hydric Soil Presen	+2 Y	es √	No
									<u> </u>	
	_									
HYDROLOG	Y									
Wetland H	ydrology Indica	tors:								
Primary ind	licators (any one	indicator is s	unicient)		(5.6		·	Secondary Indica	tors (2 or mo	re required)
Surfac	ce Water (A1)		Wa	ter-Stained L	eaves (BS) (exc	ept MLRA	Water-Stained L	.eaves (B9) (I	ИLRA 1, 2,
High V	Vater Table (A2)			1, 2, 4A and	4B)			4A and 4B)		
Satura	ation (A3)		Sal	t Crust (B11)				Drainage Patter	ns (B10)	
Water	Marks (B1)		Aqu	atic Inverteb	orates (B13	3)		Dry-Season Wa	ter Table (C2)
Sedim	ent Deposits (B2	2)	Hyo	Irogen Sulfid	e Odor (C	1)		Saturation Visib	le on Aerial In	nagery (C9)
✓ Drift D	eposits (B3)		✓ Oxi	dized Rhizos	pheres alo	ong Liv	ring Roots (C3)	Geomorphic Pos	sition (D2)	
Algal I	Mat or Crust (B4))	Pre	sence of Red	duced Iron	n (C4)		Shallow Aquitare	d (D3)	
Iron D	eposits (B5)		Ree	ent Iron Red	luction in F	Plowed	Soils (C6)	FAC-Neutral Te	st (D5)	
Surfac	ce Soil Cracks (B	6)	Stu	nted or Stres	sed Plant	s (D1)	(LRR A)	Raised Ant Mou	nds (D6) (LR I	R A)
✓ Water	-Stained Leaves	(B9)	Oth	er (Explain ir	n Remarks	s)		Frost-Heave Hu	mmocks (D7)	
Spars	ely Vegetated Co	oncave Surfac	ce (B8)							
Field Obse	rvations:									
Surface Wa	ater Present?	Yes	No ✓ D	epth (inches):	0				
	_				·					
Water table	Present?	Yes		epth (inches): >16"					
Saturation I	Present?	Yes	No <u>√</u> □	epth (inches): >16"		Wetland Hydro	ology Present?	Yes <mark>√</mark>	_No
(Includes ca	apiliary fringe)	om douido im	onitoring woll	oorial photos	provious	inener	tions) if available:			
Describe Rec	olueu Data (Silea	am yauye, m	onitoring weil,	aenai priotos	, previous	inspec	cuons), il avaliable.			
Flood deposit	s. ORZs within to	op 2". Plot loc	ated at end of	low backwat	er area.					
US Army Cor	ps of Engineers						West	ern Mountains, Va	alleys and Co	ast - Version 2.0

Project/Site:	Albany - Calapooia	/ Willamette River 0	Confluence City/C	County: <u>Albany, Linn</u>	County		Sampling Date:		2/10/2020
Applicant/Owner:	City of Albany					State: OR	Sampling Point:	SP-5	
Investigator(s):	Greta Presley, Ray	na Gleason		Section, Township	, Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace, etc.):	small hill		Local relief (concav	e, convex	(, none): <u>convex</u>	Slop	be (%):	5
Subregion (LRR):	Columbia Plateau (LRR B)	Lat:	4	4.63859	Long:	-123.111314	Datum:	NAD27
Soil Map Unit Nan	ne: Holcomb sil	t loam				NWI Classification:	Riverine		
Are climatic / hydr	ologic conditions on	the site typical for th	nis time of year?	Yes 🗸		No	(If no, explain in Re	emarks)	
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed?	Are "N	ormal Circumstance	s" Present? Yes	✓	No
Are Vegetation	, Soil	, or Hydrology	natu	ally problematic?	(If need	ed, explain any ansv	vers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	V	No No No	✓ ✓	Is the Sampled Area within a Wetland?	Yes	N	No	√	
Plot located approximately 20' SE SF	P-4.									

VEGETATION

<u>Tree Stratum</u> (Use scientific names.) 1	Absolute % Cover	Dominant Species?	Indicator Status?	Dominance To Number of Dor Are OBL, FAC	est workshee minant Specie W, or FAC:	t: s That	2	(A)
2 3				Total Number Species Acros	of Dominant s All Strata:		3	(B)
4	=	= Total Cove	r	Percent of Dor Are OBL, FAC	ninant Species W, or FAC:	s That	67%	(A/B)
Shrub Stratum				Prevalence In	dex Workshe	et:		
1. <u>Salix lasiandra</u>	60	yes	FACW	Total %	Cover of:		Multiply by:	
2				OBL species		x1 =	0	
3				FACW species	s <u>160</u>	x2 =	320	
4				FAC species		x3 =	0	
5				FACU species	5	x4 =	20	
	60 =	Total Cove	r	UPL species		x5 =	0	
Herb Stratum				Column Totals	: 165	(A)	340	(B)
1. Phalaris arundinacea	100	Yes	FACW	Prevalenc	e Index = B/A	=	2.1	
2 3.				Hydrophytic \	/egetation Ind	dicators:		
4			·	1 -	Ranid Test for	Hydroph	vtic Vegetation	
5				x 2-	Dominance Te	et is >50	%	
6				<u> </u>	Prevalence In	dev is <3	10 ¹	
7				<u> </u>	Morphological	Adaptati	on ^{1,2}	
P				4 -	Wotland Non '	Vacaular	Planta ¹	
		Total Cava		J -	blomotic Hydr	vasculai	ridills	in)
Marcheller - Oberhaue		- Total Cove	I	¹ Indicators of h	vdric soil and	wetland h	vdrology must b	e
woody vine Stratum			FACU	present. ² Prov	vide supporting	g data in F	Remarks or on a	
1. <u>Rubus ursinus</u>	5	Yes	1 400	separate sheet	t			
2% Bare Ground in Herb Stratum	5 = % Cover of Bio	= Total Cove tic Crust	r0	Hydrophytic Vegetation Present?		Yes	√ No	

US Army Corps of Engineers

SOIL							Sampling Poir	nt: SP-5	
Profile De	scription: (Desc	ribe to the d	epth needed to	document the indi	cator or	confirm the absend	ce of indicator	s.)	
Depth	Matri	x	R	edox Features					
(inches)	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	- Texture		Remarks	
0-7"	10 YR 3/2	100				Silty clay	Few ORZs		
7-16"				·		Coarse Sand	No hydrology	ı ~3'	
	·			·			Higher than \$	SP-4	
					·				
¹ Type: C=	Concentration, D	=Depletion, R	M=Reduced Mat	rix, CS=Covered or	Coated S	Sand Grains. ² Locati	ion: PL=Pore L	ining, M=Ma	trix.
Hydric So	il Indicators: (A	pplicable to a	all LRRs, unless	otherwise noted.)		Indicators for P	roblematic Hy	dric Soils":	
Histo	sol (A1)		Sandy	Redox (S5)			2 cm Muck (A10)) (LRR B)	
Histic	Epipedon (A2)		Strippe	ed Matrix (S6)			Red Parent Mat	erial (TF2)	
віаск	(Histic (A3)		Loamy	Mucky Mineral (F1) (except	(MLRA 1)	Other (Explain I	n Remarks)	
Hydro	ogen Sulfide (A4)		Loamy	Gleyed Matrix (F2	2)				
	Dark Sufferer (* *	ourrace (A11)		eu Matrix (F3)		31	loro of hurdens !	dia	
Thick	Dark Surface (A1	I∠)	Redox	Dark Surface (F6)	7)	~Indicat	iors of nydrophy	uc vegetation	n and
Sand	ly Muck Mineral (S	51)	Deplet	ed Dark Surface (F	7)	wetland r	nyarology must	be present,	
Sand	ly gleyed Matrix (S	54)	Redox	Depressions (F8)		uniess	disturbed or pro	blematic.	
Restrictiv	e Layer (if presei	nt):							
Type:									
Depth (incl	hes):	_			H	ydric Soil Present?	? Y	es	No <u>√</u>
IYDROLOG Wetland H	SY Iydrology Indica	tors:							
Primary In	dicators (any one	indicator is su	ufficient)			S	econdary Indica	ators (2 or mo	ore required)
Surfa	ice Water (A1)		Water-	Stained Leaves (B	9) (excep	t MLRA	Water-Stained I	eaves (B9) (MLRA 1, 2,
High	Water Table (A2)		1, 2	2, 4A and 4B)			4A and 4B)		
Satur	ration (A3)		Salt C	rust (B11)		[Drainage Patter	ns (B10)	
Wate	r Marks (B1)		Aquati	c Invertebrates (B1	3)	(Dry-Season Wa	ter Table (C2	2)
Sedir	ment Deposits (B2	2)	Hydrog	gen Sulfide Odor (C	:1)	\$	Saturation Visib	le on Aerial I	magery (C9)
Drift I	Deposits (B3)		✓ Oxidiz	ed Rhizospheres alc	ong Living	Roots (C3)	Geomorphic Po	sition (D2)	
Algal	Mat or Crust (B4))	Preser	nce of Reduced Iror	n (C4)	\$	Shallow Aquitar	d (D3)	
Iron [Deposits (B5)		Recen	t Iron Reduction in	Plowed S	ioils (C6)	FAC-Neutral Te	st (D5)	
Surfa	ice Soil Cracks (B	6)	Stunte	d or Stressed Plant	s (D1) (L	RR A) [Raised Ant Mou	inds (D6) (LR	RA)
Wate	r-Stained Leaves	(B9)	Other	(Explain in Remarks	s)	F	Frost-Heave Hu	mmocks (D7)
Spars	sely Vegetated Co	oncave Surfac	e (B8)						
Field Obs	ervations:								
Surface W	ater Present?	Yes	No Dep	th (inches):	0				
Water table	e Present?	Yes	No Dep	th (inches): >16"					
Saturation	Present?	Yes	No Dep	th (inches): >16"		Wetland Hydrolo	ogy Present?	Yes <u>√</u>	No
(includes o	capillary fringe)			· · · · · · ·					
Describe Re	corded Data (strea	am gauge, mo	onitoring well, ae	rial photos, previous	s inspecti	ons), if available:			
Few ORZs. F	Plot situated appro	oximately 3' h	igher than SP-4.						
		-							
IS Army Co	rns of Engineers					Wester	n Mountains V	allevs and Co	hast - Version 3

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ns, Vall

Project/Site:	Albany - Cala	pooia / Willamette River	Confluence C	City/County: Alba	ny, Linn County		Sampling Date:		2/10/2020
Applicant/Owner:	City of Albany					State: OR	Sampling Point:	SP-6	
Investigator(s):	Greta Presley	, Rayna Gleason		Section, To	wnship, Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace, etc.)	: floodplain		Local relief	(concave, conve	x, none): <u>convex</u>	Slop	be (%):	5
Subregion (LRR):	Columbia Plat	teau (LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: <u>1</u>	VAD27
Soil Map Unit Nan	ne: <u>Holcor</u>	nb silt loam				NWI Classification:	Riverine		
Are climatic / hydr	ologic conditio	ns on the site typical for t	his time of yea	ar?	Yes 🗸	No	(If no, explain in Re	emarks)	
Are Vegetation	, Soil	, or Hydrology	:	significantly disturbe	ed? Are "N	lormal Circumstance	s" Present? Yes	<u> </u>	٥٧
Are Vegetation	, Soil	, or Hydrology	I	naturally problemat	c? (If need	led, explain any ansv	vers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	√ √ √	No No No	Is the Sampled Area within a Wetland?	Yes	~	No	
Plot located approximately 150' Nort	h of amph	iitheate	r.					

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Use scientific names.) 1.		Opecies:		Are OBL, FACW, or FAC: 3 (A)
23.				Total Number of Dominant Species Across All Strata: 3 (B)
4		= Total Cove	r	Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
<u>Shrub Stratum</u> 1. Salix lasiandra	60	Yes	FACW	Prevalence Index Worksheet: Total % Cover of: Multiply by:
2.				OBL species x1 = 0
3.				FACW species 110 x2 = 220
4				FAC species 30 x3 = 90
5	<u> </u>			FACU species x4 =0
	60	= Total Cove	r	UPL species x5 =0
Herb Stratum				Column Totals: 140 (A) 310 (B)
1. Phalaris arundinacea	50	Yes	FACW	Prevalence Index = B/A = 2.2
2. <i>Rumex</i> sp	30	Yes	FAC	
3				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				X 2 - Dominance Test is >50%
6				X 3 - Prevalence Index is $\leq 3.0^1$
7.				4 - Morphological Adaptation ^{1,2}
8.				5 - Wetland Non-Vascular Plants ¹
Woody Vine Stratum	80	= Total Cove	r	Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present. ² Provide supporting data in Remarks or on a separate sheet
2% Bare Ground in Herb Stratum	0 20 % Cover of Biot	= Total Cove tic Crust		Hydrophytic Vegetation Present? Yes_√ No
Willow rooted in wetland further to the north				

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Sampling Po	oint: SP-0	δ
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SOIL								Sampling	J Point: SP-6	
Profile Des	scription: (Descri	be to the d	epth needed	o docume	nt the ind	licator	or confirm the	absence of indi	cators.)	
Depth	Matrix			Redox Fea	tures					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc	² Texture	9	Remarks	
0-10"	10 YR 3/1	80	7.5 YR 3/4	20	C	M	Silty clay	<u> </u>		
10-16"	10 YR 2/2	100			- <u> </u>		Silty clay	Water a	t 14"	
10 10	10 11(2/2					·	<u>only only</u>			
		·				·				
<u> </u>										
						·				
<u> </u>		•								
	Concentration D=[Depletion D			Covered of	r Caata	d Cand Craina	² Leastian, DL=	Dara Lining M-N	latrix
Type. C=C	Joncentration, D-L		INI-Reduced N	aurix, 05–0		Coale	a Sana Grains.	Location. PL-r	Fore Lining, M-N	iauix.
Hvdric Soi	Indicators: (Ap	olicable to	all LRRs. unle	ss otherwi	ise noted.		Indicators	s for Problemati	c Hydric Soils ³ :	
Histos	ol (A1)		San	lv Redox (S	35)	-		2 cm Muck	(A10) (LRR B)	
Histic	Eninedon (A2)		Strin	ned Matrix	(S6)			Red Paren	t Material (TE2)	
Black	Histic (Δ 3)			ov Mucky M	(00) Aineral (E1		nt MI RA 1)	Other (Evn	lain in Remarks)	
Diack	aon Sulfido (A4)			by Cloyed N	Motrix (E2				iain in itemarks)	
Hyuro	ted Belew Derk St	rface (A11)	Loan	iy Gleyeu i stad Matrix	VIAUIX (FZ	.)				
Deple	Dark Surfage (A12	mace (ATT)	Depi		(F3) face (F6)		3			
	Dark Surface (A12	.)	V Reu	Dark Sur	Tace (FO)			indicators of nydi	opnytic vegetatio	on and
Sandy	Muck Mineral (S1)	Depl	eted Dark S	Surface (F	()	we	atland hydrology i	nust be present,	
Sandy	gleyed Matrix (S4	.)	Red	ox Depressi	ions (F8)		u	inless disturbed of	or problematic.	
Restrictive	Layer (if present	:):								
Туре:										
Depth (inch	ies):						Hydric Soil Pre	esent?	Yes <u>√</u>	No
Remarks:										
HYDROLOG	Y									
Wetland H	vdrology Indicate	ors								
Primary Ind	licators (any one ir	ndicator is s	ufficient)					Secondary I	ndicators (2 or m	ore required)
<u> </u>	re Water (A1)		Wate	r-Stained I	eaves (BC		ont MI RA	Water-Stai	ned Leaves (B9)	
High \	Nater Table $(A2)$		1	bre AL 2	AB)		optimetta	bace	AB)	(MERA 1, 2,
Fight Soture	tion $(\Lambda 2)$		Solt	2, 4A and Cruct (P11)	4D)			Trainago E	attorno (R10)	
Satura	Morke (P1)			tie Invertek) vrotoo (D1)	2)		Drainage F	allerns (BTU)	20
			Aqua			3)		Dry-Seaso		,2)
Sedim	ient Deposits (B2)			ogen Sulfid	ie Odor (C	.1)		Saturation	VISIBLE ON Aerial	Imagery (C9)
Drift D	eposits (B3)		Oxid	zed Rhizos	spheres al	ong Liv	ving Roots (C3)	Geomorph	ic Position (D2)	
Algal	Mat or Crust (B4)		Pres	ence of Re	duced Iror	ו (C4)		Shallow Ac	uitard (D3)	
Iron D	eposits (B5)		Rece	ent Iron Red	duction in I	Plowed	l Soils (C6)	✓ FAC-Neutr	al Test (D5)	
Surfac	ce Soil Cracks (B6)	Stun	ted or Stres	ssed Plant	s (D1)	(LRR A)	Raised Ant	t Mounds (D6) (L	RR A)
Water	-Stained Leaves (I	39)	Othe	r (Explain i	n Remarks	s)		Frost-Heav	/e Hummocks (D	7)
Spars	ely Vegetated Con	icave Surfa	ce (B8)							
Field Obse	rvations:									
Surface Wa	ter Present?	/ec		nth (inches	.).	0				
Water table	Present?	/es		nth (inches	·)· <u>1</u> 4"					
Saturation	Present?	/es		nth (inches	a): 14"		Wetland H	vdrology Prese	nt? Yes 🖌	No
(includes ca	apillary fringe)			Par (mones	·/· <u>··</u>			,	103 4	
Describe Rec	orded Data (strear	n gauge, m	onitoring well.	aerial photo	os, previou	ıs inspe	ections), if availa	able:		
							<i>,,</i>			
concave posi	tion and swale with	nin floodplai	n underlain by	silty clay so	oils.					
US Army Cor	ps of Engineers						V	Nestern Mountai	ns, Valleys and C	Coast - Version 2.0

Project/Site:	Albany - Calapoo	ia / Willamette River (Confluence Ci	ity/County: <u>Albany, Linr</u>	County		Sampling Date:	2	2/10/2020
Applicant/Owner:	City of Albany					State: OR	Sampling Point	: <u>SP-7</u>	
Investigator(s):	Greta Presley, Ra	iyna Gleason		Section, Township	, Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace, etc.):	slight slope		Local relief (concav	e, conve	x, none): <u>convex</u>	Slo	pe (%): <u>2</u>	-5
Subregion (LRR):	Columbia Plateau	I (LRR B)	Lat:	2	44.63859	Long:	-123.111314	Datum: N	IAD27
Soil Map Unit Nan	ne: <u>Holcomb s</u>	silt loam				NWI Classification:	Riverine		
Are climatic / hydr	ologic conditions c	on the site typical for t	this time of yea	r? Yes <mark>√</mark>		No	(If no, explain in F	Remarks)	
Are Vegetation	, Soil	, or Hydrology	s	ignificantly disturbed?	Are "N	lormal Circumstance	s" Present? Yes	s 🖌 N	lo
Are Vegetation	, Soil	, or Hydrology	n	aturally problematic?	(If need	led, explain any ans	wers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>✓</mark> Yes Yes	No No ✓ No ✓	 Is the Sampled Area within a Wetland? 	Yes	No <u>√</u>	_
Plot located approximately 7' SW of	SP-6, on a sk	ope up to the cerr	nent path.			

VEGETATION

	Absolute %	Dominant	Indicator	Dominance Test	workshee	t:		
Tree Stratum (Use scientific names.)	Cover	Species?	Status?	Number of Domin	ant Specie	s		
1				That Are OBL, FA	CW, or FA	.C:	3	(A)
2				Total Number of D	Dominant			
3				Species Across A	Il Strata:		4	(B)
4				Percent of Domina	ant Species	S		
	=	 Total Cove 	r	That Are OBL, FA	CW, or FA	C:	75%	(A/B)
Shrub Stratum				Prevalence Index	Workshe	et:		
1. Salix lasiandra	60	no*	FACW	Total % Cov	/er of:		Multiply by:	
2				OBL species		x1 =	0	
3				FACW species	20	x2 =	40	
4				FAC species	70	x3 =	210	
5				FACU species	20	x4 =	80	
	60 =	Total Cove	r	UPL species		x5 =	0	
Herb Stratum				Column Totals:	110	(A)	330	(B)
1. <u>Poa pratensis</u>	50	Yes	FAC	Prevalence Inc	dex = B/A =	=	3.0	
2. <i>Rumex</i> sp	30	Yes	FAC					
3. Phalaris arundinacea	20	Yes	FACW	Hydrophytic Veg	etation Ind	dicators:		
4. <u>Tanacetum vulgare</u>	20	Yes	FACU	1 - Rap	oid Test for	Hydroph	ytic Vegetatior	1
5				X 2 - Dor	ninance Te	est is >50°	%	
З				X 3 - Pre	valence In	dex is ≤3	.0 ¹	
7				4 - Mo	rnhological	Adaptatio	n ^{1,2}	
3				4 - We	tland Non-	Vascular I	Plants ¹	
	120 =	Total Cove		9 - We	matic Hydr	onhytic V	egetation ¹ (Ex	nlain)
	120		1	¹ Indicators of hydr	ric soil and	wetland h	vdrology must	piani)
Woody Vine Stratum				be present. ² Prov	ide suppor	ting data	in Remarks or	on
1.				a separate sheet		5		
2.				Hydrophytic				
	0 =	Total Cove	r	Vegetation				
% Bare Ground in Herb Stratum	20 % Cover of Bioti	c Crust	0	Present?		Yes √	No	

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SOIL								Sampling	g Point: SP-7	
Profile Des	cription: (Desc	ribe to the d	epth needed	to docum	ent the indi	cator o	or confirm the al	sence of ind	licators.)	
Donth	Motrix			Rodov Ec	oturoo				·····,	
(in the set)			Oalan (maint		atures Trun - 1	12	- 		Dama	
			COIOI (MOIS) 70	Туре	LOC			Rema	IKS
0.40"	10 YR 3/2	100					sandy clay			
8-16"	10 YR 3/3	100					sandy loam			
1										
'Type: C=C	Concentration, D=	Depletion, R	M=Reduced I	Aatrix, CS	=Covered or	Coated	d Sand Grains. ² L	ocation: PL=	Pore Lining, N	I=Matrix.
Hydric Soil	Indicators: (Ar	nlicable to a	all I RRs uni	ess other	wise noted		Indicators fo	or Problemat	ic Hydric Soil	s ^{3.}
Histos			San	dv Redox	(\$5)		indicatore it	2 cm Muc	k (A10) (I RR F	3)
Histic	Eninedon (A2)		Stri	ned Matri	(00) x (S6)			- Red Parer	nt Material (TE	2)
Black	Histic (Λ 3)			my Mucky	Mineral (E1		MI DA 1)	Other (Ev	alain in Remar	2) ke)
	nistic (A3)		Loa	my Clover) excer				K5)
Hyaro		urface (A.4.4)	Loa	Iny Gleyed	iviauix (F2))				
	eu Below Dark S	urrace (A11)	Dep	ieted Matr	IX (F3)		3, .			
I hick	Dark Surface (A1	∠)	Rec	ox Dark S	urtace (H6)	-	-Ind	icators of hyd	ropnytic veget	auon and
Sandy	Muck Mineral (S	1)	Dep	leted Dark	Surface (F7	()	wetla	nd hydrology	must be prese	nt,
Sandy	gleyed Matrix (S	4)	Rec	ox Depres	ssions (F8)		unle	ess disturbed	or problematic	
Restrictive	Layer (if preser	it):								
Туре:										
Depth (inch	es):					H	lydric Soil Pres	ent?	Yes	No 🗸
IYDROLOG	r / drology Indicat	ors.								
Primary Ind	icators (any one i	ndicator is si	ufficient)					Secondary	Indicators (2 o	r more require
Surfac	e Water (A1)		Wat	er-Stained	Leaves (B9) (exce	pt MLRA	Water-Sta	ined Leaves (F	39) (MLRA 1, 2
High V	Vater Table (A2)		1	. 2. 4A an	d 4B)) (0/100		4A and	1 4B)	50) (IIILIOA 1, L
Satura	tion (A3)		Salt	Crust (B1	1)			 Drainage	· ·=/ Patterns (B10)	
Water	Marks (B1)		Aqui	atic Invert	ebrates (B13	3)		Drv-Seaso	on Water Table	(C2)
Sedim	ent Denosits (B2)	Hvd	rogen Sult	fide Odor (C	-, 1)		- Saturation	Visible on Ae	rial Imagery (C
Drift D	enosits (B3))	Oxi	lized Rhiz	ospheres alc	יי na Livi	ng Roots (C3)	Geomorph	nic Position (D)	2)
	Aat or Crust (B4)		Dre	sence of R		(C4)		Shallow A	quitard (D3)	_)
Iron D	enosite (B5)		Rec	ent Iron R	eduction in F		Soils (C6)	EAC-Neut	ral Test (D5)	
IIOII D	eposits (DD) e Soil Cracks (Bi	3)		ent non r				_ Raised An	it Mounds (D6)	
Suitat	Stained Leaves	(BQ)	Oth	ar (Evolair	in Remarks	s (DI) (L :)		Erost-Hea	ve Hummocks	
Spore	bully Vogotated Co	noovo Surfoc	Out		r in rtemarka	<i>''</i>			ve Hummoeks	(07)
		noave Sund								
Field Obse	rvations:									
Surface Wa	ter Present?	Yes	No <u>√</u> D	epth (inche	es):	0				
Water table	Present?	Yes	No <u>√</u> D	epth (inche	es): <u>>16"</u>					
Saturation I	Present?	Yes	No <u>✓</u> D	epth (inche	es): <u>>16"</u>		Wetland Hyd	rology Prese	ent? Yes_	No <u>√</u>
(Includes ca	apillary tringe)	m aourae	nitoring we"	ooriel ni-	too proview	o incre	otiona) if avail-t			
Jescribe Rec	orded Data (strea	un gauge, me	printoring well,	aeriai pho	nos, previou	s inspe	cuons), if availab	le		
Well drained	on slope up from	floodplain be	nch.							
IS Army Cor	os of Engineers						Wes	stern Mountai	ns. Vallevs an	d Coast - Versi

s, Valleys and Co

Project/Site:	Albany - 0	Calapooia /	Willamette River	Confluence (City/County: <u>Alban</u>	, Linn County		Sampling Date:		2/10/2020
Applicant/Owner:	City of All	bany					State: OR	Sampling Point:	SP-8	
Investigator(s):	Greta Pre	sley, Rayn	a Gleason		Section, Tov	nship, Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace,	etc.):	gradual slope		Local relief (c	oncave, conve	x, none): <u>convex</u>	Slop	be (%):	5
Subregion (LRR):	Columbia	Plateau (L	RR B)	Lat:		44.63859	Long:	-123.111314	Datum: <u>N</u>	JAD27
Soil Map Unit Nan	ne: <u>Ho</u>	olcomb silt	loam				NWI Classification:	Riverine		
Are climatic / hydr	ologic con	ditions on t	he site typical for	this time of ye	ear?	′es <mark>√</mark>	No	(If no, explain in R	emarks)	
Are Vegetation	, s	Soil	, or Hydrology		significantly disturbe	d? Are "N	lormal Circumstance	es" Present? Yes	<u>√</u> N	1o
Are Vegetation	, s	Soil	, or Hydrology		naturally problemation	? (If need	ded, explain any ans	wers in Remarks.)		

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes <mark>√</mark> Yes <mark>√</mark>	No No No	Is the Sampled Area within a Wetland?	Yes 🖌	_ No
Plot located approximately 30' south	of amphitheat	er in lawn area.			

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test	worksheet:			
Tree Stratum (Use scientific names.)	% Cover	Species?	Status?	Number of Domina	ant Species			
1. Fagus sylvatica purpurea	15	No*	NL	That Are OBL, FA	CVV, OF FAC:		1	(A)
2				Total Number of D	Oominant			
3				Species Across Al	Il Strata:		1	(B)
4				Percent of Domina	ant Species			
		 Total Cove 	r	That Are OBL, FA	CW, or FAC:		100%	(A/B)
Shrub Stratum				Prevalence Index	Worksheet:	:		
1				Total % Cov	/er of:		Multiply by:	
2				OBL species	x	(1 =	0	
3				FACW species	x	(2 =	0	
4				FAC species	<u> 100 </u>	(3 =	300	
5				FACU species	x	(4 =	0	
	=	 Total Cove 	r	UPL species	x	(5 =	0	
Herb Stratum				Column Totals:	<u> 100 (</u>	A)	300	(B)
1. <u>Poa annua</u>	90	Yes	FAC	Prevalence Inc	dex = B/A =		3.0	
2. <u>Trifolium repens</u>	10	No	FAC					
3				Hydrophytic Veg	etation Indic	ators:		
4				1 - Rap	oid Test for Hy	ydrophytic	C Vegetation	i .
5				X 2 - Dor	minance Test	is >50%		
6				<u>X</u> 3 - Pre	valence Index	k is ≤3.0 ¹		
7				4 - Mor	phological Ac	daptation ¹	1,2	
8				5 - Wei	tland Non-Va	scular Pla	ints ¹	
	100 =	Total Cove	r	Proble	matic Hydropl	hvtic Vea	etation ¹ (Ex	plain)
Mandu Mina Charles			•	¹ Indicators of hydr	ic soil and we	etland hyd	Irology must	t
woody vine Stratum				be present. ² Prov	ide supporting	g data in l	Remarks or	on
1				a separate sheet				
2				Hydrophytic				
	=	Total Cove	r	Vegetation				
% Bare Ground in Herb Stratum	% Cover of Bioti	c Crust	0	Present?)	res √	No	

US Army Corps of Engineers

SOIL							Sampling Point: SP-8
Profile Des	cription: (Describe	e to the	depth needed to	document th	ne indicato	r or confirm the a	bsence of indicators.)
Depth	Matrix		Re	dox Features			
(inches)	Color (moist)	%	Color (moist)	% Ty	vpe ¹ Loc	² Texture	Remarks
0-4"	10YR 3/1	70	7.5YR 3/4	30 C	M	silty clay	
4-7"	10YR 3/1	70	7.5YR 3/4	30 C	М	sandy clay	
7-14"	10YR 3/3	100				sandy loam	
>14"						refusal	cemented gravels and sand
<u> </u>							
1				<u> </u>			
Type: C=C	oncentration, D=De	pletion,	RM=Reduced Mat	rix, CS=Cove	ered or Coat	ted Sand Grains. 1	Location: PL=Pore Lining, M=Matrix.
Hvdric Soil	Indicators: (Appli	cable to	all LRRs. unless	otherwise r	noted	Indicators fo	r Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy F	Redox (S5)			2 cm Muck (A10) (LRR B)
Histic I	Epipedon (A2)		Stripped	d Matrix (S6)			Red Parent Material (TF2)
Black I	Histic (A3)		Loamy	Mucky Minera	al (F1) (exce	ept MLRA 1)	Other (Explain in Remarks)
Hydrog	gen Sulfide (A4)		Loamy	Gleyed Matrix	(F2)		
Deplet	ed Below Dark Surf	ace (A1 ⁻	1) <u>Deplete</u>	d Matrix (F3)			
Thick I	Dark Surface (A12)		✓ Redox [Dark Surface	(F6)	³ Indi	cators of hydrophytic vegetation and
Sandy	Muck Mineral (S1)		Deplete	d Dark Surfa	ce (F7)	wetlar	nd hydrology must be present,
Sandy	gleyed Matrix (S4)		Redox [Depressions ((F8)	unle	ss disturbed or problematic.
Restrictive	Layer (if present):						
Type: cem	nented gravels and s	sand					
Depth (inch	es):		14			Hydric Soil Prese	ent? Yes <u>√</u> No
Remarks:							
HYDROLOG	(
Wetland Hy	drology Indicators	5					
Primary Indi	icators (any one indi	icator is	sufficient)		(50) (Secondary Indicators (2 or more required)
Surfac	e Water (A1)		Water-S	Stained Leave	es (B9) (exc	ept MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High V	Vater Table (A2)		1, 2,	4A and 4B)			4A and 4B)
Satura	tion (A3) Marka (B1)		Salt Cru	IST (B11)	(012)		Drainage Patterns (B10)
vvaler	Marks (DT)		Aqualic		S (D I S)	_	Dry-Season water Table (C2)
Seaim	ent Deposits (B2)		Hydroge	en Suitide Od			_ Saturation Visible on Aerial Imagery (C9)
	eposits (B3)			u Rhizospher	es along Liv	ving Roots (C3)	_ Geomorphic Position (D2)
Aiyai N	aposite (B5)		Present	Iron Reductio	n in Plower		EAC Neutral Test (D5)
Surfac	e Soil Cracks (B6)		Recent	or Stressed I	Plante (D1)	(BR A)	Raised Ant Mounds (D6) (I BB A)
Water-	Stained Leaves (B9))	Other (E	Explain in Rer	marks)	(ERREA)	Frost-Heave Hummocks (D7)
Sparse	elv Vegetated Conca	, ave Surf	ace (B8)		,		_ ()
Field Obse	rvations:						
Surface Wa	ter Present? Ve	e		(inches):	0		
Water table	Present? Yes	3	No Depth	(inches): 9"			
Saturation F	Present? Yes	s√	No Depth	(inches): 9"	<u> </u>	Wetland Hvd	rology Present? Yes ✔ No
(includes ca	pillary fringe)		·	· · ·		-	
Describe Rec	orded Data (stream	gauge, i	monitoring well, ae	rial photos, p	revious insp	pections), if availab	le
Sample plot w	as left open for 3 bo	ours for v	water to come in th	ut nit was dr	/ when firet	dua	
campio piot w	as for open for 0 fit			a pir was ury	,		
US Army Corr	os of Engineers					Wes	tern Mountains, Valleys and Coast - Version 2.0

iy Corp ngi s, Valleys

Project/Site:	Albany - Ca	lapooia / Willamette River	Confluence C	ity/County: <u>Albany</u>	, Linn County		Sampling Date:	2/10/2020
Applicant/Owner:	City of Alba	ny				State: OR	Sampling Point:	SP-9
Investigator(s):	Greta Presl	ey, Rayna Gleason		Section, Tow	nship, Range:	01DD, 11S, 04W		
Landform (hillslop	e, terrace, et	c.): gradual slope		Local relief (c	oncave, conve	x, none): <u>convex</u>	Slo	pe (%): <u>2-5</u>
Subregion (LRR):	Columbia P	lateau (LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: NAD27
Soil Map Unit Nan	ne: <u>Holo</u>	omb silt loam				NWI Classification:	Riverine	
Are climatic / hydr	ologic condit	ions on the site typical for	this time of year	ar? Y	′es <mark>√</mark>	No	(If no, explain in R	emarks)
Are Vegetation	, Soi	il, or Hydrology	s	ignificantly disturbe	d? Are "N	Iormal Circumstance	es" Present? Yes	s 🖌 No 🔄
Are Vegetation	, Soi	il, or Hydrology	r	aturally problematic	? (If need	ded, explain any ans	wers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No ✔ No ✔ No ✔	Is the Sampled Area within a Wetland?	Yes	No <u>√</u>	
Plot located approximately 15' E of t	beech tree, in	lawn area.				

VEGETATION

	Absolute %	Dominant	Indicator	Dominance Test	workshee	et:		
Tree Stratum (Use scientific names.)	Cover	Species?	Status?	Number of Domin	ant Specie	S		
1. Fagus sylvatica purpurea	80	Yes	NL	That Are OBL, FA	CW, or FA	.C:	1	(A)
2.				Total Number of D	Dominant			
3.				Species Across A	ll Strata:		2	(B)
4				Percent of Domina	ant Specie	s		
	80 =	 Total Cove 	r	That Are OBL, FA	CW, or FA	.C:	50%	(A/B)
Shrub Stratum				Prevalence Index	Workshe	et:		
1				Total % Cov	/er of:		Multiply by:	
2				OBL species		x1 =	0	
3				FACW species		x2 =	0	
4				FAC species	105	_x3 =	315	
5				FACU species		x4 =	0	
	0 =	Total Cove	r	UPL species	80	_x5 =	400	
Herb Stratum				Column Totals:	185	_(A)	715	(B)
1. <u>Poa annua</u>	100	Yes	FAC	Prevalence Inc	dex = B/A =	=	3.9	
2. <u>Trifolium repens</u>	5	No	FAC					
3				Hydrophytic Veg	etation In	dicators:		
4				1 - Rap	oid Test for	r Hydroph	ytic Vegetation	
5				2 - Dor	minance To	est is >50°	%	
6				3 - Pre	valence In	dex is ≤3	.0 ¹	
7				4 - Mo	rphological	Adaptatio	on ^{1,2}	
8.				5 - We	tland Non-	Vascular I	Plants ¹	
	105 =	Total Cove	r	Proble	matic Hydi	ophytic V	egetation ¹ (Exp	lain)
Woody Vine Stratum				¹ Indicators of hydr	ic soil and	wetland h	ydrology must	
<u>moody vino olidaan</u>				be present. ² Prov	vide suppo	rting data	in Remarks or	on
1				a separate sheet				
2			·	Hydrophytic				
	= 0	Total Cove	r	Vegetation				
% Bare Ground in Herb Stratum 20) % Cover of Bioti	c Crust	0	Present?		Yes	No 🗸	

US Army Corps of Engineers

SOIL							Sampling Point:	SP-9	
Profile Des	cription: (Des	cribe to the d	epth needed to	document the inc	dicator o	r confirm the absen	ce of indicators	s.)	
Depth	Matr	ix	Re	dox Features					
(inches)	Color (moist) %	Color (moist)	% Type ¹	Loc ²	- Texture		Remarks	
0-10"	10 YR 3/3	100				sandy clay loam			
>10"		100				gravels and sand	no soil to color		
						_			
				·					
	-								
¹ Type: C=0	Concentration, D)=Depletion, R	M=Reduced Mat	rix, CS=Covered o	or Coated	Sand Grains. ² Locat	ion: PL=Pore L	ining, M=Matrix.	
Hydric Soi	I Indicators: (A	Applicable to	all LRRs, unless	otherwise noted		Indicators for Pr	oblematic Hydr	ric Soils ³ :	
Histos	ol (A1)		Sandy	Redox (S5)		2	cm Muck (A10)	(LRR B)	
Histic	Epipedon (A2)		Strippe	d Matrix (S6)		R	ed Parent Mater	rial (TF2)	
Black	Histic (A3)		Loamy	Mucky Mineral (F	1) (excep	t MLRA 1) C	ther (Explain in	Remarks)	
Hydro	gen Sulfide (A4)	Loamy	Gleyed Matrix (F2	2)				
Deple	ted Below Dark	Surface (A11)	Deplete	ed Matrix (F3)					
Thick	Dark Surface (A	(12)	Redox	Dark Surface (F6)		³ Indicato	rs of hydrophytic	c vegetation and	
Sandy	Muck Mineral (S1)	Deplete	ed Dark Surface (F	7)	wetland h	drology must be	e present,	
Sandy	gleyed Matrix ((S4)	Redox	Depressions (F8)		unless d	isturbed or probl	lematic.	
Restrictive	Layer (if prese	ent):							
Туре:									
Depth (inch	es):		10		н	ydric Soil Present?	Yes	s No	<u> </u>
YDROLOG	Y								
Drimon (Ind	yarology indica	ators:	(ficiant)			5.	oondon (Indicate		autire d)
Surfac	Noter (A1)	e indicator is s	Water	Stained Leaves (B			ondary Indicato		
Sunat	Vater Table (A1))	valer-	A and AB	(excel		A and AR		A 1, 2,
Ngh v)	i, z Salt Cr	ust (B11)			rainade Pattern	s (B10)	
Water	Marks (B1)		Aquatic	: Invertebrates (B1	(3)		rv-Season Wate	ar Table (C2)	
Sedim	ent Deposits (B	(2)	Hydroo	en Sulfide Odor (C	C1)	S	aturation Visible	on Aerial Image	erv (C9)
Drift D	eposits (B3)	-)	Oxidize	ed Rhizospheres a	lona Livir	na Roots (C3)	eomorphic Posi	tion (D2)	
Algal I	Mat or Crust (B4	1)	Presen	ce of Reduced Iro	n (C4)	s	hallow Aquitard	(D3)	
Iron D	eposits (B5)	.,	Recent	Iron Reduction in	Plowed \$	Soils (C6) F	AC-Neutral Test	() t (D5)	
Surfac	e Soil Cracks (I	B6)	Stunted	d or Stressed Plan	ts (D1) (L	.RRA) R	aised Ant Moun	ds (D6) (LRR A)	
Water	-Stained Leaves	s (B9)	Other (Explain in Remark	s)	, <u> </u>	rost-Heave Hum	mocks (D7)	
Spars	ely Vegetated C	oncave Surfa	ce (B8)						
Field Obse	rvations:								
Surface Wa	ter Present?	Yes	No ✓ Depti	n (inches):	0				
Water table	Present?	Yes	No 🗸 Depti	n (inches): >10"					
Saturation I	Present?	Yes	No 🗸 Depti	n (inches): >10"		Wetland Hydrolo	gy Present?	Yes No	√
(includes ca	apillary fringe)								
escribe Rec	orded Data (str	eam gauge, m	onitoring well, ae	rial photos, previou	us inspec	ctions), if available			

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Project/Site:	Albany - Calapoo	oia / Willamette River Co	onfluence C	City/County: <u>Albany,</u>	Linn County		Sampling Date:	2	10/2020
Applicant/Owner:	City of Albany					State: OR	Sampling Point:	SP-10	
Investigator(s):	Greta Presley, R	ayna Gleason		Section, Town	nship, Range:	01DD, 11S, 04W			
Landform (hillslope	e, terrace, etc.):	gradual slope		Local relief (c	oncave, conve	ex, none):convex	Slop	e (%):	5
Subregion (LRR):	Columbia Platea	u (LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: NA	D27
Soil Map Unit Nam	ne: Holcomb	silt loam				NWI Classification:	Riverine		
Are climatic / hydro	ologic conditions of	on the site typical for this	s time of year	r? Ye	es √	No	(If no, explain in Re	marks)	
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "N	Normal Circumstance	es" Present? Yes	<mark>√</mark> No	
Are Vegetation	, Soil	, or Hydrology	I	naturally problematic?	(If need	ed, explain any answ	vers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes <mark>√</mark> Yes <mark>√</mark>	No No No	 Is the Sampled Area within a Wetland? 	Yes 🗸	No
Plot located approximately 10' south	of paved foot,	under powerlines ir	i lawn area.		

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status?	Dominance Test works Number of Dominant Spo Are OBL, FACW, or FAC	heet: ecies That ::	1	(A)
2 3				Total Number of Domina Across All Strata:	nt Species	1	(B)
4	=	Total Cover		Percent of Dominant Spe Are OBL, FACW, or FAC	cies That	100%	(A/B)
<u>Shrub Stratum</u> 1.				Prevalence Index Work Total % Cover of:	sheet:	Multiply by:	
2				OBL species	x1 =	0	
3				FACW species	x2 =	0	
4				FAC species 1)5 x3 =	315	_
5				FACU species	x4 =	0	_
	=	 Total Cover 		UPL species	x5 =	0	_
Herb Stratum				Column Totals: 1)5 (A)	315	_(B)
1. <u>Poa annua</u>	100	Yes	FAC	Prevalence Index =	B/A =	3.0	_
2. <u>Trifolium repens</u>	5	No	FAC				
3				Hydrophytic Vegetation	Indicators:	:	
4				1 - Rapid Tes	t for Hydropl	hytic Vegetation	
5				X 2 - Dominand	e Test is >50	0%	
6				X 3 - Prevalence	e Index is ≤	3.0 ¹	
7.				4 - Morpholog	gical Adaptat	ion ^{1,2}	
8.				5 - Wetland N	lon-Vascular	Plants ¹	
Woody Vine Stratum	105 =	Total Cover	r	Problematic H	Hydrophytic \ and wetland	/egetation ¹ (Explain hydrology must be	ר) י
1				separate sheet	rung data in	rtemarks or on a	
2% Bare Ground in Herb Stratum	0 = % Cover of Biotic	Total Cover	0	Hydrophytic Vegetation Present?	Yes_	_√ No	

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SOIL										Sampling	Point: SP	'-10	
Profile De	scription: (Descr	ibe to the	depth nee	eded to	docume	nt the ind	dicato	r or	confirm the abse	ence of ind	icators.)		
Depth	Matrix			Ree	dox Feat	ures							
(inches)	Color (moist)	%	Color (n	noist)	%	Type ¹	Loc	2	Texture		Rei	marks	
0-5"	10YR 3/2	75	10YR 3/3	<u>, </u>	20	c	м		silty clay loam				
			10YR 3/1		5	D	м						
5-10"	10YR 3/1	75	10YR 3/6		25	С	м		sandv clav loam				
10-14"	10YR 3/3	100				<u> </u>			sandy clay loam				
>14"									refusal	cemente	d gravels	and san	d
									·				
¹ Type: C=	Concentration, D=	Depletion,	RM=Redu	ced Mat	rix, CS=0	Covered o	or Coa	ted S	Sand Grains. ² Loc	ation: PL=I	Pore Linin	ig, M=M	atrix.
Hydric So	il Indicators: (Ap	plicable to	o all LRRs	, unless	otherw	ise noted	ł		Indicators for P	roblematic	Hydric S	ioils ":	
Histos	sol (A1)			Sandy F	Redox (S	5)			:	2 cm Muck	(A10) (LR	R B)	
Histic	Epipedon (A2)			Stripped	d Matrix ((S6)			'	Red Parent	Material ((TF2)	
Black	Histic (A3)			Loamy I	Mucky M	lineral (F1	I) (exce	ept N	/ILRA 1) (Other (Expla	ain in Ren	narks)	
Hydro	ogen Sulfide (A4)			Loamy	Gleyed N	Aatrix (F2	2)						
Deple	ted Below Dark Si	urface (A1	1)	Deplete	d Matrix	(F3)			2				
Thick	Dark Surface (A12	2)	\checkmark	Redox [Dark Sur	face (F6)			°Indicat	ors of hydro	phytic ve	getation	and
Sand	y Muck Mineral (S [.]	1)		Deplete	d Dark S	Surface (F	7)		wetland h	nydrology m	ust be pre	esent,	
Sand	y gleyed Matrix (S4	4)		Redox [Depressi	ons (F8)			unless	disturbed or	problema	atic.	
Restrictive	e Layer (if presen	t):											
Type: cer	mented gravels an	d sand											
Depth (incl	nes):		14					Hyd	Iric Soil Present	?	Yes <u>√</u>		No
HYDROLOG	Y												
Wetland H	ydrology Indicate	ors											
Primary Inc	dicators (any one i	ndicator is	sufficient)						S	econdary In	idicators (2 or mo	re required)
Surfa	ce Water (A1)			Water-S	Stained L	eaves (B	9) (exc	ept	MLRA	Water-Stain	ed Leave	s (B9) (VILRA 1, 2,
High	Water Table (A2)			1, 2,	4A and	4B)				4A and 4	4B)		
Satur	ation (A3)			Salt Cru	ist (B11)					Drainage Pa	atterns (B	10)	
Wate	r Marks (B1)			Aquatic	Inverteb	rates (B1	3)		^I	Dry-Season	Water Ta	able (C2)
Sedin	nent Deposits (B2)			Hydroge	en Sulfide	e Odor (C	21)		:	Saturation \	/isible on	Aerial Ir	nagery (C9)
Drift [Deposits (B3)		<u> </u>	Oxidize	d Rhizos	pheres al	long Li	ving	Roots (C3)	Geomorphic	: Position	(D2)	
Algal	Mat or Crust (B4)			Presend	e of Rec	duced Iror	n (C4)		:	Shallow Aqu	uitard (D3)	
Iron D	eposits (B5)			Recent	Iron Red	luction in	Plowe	d So	ils (C6) I	FAC-Neutra	I Test (D5	j)	
Surfa	ce Soil Cracks (B6	5) 5		Stunted	or Stres	sed Plant	ts (D1)	(LRI	RA)	Raised Ant	Mounds (I	D6) (LR	R A)
Wate	r-Stained Leaves (B9)		Other (E	Explain ir	n Remarks	s)		'	Frost-Heave	e Hummoo	cks (D7))
Spars	sely Vegetated Cor	ncave Surfa	ace (B8) _	-									
Field Obse	ervations:												
Surface Wa	ater Present?	Yes	No <mark>√</mark>	Depth	(inches)):	0						
Water table	e Present?	Yes	No ✓	Depth	(inches)): >14"							
Saturation	Present?	Yes	No 🗸	Depth	(inches)): >14"			Wetland Hydrold	ogy Presen	t? Ye	s√	_No
(Includes c	apiliary tringe) corded Data (strea	m dauge i	monitoring	well ae	rial photo	os previo	us ine	pecti	ons) if available				
Describe iver	Colded Data (Silea	in gauge, i	nonitoring	weii, ae	nai priot	os, previo	us ins	pecu	ons), il available				
Sample plot	was left open for 3	hours for v	water to co	ome in, b	ut pit wa	is dry whe	en first	dug.					
US Army Co	rps of Engineers								Wester	n Mountains	s, Valleys	and Coa	ast - Version 2.

eys

Project/Site:	Albany - Calapoo	oia / Willamette River (Confluence Ci	ty/County: <u>Albany, Lir</u>	n County		Sampling Date:	5/12/2020
Applicant/Owner:	City of Albany					State: OR	Sampling Point:	SP-11
Investigator(s):	Greta Presley, R	ayna Gleason, Kate F	orester	Section, Townsh	ip, Range:	01DD, 11S, 04W		
Landform (hillslop	e, terrace, etc.):	gradual slope		Local relief (conca	ave, conve	x, none): <u>convex</u>	Slo	pe (%): <u>2-5</u>
Subregion (LRR):	Columbia Platea	u (LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: NAD27
Soil Map Unit Nan	ne: <u>Holcomb</u>	silt loam				NWI Classification:	Riverine	
Are climatic / hydr	ologic conditions	on the site typical for t	this time of yea	r? Yes	/	No	(If no, explain in R	emarks)
Are Vegetation	, Soil	, or Hydrology	si	gnificantly disturbed?	Are "N	ormal Circumstance	s" Present? Yes	s 🖌 No 🔄
Are Vegetation	, Soil	, or Hydrology	na	aturally problematic?	(If need	led, explain any ans	wers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes Yes	No No ✓ No ✓	Is the Sampled Area within a Wetland?	Yes	No <u>√</u>
Plot located 5' west of Sp-24.					

VEGETATION

	Absolute %	Dominant Species?	Indicator Status?	Dominance Test works	neet:		
<u>Tree Stratum</u> (Use scientific names.) 1.				That Are OBL, FACW, or	FAC:	1	(A)
2				Total Number of Dominal Species Across All Strata	nt :	1	(B)
4		- Total Cove	r	Percent of Dominant Spe That Are OBL, FACW, or	cies FAC:	100%	(A/B)
<u>Shrub Stratum</u> 1.				Prevalence Index Works Total % Cover of:	sheet:	Multiply by:	
2				OBL species	x1 =	0	
3				FACW species	x2 =	0	
4				FAC species 10	5x3 =	315	
5				FACU species	x4 =	0	
	=	 Total Cove 	r	UPL species	x5 =	0	
Herb Stratum				Column Totals: 10	5(A)	315	(B)
1. <u>Poa annua</u>	90	Yes	FAC	Prevalence Index = B	/A =	3.00	
2. Trifolium repens	15	No	FAC				
3				Hydrophytic Vegetation	Indicators	:	
4				1 - Rapid Test	for Hydropl	nytic Vegetation	
5				X 2 - Dominance	e Test is >50	0%	
6. <u></u>				X 3 - Prevalence	e Index is ≤	3.0 ¹	
7				4 - Morpholog	ical Adaptat	ion ^{1,2}	
8				5 - Wetland N	on-Vascular	Plants ¹	
Woody Vine Stratum	105 =	• Total Cove	r	Problematic H ¹ Indicators of hydric soil a be present. ² Provide sup a separate sheet	ydrophytic \ nd wetland porting data	/egetation ¹ (Exp hydrology must a in Remarks or c	ain) n
2% Bare Ground in Herb Stratum	0 = % Cover of Biotic	Total Cove	r 0	Hydrophytic Vegetation Present?	Yes <u>√</u>	No	

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Sampling Point: SP-11

SUIL			Sampling Point: SP-11
Profile Description: (Describe to the depth	needed to document the indicato	r or confirm the absen	ce of indicators.)
Depth Matrix	Redox Features		
(inches) Color (moist) % Co	lor (moist) % Type ¹ I (c ² Texture	Remarks
0-11" 10 YR 3/2 100	<u> </u>	sandv clav loam	
>11"		refusal	gravels
¹ Type: C=Concentration, D=Depletion, RM=F	educed Matrix, CS=Covered or Coa	ted Sand Grains. ² Locat	ion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all L	Rs, unless otherwise noted.	Indicators for Pr	oblematic Hydric Soils ":
Histosol (A1)	Sandy Redox (S5)	2	cm Muck (A10) (LRR B)
Histic Epipedon (A2)	Stripped Matrix (S6)	R	ed Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (exc	cept MLRA 1) C	ther (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)	3	
	Redox Dark Surface (F6)	-Indicato	rs or nydropnytic vegetation and
Sandy Muck Mineral (S1)	Depleted Dark Surface (F7)	wetland hy	/drology must be present,
	Redox Depressions (F8)	uniess a	isturbed or problematic.
Restrictive Layer (if present):			
Type: cemented gravels and sand			
Split Sampling Ford: Sector Perfile Description: (Description: (
HYDROLOGY Wetland Hydrology Indicators:			
Primary Indicators (any one indicator is suffici	ent)	Se	condary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leaves (B9) (ex	cept MLRA V	/ater-Stained Leaves (B9) (MLRA 1, 2,
High Water Table (A2)	1, 2, 4A and 4B)		4A and 4B)
Saturation (A3)	Salt Crust (B11)	D	rainage Patterns (B10)
Water Marks (B1)	Aquatic Invertebrates (B13)	D	ry-Season Water Table (C2)
Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)	S	aturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Oxidized Rhizospheres along L	iving Roots (C3) G	eomorphic Position (D2)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) S	hallow Aquitard (D3)
Iron Deposits (B5)	Recent Iron Reduction in Plowe	ed Soils (C6) F	AC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed Plants (D1) (LRR A) R	aised Ant Mounds (D6) (LRR A)
Water-Stained Leaves (B9)	Other (Explain in Remarks)	F	rost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B	8)		
Field Observations:			
Surface Water Present? Yes No	✓ Depth (inches): 0		
Water table Present? Yes No	✓ Depth (inches): >11"		
Saturation Present? Yes No	✓ Depth (inches): >11"	Wetland Hydrolog	gy Present? YesNo <u>√</u>
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous ins	pections), it available	

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Project/Site:	Albany - Ca	lapooia / Willamette River C	Confluence C	City/County: <u>Albany, Lir</u>	nn County		Sampling Date:	2/11/2020
Applicant/Owner:	City of Alba	ny				State: OR	Sampling Point:	SP-12
Investigator(s):	Greta Presle	ey, Rayna Gleason		Section, Townsh	ip, Range:	06CC, 11S, 03W		
Landform (hillslope	e, terrace, et	c.): <u>floodplain</u>		Local relief (conca	ave, convex	k, none): <u>convex</u>	Slop	be (%): <u>0-1</u>
Subregion (LRR):	Columbia Pl	ateau (LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: NAD27
Soil Map Unit Nam	ie: <u>Fluv</u>	ents-Fluvaquents complex				NWI Classification:	Riverine	
Are climatic / hydro	ologic condit	ions on the site typical for tl	his time of ye	ear? Yes	✓	No	(If no, explain in R	emarks)
Are Vegetation	, Soi	I, or Hydrology		significantly disturbed?	Are "N	ormal Circumstance	s" Present? Yes	✓No
Are Vegetation	, Soi	I, or Hydrology	I	naturally problematic?	(If need	ed, explain any ans	wers in Remarks.)	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>✓</mark> Yes Yes	No No <mark>√</mark> No √	Is the Sampled Area within a Wetland?	Yes	No <u>√</u>
Plot located between two low areas	in backwater a	area, north of abond	loned sewer line concrete outcrop) .	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status?	Dominance Test worksh Number of Dominant Spe	cies		
1. <u>Populus balsamifera</u>	30	Yes	FAC	That Ale OBL, FACW, of		3	(A)
2 3.				Species Across All Strata	it :	4	(B)
4		- Total Cove	r	Percent of Dominant Spe That Are OBL, FACW, or	cies FAC:	75%	(A/B)
Shrub Stratum				Prevalence Index Works	heet:		
1. Acer circinatum	60	Yes	FAC	Total % Cover of:		Multiply by:	
2. Salix lasiandra	25	Yes	FACW	OBL species	x1 =	0	
3. <u>Rubus armeniacus</u>	20	Yes	FAC	FACW species 25	x2 =	50	
4				FAC species 90	x3 =	270	
5				FACU species 20	x4 =	80	
	105 =	Total Cove	r	UPL species	x5 =	0	
Herb Stratum				Column Totals: 13	5 (A)	400	(B)
1				Prevalence Index = B	A =	3.0	_
2				lludrankutia Vanatatian	Indiantau		
3			·	Hydrophytic Vegetation	Indicator	5:	
4			·	1 - Rapid Test	Tor Hydrop	onytic vegetation	
ა რ				X 2 - Dominance	Index is	≤3.0 ¹	
7				4 Membeler		tion ^{1,2}	
o			·	4 - Wolphologi		uion n Dianta ¹	
ð		Table		5 - Wetland No	on-vascula		L. L. A
Woody Vine Stratum			r 	¹ Indicators of hydric soil a be present. ² Provide sup a separate sheet	yoropnytic nd wetland porting dat	vegetation (Exp d hydrology must ta in Remarks or c	nain)
2% Bare Ground in Herb Stratum100	0 = 0 % Cover of Bioti	Total Cove	r 0	Hydrophytic Vegetation Present?	Yes	√No	

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Sampling Point: SP-12

Profile Des										
	scription: (Descrip	be to the	depth ne	eded to docum	ent the in	dicator o	r confirm the a	bsence of i	ndicators.)	
Depth	Matrix			Redox Fea	atures					
(inches)	Color (moist)	%	Color (I	moist) %	Type ¹	Loc ²	Texture		Rema	irks
)-6"	10YR 3/2	90	10YR 3/	1 10	D 0	М	silty clay			
6-16"	10YR 3/2	100					silty clay			
							· ·			
							· ·			
							· ·			
Type: C=0	Concentration, D=D	epletion,	RM=Redu	uced Matrix, CS	=Covered	or Coated	Sand Grains. ²	Location: P	L=Pore Lining,	M=Matrix.
lydric Soi	I Indicators: (Appl	licable to	all LRR	s, unless other	wise noted	l	Indicators for	or Problema	tic Hydric Soi	ls ³ :
Histos	sol (A1)			Sandy Redox (S5)			2 cm Mu	ck (A10) (LRR I	B)
Histic	Epipedon (A2)			Stripped Matrix	: (S6)			Red Pare	ent Material (TF	2)
Black	Histic (A3)			Loamy Mucky	Mineral (F1) (except	MLRA 1)	Other (Ex	plain in Remar	ˈks)
Hydro	gen Sulfide (A4)			Loamy Gleyed	Matrix (F2	2)				
Deple	ted Below Dark Sur	rface (A1	1)	Depleted Matri	x (F3)					
Thick	Dark Surface (A12))		Redox Dark Su	rface (F6)		³ Ind	cators of hy	drophytic veget	tation and
Sandy	y Muck Mineral (S1))		Depleted Dark	Surface (F	7)	wetlar	nd hydrology	must be prese	ent,
Sandy	y gleyed Matrix (S4))		Redox Depress	sions (F8)		unle	ss disturbed	l or problematio	.
Restrictive	e Layer (if present)):								
Restrictive	e Layer (if present)	:								
Restrictive Type: Depth (inch	e Layer (if present)	:				ну	dric Soil Prese	ent?	Yes	No <u>√</u>
Restrictive Type: Depth (inch)marks: wo	e Layer (if present) hes): ody material through	hout soil	profile.			Ну	/dric Soil Prese	ent?	Yes	No <u>√</u>
Restrictive Type: Depth (inch marks: wo	a Layer (if present)	hout soil	profile.			Ну	vdric Soil Prese	ent?	Yes	No <u>√</u>
Restrictive Type: Depth (inch marks: wo	e Layer (if present) nes): ody material througi	: hout soil	profile.			Ну	vdric Soil Prese	ent?	Yes	No <u>√</u>
Restrictive Type: Depth (inch marks: wo	e Layer (if present) hes):	: hout soil	profile.			ну	ydric Soil Prese	ent?	Yes	No <u>√</u>
Restrictive	e Layer (if present) hes):	hout soil	profile.			ну	rdric Soil Prese	ent?	Yes	No <u>√</u>
Restrictive Type: Depth (inch marks: wo	b Layer (if present) hes): ody material through y	hout soil	profile.			ну	rdric Soil Prese	ent?	Yes	No <u>√</u>
Restrictive Type: Depth (inch marks: wo marks: wo More than the transformation Metland H	 Layer (if present) nes): ody material through ydy material through Y ydrology Indicator 	rs	profile.			ну	rdric Soil Prese	ent?	Yes	No <u>√</u>
Restrictive Type: Depth (inch marks: wo Marks: wo CDROLOG Wetland H Primary Inc	Layer (if present) hes): ody material througi Y ydrology Indicator dicators (any one inc	hout soil	profile.			ну	rdric Soil Prese	ent?	Yes	No <u>√</u>
Restrictive Fype: Depth (inch marks: wo /DROLOG /OROLOG	Auger (if present) mes): ody material through Y ydrology Indicator dicators (any one incluster) ce Water (A1)	hout soil	profile.	Water-Stained	Leaves (B	9) (excep	rdric Soil Prese	<u>Secondary</u> Water-St	Yes / Indicators (2 c ained Leaves ()	No _✓ or more required B9) (MLRA 1, 2,
Restrictive Fype: Depth (inch marks: wo /DROLOG // Vetland H Primary Inc Surfac High \	Auger (if present) mes): ody material through Y ydrology Indicator dicators (any one inc ce Water (A1) Water Table (A2)	hout soil	profile.	Water-Stained 1, 2, 4A and	Leaves (B 1 48)	9) (excep	rdric Soil Prese	<u>Secondary</u> Water-St 4A an	Yes / Indicators (2 c ained Leaves (i d 4B)	No √ or more required B9) (MLRA 1, 2,
Restrictive Type: Depth (incl marks: wo DROLOG DROLOG Vetland H Primary Inc Surfac High \ Satura	Auger (if present) Ines): Ody material through Y ydrology Indicator dicators (any one inc ce Water (A1) Water Table (A2) ation (A3)	hout soil	profile.	Water-Stained 1, 2, 4A and Salt Crust (B17	Leaves (B 1 4B)	9) (excep	t MLRA	<u>Secondary</u> Water-St 4A an Drainage	Yes / Indicators (2 c ained Leaves (i d 4B) Patterns (B10)	No <u>√</u> or more required B9) (MLRA 1, 2,
Restrictive Fype: Depth (incl marks: wo /DROLOG // // // // // // // // // // // // //	Auger (if present) Ines): Ines): Ines): Y Y ydrology Indicator dicators (any one inc ce Water (A1) Water Table (A2) ation (A3) Marks (B1)	hout soil	profile.	Water-Stained 1, 2, 4A and Salt Crust (B1 [*] Aquatic Inverte	Leaves (B 1 4B))) brates (B1	9) (excep 3)	t MLRA	<u>Secondary</u> Water-St Drainage Dry-Seas	Yes / Indicators (2 c ained Leaves (i d 4B) Patterns (B10) son Water Table	No √ or more required B9) (MLRA 1, 2,) e (C2)
Restrictive Type: Depth (incl marks: wo /DROLOG // Metland H Primary Inc Surfac Satura Water Water 	Auger (if present) Auger (if present) addition of the second secon	hout soil	profile. sufficient;	Water-Stained 1, 2, 4A and Salt Crust (B1 ² Aquatic Inverte Hydrogen Sulfi	Leaves (B 1 4B))) brates (B1 de Odor (C	 Hy (excep 3) (1) 	t MLRA	Secondary Water-St Drainage Dry-Seas Saturatio	Yes / Indicators (2 c ained Leaves (i d 4B) Patterns (B10) son Water Table n Visible on Ae	No √ pr more required B9) (MLRA 1, 2,) e (C2) trial Imagery (CS
Restrictive Fype: Depth (incl marks: wo /DROLOG	Auger (if present) Auger (if present) Auger (if present) Auger (if present) Auger (in the second sec	hout soil	 profile. 	Water-Stained 1, 2, 4A and Salt Crust (B1 ² Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo	Leaves (B 1 4B))) brates (B1 de Odor (C ispheres al	 9) (excep 3) 11) ong Livin 	t MLRA	Secondary Water-St Dry-Seas Dry-Seas Saturatio Geomorp	Yes / Indicators (2 c ained Leaves (i d 4B) Patterns (B10) son Water Table n Visible on Ae phic Position (D	Dr more required B9) (MLRA 1, 2,) e (C2) rial Imagery (CS 2)
Comparison of the sector	A Layer (if present) Ines): Ines): Ines): Y ydrology Indicator dicators (any one inc ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B2) Mat or Crust (B4)	hout soil	 profile. 	Water-Stained 1, 2, 4A and Salt Crust (B1 ² Aquatic Inverte Hydrogen Sulfi Oxidized Rhizc Presence of R	Leaves (B 1 4B))) brates (B1 de Odor (C ispheres al educed Iron	 a) (excep b) (excep c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (t MLRA	Secondary Water-St Dry-Seas Saturatio Geomory Shallow /	Yes / Indicators (2 c ained Leaves (i d 4B) Patterns (B10) son Water Table n Visible on Ae phic Position (D Aquitard (D3)	Dr more required B9) (MLRA 1, 2,) e (C2) rial Imagery (CS 2)
Comparison of the sector	A Layer (if present) hes): ody material through ydrology Indicator dicators (any one inc ce Water (A1) Water Table (A2) ation (A3) Marks (B1) hent Deposits (B2) Deposits (B3) Mat or Crust (B4) beposits (B5)	hout soil	profile.	Water-Stained 1, 2, 4A and Salt Crust (B1 ⁺ Aquatic Inverte Hydrogen Sulfi Oxidized Rhizc Presence of R Recent Iron Re	Leaves (B 1 4B))) brates (B1 de Odor (C spheres al aduced Iror aduced Iror	 Hy (excep (1) (C4) Plowed S 	t MLRA	Secondary Water-St Dry-Seas Saturatio Geomory Shallow / FAC-Neu	Yes / Indicators (2 c ained Leaves (i d 4B) Patterns (B10) son Water Table n Visible on Ae phic Position (D Aquitard (D3) tral Test (D5)	No √ pr more required B9) (MLRA 1, 2,) e (C2) rial Imagery (CS 2)
Comparison of the sector	A Layer (if present) hes): ody material through ydrology Indicator dicators (any one inc ce Water (A1) Water Table (A2) ation (A3) Marks (B1) hent Deposits (B2) Deposits (B3) Mat or Crust (B4) beposits (B5) ce Soil Cracks (B6)	hout soil	profile.	Water-Stained 1, 2, 4A and Salt Crust (B1' Aquatic Inverte Hydrogen Sulfi Oxidized Rhizc Presence of R Recent Iron Re Stunted or Ster	Leaves (B 1 4B))) brates (B1 de Odor (C spheres al aduced Iror duction in essed Plant	 Hy (excep) (a) (c4) (c4) Plowed S (s) (D1) (L1) 	t MLRA	Secondary Water-St Dry-Seas Saturatio Geomorp Shallow / FAC-Neu Raised A	Yes / Indicators (2 c ained Leaves (i d 4B) Patterns (B10) son Water Table n Visible on Ae phic Position (D Aquitard (D3) ttral Test (D5) nt Mounds (D6	No √ pr more required B9) (MLRA 1, 2,) e (C2) rial Imagery (CS 2)) (LRR A)

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Field Observations:

Saturation Present?

Surface Water Present?

Water table Present?

(includes capillary fringe)

Sparsely Vegetated Concave Surface (B8)

 Yes
 No
 ✓
 Depth (inches):

 Yes
 No
 ✓
 Depth (inches): >16"

 Yes
 No
 ✓
 Depth (inches): >16"

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

Western Mountains, Valleys and Coast - Version 2.0

Yes

No √

Wetland Hydrology Present?

Project/Site:	Albany - Calapooia / Willamette River Confl	ience	City/County: Albany, Linn Count	у	Sampling Date:	2/11/2020
Applicant/Owner:	City of Albany			State: OR	Sampling Point:	SP-13
Investigator(s):	Greta Presley, Rayna Gleason		Section, Township, Rang	e: 06CC, 11S, 03W		
Landform (hillslop	e, terrace, etc.): floodplain		Local relief (concave, con	vex, none): <u>convex</u>	Slop	e (%): <u>0-1</u>
Subregion (LRR):	Columbia Plateau (LRR B)	Lat:	44.638	59 Long:	-123.111314	Datum: NAD27
Soil Map Unit Nan	ne: Fluvents-Fluvaquents complex			NWI Classification:	Riverine	
Are climatic / hydr	ologic conditions on the site typical for this ti	ne of ye	ear? Yes <mark>√</mark>	No	(If no, explain in Re	emarks)
Are Vegetation	, Soil, or Hydrology		significantly disturbed? Are	"Normal Circumstance	s" Present? Yes	✓ No
Are Vegetation	, Soil, or Hydrology		naturally problematic? (If ne	eded, explain any ans	wers in Remarks.)	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes $\frac{\checkmark}{\checkmark}$ Yes $\frac{\checkmark}{\checkmark}$	No No No	Is the Sampled Area within a Wetland?	Yes <u>√</u>	No	_
Plot located approximately 15' west	of Sp-12.					

VEGETATION

	Absolute %	Dominant	Indicator	Dominance Test wo	rkshee	et:		
Tree Stratum (Use scientific names.)	Cover	Species	Status	Number of Dominant	Specie / or EA	es VC·		
1. <u>Populus balsamifera</u>	30	Yes	FAC	That Are ODE, I AGN	v, 0117		4	(A)
2				Total Number of Dom	ninant			
3				Species Across Air Si	liala.	_	4	(B)
4				Percent of Dominant	Specie	S		
	30_=	 Total Cove 	r	That Are OBL, FACW	/, or FA	AC:	100%	(A/B)
Shrub Stratum				Prevalence Index W	orkshe	et:		
1. <u>Salix lasiandra</u>	50	Yes	FACW	Total % Cover	of:		Multiply by:	
2. Rubus armeniacus	30	Yes	FAC	OBL species		x1 =	0	
3				FACW species	80	_x2 =	160	
4				FAC species	30	x3 =	90	
5				FACU species	30	x4 =	120	
	80 =	Total Cove	r	UPL species		x5 =	0	
Herb Stratum				Column Totals:	140	_(A)	370	(B)
1. Phalaris arundinacea	30	Yes	FACW	Prevalence Index	= B/A :	=	2.6	
2								
3				Hydrophytic Vegeta	tion In	dicators	:	
4				1 - Rapid	Test fo	r Hydrop	hytic Vegetation	
5				X 2 - Domina	ance T	est is >50	0%	
6				X 3 - Prevale	ence In	idex is ≤	3.0 ¹	
7				4 - Morpho	ologica	l Adaptat	ion ^{1,2}	
8				5 - Wetlan	nd Non-	Vascular	Plants ¹	
	30 =	Total Cove	r	Problemat	tic Hydı	rophytic	√egetation ¹ (Exp	lain)
Woody Vine Stratum				¹ Indicators of hydric s	soil and	wetland	hydrology must	
				be present. ² Provide	suppo	rting data	a in Remarks or o	on
1				a separate sheet				
2				Hydrophytic				
	0 =	Total Cove	r	Vegetation				
% Bare Ground in Herb Stratum	70 % Cover of Bioti	c Crust	0	Present?		Yes <u>√</u>	<u> </u>	

US Army Corps of Engineers

SOIL								Sampling Point: SP-13
Profile Des	cription: (Describe	to the dep	th needed to	documer	nt the ind	icator o	r confirm the abse	ence of indicators.)
Depth	Matrix		Re	dox Feat	ures			
(inches)	Color (moist)	% (Color (moist)	%	Type ¹	$l oc^2$	- Texture	Remarks
0-4"	10YR 3/2	85 10	YR 3/4	5	<u>C</u>	 M	silty clay loam	Kenano
	101110/2	2!	5Y 4/1	10	<u> </u>	PI	only only rouni	gleving along live root channels
4-16"	10YR 3/2	100			<u> </u>	<u>· -</u>	silty clay loam	giernig along into reat analinale
	101110/2						only only rouni	
¹ Type: C=C	Concentration, D=De	pletion, RM=	Reduced Mat	rix, CS=C	overed or	r Coated	Sand Grains. ² Loc	ation: PL=Pore Lining, M=Matrix.
								2 2
Hydric Soi	I Indicators: (Appli	cable to all	LRRs, unless	otherwis	se noted.		Indicators for I	Problematic Hydric Soils *:
Histos	ol (A1)		Sandy	Redox (S	5)			2 cm Muck (A10) (LRR B)
Histic	Epipedon (A2)		Strippe	d Matrix ((S6)			Red Parent Material (TF2)
Black	Histic (A3)		Loamy	Mucky M	ineral (F1) (excep	ot MLRA 1)	Other (Explain in Remarks)
Hydro	gen Sulfide (A4)		Loamy	Gleyed N	Aatrix (F2	2)		
Deplet	ted Below Dark Surfa	ace (A11)	Deplete	ed Matrix	(F3)		3	
Thick	Dark Surface (A12)		Redox	Dark Sur	tace (F6)		Indica	tors of hydrophytic vegetation and
Sandy	Muck Mineral (S1)		Deplete	ed Dark S	urface (F	()	wetland	hydrology must be present,
Sandy	gleyed Matrix (S4)		Redox	Depressi	ons (F8)		uniess	disturbed or problematic.
Restrictive	Layer (if present):							
Туре:			_					
Depth (inch	les):		_			н	lydric Soil Present	? Yes <u>√</u> No
HYDROLOG	Y							
Wetland H	ydrology Indicators	:						
Primary Ind	licators (any one indi	cator is suffi	cient)		(5.6		<u></u>	Secondary Indicators (2 or more required)
Surfac	e Water (A1)		Water-	Stained L	eaves (BS	9) (exce	pt MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
Hign v	vater Table (A2)		1, 2, Solt Cr	4A and	4B)			4A and 4B)
Votor	Morko (P1)			usi (DII)	ratao (P1)	2)		Drainage Patterns (B10)
Valer	warks (DT)		Aqualic			3) 11)		Div-Season water Table (C2)
Seaim	ient Deposits (B2)		Hydrog	en Suma	e Odor (C	-1) ang Liviu		Saturation Visible on Aerial Imagery (C9)
	Mat or Crust (B4)		Oxiuize		prieres aid		Ing Roots (C3)	Shallow Aquitard (D3)
Aigai i	enosits (B5)		Present	Iron Red		Dowed		EAC Neutral Test (D5)
Nurfac	eposits (DJ)		Necent	I or Stres	sed Plant	e (D1) /	BR A)	Raised Ant Mounds (D6) (I RR A)
Water	-Stained Leaves (B9)	Other (Explain ir	Remarks	3 (D1) (E S)		Frost-Heave Hummocks (D7)
Sparse	elv Vegetated Conca	, ve Surface ((B8)	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-)		
Field Obse	rvations:	re canace						
	the Decembo	. N	(D	(i		0		
Surface wa	Dessent? Yes		✓ Deptr	(inches)	. 40"	0		
Soturation I	Present? Yes		o_v Deptr	(inches)	. 13		Wotland Hydrol	agy Brocont? You / No
(includes ca	apillary fringe)			(inches)	. 0		wettand Hydrol	ogy Present? fes <u>v</u> No
Describe Rec	orded Data (stream	gauge, moni	toring well, ae	rial photo	s, previou	is inspec	ctions), if available	
	,		U ,				,	

US Army Corps of Engineers

Project/Site:	Albany - Calapooia	a / Willamette River Cor	fluence	City/County:	Albany, Lin	n County		Sampling Date	: 2/11/2020
Applicant/Owner:	City of Albany						State: OR	Sampling Point	t: <u>SP-14</u>
Investigator(s):	Greta Presley, Ray	yna Gleason		Secti	on, Townshi	p, Range:	06CC, 11S, 03W		
Landform (hillslop	e, terrace, etc.):	floodplain		Local	relief (conca	ve, convex	, none): <u>convex</u>	Slo	ope (%): <u>0-1</u>
Subregion (LRR):	Columbia Plateau	(LRR B)	Lat:			44.63859	Long:	-123.111314	Datum: NAD27
Soil Map Unit Nan	ne: Fluvents-F	luvaquents complex					NWI Classification:	Riverine	
Are climatic / hydr	ologic conditions or	n the site typical for this	time of ye	ear?	Yes 🗸	/	No	(If no, explain in F	Remarks)
Are Vegetation	, Soil	, or Hydrology		significantly o	listurbed?	Are "N	ormal Circumstance	s" Present? Ye	s 🖌 No
Are Vegetation	, Soil	, or Hydrology		naturally prot	lematic?	(If need	ed, explain any answ	vers in Remarks.)	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes Yes	No No ✓ No ✓	Is the Sampled Area within a Wetland?	Yes	No <u>√</u>	
Plot located approximately at toe of	slope from foo	tpath.				

VEGETATION

	Absolute %	Dominant	Indicator Status?	Dominance Test	workshee	et:		
Tree Stratum (Use scientific names.)		Opecies:		That Are OBL EA	CW or FA	es NC:		
1. Fraxinus latifolia	70	Yes	FACW	That Are OBE, I A			3	(A)
2. Populus balsamifera	25	Yes	FAC	Total Number of D	Dominant			
3				Species Across Al	li Strata:		4	(B)
4				Percent of Domina	ant Specie	S		
	95_=	 Total Cove 	r	That Are OBL, FA	CW, or FA	AC:	75%	(A/B)
Shrub Stratum				Prevalence Index	Workshe	et:		
1. Cornus alba	2	Yes	FACW	Total % Cov	er of:		Multiply by:	
2.				OBL species		x1 =	0	
3.				FACW species	72	x2 =	144	
4.				FAC species	25	x3 =	75	
5.				FACU species	10	x4 =	40	
	2 =	Total Cove	r	UPL species		x5 =	0	
Herb Stratum				Column Totals:	107	(A)	259	(B)
1.				Prevalence Inc	dex = B/A	=	2.4	
2.								
3.				Hydrophytic Veg	etation In	dicators	:	
4.				1 - Rap	oid Test for	r Hydropł	nytic Vegetation	
5.				X 2 - Dor	ninance T	est is >50)%	
б				X 3 - Pre	valence In	idex is ≤	3.0 ¹	
7.				4 - Mor	rphologica	l Adaptat	ion ^{1,2}	
3.				5 - We	tland Non-	Vascular	Plants ¹	
	0 =	Total Cove	r	Proble	matic Hvdi	rophytic \	/egetation ¹ (Exp	lain)
Woody Vine Stratum				¹ Indicators of hydr	ic soil and	wetland	hydrology must	,
Woody ville Stratum				be present. ² Prov	vide suppo	rting data	in Remarks or	on
1. Hedera helix	10	Yes	FACU	a separate sheet		-		
2				Hydrophytic				
	10 =	 Total Cove 	r	Vegetation				
% Bare Ground in Herb Stratum	90 % Cover of Biotic	c Crust	0	Present?		Yes √	No	

US Army Corps of Engineers

Samr	lina	Point [.]	SP-14
Samp	лшy	FUIL.	36-14

hes) Color (moist)	%	Color (moist)	%	Type ¹	.oc ² Text	ure	Remar	ks
6" 10YR 3/2	100				silty clay	/		
				·				
·			· ·					
ype: C=Concentration, D=E	Depletion, R	M=Reduced Mat	rix, CS=Cc	overed or Co	ated Sand Grain	ns. ² Location: F	L=Pore Lining, M	=Matrix.
ydric Soil Indicators: (App	licable to	all LRRs, unless	otherwise	e noted.	Indicato	ors for Problem	atic Hydric Soils	3 ³ :
Histosol (A1)		Sandy	Redox (S5	5)		2 cm M	uck (A10) (LRR B)
Histic Epipedon (A2)		Strippe	d Matrix (S	66)		Red Pa	rent Material (TF2	2)
Black Histic (A3)		Loamy	Mucky Mir	neral (F1) (ex	(cept MLRA 1)	Other (I	Explain in Remark	s)
Hydrogen Sulfide (A4)		Loamy	Gleyed Ma	atrix (F2)				
Depleted Below Dark Su	rtace (A11)	Deplete	ed Matrix (I	F3)		31	udaa ahad' i	
Sandy Muck Minoral (S1)	Redox	Dark Suffa			indicators of h	yuropnytic vegeta	auon and
Sandy deved Matrix (S4)	Deplete Redox	Depression	ns (F8)	v	unless disturbe	y must be preser	ц,
estrictive Layer (if present):		- 00.00010					
vne.	,							
enth (inches):					Hudria Sail I	Procont?	Yes	No √
arks:								
DROLOGY /etland Hydrology Indicato	rs:				Hyunc Son			
DROLOGY /etland Hydrology Indicato	rs: dicator is s	ufficient)				Seconda	ry Indicators (2 or	more required)
DROLOGY //etland Hydrology Indicato rimary Indicators (any one in Surface Water (A1)	r s: Idicator is s	ufficient) Water-3	Stained Le	aves (B9) (e	xcept MLRA	Seconda	ry Indicators (2 or Stained Leaves (B	more required) 9) (MLRA 1, 2,
DROLOGY /etland Hydrology Indicato rimary Indicators (any one in Surface Water (A1) High Water Table (A2)	rs: dicator is s	ufficient) Water-1 1, 2,	Stained Le	eaves (B9) (e B)	xcept MLRA	Seconda Water-S	ry Indicators (2 or Stained Leaves (B nd 4B)	9) (MLRA 1, 2,
PROLOGY etland Hydrology Indicato imary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marke (B1)	r s: Idicator is s	ufficient) Water-\ Salt Crn Salt Crn	Stained Le 4A and 4 ust (B11)	eaves (B9) (e B)	xcept MLRA	Seconda Water-S Vater-S Drainag	ry Indicators (2 or Stained Leaves (B nd 4B) ie Patterns (B10)	more required) 9) (MLRA 1, 2,
DROLOGY /etland Hydrology Indicato rimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Saturation (A2)	rs: dicator is s	ufficient) Water Aquatic Aquatic	Stained Le 4A and 4 ust (B11) c Invertebra	eaves (B9) (e B) ates (B13)	xcept MLRA	Seconda Water-S Vater-S Drainag Dry-Sea Saturat	ry Indicators (2 or Stained Leaves (B nd 4B) ie Patterns (B10) ason Water Table on Visible on Asr	9) (MLRA 1, 2, (C2)
DROLOGY /etland Hydrology Indicato rimary Indicators (any one in 	rs: dicator is s	ufficient) Water-3 Salt Crn Salt utic Hydrog Oxidize	Stained Le 4A and 4 ust (B11) : Invertebra en Sulfide ed Rhizoso	aves (B9) (e B) ates (B13) Odor (C1)	xcept MLRA	<u>Seconda</u> Water-S Drainag Dry-Sea Saturati 3) Geomo	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer mbic Position (D2	(C2) (C2)
DROLOGY /etland Hydrology Indicator rimary Indicators (any one in 	rs: dicator is s	ufficient) Water-3 1, 2, Salt Cru Aquatic Hydrog Oxidize Presen	Stained Le 4A and 4 ust (B11) : Invertebra : Invertebra en Sulfide ed Rhizosp ce of Red	aves (B9) (e B) ates (B13) Odor (C1) heres along uced Iron (C	xcept MLRA	<u>Seconda</u> Water-S Drainag Dry-Sea Saturati 3) Geomo Shallow	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 Aquitard (D3)	(C2) () (MLRA 1, 2, (C2) ()
DROLOGY /etland Hydrology Indicator rimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	rs: dicator is s	ufficient) Water-3 1, 2, Salt Cri Aquatic Hydrog Oxidize Presen Recent	Stained Le 4 A and 4 ust (B11) : Invertebra en Sulfide ed Rhizosp ce of Redu Iron Redu	aves (B9) (e B) ates (B13) Odor (C1) heres along uced Iron (C uction in Plov	xcept MLRA	Seconda Water-S Drainag Dry-Sea Saturati 3) Shallow FAC-Ne	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 Aquitard (D3) eutral Test (D5)	more required) 9) (MLRA 1, 2, (C2) ial Imagery (C9))
DROLOGY /etland Hydrology Indicator rimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6)	rs: Idicator is s	ufficient) Water-3 1, 2, Salt Cri Aquatic Hydrog Oxidize Presen Recent Stunted	Stained Le 4A and 4 ust (B11) : Invertebra en Sulfide ed Rhizosp ce of Redu Iron Redu d or Stress	aves (B9) (e B) ates (B13) Odor (C1) heres along uced Iron (C uction in Plov ed Plants (E	xcept MLRA Living Roots (C 4) ved Soils (C6) 11) (LRR A)	Seconda Water-S 4A a Drainag Dry-Sea Saturati 3) Geomo Shallow FAC-Ne Raised	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 r Aquitard (D3) eutral Test (D5) Ant Mounds (D6)	more required) 9) (MLRA 1, 2, (C2) ial Imagery (C9)) (LRR A)
DROLOGY /etland Hydrology Indicato rimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Water-Stained Leaves (B	rs: Idicator is s	ufficient) Water-1 1, 2, Salt Cri Aquatic Hydrog Oxidize Presen Recent Stuntec Other (Stained Le 4A and 4 ust (B11) c Invertebra en Sulfide ed Rhizosp ce of Redu Iron Redu d or Stress Explain in	eaves (B9) (e B) Ates (B13) Odor (C1) wheres along uced Iron (C uction in Plov ed Plants (C Remarks)	xcept MLRA Living Roots (C 4) ved Soils (C6) 1) (LRR A)	Seconda Water-S 4A a Drainag Dry-Sea Saturati 3) Geomo Shallow FAC-Ne Raised Frost-H	ry Indicators (2 or Stained Leaves (B nd 4B) le Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 r Aquitard (D3) eutral Test (D5) Ant Mounds (D6) eave Hummocks	(C2) (LRR A) (D7)
DROLOGY Vetland Hydrology Indicato rrimary Indicators (any one ir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Water-Stained Leaves (E Sparsely Vegetated Con	rs: dicator is s dicator s s 39) cave Surfac	ufficient) Water 1, 2, Salt Crin Aquatio Hydrog Oxidizer Presen Recent Stunteo Other (cce (B8)	Stained Le 4A and 4 ust (B11) c Invertebra en Sulfide ed Rhizosp ce of Redu Iron Redu d or Stress Explain in	eaves (B9) (e B) Odor (C1) heres along uced Iron (C uction in Plov ed Plants (D Remarks)	xcept MLRA Living Roots (C 4) ved Soils (C6) 1) (LRR A)	Seconda Water-S Water-S Drainag Dry-Sea Saturati 3) Geomo Shallow FAC-Ne Raised Frost-H	ry Indicators (2 or Stained Leaves (B nd 4B) le Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 Aquitard (D3) autral Test (D5) Ant Mounds (D6) eave Hummocks	(LRR A) (D7)
DROLOGY //etland Hydrology Indicato rrimary Indicators (any one ir 	rs: dicator is s dicator s s dicator is s dicator sufactor	ufficient) Water-3 Salt Crn Aquatic Hydrog Oxidize Presen Recent Stuntec Other (ce (B8)	Stained Le 4A and 4 ust (B11) E Invertebra en Sulfide ed Rhizosp ce of Redu Iron Redu d or Stress Explain in	aves (B9) (e B) ates (B13) Odor (C1) heres along uced Iron (C iction in Plov ed Plants (E Remarks)	Hydric Solin xcept MLRA Living Roots (C 4) ved Soils (C6) 1) (LRR A)	Seconda Water-5 A a Drainag Dry-Sea Saturati 3) Geomo A shallow FAC-Ne Raised Frost-H	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 r Aquitard (D3) eutral Test (D5) Ant Mounds (D6) eave Hummocks	(C2) (LRR A) (D7)
DROLOGY /etland Hydrology Indicator rimary Indicators (any one in	rs: dicator is s dicator is s asy asy cave Surfac	ufficient) Water-3 Salt Crn Aquatic Hydrog Oxidize Presen Recent Stuntec Other (ce (B8) No Depth	Stained Le 4A and 4 ust (B11) : Invertebra en Sulfide ed Rhizosp ce of Redu Iron Redu d or Stress Explain in	aves (B9) (e B) ates (B13) Odor (C1) wheres along uced Iron (C iction in Plov ed Plants (E Remarks)	Invariant xcept MLRA Living Roots (C 4) ved Soils (C6) 1) (LRR A)	Seconda Water-S Barriag Drainag Dry-Sea Saturati 3) Shallow FAC-Ne Raised Frost-H	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2) • Aquitard (D3) eutral Test (D5) Ant Mounds (D6) eave Hummocks	(C2) (LRR A) (D7)
DROLOGY /etland Hydrology Indicator rimary Indicators (any one in 	rs: dicator is s dicator is s 39) cave Surfac	ufficient) — Water-3 1, 2, — Salt Crn — Aquatic — Hydrog — Oxidize — Presen — Recent — Stuntec — Other (ce (B8) _ No ✓ Deptt No ✓ Deptt	Stained Le 4A and 4 ust (B11) : Invertebra en Sulfide ed Rhizosp ce of Redu Iron Redu d or Stress Explain in n (inches): n (inches):	aves (B9) (e B) ates (B13) Odor (C1) heres along uced Iron (C ciction in Plov ed Plants (E Remarks)	Invariant xcept MLRA Living Roots (C 4) ved Soils (C6) 1) (LRR A)	Seconda Water-S Water-S Drainag Dry-Sea Saturati 3) Geomo Shallow FAC-Ne Raised Frost-H	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 Aquitard (D3) eutral Test (D5) Ant Mounds (D6) eave Hummocks	(C2) (C2) (LRR A) (D7)
DROLOGY Vetland Hydrology Indicato rimary Indicators (any one ir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Water-Stained Leaves (B Sparsely Vegetated Com ield Observations: urface Water Present? Y vaturation Present? Y aturation Present? Y	rs: dicator is s dicator is s dicator is s dicator di di dicator dicator dicator dicator dicator dicator di di	ufficient) — Water-3 1, 2, — Salt Crn — Aquatic — Hydrog — Oxidize — Presen — Recent — Stuntec — Other (ce (B8) _ No ✓ Deptt No ✓ Deptt No ✓ Deptt	Stained Le 4A and 4 ust (B11) : Invertebra en Sulfide ad Rhizosp ce of Redu Iron Redu d or Stress Explain in n (inches): n (inches): n (inches):	aves (B9) (e B) ates (B13) Odor (C1) wheres along uced Iron (C iction in Plov ed Plants (E Remarks) >16"	Invariant xcept MLRA Living Roots (C 4) ved Soils (C6) 1) (LRR A)	Seconda Water-S Water-S A a Drainag Dry-Sea Saturati 3) Shallow FAC-Ne Raised Frost-H	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 r Aquitard (D3) eutral Test (D5) Ant Mounds (D6) eave Hummocks	(C2) (C2) (LRR A) (D7) No <u>√</u>
DROLOGY /etland Hydrology Indicator rimary Indicators (any one ir Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Water-Stained Leaves (E Sparsely Vegetated Con ield Observations: urface Water Present? Y vaturation Present? Y aturation Present? Y ncludes capillary fringe) Scribe Recorded Data (strear	rs: dicator is s dicator is s 39) cave Surfac (es (es res n gauge, m	ufficient) Water-3 1, 2, Salt Crn Aquatic Aquatic Uydrog Oxidize Presen Recent Stuntec Other (ce (B8) No ✓ Deptt No ✓ Deptt No ✓ Deptt No ✓ Deptt No ✓ Deptt	Stained Le 4 A and 4 ust (B11) : Invertebra en Sulfide d Rhizosp ce of Redu Iron Redu J or Stress Explain in n (inches): n (inches): n (inches):	aves (B9) (e B) ates (B13) Odor (C1) heres along uced Iron (C iction in Plov ed Plants (E Remarks) >16" >16"	Iving Roots (C 4) ved Soils (C6) 1) (LRR A) 0 - Wetland spections), if av	Seconda Water-S Water-S A a Drainag Dry-Sea Saturati 3) FAC-Ne Raised FAC-Ne Hydrology Pre ailable	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 Aquitard (D3) autral Test (D5) Ant Mounds (D6) eave Hummocks	(C2) (C2) (LRR A) (D7) No √
DROLOGY Vetland Hydrology Indicato trimary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Water-Stained Leaves (E Sparsely Vegetated Con ield Observations: Surface Water Present? Y Vater table Present? Y vaturation Present? Y isturface Mater Present? Y isturface Sapillary fringe) Scribe Recorded Data (strear	rs: dicator is s dicator is s 39) cave Surfac (es (es res n gauge, m	ufficient) Water-3 1, 2, Salt Crn Aquatic Aquatic Oxidize Presen Recent Stuntec Other (Ce (B8) No <u>✓</u> Deptt No <u>✓</u> Deptt No <u>✓</u> Deptt onitoring well, ae	Stained Le 4 A and 4 ust (B11) : Invertebra d Rhizosp de n Sulfide d Rhizosp ce of Redu I ron Redu d or Stress Explain in n (inches): n (inches): n (inches): rial photos	aves (B9) (e B) ates (B13) Odor (C1) heres along uced Iron (C iction in Plov ed Plants (E Remarks) >16" >16"	Invariant Solution xcept MLRA Living Roots (C 4) ved Soils (C6) 1) (LRR A) 0 _ ypections), if av	Seconda Water-S Water-S AA a Drainag Dry-Sea Saturati 3) Geomo Shallow FAC-Ne Raised Frost-H	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 Aquitard (D3) autral Test (D5) Ant Mounds (D6) eave Hummocks	(C2) (C2) (LRR A) (D7) No √
DROLOGY Vetland Hydrology Indicato Primary Indicators (any one in Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Sparsely Vegetated Con Sediment Present? Yater table Present? Yater table Present? Yater table Present? Saturation Present? Soribe Recorded Data (strear slope up to footpath	rs: dicator is s dicator is s 39) cave Surfac es res n gauge, m	ufficient) Water-3 1, 2, Salt Cri Aquatic Hydrog Oxidize Presen Recent Stunter Other (ce (B8) No <u>√</u> Deptr No <u>√</u> Deptr No <u>√</u> Deptr onitoring well, aer	Stained Le 4 A and 4 ust (B11) : Invertebra en Sulfide ed Rhizosp ce of Redu Iron Redu d or Stress Explain in n (inches): n (inches): n (inches): n (inches):	aves (B9) (e B) ates (B13) Odor (C1) heres along uced Iron (C action in Plov ed Plants (C Remarks) >16" >16"	Invariant Solin xcept MLRA Living Roots (C 4) ved Soils (C6) 1) (LRR A) 0 - wetland spections), if av	Seconda Water-S 4A a Drainag Dry-Sea Saturati 3) Geomo Shallow FAC-Ne Raised Frost-H	ry Indicators (2 or Stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 Aquitard (D3) sutral Test (D5) Ant Mounds (D6) eave Hummocks	more required) 9) (MLRA 1, 2, (C2) ial Imagery (C9)) (LRR A) (D7)
DROLOGY /etland Hydrology Indicator imary Indicators (any one in	rs: dicator is s 39) cave Surfac es res n gauge, m	ufficient) Water-3 1, 2, Salt Cri Aquatic Hydrog Oxidize Presen Recent Stuntec Other (ce (B8) No ✓ Depth No ✓ Depth onitoring well, aet	Stained Le 4 A and 4 ust (B11) c Invertebra en Sulfide ed Rhizosp ce of Redu lron Redu d or Stress Explain in n (inches): n (inches): n (inches): n (inches):	eaves (B9) (e B) ates (B13) Odor (C1) oheres along uced Iron (C action in Plov ed Plants (E Remarks) >16" >16" >16"	xcept MLRA Living Roots (C 4) ved Soils (C6) 1) (LRR A)	Seconda Water-S 4A a Drainag Dry-Sea Saturati 3) Geomo Shallow FAC-Ne Raised Frost-H	ry Indicators (2 or stained Leaves (B nd 4B) e Patterns (B10) ason Water Table on Visible on Aer rphic Position (D2 r Aquitard (D3) eutral Test (D5) Ant Mounds (D6) eave Hummocks	more required) 9) (MLRA 1, 2, (C2) ial Imagery (C9))) (LRR A) (D7) No

Project/Site:	Albany - Ca	lapooia / Willamette River C	onfluence C	City/County: <u>Albany, Li</u>	nn County		Sampling Date:	2/11/2020
Applicant/Owner:	City of Alba	пу				State: OR	Sampling Point	SP-15
Investigator(s):	Greta Presl	ey, Rayna Gleason		Section, Townsh	ip, Range:	06CC, 11S, 03W		
Landform (hillslop	e, terrace, et	c.): <u>floodplain</u>		Local relief (conc	ave, conve	x, none): <u>convex</u>	Slo	pe (%): <u>0-1</u>
Subregion (LRR):	Columbia P	ateau (LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: NAD27
Soil Map Unit Nar	ne: <u>Fluv</u>	ents-Fluvaquents complex				NWI Classification:	Riverine	
Are climatic / hydr	ologic condit	ions on the site typical for th	nis time of ye	ar? Yes	√	No	(If no, explain in R	emarks)
Are Vegetation	, Soi	I, or Hydrology		significantly disturbed?	Are "N	lormal Circumstance	s" Present? Yes	s <u>√</u> No
Are Vegetation	, Soi	I, or Hydrology	ı	naturally problematic?	(If need	led, explain any ans	wers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	√ √ ✔	No No No	 Is the Sampled Area within a Wetland? 	Yes	√	_ No	
Plot located between 7' north of Sp-	14.							

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status?	Dominance Test worksheet: Number of Dominant Species			
1. Fraxinus latifolia	80	Yes	FACW	That Are OBL, FACW, or FAC:	3 (A	1)	
2. Populus balsamifera	30	Yes	FAC	Total Number of Dominant			
3.				Species Across All Strata:	3 (B	3)	
4				Percent of Dominant Species			
	110 = Total Cover		r	That Are OBL, FACW, or FAC:	100% (A	√B)	
Shrub Stratum				Prevalence Index Worksheet:			
1. Cornus alba	30	Yes	FACW	Total % Cover of:	Multiply by:		
2				OBL speciesx1 =	0		
3				FACW species 110 x2 =	220		
4				FAC species 30 x3 =	90		
5				FACU speciesx4 =	0		
	30 =	Total Cove	r	UPL speciesx5 =	0		
Herb Stratum				Column Totals: 140 (A)	310 (B	3)	
1				Prevalence Index = B/A =	2.2		
2							
3				Hydrophytic Vegetation Indicator	s:		
4.				1 - Rapid Test for Hydrophytic Vegetation X 2 - Dominance Test is >50% X 3 - Prevalence Index is ≤3.0 ¹			
5.							
6.							
7					1 ,2		
/			·	4 - Morphological Adapta	auon		
o		T. 1.1.0		5 - Wetiand Non-Vascula			
		= Total Cove	r	Problematic Hydrophytic	vegetation (Explain)		
Woody Vine Stratum				he present ² Provide supporting da	to in Romarka or on		
1				a separate sheet			
2				Hydrophytic			
		Total Cove	r	Vegetation			
% Bare Ground in Herb Stratum 100 %	Cover of Bioti	c Crust	0	Present? Yes	√ No		
				1			

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SOIL								Sampling Poin	it: SP-15	
Profile Des	scription: (Describ	e to the d	epth needed to	docume	nt the inc	licator o	or confirm the ab	sence of indicat	ors.)	
Depth	Matrix		Ree	Redox Features						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-3"	10YR 3/2	100					silty clay			
3-12"	10YR 3/1	95 1	0YR 3/3	5	С	М	silty clay			
12-16"	10YR 3/3	100					silty clay			
	Concentration D-D	anletion P	M-Reduced Mat	riv CS-(r Coate	d Sand Grains ²	ocation: PI -Pore	Lining M-Matrix	
Type. C=C		epietion, r		nx, 00-0	Jovereu u	Coale	d Galid Grains. Et			
Hydric Soi	I Indicators: (Appl	icable to a	all LRRs, unless	otherwi	se noted		Indicators for	Problematic Hy	dric Soils ³ :	
Histosol (A1) Sandy Redox (S5)						2 cm Muck (A10) (LRR B)				
Histic Epipedon (A2) Stripped Matri				d Matrix (S6)	Red Parent Material (TF2)				
Black	Histic (A3)		Loamy I	Mucky M	ineral (F1) (excep	t MLRA 1)	Other (Explain i	n Remarks)	
Hydro	gen Sulfide (A4)		Loamy (Gleyed N	latrix (F2)				
Deple	ted Below Dark Sur	face (A11)	Deplete	d Matrix	(F3)		3			
	Dark Surface (A12)		✓ Redox L	Jark Suri	ace (F6)	7)	Indic	ators of hydrophy	tic vegetation and	
Sandy	/ Muck Mineral (S1) / deved Matrix (S4)		Depiete	a Dark S Jepressi	unace (Fa	()	wetiand	s disturbed or pro	be present,	
Ganuy	Javor (if prosont)			Jepiessi	5115 (1 O)		unes	s disturbed or pro	biematic.	
-	Layer (il present)	•								
Type: Depth (inch	10c).						vdric Soil Prosor	at2 V	es./ No	
Doput (mon							yane oon reser			
HYDROLOG	Y									
Wetland H	ydrology Indicator	S	6							
Primary Ind	licators (any one inc	licator is su	ufficient)) (Secondary Indica	itors (2 or more required	<u>d)</u>
Surrad	ve vvater (A1)		water-s		eaves (Be) (excel		Water-Stained L	_eaves (B9) (MLRA 1, 2	,
Flight V	ation (A3)		1, 2 , Salt Cru	4A anu 4	+ D)			4A and 4B)		
Water	Marks (B1)		Aquatic	Inverteb	rates (B13	3)		Drv-Season Wa	iter Table (C2)	
✓ Sedim	ent Deposits (B2)		Hydroge	en Sulfide	e Odor (C	1)		Saturation Visib	le on Aerial Imagery (C	9)
Drift D	eposits (B3)		Oxidize	d Rhizos	pheres alo	, ong Livir	ng Roots (C3)	Geomorphic Po	sition (D2)	- /
Algal I	Mat or Crust (B4)		Presend	e of Red	uced Iron	(C4)	<u> </u>	Shallow Aquitar	d (D3)	
Iron D	eposits (B5)		Recent	Iron Red	uction in F	Plowed	Soils (C6)	FAC-Neutral Te	st (D5)	
Surfac	ce Soil Cracks (B6)		Stunted or Stressed Plants (D1)				.RR A)	Raised Ant Mou	inds (D6) (LRR A)	
✓ Water	-Stained Leaves (B	9)	Other (E	Explain in	Remarks	5)		Frost-Heave Hu	mmocks (D7)	
Spars	ely Vegetated Conc	ave Surfac	e (B8)							
Field Obse	ervations:									
Surface Wa	ater Present? Ye	es N	lo <mark>√</mark> Depth	(inches)		0				
Water table Present? Yes No 🗸 Depth (inches): >16"										
Saturation I	Saturation Present? Yes No ✓ Depth (inches): >16"						Wetland Hydrology Present? Yes <u>√</u> No			
(includes ca	apillary fringe) corded Data (stream		pritoring well as	rial nhote	os previou	is insha	ctions) if available			
Describe Rec	ordeu Data (Stream	gauge, m	onitoning well, ae	nai prioto	s, previor	is inspe	clions), il available	5		
sediment dep	osits from recent flo	oding								

US Army Corps of Engineers
Project/Site:	Albany - Calap	ooia / Willamette River	Confluence C	City/County: <u>Albany, Lin</u>	n County		Sampling Date:	5/12/2020
Applicant/Owner:	City of Albany					State: OR	Sampling Point	: <u>SP-16</u>
Investigator(s):	Greta Presley,	Rayna Gleason, Kate F	orester	Section, Townshi	o, Range:	01DD, 11S, 04W		
Landform (hillslop	e, terrace, etc.)	gradual slope		Local relief (conca	ve, convex	, none): <u>convex</u>	Slo	pe (%): <u>2-5</u>
Subregion (LRR):	Columbia Plate	eau (LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: NAD27
Soil Map Unit Nar	ne: <u>Holcom</u>	nb silt loam				NWI Classification:	Riverine	
Are climatic / hydr	ologic condition	is on the site typical for t	his time of ye	ear? Yes_√	/	No	(If no, explain in R	Remarks)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "No	ormal Circumstance	s" Present? Yes	s <u>√</u> No
Are Vegetation	, Soil	, or Hydrology	I	naturally problematic?	(If neede	ed, explain any ans	wers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>✓</mark> Yes <mark>✓</mark> Yes <u>√</u>	No No No	 Is the Sampled Area within a Wetland? 	Yes <u>√</u>	No	
Plot located approximately 2' east of	f park barbequ	e, under powerlir	ies in lawn area.			

VEGETATION

<u>Tree Stratum</u> (Use scientific names.) 1	Absolute % Cover	Dominant Species?	Indicator Status?	Dominance Test w Number of Domina That Are OBL, FAC	workshee ant Specie CW, or FA	et: es AC:	1	(A)
2 3				Total Number of D Species Across All	ominant I Strata:	_	1	(B)
4		= Total Cove		Percent of Domina That Are OBL, FA	int Specie CW, or FA	es AC:	100%	(A/B)
<u>Shrub Stratum</u> 1.				Prevalence Index Total % Cov	Workshe	eet:	Multiply by:	
2.				OBL species		x1 =	0	_
3.				FACW species		x2 =	0	
4.				FAC species	105	x3 =	315	
5.				FACU species		x4 =	0	
	0	= Total Cove	-	UPL species		x5 =	0	
Herb Stratum				Column Totals:	105	(A)	315	(B)
1. Poa annua	95	Yes	FAC	Prevalence Ind	ex = B/A	=	3.0	
2. Trifolium repens	10	No	FAC					
3				Hydrophytic Vege	etation In	dicators	:	
4				1 - Rap	id Test fo	r Hydrop	hytic Vegetation	
5				X 2 - Dom	ninance To	est is >50	0%	
ô				X 3 - Prev	alence In	idex is ≤	3.0 ¹	
7				4 - Mor	nhologica	l Adantat	ion ^{1,2}	
8				5 - Wet	land Non-	-Vascular	Plants ¹	
	105	= Total Cove		Problem	natic Hvdi	rophytic	/egetation ¹ (Expl	ain)
Woody Vine Stratum				¹ Indicators of hydri	c soil and	l wetland	hydrology must	
1.				a separate sheet	ide suppo	ung uala		
2% Bare Ground in Herb Stratum	0 % Cover of Biot	= Total Cove	0	Hydrophytic Vegetation Present?		Yes	√ No	

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Profile Des	scription: (Desc	ribe to the	depth needed to	docume	nt the inc	dicator o	r confirm the a	absence of indicators.)
Depth	Matrix	(Re	dox Feati	Jres			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	$l oc^2$	Texture	Remarks
0-9"	10YR 3/2		7 5YR 3/4		<u> </u>	 M	silt loam	Homano
	1011(0/2		2.5V 3/1	10	<u> </u>	M		_
2_12"	2 57 3/2	100	2.01 0/1		<u> </u>		sandy clay	aravels
>12"	2.51 5/2	100					refusal	cemented gravels and sand
12						-	Telusai	
						-		
							·	
							·	
Type: C=0	Concentration, D	=Depletion,	RM=Reduced Mat	rix, CS=0	Covered o	or Coated	Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
						-		
lydric Soi	I Indicators: (A	pplicable t	o all LRRs, unless	otherwi	se noted	1	Indicators f	or Problematic Hydric Soils ":
Histos	sol (A1)		Sandy F	Redox (S	5)			2 cm Muck (A10) (LRR B)
Histic	Epipedon (A2)		Stripped	d Matrix (S6)			Red Parent Material (TF2)
Black	Histic (A3)		Loamy	Mucky Mi	neral (F1) (except	MLRA 1)	Other (Explain in Remarks)
Hydro	gen Sulfide (A4)		Loamy	Gleyed M	latrix (F2	2)		
Deple	ted Below Dark S	Surface (A1	1) Deplete	d Matrix	(F3)		2	
Thick	Dark Surface (A	12)	✓ Redox I	Dark Surf	ace (F6)		³ Ind	licators of hydrophytic vegetation and
Sandy	y Muck Mineral (S	S1)	Deplete	d Dark S	urface (F	7)	wetla	nd hydrology must be present,
Sandy	y gleyed Matrix (S	54)	Redox I	Depressio	ons (F8)		unle	ess disturbed or problematic.
lestrictive	e Layer (if prese	nt):						
ype: <u>cer</u>	mented gravels a	nd sand						
Depth (inch	nes):		12			Hy	dric Soil Pres	ent? Yes <u>√</u> No
<u>'DROLOG</u> Vetland H	Y ydrology Indica	tors						
DROLOG Vetland H Primary Inc	Y ydrology Indica dicators (anv one	tors	sufficient)					Secondary Indicators (2 or more required)
DROLOG Vetland H Primary Inc Surfac	Y ydrology Indica dicators (any one ce Water (A1)	tors indicator is	sufficient) Water-5	Stained Le	eaves (B9	9) (excep	t MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1.2.
DROLOG Vetland H Primary Inc Surfac High \	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2)	tors indicator is	sufficient) Water-5 1. 2.	Stained Le	eaves (BS	9) (excep	t MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B)
DROLOG Vetland H Primary Inc Surfac High \ Satur	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3)	tors indicator is	sufficient) Water-S 1, 2, Salt Cn	Stained Le 4A and 4 Inst (B11)	eaves (B9 1B)	9) (excep	t MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10)
DROLOG Vetland H 'rimary Inc Surfac Surfac High \ Satura Water	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Marks (B1)	tors indicator is	sufficient) Water-S 1, 2, Salt Cru Aoutatic	Stained Lo 4A and 4 Ist (B11)	eaves (B9 1B) rates (B1)	9) (excep 3)	t MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Drx-Season Water Table (C2)
DROLOG Vetland H Irimary Inco Surfac High V Satura Satura Sedim	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Marks (B1) ont Deposits (B2)	tors indicator is	sufficient) Water-S 1, 2, Salt Cru, Aquatic Hvdrog	Stained Le 4A and 4 Ist (B11) Invertebr	eaves (Bs IB) rates (B1:	9) (excep 3)	t MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
DROLOG Vetland H Surfac High \ Satura Water Sedin Sedin	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) ^c Marks (B1) nent Deposits (B2)	tors indicator is	sufficient) Water-S 1, 2, Salt Cr. Aquatic Hydrogr. ✔ Oxidize	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizost	eaves (BS IB) rates (B1) e Odor (C	9) (excep 3) 3)	t MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
DROLOG Vetland H Primary Inc Surfac High N Satura Water Sedim Sedim Drift E Alnal	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4)	tors indicator is 2)	sufficient) Water-S 1, 2, Salt Cru, Aquatic Hydrogr ✔ Oxidize Presend	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp ce of Red	eaves (BS IB) rates (B1: e Odor (C bheres al	9) (excep 3) :1) ong Livin 1 (C4)	t MLRA g Roots (C3)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
DROLOG Vetland H Primary Inc Surfac High N Satura Water Sedim Drift E Algal	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) ^r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Denosits (P5)	tors indicator is 2)	sufficient) Water-S 1, 2, Salt Cru. Aquatic Hydroge Vidioge Presence Recent	Stained Le 4A and 4 ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Red	eaves (BS IB) ates (B1: odor (C bheres al uced Iror uction in l	9) (excep 3) 3) 1) ong Livin n (C4) Plowed S	t MLRA g Roots (C3) oils (C6)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) EAC-Neutral Test (D5)
DROLOG Vetland H 'rimary Inc Surfac High N Satura Water Sedim Sedim Drift E Algal Iron D Surfac	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B	tors indicator is 2)	sufficient) Water-S 1, 2, Salt Crn. Aquatic Hydrogu ✓ Oxidize Presenc Recent Stunted	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp ce of Red Iron Redi or Stress	eaves (BS IB) eates (B1: e Odor (C oheres al- uced Iron uction in I sed Plant	9) (excep 3) :1) ong Livin n (C4) Plowed S s (D1) (t MLRA g Roots (C3) oils (C6) RR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
DROLOG Vetland H 'rimary Inc Surfac High N Satura Water Sedim Drift E Algal Iron D Surfac Water	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) ^r Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B -Stained Leaves	tors indicator is 2)) (6) (B9)	sufficient) Water-S 1, 2, Salt Cru, Aquatic Hydroge Presenc Recent Stunted Other (f	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Red or Stress Explain in	eaves (BS IB) cates (B1: codor (C oheres al- uced Iron uction in I sed Plant Remarks	9) (excep 3) :1) ong Livin n (C4) Plowed S s (D1) (Ll s)	t MLRA g Roots (C3) oils (C6) RR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
DROLOG /etland H Surfac High N Satura Water Sedim Drift E Algal Iron D Surfac Surfac Water Spars	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) ^c Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B -Stained Leaves sely Vegetated Co	tors indicator is 2)) (B9) oncave Surl	sufficient) Water-S 1, 2, Salt Cru, Aquatic Hydrogu ✓ Oxidize Presenc Recent Stunted Other (f face (B8)	Stained Le 4A and 4 ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Red or Stress Explain in	eaves (BS IB) e Odor (C bheres ale uced Iror uction in I sed Plant Remarks	9) (excep 3) 11) ong Livin n (C4) Plowed S s (D1) (Ll s)	t MLRA g Roots (C3) oils (C6) RR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
DROLOG Vetland H 'rimary Inc Satura High \ Satura Vater Sedin Drift I Algal Iron D Surfac Surfac Spars 'ield Obse	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B r-Stained Leaves ely Vegetated Co prvations:	tors indicator is 2)) (B9) oncave Surl	Sufficient) Water-S 1, 2, Salt Cru Aquatic Hydrogr ✓ Oxidize Presena Recent Stunted Other (B face (B8)	Stained Lo 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Redu or Stress Explain in	eaves (BS IB) e Odor (C oheres al uced Iror uction in I sed Plant Remarks	3) 3) 3) 3) 3) 3) 3) 3) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4) 4)	t MLRA g Roots (C3) toils (C6) RR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
DROLOG Vetland H 'rimary Inc Satura High 1 Satura Vater Sedin Drift I Algal Iron D Surfac Surface Water	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B r-Stained Leaves ely Vegetated Co prvations: ater Present?	tors indicator is 2)) (B9) oncave Surl Yes	usufficient) UWater-S 1, 2, Salt Cru Aquatic Hydrogu ✓ Oxidize Presend Recent Stunted Other (f face (B8)_	Stained Le 4A and 4 ist (B11) Invertebr en Sulfide d Rhizosp e of Red or Stress Explain in (inches)	eaves (BS IB) e Odor (C oheres al uced Iror uction in I sed Plant Remarks	 a) (excep b) (excep c) c) c) c) c) c) c) c) 	t MLRA g Roots (C3) toils (C6) RR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
DROLOG Vetland H Surfar High \ Satura Vater Sedin Drift E Algal Iron D Surfar Surfar Surfar Surfar Surfar	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B r-Stained Leaves ely Vegetated Co proteins: ater Present?	tors indicator is 2) (B9) (B9) oncave Surl Yes Yes	sufficient)	Stained Le 4A and 4 ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Red or Stress Explain in (inches): (inches)	eaves (BS IB) eates (B1: e Odor (C oheres al- uced Iror uction in I sed Plant Remarks = -12"	 a) (excep b) (excep c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (t MLRA g Roots (C3) oilis (C6) RR A)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
DROLOG Vetland H Primary Inc Surfac High 1 Satura Water Sedin Drift E Algal Iron D Surface Wa Vater table Surface Water Vater table Satrace	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Mator Crust (B4) Deposits (B5) Ce Soil Cracks (B -Stained Leaves kely Vegetated Co prvations: ater Present? Present?	tors indicator is 2) (B9) (B9) Soncave Surf Yes Yes Yes	sufficient)	Stained Le 4A and 4 ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Red or Stress Explain in (inches): (inches):	eaves (BS IB) eates (B1: e Odor (C oheres al- uced Iror uction in I sed Plant Remarks = = = = = = = = = = = = =	 a) (excep b) (excep c) (c) (c) (c) (c) (c) (c) (c) (c) (c) (t MLRA g Roots (C3) oilis (C6) rR A) Wetland Hvr	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
DROLOG Vetland H Primary Inc Surfac High 1 Satura Water Sedin Drift E Algal Iron D Surface Wa Vater table Saturation includes c	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Mator Crust (B4) Deposits (B5) Ce Soil Cracks (B -Stained Leaves kely Vegetated Co prvations: ater Present? Present? apillary fringe)	tors indicator is 2) (B9) (B9) Soncave Surf Yes Yes	sufficient)	Stained Le 4A and 4 ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Red or Stress Explain in (inches): (inches):	eaves (BS Pates (B1) odor (C oheres al- uced Iror uction in I sed Plant Remarks 	 a) (exception) a) (ct) b) (ct) c) (ct) <lic) (ct)<="" li=""> <lic) (ct)<="" li=""> <lic) (ct)<="" li=""></lic)></lic)></lic)>	t MLRA g Roots (C3) ooils (C6) rR A) Wetland Hyd	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
DROLOG Wetland H Primary Inc Surfar Satura Sedin Drift D Orift D Orift D Surfar Surfar	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B r-Stained Leaves dely Vegetated Co proteines: ater Present? Present? Present? present? apillary fringe) corded Data (stre	tors indicator is 2) (B9) (B9) oncave Surf Yes Yes am gauge,	sufficient)	Stained Le 4A and 4 ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Red or Stress Explain in (inches): (inches): (inches):	eaves (BS IB) eates (B1: e Odor (C oheres al- uced Iror uction in I sed Plant Remarks = = = = = = = = = = = = =	 a) (exception) a) (a) (a) (a) (a) (a) (a) (a) (b) (a) (a) (b) (a) (b) (b) (c) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	t MLRA g Roots (C3) toils (C6) RR A) Wetland Hyd	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG Wetland H Primary Inc Surfar Surfar Water Sedin Drift I Algal Iron D Surfar Vater Spars Field Obse Saturation (includes c scribe Rec 270.0 5"	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B r-Stained Leaves ely Vegetated Co rvations: ater Present? Present? Present? apillary fringe) corded Data (stre	tors indicator is 2) (B9) (B9) Soncave Surl Yes Yes Yes am gauge,	sufficient)	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp æ of Red Iron Red or Stress Explain in (inches): (inches): (inches):	eaves (BS IB) rates (B1: e Odor (C oheres al- uced Iror uction in I sed Plant Remarks <u>>12"</u> >12" >12" s, previo	9) (excep 3) 3) 3) 3) 3) 9) 9) 9) 9) 9) 9) 9) 9) 9) 9) 9) 9) 9)	t MLRA	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROLOG Wetland H Primary Inc Satura Satura Water Sedin Drift I Algal Iron D Surfac Surfac Surface Wa Water table Sturface Wa Water table Saturation (includes c scribe Rec	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B r-Stained Leaves dely Vegetated Co rovations: ater Present? Present? Present? apillary fringe) corded Data (stre	tors indicator is 2) (B9) (B9) oncave Surf Yes Yes Yes am gauge,	sufficient)	Stained Le 4A and 4 ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Redu or Stress Explain in (inches): (inches): (inches):	eaves (BS IB) eates (B1: e Odor (C oheres al- uced Iror uction in I sed Plant Remarks >12" >12" >12" os, previo	9) (excep 3) 3) 3) 3) 3) 3) 9) 9) 9) 9) 9) 9) 9) 9) 9) 9) 9) 9) 9)	t MLRA g Roots (C3) ooils (C6) RR A) Wetland Hyd	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
DROLOG Vetland H Primary Inc Surfar Satura Vater Sedin Drift E Algal Iron D Surfar Vater Surfar Surface Wa Vater table Saturation includes c: scribe Rec Zs 0-5"	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Mater Table (A2) ation (A3) Mator Crust (B4) Deposits (B5) ce Soil Cracks (B5) ce Soil C	tors indicator is 2)) (B9) (B9) Oncave Surf Yes Yes am gauge,	sufficient)	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Redu or Stress Explain in (inches): (inches): rial photo	eaves (BS IB) eates (B1: e Odor (C oheres al- uced Iror uction in I sed Plant Remarks = = = = = = = = = = = = =	 a) (exception (exception)) b) (c4) c) (c4) <lic) (c4)<="" li=""> <lic) (c4)<="" l<="" td=""><td>t MLRA g Roots (C3) ioils (C6) RR A) Wetland Hyc</td><td>Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)</td></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)>	t MLRA g Roots (C3) ioils (C6) RR A) Wetland Hyc	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
DROLOG Netland H Primary Inc Surfae Surfae Sedin Drift E Algal Iron D Surfae Surfae Surfae Surfae Surfae Surfae Surfae Surfae Saturation includes c scribe Rece Zzs 0-5"	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Mater Table (A2) ation (A3) Mator Crust (B4) Deposits (B5) ce Soil Cracks (B5) ce Soil C	tors indicator is 2)) (B9) oncave Surf Yes Yes am gauge,	sufficient)	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp e of Red Iron Red or Stress Explain in (inches): (inches): (inches): rial photo	eaves (BS IB) rates (B1: e Odor (C oheres al- uced Plant Remarks >12" >12" os, previo	 a) (exceptions) a) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	t MLRA g Roots (C3) ooils (C6) ran A) Wetland Hyc	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
DROLOG Vetland H 'rimary Inda Satura Satura Water Sedin Drift I Algal Iron D Surfac Water Spars Field Obse Surface Wa Vater table Saturation includes c scribe Rec	Y ydrology Indica dicators (any one ce Water (A1) Water Table (A2) ation (A3) Marks (B1) nent Deposits (B2) Deposits (B3) Mat or Crust (B4) Deposits (B5) ce Soil Cracks (B c-Stained Leaves dely Vegetated Co cervations: ater Present? Present? Present? apillary fringe) corded Data (stre	tors indicator is 2))))) (B9) (B9) (B9) (B9) (B9) (B9)	sufficient)	Stained Le 4A and 4 Ist (B11) Invertebr en Sulfide d Rhizosp ze of Red Iron Redu or Stress Explain in (inches): (inches): rial photo	eaves (BS IB) rates (B1: e Odor (C oheres al- uced Plant Remarks >12" >12" os, previo	 a) (exception (exception)) b) (c4) c) (c4) <lic) (c4)<="" li=""> <lic) (c4)<="" li=""></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)></lic)>	t MLRA g Roots (C3) toils (C6) RR A) Wetland Hyc	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2, 4A and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

Project/Site:	Albany - Calapo	oia / Willamette River 0	Confluence C	City/County:	Albany, Linn (County		Sampling Date	e:	5/12/2020
Applicant/Owner:	City of Albany						State: OR	Sampling Poir	nt: <u>SP-17</u>	
Investigator(s):	Greta Presley, F	Rayna Gleason, Kate F	orester	Secti	on, Township,	Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace, etc.):	gradual slope		Local	relief (concave	, convex	, none): <u>convex</u>	SI	ope (%):	2-5
Subregion (LRR):	Columbia Platea	au (LRR B)	Lat:		44	1.63859	Long:	-123.111314	Datum:	NAD27
Soil Map Unit Nan	ne: <u>Holcomb</u>	silt loam					NWI Classification:	Riverine		
Are climatic / hydr	ologic conditions	on the site typical for t	his time of ye	ar?	Yes 🗸		No	(If no, explain in	Remarks)	
Are Vegetation	, Soil	, or Hydrology		significantly d	disturbed?	Are "No	ormal Circumstance	s" Present? Ye	es 🗸	No
Are Vegetation	, Soil	, or Hydrology	I	naturally prob	olematic?	(If need	ed, explain any ans	wers in Remarks.))	

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes Yes	No No ✓ No ✓	Is the Sampled Area within a Wetland?	Yes	No <u>√</u>	
Plot located approximately 12' south	of park barbe	que, between two pa	ark tables.			

VEGETATION

T	Absolute % Cover	Dominant Species?	Indicator Status?	Dominance Test	workshee	et:		
1. Liriodendron tulipifera	30	Yes	NL	That Are OBL, FA	CW, or FA	.C:	1	(A)
2				Total Number of D Species Across Al)ominant Il Strata:		2	(B)
4	30 =	= Total Cove	r	Percent of Domina That Are OBL, FA	ant Specie CW, or FA	s .C:	50%	(A/B)
Shrub Stratum				Prevalence Index	Workshe	et:		
2			·	OBL species	/er of:		Multiply by:	
3	·		·	FACW species			0	
4.				FAC species	110		330	_
5.				FACU species		x4 =	0	
	0 =	Total Cove	r	UPL species	30	x5 =	150	
Herb Stratum				Column Totals:	140	(A)	480	(B)
1. <u>Poa annua</u>	95	Yes	FAC	Prevalence Inc	dex = B/A =	=	3.4	
2. Trifolium repens	15	No	FAC					
3				Hydrophytic Veg	etation In	dicators	:	
4				1 - Rap	oid Test for	r Hydropl	hytic Vegetation	
5				2 - Dor	minance Te	est is >50	0%	
S				3 - Pre	valence In	dex is ≤	3.0 ¹	
7				4 - Mor	rphological	Adaptat	ion ^{1,2}	
3				5 - Wet	tland Non-	Vascular	Plants ¹	
Woody Vine Stratum	<u>110</u> =	= Total Cover	r	Probler ¹ Indicators of hydr be present. ² Prov a separate sheet	matic Hydr ic soil and ride suppor	ophytic \ wetland rting data	/egetation ¹ (Expl hydrology must a in Remarks or c	ain) n
2% Bare Ground in Herb Stratum	0 = % Cover of Biotic	= Total Cover	r 0	Hydrophytic Vegetation Present?		Yes	No 🗸	

US Army Corps of Engineers

Sampling	Point [.]	SP-17
Sampling	F UIIIL.	01-17

SOIL							Sampling Point: SF	P-17
Profile Des	scription: (Des	cribe to the	depth needed to	document the	indicator	or confirm the abs	ence of indicators.)	
Depth	Matri	ix	R	edox Features				
(inches)	Color (moist) %	Color (moist)	% Tvp	e ¹ Loc ²	2 Texture	Re	marks
0-9"	10 YR 3/3	75	10YR 3/4	20 C	M	sandy clay loa	m	
	10 111 0/0		10YR 3/2	<u> </u>	M	<u>oundy only fou</u>		
>9"			101110/2			refusal	cemented gravels	and sand
<u> </u>				·		Torubur	comonica gravelo	
				· ·				
				· ·				
¹ Type: C=0	Concentration, D	=Depletion, I	RM=Reduced Ma	trix, CS=Covere	d or Coate	d Sand Grains. ² Lo	cation: PL=Pore Lining	g, M=Matrix.
								•
Hydric Soi	I Indicators: (A	opplicable to	all LRRs, unless	s otherwise not	ted.	Indicators for	Problematic Hydric S	Soils ³ :
Histos	sol (A1)		Sandy	Redox (S5)			2 cm Muck (A10) (LR	R B)
Histic	Epipedon (A2)		Strippe	ed Matrix (S6)			Red Parent Material	(TF2)
Black	Histic (A3)		Loamy	Mucky Mineral	(F1) (exce	pt MLRA 1)	Other (Explain in Rer	narks)
Hydro	gen Sulfide (A4))	Loamy	Gleyed Matrix	(F2)			
Deple	ted Below Dark	Surface (A11) Deplet	ed Matrix (F3)		2		
Thick	Dark Surface (A	.12)	Redox	Dark Surface (F	-6)	°Indic	ators of hydrophytic ve	getation and
Sandy	/ Muck Mineral (S1)	Deplet	ed Dark Surface	e (F7)	wetland	d hydrology must be pr	esent,
Sandy	/ gleyed Matrix (S4)	Redox	Depressions (F	8)	unles	s disturbed or problem	atic.
Restrictive	e Layer (if prese	ent):						
Type: cer	nented gravels a	and sand						
Depth (inch	nes):		9		1	Hydric Soil Preser	nt? Yes	No 🖌
Remarks:								
HYDROLOG	Y							
Wetland H	ydrology Indica	ators:						
Primary Inc	licators (any one	e indicator is a	sufficient)				Secondary Indicators	2 or more required)
Surfa	ce Water (A1)		Water	Stained Leaves	(B9) (exce	ept MLRA	Water-Stained Leave	s (B9) (MLRA 1, 2,
High \	Nater Table (A2)	1, 2	, 4A and 4B)			4A and 4B)	
Satura	ation (A3)		Salt C	rust (B11)			Drainage Patterns (B	10)
Water	Marks (B1)		Aquati	c Invertebrates ((B13)		Dry-Season Water Ta	able (C2)
Sedim	nent Deposits (B	2)	Hydrog	gen Sulfide Odo	r (C1)		Saturation Visible on	Aerial Imagery (C9)
Drift D	Deposits (B3)		Oxidiz	ed Rhizosphere:	s along Liv	ring Roots (C3)	Geomorphic Position	(D2)
Algal	Mat or Crust (B4	-)	Preser	nce of Reduced	Iron (C4)	• • •	Shallow Aquitard (D3)
Iron D	eposits (B5)		Recen	t Iron Reduction	in Plowed	Soils (C6)	FAC-Neutral Test (D	5)
Surfac	ce Soil Cracks (E	36)	Stunte	d or Stressed Pl	lants (D1) ((LRR A)	Raised Ant Mounds (D6) (LRR A)
Water	-Stained Leaves	s (B9)	Other	(Explain in Rem	arks)	. ,	Frost-Heave Hummo	cks (D7)
Spars	ely Vegetated C	oncave Surfa	ice (B8)					
Field Obse	ervations:		· · <u>–</u>					
Surface W/	ter Present?	Vec	No / Dept	h (inches):	0			
Water table		Vee	No / Dept	h (inches): $\underline{}$	0			
Saturation	Present?	Yes	No V Dept	h (inches): >9		Wotland Hydro	logy Procent? V	s No./
(includes c	apillary fringe)	103		in (inches). <u>+ 5</u>		Wedana Hydro	logy resent: re	<u> </u>
Describe Rec	corded Data (stre	eam gauge, n	nonitoring well, a	erial photos, prev	vious inspe	ections), if available		

US Army Corps of Engineers

Project/Site:	Albany - Calapo	oia / Willamette River (Confluence C	City/County: <u>Albany</u>	Linn County		Sampling Date	e: <u>5/12/2020</u>
Applicant/Owner:	City of Albany					State: OR	Sampling Poir	nt: <u>SP-18</u>
Investigator(s):	Greta Presley, R	Rayna Gleason, Kate F	orester	Section, Tow	nship, Range:	01DD, 11S, 04W		
Landform (hillslop	e, terrace, etc.):	gradual slope		Local relief (co	ncave, convex	(, none): <u>convex</u>	SI	ope (%): <u>2-5</u>
Subregion (LRR):	Columbia Platea	au (LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: NAD27
Soil Map Unit Nar	ne: <u>Holcomb</u>	silt loam				NWI Classification:	Riverine	
Are climatic / hydr	ologic conditions	on the site typical for t	his time of ye	ar? Y	es √	No	(If no, explain in	Remarks)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed	? Are "N	ormal Circumstance	s" Present? Ye	es <mark>√ N</mark> o
Are Vegetation	, Soil	, or Hydrology	r	naturally problematic	lf need	ed, explain any ans	wers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes <mark>√</mark> Yes <mark>√</mark>	No No No	 Is the Sampled Area within a Wetland? 	Yes <u>√</u>	No
Plot located approximately 15' west	of footpath, 20	' north of wheelch	air platform, in lawn area.		

VEGETATION

<u>Tree Stratum</u> (Use scientific names.) 1.	Absolute % Cover	Dominant Species?	Indicator Status?	Dominance Test Number of Domina That Are OBL, FA	workshee ant Specie CW, or FA	et: es AC:	1	(A)
2 3				Total Number of D Species Across Al	ominant I Strata:	_	1	(B)
4		= Total Cove	r	Percent of Domina That Are OBL, FA	ant Specie CW, or FA	es AC:	100%	(A/B)
<u>Shrub Stratum</u> 1		_		Prevalence Index	Workshe	eet:	Multiply by:	
2			·	OBL species	01 01.		0	
3	·			EACW species			0	
4.	• <u> </u>			FAC species	105		315	
5.				FACU species			0	
	0	= Total Cove	r	UPL species		x5 =	0	
Herb Stratum				Column Totals:	105	(A)	315	(B)
1. Poa annua	95	Yes	FAC	Prevalence Ind	lex = B/A	=	3.0	
2. Trifolium repens	10	No	FAC					
3				Hydrophytic Vege	etation In	dicators	:	
4				1 - Rap	id Test fo	r Hydrop	hytic Vegetation	
5				X 2 - Don	ninance T	est is >50	0%	
6				X 3 - Prev	valence In	idex is ≤	3.0 ¹	
7				4 - Mor	nhologica	Adaptat	tion ^{1,2}	
8			·	4 - Wet	land Non-	Vascular	Plants ¹	
	105	= Total Cove	r	Problem	natic Hyd	rophytic	Vegetation ¹ (Expl	ain)
Marcha Marcha Obertana		10101 0010		¹ Indicators of hvdri	ic soil and	wetland	hvdrology must	any
<u>woody vine Stratum</u> 1.				be present. ² Provi a separate sheet	ide suppo	rting data	a in Remarks or o	n
2% Bare Ground in Herb Stratum	0 % Cover of Biot	= Total Cove	r0	Hydrophytic Vegetation Present?		Yes	√ No	

US Army Corps of Engineers

SOIL								Sampling Poin	t: SP-18	
Profile De	scription: (Describ	e to the de	pth needed to	docume	nt the ind	dicator o	or confirm the abse	ence of indicat	ors.)	
Depth	Matrix		Re	dox Feat	ures					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	- Texture		Remarks	
0-10"	10YR 3/1	65 10	0YR 3/4	30	C	M	sandv clav loam			
		7.	5YR 3/4	5	С	PL				
>10"	·						refusal	cemented gra	avels and san	d
¹ Type: C=	Concentration, D=D	epletion, RN	I=Reduced Mat	rix, CS=0	Covered o	or Coate	d Sand Grains. ² Loc	ation: PL=Pore	Lining, M=M	atrix.
Hydric So	il Indicators: (Appl	icable to a	ll LRRs, unless	otherwi	ise noted	1	Indicators for P	roblematic Hy	dric Soils ³ :	
Histo	sol (A1)		Sandy I	Redox (S	5)		2	2 cm Muck (A10) (LRR B)	
Histic	Epipedon (A2)		Strippe	d Matrix (S6)		F	Red Parent Mat	erial (TF2)	
Black	: Histic (A3)		Loamy	Mucky M	ineral (F1) (excep	t MLRA 1) (Other (Explain i	n Remarks)	
Hydro	ogen Sulfide (A4)		Loamy	Gleyed N	latrix (F2	2)				
Deple	eted Below Dark Sur	face (A11)	Deplete	d Matrix	(F3)					
Thick	Dark Surface (A12)		✓ Redox	Dark Surf	face (F6)		³ Indicate	ors of hydrophy	tic vegetation	and
Sand	y Muck Mineral (S1)		Deplete	d Dark S	urface (F	7)	wetland h	nydrology must	be present,	
Sand	y gleyed Matrix (S4)		Redox	Depressio	ons (F8)		unless o	disturbed or pro	blematic.	
Restrictiv	e Layer (if present)	:								
Type: ce	mented gravels and	sand	_							
Depth (inc	hes):	1	0			н	ydric Soil Present?	? Ye	es √	No
Remarks:										
1										
HYDROLOG Wetland F	iY Iydrology Indicator	s								
Primary In	dicators (any one inc	a licator is su	fficient)				5	econdary Indica	itors (2 or mo	re required)
Surfa	ce Water (A1)		Water-9	Stained L	eaves (B	9) (excer		Water-Stained I	eaves (RQ) /	
Uuna High	Water Table (A2)		1 2	4A and	4B)			4A and 4B)	eaves (D3) (WEINA 1, 2 ,
Natur	ration (Δ 3)		salt Cri		4D)		,	Drainage Patter	ns (B10)	
Uate	r Marks (B1)			Inverteb	rates (B1	3)	·	Dru-Season Wa	ter Table (C2)
Sedir	ment Deposits (B2)		Hydrog	an Sulfide	a Odor (C	·1)		Saturation Visib	le on Aerial Ir	nadery (C0)
Ocui Drift I	Denosits (B3)			d Rhizosi	nheres al	ona Livir	m Boots (C3) (Geomorphic Po	sition (D2)	nagery (00)
Algal	Mat or Crust (B4)		Presen	ce of Red	luced Iror	ong Eivii	ig 10000 (00) (Shallow Aquitar	d (D3)	
Iron [Deposits (B5)		Recent	Iron Red	uction in	Plowed S	Soils (C6)	FAC-Neutral Te	st (D5)	
Nurfa	ce Soil Cracks (B6)		Necchi	or Stress	sed Plant		BRA) F	Raised Ant Mou	nds (D6) /I R	R A)
Wate	r-Stained Leaves (B	9)	Other (I	Explain in	Remark	s)		Frost-Heave Hu	mmocks (D7))
Spars	selv Vegetated Conc	ave Surface	(B8)							
Field Obs	ervations:		()							
		- N		(in al. a.a.)		0				
Surface vv	ater Present? Ye		o <u>√</u> Depth	(inches)	:	0				
Saturation	Present? Ve		o <u>√</u> Deptr	(inches)	. <u>>10</u> · >10"		Wetland Hydrold	av Present?	Voc J	No
(includes c	apillary fringe)	<u>, </u>		(incres)	10		Wettand Hydroic	y resent:	103	
Describe Re	corded Data (stream	gauge, mo	nitoring well, ae	rial photo	os, previo	us inspe	ctions), if available			
	•				-		-			

US Army Corps of Engineers

Project/Site:	Albany - Calapooia	/ Willamette River Cor	fluence C	City/County:	Albany, Linn	County		Sampling Date:	5/12/20	020
Applicant/Owner:	City of Albany						State: OR	Sampling Point	: <u>SP-19</u>	
Investigator(s):	Greta Presley, Ray	na Gleason, Kate Fore	ster	Sectio	on, Township	, Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace, etc.):	gradual slope		Local r	elief (concav	e, convex	, none): <u>convex</u>	Slo	pe (%): <u>2-5</u>	
Subregion (LRR):	Columbia Plateau (LRR B)	Lat:		4	14.63859	Long:	-123.111314	Datum: NAD27	
Soil Map Unit Nan	ne: <u>Holcomb silt</u>	t Ioam					NWI Classification:	Riverine		
Are climatic / hydr	ologic conditions on	the site typical for this	time of yea	ar?	Yes 🗸		No	(If no, explain in R	lemarks)	
Are Vegetation	, Soil	, or Hydrology		significantly d	sturbed?	Are "No	ormal Circumstance	s" Present? Yes	s <u> No</u>	
Are Vegetation	, Soil	, or Hydrology	I	naturally prob	lematic?	(If neede	ed, explain any ansv	wers in Remarks.)		

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes Yes	No No ✓ No ✓	Is the Sampled Area within a Wetland?	Yes	No <u>√</u>	
Plot located approximately 5' west o	f footpath.					

VEGETATION

	Absolute %	Dominant	Indicator	Dominance Test	workshee	et:		
Tree Stratum (Use scientific names.)	Cover	Species?	Status?	Number of Domina	ant Specie	S		
1				That Are OBL, FAC	CW, or FA	.C:	2	(A)
2				Total Number of D	ominant			
3				Species Across All	I Strata:	_	2	(B)
4				Percent of Domina	ant Specie	s		
	⁼	 Total Cover 		That Are OBL, FAC	CW, or FA	.C:	100%	(A/B)
Shrub Stratum				Prevalence Index	Workshe	et:		
1				Total % Cove	er of:		Multiply by:	
2				OBL species		x1 =	0	
3				FACW species		x2 =	0	
4				FAC species	110	_x3 =	330	
5				FACU species	2	x4 =	8	
	0 =	= Total Cover		UPL species		x5 =	0	
Herb Stratum				Column Totals:	112	_(A)	338	(B)
1. <u>P</u> oa annua	90	Yes	FAC	Prevalence Ind	lex = B/A	=	3.02	
2. <u>Trifolium repens</u>	20	Yes	FAC					
3. Taraxacum officinale	2	No	FACU	Hydrophytic Vege	etation In	dicators	:	
4				1 - Rap	id Test fo	r Hydrop	hytic Vegetation	
5				<u>X</u> 2 - Dom	ninance T	est is >5	0%	
6				3 - Prev	valence In	dex is ≤	3.0 ¹	
7				4 - Mor	phologica	Adapta	tion ^{1,2}	
8				5 - Wet	land Non-	Vascula	r Plants ¹	
	112 =	= Total Cover		Problem	matic Hydi	ophytic '	Vegetation ¹ (Expl	ain)
Woody Vine Stratum				¹ Indicators of hydri	ic soil and	wetland	hydrology must	
1				be present. ² Provi a separate sheet	ide suppo	rting data	a in Remarks or c	'n
2				Hydrophytic				
	0 =	= Total Cover		Vegetation				
% Para Ground in Harb Stratum	6 Cover of Bioti	c Crust	0	Present?		Yes J	/ No	

US Army Corps of Engineers

SOIL

Sampling	Point [.]	SP-19
Sampling	F UIIIL.	01-19

3012								Sampling Follit. SF-19
Profile Des	scription: (Describe	e to the o	depth needed to	documer	nt the ind	licator	or confirm the abse	nce of indicators.)
Depth	Matrix		R	edox Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc	² Texture	Remarks
0-10"	10 YR 3/3	70	10YR 3/4	20	С	М	silty clay loam	
			10YR 3/1	10	D	М		
>10"							refusal	cemented gravels and sand
		<u> </u>						
17						0		tion: DI-Done Lining M-Metric
Type: C=	Concentration, D=De	pietion, r	KIM=Reduced Ma	trix, CS=C	overed o	r Coate	ed Sand Grains. Loca	ation: PL=Pore Lining, M=Matrix.
Hydric Soi	il Indicators: (Appli	cable to	all LRRs, unless	s otherwis	se noted.		Indicators for P	roblematic Hydric Soils ³ :
Histos	sol (A1)		Sandy	Redox (S	5)		:	2 cm Muck (A10) (LRR B)
Histic	Epipedon (A2)		Strippe	ed Matrix (S6)			Red Parent Material (TF2)
Black	Histic (A3)		Loamy	Mucky M	ineral (F1) (exce	ept MLRA 1)	Other (Explain in Remarks)
Hydro	ogen Sulfide (A4)		Loamy	Gleyed N	latrix (F2	2)		
Deple	ted Below Dark Surfa	ace (A11) Deplet	ed Matrix	(F3)			
Thick	Dark Surface (A12)		Redox	Dark Surf	face (F6)		³ Indicat	ors of hydrophytic vegetation and
Sand	y Muck Mineral (S1)		Deplet	ed Dark S	urface (F	7)	wetland h	nydrology must be present,
Sand	y gleyed Matrix (S4)		Redox	Depressio	ons (F8)		unless	disturbed or problematic.
Restrictive	e Layer (if present):							
Type: cer	mented gravels and s	sand						
Depth (inch	nes):		10				Hydric Soil Present	?Yes No 🗸
Remarks [.]								
. tomanto.								
HYDROLOG	Y							
Wetland H	vdrology Indicators	:						
Primary Ind	dicators (any one indi	icator is s	sufficient)				S	econdary Indicators (2 or more required)
Surfa	ce Water (A1)		Water	-Stained L	eaves (B	9) (exc	ept MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High	Water Table (A2)		1, 2	, 4A and	4B)	<i>,</i> ,	·	4A and 4B)
Satura	ation (A3)		Salt C	rust (B11)				Drainage Patterns (B10)
Water	r Marks (B1)		Aquati	c Inverteb	rates (B1	3)		Dry-Season Water Table (C2)
Sedin	nent Deposits (B2)		Hydrog	gen Sulfide	e Odor (C	(1)		Saturation Visible on Aerial Imagery (C9)
Drift D	Deposits (B3)		Oxidiz	ed Rhizos	pheres al	ong Liv	ving Roots (C3)	Geomorphic Position (D2)
Algal	Mat or Crust (B4)		Preser	nce of Red	luced Iror	n (C4)	;	Shallow Aquitard (D3)
Iron D	eposits (B5)		Recen	t Iron Red	uction in	Plowed	d Soils (C6)	FAC-Neutral Test (D5)
Surfa	ce Soil Cracks (B6)		Stunte	d or Stres	sed Plant	ts (D1)	(LRR A)	Raised Ant Mounds (D6) (LRR A)
Water	r-Stained Leaves (B9)	Other	(Explain in	Remark	s)		Frost-Heave Hummocks (D7)
Spars	ely Vegetated Conca	ave Surfa	ce (B8)					
Field Obse	ervations:							
Surface Wa	ater Present? Yes	s	No ✓ Dept	h (inches)	c	0		
Water table	e Present? Yes	s	No ✓ Dept	h (inches)	: >10"			
Saturation	Present? Yes	s	No ✓ Dept	h (inches)	: >10"		Wetland Hydrold	ogy Present? Yes No √
(includes c	apillary fringe)							
Describe Rec	corded Data (stream	gauge, n	nonitoring well, ae	erial photo	s, previou	ıs insp	ections), if available	
	no of Engineero						Wester	n Mountaina, Vallova and Coast Varsian 2 (

US Army Corps of Engineers

Project/Site:	Albany - Calapooia	/ Willamette River Co	nfluence (City/County:	Albany, Linr	n County		Sampling Date	: 5/	12/2020
Applicant/Owner:	City of Albany						State: OR	Sampling Point	: <u>SP-20</u>	
Investigator(s):	Greta Presley, Ray	na Gleason, Kate Fore	ester	Secti	on, Township	, Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace, etc.):	gradual slope		Local	relief (concav	/e, convex	, none): <u>convex</u>	Slo	ope (%): <u>2-</u> 5	5
Subregion (LRR):	Columbia Plateau (LRR B)	Lat:			44.63859	Long:	-123.111314	Datum: NA	AD27
Soil Map Unit Nar	ne: <u>Holcomb sil</u>	t Ioam					NWI Classification:	Riverine		
Are climatic / hydr	ologic conditions on	the site typical for this	s time of ye	ar?	Yes 🗸		No	(If no, explain in F	Remarks)	
Are Vegetation	, Soil	, or Hydrology		significantly d	listurbed?	Are "No	ormal Circumstance	s" Present? Ye	s 🖌 No	
Are Vegetation	, Soil	, or Hydrology		naturally prob	lematic?	(If neede	ed, explain any ans	wers in Remarks.)		

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes	No No ✓ No ✓	Is the Sampled Area within a Wetland?	Yes	No <u>√</u>	
Plot located between two footpaths i	n lawn area.					

VEGETATION

	Absolute %	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Use scientific names.)	Cover	Species?	Status?	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	2	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4				Percent of Dominant Species		
	⁼	 Total Cover 		That Are OBL, FACW, or FAC:	100%	_(A/B)
Shrub Stratum				Prevalence Index Worksheet:		
1				Total % Cover of:	Multiply by:	_
2				OBL speciesx1 =	=0	_
3				FACW species x2 :	=0	_
4				FAC species 105 x3 =	= 315	_
5				FACU speciesx4 =	=0	_
	=	 Total Cover 		UPL speciesx5 =	=0	_
Herb Stratum				Column Totals: 105 (A)	315	_(B)
1. <u>P</u> oa annua	100	Yes	FAC	Prevalence Index = B/A =	3.00	_
2. <u>Trifolium repens</u>	5	Yes	FAC			
3				Hydrophytic Vegetation Indicate	ors:	
4				1 - Rapid Test for Hydr	ophytic Vegetation	
5				X 2 - Dominance Test is	>50%	
6				X 3 - Prevalence Index is	≤3.0'	
7				4 - Morphological Adap	otation ^{1,2}	
8				5 - Wetland Non-Vascu	Ilar Plants ¹	
	105_=	 Total Cover 		Problematic Hydrophyt	ic Vegetation ¹ (Expla	in)
Woody Vine Stratum				Indicators of hydric soil and wetla	nd hydrology must	
1				a separate sheet	lata in Remarks or on	
2				Hydrophytic		
		= Total Cover		Vegetation		
0/ Dana Craying dia Ulark Stratyura	6 Cover of Bioti	c Crust	0	Present? Yes	s√ No	

US Army Corps of Engineers

SOIL

Sampling	Point:	SP-20
oumpning	i onit.	01 20

SOIL							Sampling Point: SP-2	0
Profile De	scription: (Describ	e to the depth	needed to	document the inc	dicator o	r confirm the abse	nce of indicators.)	
Depth	Matrix		R	edox Features				
(inches)	Color (moist)	% Co	or (moist)	% Type ¹	Loc ²	_ Texture	Rema	arks
0-11"	10 YR 3/2	90 10Y	R 3/3	10 C	М	sandv loam		
>11"						refusal	cemented gravels an	d sand
				· ·				
				· ·				
¹ Type: C=	Concentration, D=De	pletion, RM=R	educed Ma	trix, CS=Covered c	or Coated	I Sand Grains. ² Loca	ation: PL=Pore Lining, I	M=Matrix.
								. 3
Hydric So	I Indicators: (Appl	cable to all L	Rs, unless	s otherwise noted	-	Indicators for P	Problematic Hydric Sol	ls": - \
Histos	sol (A1)	-	Sandy	Redox (S5)			2 cm Muck (A10) (LRR	B)
Histic	Epipedon (A2)	-	Strippe	ed Matrix (S6)			Red Parent Material (1)	-2)
Black	Histic (A3)	-	Loamy	Mucky Mineral (F	1) (excep	t MLRA 1)	Other (Explain in Remai	rks)
Hyard	ogen Sulfide (A4)	-	Loamy	Gleyed Matrix (F2	2)			
	eted Below Dark Surf	ace (A11)	Deplet	ed Matrix (F3)		3, ,, ,		
	Dark Surface (A12)	-	Redox	Dark Surface (F6)		Indicat	tors of hydrophytic vege	tation and
Sand	y Muck Mineral (S1)	-	Deplet	ed Dark Surface (F	-7)	wetland	nydrology must be prese	ent,
	y gleyed Matrix (54)	-	Redox	Depressions (F8)		uniess	disturbed or problematio).
Restrictive	e Layer (if present):							
Type: cer	mented gravels and s	sand						
Depth (incl	nes):	11			н	lydric Soil Present	? Yes	No 🗸
HYDROLOG	Ϋ́							
Wetland H	lydrology Indicators	s:						
Primary Inc	dicators (any one ind	icator is suffici	ent)			<u></u>	econdary Indicators (2 o	or more required)
Surfa	ce Water (A1)	-	Water-	Stained Leaves (B	9) (exce l	pt MLRA	Water-Stained Leaves (B9) (MLRA 1, 2,
High	Water Table (A2)		1, 2	, 4A and 4B)			4A and 4B)	
Satur	ation (A3)	-	Salt Ci	rust (B11)			Drainage Patterns (B10)
Wate	r Marks (B1)	-	Aquati	c Invertebrates (B1	3)		Dry-Season Water Tabl	e (C2)
Sedin	nent Deposits (B2)	-	Hydrog	gen Sulfide Odor (0	C1)		Saturation Visible on Ae	erial Imagery (C9)
Drift [Deposits (B3)	-	Oxidiz	ed Rhizospheres a	long Livir	ng Roots (C3)	Geomorphic Position (D	2)
Algal	Mat or Crust (B4)	-	Preser	ice of Reduced Iro	n (C4)		Shallow Aquitard (D3)	
Iron L	Deposits (B5)	-	Recen	t Iron Reduction in	Plowed	Solls (C6)	FAC-Neutral Test (D5)	
Surfa	ce Soll Cracks (B6)		Stunte	d or Stressed Plan	ts (D1) (L	.RR A)	Raised Ant Mounds (D6	(LRR A)
	r-Stained Leaves (Be	", <u>,</u>	Other	Explain in Remark	is)		Frost-Heave Hummocks	s (D7)
Spars	sely vegetated Conca	ave Sunace (B	⁸⁾			1		
Field Obse	ervations:							
Surface Wa	ater Present? Ye	s <u>No</u>	✓ Dept	h (inches):	0			
Water table	e Present? Ye	s <u>No</u>	✓ Dept	h (inches): <u>>11"</u>				
Saturation	Present? Ye	sNo	Dept	h (inches): <u>>11"</u>		Wetland Hydrole	ogy Present? Yes	No <u>√</u>
(Includes c	apillary tringe)	asuae monito	ring well as	rial photos previo	us insper	tions) if available		
Describe rec	colded Data (Stream	gauge, monito	ning wen, ac		us inspec			

US Army Corps of Engineers

Project/Site:	Albany - Calapooi	a / Willamette River C	Confluence	City/County: <u>Albany, Li</u>	inn County		Sampling Date	e: 5/12/2020
Applicant/Owner:	City of Albany					State: OR	Sampling Poir	it: <u>SP-21</u>
Investigator(s):	Greta Presley, Ra	yna Gleason, Kate Fo	orester	Section, Townsh	nip, Range:	01DD, 11S, 04W		
Landform (hillslop	e, terrace, etc.):	gradual slope		Local relief (conc	ave, convex	, none): <u>convex</u>	SI	ope (%): <u>2-5</u>
Subregion (LRR):	Columbia Plateau	(LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: NAD27
Soil Map Unit Nar	ne: <u>Holcomb s</u>	silt loam				NWI Classification:	Riverine	
Are climatic / hydr	ologic conditions o	n the site typical for th	his time of ye	ear? Yes	√	No	(If no, explain in	Remarks)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "No	ormal Circumstance	s" Present? Ye	es <mark>√ N</mark> o
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If need	ed, explain any ans	wers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes <mark>√</mark> Yes <u>√</u>	No No No	Is the Sampled Area within a Wetland?	Yes <u>√</u>	No	
Plot located approximately 12' east	of footpath, in	lawn area.				

VEGETATION

	Absolute	Dominant	Indicator	Dominance Test	worksheet:		
Tree Stratum (Use scientific names.)	% Cover	Species?	Status?	Number of Domina	ant Species		
1. <u>Acer rubrum</u>	30	Yes	FAC	That Are OBL, FAU	JW, OF FAC:	2	(A)
2				Total Number of D	ominant		
3				Species Across All	Strata:	2	(B)
4				Percent of Domina	int Species		
	30 =	Total Cove	r	That Are OBL, FAC	CW, or FAC:	100%	(A/B)
Shrub Stratum				Prevalence Index	Worksheet:		
1				Total % Cov	er of:	Multiply by:	
2.				OBL species	x1 =	0	
3				FACW species	x2 =	0	
4				FAC species	110 x3 =	330	
5				FACU species	x4 =	0	
	=	Total Cove	r	UPL species	x5 =	0	
Herb Stratum				Column Totals:	<u>110</u> (A)	330	(B)
1. <u>Poa annua</u>	95	Yes	FAC	Prevalence Ind	ex = B/A =	3.0	
2. <u>Trifolium repens</u>	15	No	FAC				
3				Hydrophytic Vege	etation Indicators	5:	
1				1 - Rap	id Test for Hydrop	hytic Vegetation	
5				X 2 - Dom	ninance Test is >5	60%	
δ				X 3 - Prev	/alence Index is	≤3.0 ¹	
7				4 - Mor	nhological Adapta	tion ^{1,2}	
3.				5 - Wet	land Non-Vascula	r Plants ¹	
		Total Cove	r	Problem	natic Hydrophytic	Vegetation ¹ (Exp	lain)
Manadus Mina Charles and				¹ Indicators of hydri	c soil and wetland	d hydrology must	iani)
woody vine Stratum				be present. ² Provi	ide supporting dat	a in Remarks or o	on
1				a separate sheet			
2				Hydrophytic			
	=	Total Cove	r	Vegetation			
% Bare Ground in Herb Stratum	% Cover of Bioti	c Crust	0	Present?	Yes	√ No	

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SOIL							:	Sampling Point: <u>SP-21</u>
Profile Des	cription: (Describ	e to the o	depth needed to	docume	nt the ind	dicato	r or confirm the abser	nce of indicators.)
Depth	Matrix		Red	lox Feat	ures			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc	² Texture	Remarks
0-11"	10YR 3/1	70	7.5YR 3/4	30	С	М	sandy clay loam	
11-12"	2.5Y 3/1	90	10YR 3/2	10	С	М	sandy clay loam	gravelly
>12"							refusal	
		·						
¹ Type: C=C	Concentration D=De	pletion F	RM=Reduced Mat	ix CS=0	Covered o	or Coat	red Sand Grains ² oca	tion: PI =Pore Lining M=Matrix
1390. 0 0		piedon, i		ix, 00 (. 000		
Hydric Soi	I Indicators: (Appli	icable to	all LRRs, unless	otherwi	ise noted		Indicators for Pro	oblematic Hydric Soils ³ :
Histos	ol (A1)		Sandy F	Redox (S	5)		2	cm Muck (A10) (LRR B)
Histic	Epipedon (A2)		Stripped	Matrix (S6)		R	ed Parent Material (TF2)
Black	Histic (A3)		Loamy N	/lucky M	ineral (F1) (exce	opt MLRA 1) O	ther (Explain in Remarks)
Hydro	gen Sulfide (A4)		Loamy (Gleyed N	latrix (F2)		
Deplei	ted Below Dark Surf	ace (A11) Deplete	d Matrix	(F3)		3	
	Dark Surface (ATZ)		V Redux L		ace (FO)	7)	Indicato	rs of hydrophytic vegetation and
Sandy	v deved Matrix (S4)		Depieter) Dark S	unace (Fa)	()	weuanu ny	sturbed or problematic
Oandy	Lavor (if procent):			opressie	5113 (1 0)			
T	Layer (ii present).							
Type: roci Denth (inch	K (es):		12				Hydric Soil Present?	Yes 🗸 No
Dementer			12				riyune con riesent:	
Remarks.								
HYDROLOGY	Y							
Wetland Hy	ydrology Indicators	6						
Primary Ind	icators (any one ind	icator is s	sufficient)				See	condary Indicators (2 or more required)
Surfac	e Water (A1)		Water-S	tained Lo	eaves (B9	9) (exc	eptMLRA W	ater-Stained Leaves (B9) (MLRA 1, 2,
High V	Vater Table (A2)		1, 2,	4A and 4	4B)			4A and 4B)
Satura	ation (A3)		Salt Cru	st (B11)			D	rainage Patterns (B10)
Water	Marks (B1)		Aquatic	Inverteb	rates (B13	3)	D	ry-Season Water Table (C2)
Sedim	ient Deposits (B2)		Hydroge	en Sulfide	e Odor (C	1)	·	aturation Visible on Aerial Imagery (C9)
	eposits (B3)			I Rnizos	pneres alc		/ing Roots (C3) G	eomorphic Position (D2)
Aigai i	oposite (PE)		Presend	ron Red	uction in F	I (C4) Diowor		AC Neutral Test (D5)
IIUII D	eposits (B5)		Recent	or Street	eed Plante			aised Ant Mounds (D6) (I PP A)
Unac	-Stained Leaves (B9	9)	Other (F	xolain in	Remarks	s (D1) s)	(LIXIX A) [10]	rost-Heave Hummocks (D7)
Sparse	elv Vegetated Conca	-, ave Surfa	ice (B8)			-)		
Field Obse	rvations:		(· · / _					
Surface We	tor Brocont? Vo	<u> </u>		(inchoo)		0		
Water table	Present? Ve	s	No V Depth	(inches)	· >12"	0		
Saturation I	Present? Ye	s	No ✓ Depth	(inches)	: >12"		Wetland Hydrolog	uv Present? Yes ✔ No
(includes ca	apillary fringe)		···· <u>·</u> - · · · ·	(<u> </u>
Describe Rec	orded Data (stream	gauge, n	nonitoring well, ae	rial photo	os, previou	us insp	pections), if available	
				<u>.</u>				

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Project/Site:	Albany - Calapooi	a / Willamette River C	Confluence (City/County: <u>Albany, Lir</u>	n County		Sampling Date	e: <u>5</u>	/12/2020
Applicant/Owner:	City of Albany					State: OR	Sampling Poin	t: <u>SP-22</u>	
Investigator(s):	Greta Presley, Ra	yna Gleason, Kate Fo	orester	Section, Townsh	ip, Range:	01DD, 11S, 04W			
Landform (hillslop	e, terrace, etc.):	gradual slope		Local relief (conca	ave, convex	, none): <u>convex</u>	Slo	ope (%): <u>2-</u>	5
Subregion (LRR):	Columbia Plateau	(LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: N	AD27
Soil Map Unit Nar	ne: <u>Holcomb s</u>	ilt Ioam				NWI Classification:	Riverine		
Are climatic / hydr	ologic conditions o	n the site typical for th	nis time of ye	ear? Yes	/	No	(If no, explain in I	Remarks)	
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "No	ormal Circumstance	s" Present? Ye	es <mark>√</mark> N	o
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If need	ed, explain any ans	wers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes <mark>√</mark> Yes √	No No No	Is the Sampled Area within a Wetland?	Yes <u>√</u>	No
Plot located approximately 10' south	of restroom	s, in lawn area.			

VEGETATION

	Absolute % Cover	Dominant	Indicator Status?	Dominance Test worksheet:
Tree Stratum (Use scientific names.)		opeoles:	51011	That Are OBL FACW or FAC
1. <u>Acer platanoides</u>	30	No*	FACU	1 (A)
2			·	I otal Number of Dominant Species Across All Strata:
3			·	(B)
4		Tatal Cava		Percent of Dominant Species
			I	
Shrub Stratum				Prevalence Index Worksheet:
1. <i>Magnolia</i> sp.	40	No*	NL	Total % Cover of: Multiply by:
2				OBL species x1 =0
3				FACW species x2 =0
4				FAC species 90 x3 = 270
5				FACU species x4 =0
	40 =	 Total Cove 	r	UPL species x5 =0
Herb Stratum				Column Totals: 90 (A) 270 (B)
1. <u>Poa annua</u>	90	Yes	FAC	Prevalence Index = B/A = 3.0
2				
3				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				X 2 - Dominance Test is >50%
6				X 3 - Prevalence Index is $\leq 3.0^1$
7.				4 - Morphological Adaptation ^{1,2}
8.				5 - Wetland Non-Vascular Plants ¹
	90 =	Total Cove	r	Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum				¹ Indicators of hydric soil and wetland hydrology must
woody whe oradam				be present. ² Provide supporting data in Remarks or on
1				a separate sheet
2				Hydrophytic
	=	 Total Cove 	r	Vegetation
% Bare Ground in Herb Stratum 15 9	% Cover of Bioti	c Crust	0	Present? Yes √ No

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SOIL								Sampling Point	: SP-22
Profile De	scription: (Descrit	be to the	depth needed t	o docume	nt the ind	licator	or confirm the abso	ence of indicato	ors.)
Depth	Matrix		R	edox Feat	ures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	L oc ²	Texture		Remarks
0-10"	10YR 3/2	80	10YR 3/6		<u>- 1,pe</u>	M	sandy clay loam		Romano
0.10	10YR 3/1 10 D				<u> </u>	M	<u>bandy oldy loan</u>		
10-12"	10YR 3/1	10YR 3/4	5	<u>c</u>	M	sandy clay	aravels		
>12"	1011(0/1	101110/4		<u> </u>		rock refusal	gravoio		
¹ Type: C=	Concentration, D=D	epletion, I	RM=Reduced M	atrix, CS=0	Covered o	or Coate	ed Sand Grains. ² Loc	ation: PL=Pore	Lining, M=Matrix.
									3
Hydric So	il Indicators: (App	licable to	all LRRs, unle	ss otherw	ise noted		Indicators for P	Problematic Hyd	ric Soils ":
Histos	sol (A1)		Sandy	Redox (S	5)			2 cm Muck (A10)	
Histic	Epipedon (A2)		Stripp	ed Matrix ((S6)			Red Parent Mate	rial (TF2)
Black	Histic (A3)		Loam	y Mucky M	ineral (F1) (excel	pt MLRA 1)	Other (Explain in	Remarks)
Hydro	ogen Sulfide (A4)		Loam	y Gleyed N	Aatrix (F2)			
Deple	eted Below Dark Sur	тасе (A11) Deple	ted Matrix	(F3) face (E0)		3		
	Dark Surface (A12))		CDark Sur	race (F6)		Indicat	ors of hydrophyti	c vegetation and
Sand	y Muck Mineral (S1))	Deple	ted Dark S	Surface (F	()	wetland I	nydrology must b	e present,
Sand	y gleyed Matrix (S4))	Redox	Depressi	ons (F8)		uniess	disturbed or proc	lematic.
Restrictive	e Layer (if present)	:							
Type: roo	xk								
Depth (incl	nes):		12			I	Hydric Soil Present	? Ye	s <u>√ No</u>
HYDROLOG Wetland H	Y Ivdrology Indicator	re							
Primary Inc	dicators (any one in	s dicator is s	sufficient)				S	econdary Indicat	ors (2 or more require
<u>Frinary Inc</u> Surfa	ce Water (A1)		Water	Stained L	eaves (RO		ont MI RA	Water-Stained L	
High	Water Table (A2)		Water	- 3 taineu L 2 4Δ and /	28 (D3 28)			44 and 4B	34V65 (D9) (WILINA 1, 2
Satur	ation (A3)		Salt C	rust (R11)	-D)			Drainage Pattern	us (B10)
Wate	r Marks (B1)		Aquat	ic Inverteb	rates (B13	3)		Drv-Season Wat	er Table (C2)
Sedin	nent Deposits (B2)		Hydro	aen Sulfid	e Odor (C	1)		Saturation Visible	e on Aerial Imagery (C
Drift [Deposits (B3)		✓ Oxidiz	ed Rhizos	pheres alo	., ona Liv	ing Roots (C3)	Geomorphic Pos	ition (D2)
Algal	Mat or Crust (B4)		Prese	nce of Rec	luced Iron	(C4)		Shallow Aquitard	(D3)
Iron E	Deposits (B5)		Recer	nt Iron Red	uction in F	Plowed	Soils (C6)	FAC-Neutral Tes	(= -) st (D5)
Surfa	ce Soil Cracks (B6)		Stunte	ed or Stres	sed Plants	s (D1) (LRR A)	Raised Ant Mour	nds (D6) (LRR A)
Wate	r-Stained Leaves (B	9)	Other	(Explain ir	Remarks	- (_ · / (5)		Frost-Heave Hur	nmocks (D7)
Spars	sely Vegetated Cond	, ave Surfa	ace (B8)			,			
Field Obse	ervations:								
Surface W	ater Present? V	20	No 🗸 Den	th (inches)		0			
Water table	Present? Y		No ✓ Dep	th (inches)	· >12"	0			
Saturation	Present? Ye	es	No ✓ Dep	th (inches)	: >12"		Wetland Hydrold	ogy Present?	Yes ✔ No
(includes c	apillary fringe)		<u> </u>	()					··· <u> </u>
Describe Red	corded Data (stream	n gauge, n	nonitoring well, a	aerial photo	os, previou	us insp	ections), if available		

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Project/Site:	Albany - Calapooia / Willam	ette River Confluence Cit	y/County: <u>Albany</u>	, Linn County		Sampling Date:	5/12/2020
Applicant/Owner:	City of Albany				State: OR	Sampling Point	: <u>SP-23</u>
Investigator(s):	Greta Presley, Rayna Gleas	son, Kate Forester	Section, Tow	nship, Range:	01DD, 11S, 04W		
Landform (hillslop	e, terrace, etc.): gradu	al slope	Local relief (co	oncave, convex	, none): <u>convex</u>	Slo	pe (%): <u>2-5</u>
Subregion (LRR):	Columbia Plateau (LRR B)	Lat:		44.63859	Long:	-123.111314	Datum: NAD27
Soil Map Unit Nar	ne: Holcomb silt loam				NWI Classification:	Riverine	
Are climatic / hydr	ologic conditions on the site	typical for this time of year	? Y	es √	No	(If no, explain in F	Remarks)
Are Vegetation	, Soil, or Hy	/drology si	gnificantly disturbed	I? Are "N	ormal Circumstance	s" Present? Yes	s 🖌 No
Are Vegetation	, Soil, or Hy	/drology na	aturally problematic	? (If need	ed, explain any ans	wers in Remarks.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No ✓ No ✓ No ✓	Is the Sampled Area within a Wetland?	Yes	No <u>√</u>	
Plot located approximately 8' southe	east of Sp-22,	, near footpath.				

VEGETATION

	Absolute % Cover	Dominant Species?	Indicator Status?	Dominance Test	workshee	et:		
<u>I ree Stratum</u> (Use scientific names.) 1. Acer platanoides	90	Yes	FACU	That Are OBL, FA	CW, or FA	AC:	1	(A)
2				Total Number of E Species Across A)ominant Il Strata:	_	3	(B)
4	90 =	Total Cove	r	Percent of Domina That Are OBL, FA	ant Specie CW, or FA	es NC:	33%	(A/B)
Shrub Stratum				Prevalence Index	Workshe	eet:		
1. <u>Magnolia</u> sp.	10	Yes	NL	Total % Cov	er of:		Multiply by:	
2	<u> </u>			OBL species		x1 =	0	_
3				FACW species		x2 =	0	
4	<u> </u>		·	FAC species	95	x3 =	285	_
5		TILO	·	FACU species	90	x4 =	360	_
	10 =	 Total Cove 	r	UPL species	10	x5 =	50	
Herb Stratum	05		FAC	Column Totals:	195	_(A) _	695	(B)
1. Poa annua	95	Yes	FAC	Prevalence Inc	dex = B/A	=	3.56	_
3.				Hydrophytic Veg	etation In	dicators	:	
4.				1 - Rap	oid Test fo	r Hydrop	hytic Vegetation	
5.				2 - Dor	ninance T	est is >50	0%	
6.				3 - Pre	valence In	idex is ≤	3.0 ¹	
7.				4 - Mo	rphologica	l Adaptat	tion ^{1,2}	
8.				5 - We	tland Non-	Vascular	r Plants ¹	
Woody Vine Stratum	95 =	Total Cove	r	Proble ¹ Indicators of hydr be present. ² Prov a separate sheet	matic Hyd ic soil and ide suppo	rophytic \ wetland rting data	Vegetation ¹ (Expl hydrology must a in Remarks or c	ain) n
2% Bare Ground in Herb Stratum 5 %	0 = 6 Cover of Biotic	Total Cove	r 0	Hydrophytic Vegetation Present?		Yes	No 🗸	

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SOII

0	Delint	00.00
Sampling	POINT.	38-23

SOIL							Sampling Point: SP-23	
Profile Des	cription: (Describe	e to the	depth nee	ded to docume	nt the indi	cator o	or confirm the absence of indicators.)	-
Depth	Matrix			Redox Feat	ures			
(inches)	Color (moist)	%	Color (n	noist) %	Type ¹	Loc ²	² Texture Remarks	
0-2"	10 YR 3/2	90	10YR 3/3	10	С	М	sandy clay loam	
2-11"	10YR 3/3	95	10YR 3/1	5	D	М	sandy clay loam	
11-12"	10YR 3/1	95	10YR 3/6	5	С	М	sandy clay loam gravelly	
>12"							gravels	
				·				
1	<u> </u>	<u> </u>					2	
'Type: C=0	Concentration, D=De	pletion, I	RM=Reduc	ced Matrix, CS=C	covered or	Coate	ed Sand Grains. 'Location: PL=Pore Lining, M=Matrix.	
Hydric Soi	Indicators: (Appli	cable to	all LRRs,	unless otherwi	se noted.		Indicators for Problematic Hydric Soils ³ :	
Histos	ol (A1)			Sandy Redox (S	5)		2 cm Muck (A10) (LRR B)	
Histic	Epipedon (A2)			Stripped Matrix	(S6)		Red Parent Material (TF2)	
Black	Histic (A3)			Loamy Mucky M	ineral (F1)) (exce)	opt MLRA 1) Other (Explain in Remarks)	
Hydro	gen Sulfide (A4)			Loamy Gleyed N	/atrix (F2))	. , ,	
Deple	ted Below Dark Surfa	ace (A11)	Depleted Matrix	(F3)	, 		
 Thick	Dark Surface (A12)		/	Redox Dark Sur	face (F6)		³ Indicators of hydrophytic vegetation and	
Sandy	Muck Mineral (S1)			Depleted Dark S	Surface (F7	7)	wetland hydrology must be present,	
Sandy	gleyed Matrix (S4)			Redox Depressi	ons (F8)		unless disturbed or problematic.	
Restrictive	Layer (if present):							
Type: cen	nented gravels and s	and						
Depth (inch	es):	ana	12				Hvdric Soil Present? Yes No 🗸	
Pemarke:	·							
	v							
Wetland H	vdrology Indicators							
Primary Ind	icators (anv one indi	cator is s	sufficient)				Secondary Indicators (2 or more required	0
Surfac	e Water (A1)			Water-Stained L	eaves (B9) (exce	ept MLRA Water-Stained Leaves (B9) (MLRA 1, 2,	<u> </u>
High V	Vater Table (A2)			1, 2, 4A and	4B)) (4A and 4B)	
Satura	ation (A3)			Salt Crust (B11)	,		Drainage Patterns (B10)	
Water	Marks (B1)			Aquatic Inverteb	rates (B13	3)	Dry-Season Water Table (C2)	
Sedim	ent Deposits (B2)			Hydrogen Sulfid	e Odor (C1	1)	Saturation Visible on Aerial Imagery (C9))
Drift D	eposits (B3)			Oxidized Rhizos	pheres alo	ong Liv	ving Roots (C3) Geomorphic Position (D2)	
Algal I	Mat or Crust (B4)			Presence of Red	duced Iron	(C4)	Shallow Aquitard (D3)	
Iron D	eposits (B5)			Recent Iron Rec	luction in F	Plowed	d Soils (C6) FAC-Neutral Test (D5)	
Surfac	e Soil Cracks (B6)			Stunted or Stres	sed Plants	s (D1) ((LRR A) Raised Ant Mounds (D6) (LRR A)	
Water	-Stained Leaves (B9)		Other (Explain in	n Remarks	.)	Frost-Heave Hummocks (D7)	
Spars	ely Vegetated Conca	ve Surfa	ace (B8)	_				
Field Obse	rvations:							
Surface Wa	ter Present? Yes	6	No √	Depth (inches)	:	0		
Water table	Present? Yes		No √	Depth (inches)	: >12"			
Saturation I	Present? Yes	5	No √	Depth (inches	: >12"		Wetland Hydrology Present? Yes No √	
(includes ca	apillary fringe)							
Describe Rec	orded Data (stream g	gauge, n	nonitoring	well, aerial photo	s, previous	s inspe	ections), if available	
L								

US Army Corps of Engineers

Project/Site:	Albany - Calap	ooia / Willamette River C		Sampling Date:	5/12/2020				
Applicant/Owner:	City of Albany			State: OR	Sampling Point	SP-24			
Investigator(s):	Greta Presley,	Rayna Gleason, Kate Fo	01DD, 11S, 04W						
Landform (hillslop	e, terrace, etc.):	gradual slope		Local relief (concave, convex, none): convex			Slope (%): <u>2-5</u>		
Subregion (LRR): Columbia Plateau (LRR B)			Lat:		44.63859	Long:	-123.111314	Datum: NAD27	
Soil Map Unit Nar	ne: <u>Holcom</u>	b silt loam				NWI Classification:	Riverine		
Are climatic / hydr	ologic condition	s on the site typical for th	nis time of ye	ear? Yes	/	No	(If no, explain in R	lemarks)	
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "N	ormal Circumstance	s" Present? Yes	s <u>√</u> No	
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If need	ed, explain any ans	wers in Remarks.)		

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <mark>√</mark> Yes <mark>√</mark> Yes <u>√</u>	No No No	Is the Sampled Area within a Wetland?	Yes <u>√</u>	No
Plot located approximately 15' north	of footpath, in	lawn area.			

VEGETATION

<u>Tree Stratum</u> (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status?	Dominance Test Number of Domina That Are OBL, FAG	workshee ant Specie CW, or FA	e t: es NC:	2	(A)
2 3				Total Number of Dominant Species Across All Strata:		2	(R)	
4		= Total Cove	r	Percent of Domina That Are OBL, FAC	int Specie CW, or FA	s \C:	100%	(A/B)
<u>Shrub Stratum</u> 1				Prevalence Index	Workshe	et:	Multiply by:	
2				OBL species	0. 0		0	
3				FACW species			0	
4.				FAC species	105		315	
5.				FACU species		x4 =	0	
	0	= Total Cove	r	UPL species		x5 =	0	
Herb Stratum				Column Totals:	105	(A)	315	(B)
1. Poa annua	80	Yes	FAC	Prevalence Index = B/A = 3.0				
2. <u>Trifolium repens</u>	25	Yes	FAC					
3				Hydrophytic Vege	etation In	dicators	:	
4				1 - Rap	id Test fo	r Hydrop	hytic Vegetation	
5				X 2 - Dom	ninance T	est is >50	0%	
6				X 3 - Prev	alence In	dex is ≤	3.0 ¹	
7				4 - Mor	nhologica	Adaptat	tion ^{1,2}	
8			·	5 - Wet	land Non-	Vascular	Plants ¹	
Woody Vine Stratum	105	<u>105</u> = Total Cover			Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present ² Provide supporting data in Remarks or on			
1.				a separate sheet				
2		= Total Cove	r	Hydrophytic Vegetation		Vac	(No	
% Bare Ground in Herb Stratum	70 Cover of Blot	ic crust	0	Present?		res_	<u>v</u> NO	

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SOIL							Sampling Point: SP-24
Profile Des	cription: (Describ	e to the	depth needed to	docume	nt the inc	licator	r or confirm the absence of indicators.)
Depth	Matrix		Red	lox Feat	ures		
(inches)	Color (moist)	%	Color (moist) % Type ¹ Loc ² Texture		² Texture Remarks		
0-9"	10YR 3/2	60	10YR 3/4	30	С	М	sandy clay loam
			10YR 3/1	10	D	М	sandy clay loam
9-11"	10YR 3/3	100					gravelly sandy loam
>11"							rock refusal
¹ Type: C=C	Concentration, D=De	epletion, I	RM=Reduced Mat	rix, CS=0	Covered o	or Coat	ted Sand Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soi	Indicators: (Appli	icable to	all LRRs, unless	otherwi	se noted	1	Indicators for Problematic Hydric Soils ³ :
Histos	ol (A1)		Sandy F	Redox (S	5)		2 cm Muck (A10) (LRR B)
Histic	Epipedon (A2)		Stripped	Matrix (S6)		Red Parent Material (TF2)
Black	Histic (A3)		Loamy I	Mucky M	ineral (F1) (exce	ept MLRA 1) Other (Explain in Remarks)
Hydro	gen Sulfide (A4)		Loamy (Jeved N	latrix (F2)	
Deplet	ted Below Dark Surf	ace (A11) Deplete	d Matrix	(F3)	,	
Thick	Dark Surface (A12)		✓ Redox [Dark Surf	ace (F6)		³ Indicators of hydrophytic vegetation and
Sandy	Muck Mineral (S1)		Deplete	d Dark S	urface (Fi	7)	wetland hydrology must be present,
Sandy	gleyed Matrix (S4)		Redox [Depressio	ons (F8)		unless disturbed or problematic.
Restrictive	Layer (if present):						
Type: roc	k						
Depth (inch	es):		11				Hydric Soil Present? Yes √ No
Remarks:							
Wotland H	Y vdrology Indicators						
Primary Ind	licators (any one ind	• icator is «	sufficient)				Secondary Indicators (2 or more required)
<u>1 milary ma</u> Surfac	e Water (A1)		Water-S	tained L	eaves (RC)) (exc	ent MI RA Water-Stained Leaves (B9) (MI RA 1 2
High V	Vater Table (A2)		1. 2.	4A and 4	4B)	, (ene	4A and 4B)
Satura	ation (A3)		Salt Cru	st (B11)	/		Drainage Patterns (B10)
Water	Marks (B1)		Aquatic	Inverteb	rates (B13	3)	Dry-Season Water Table (C2)
Sedim	ent Deposits (B2)		Hydroge	en Sulfide	e Odor (C	1)	Saturation Visible on Aerial Imagery (C9)
Drift D	eposits (B3)		✓ Oxidized	d Rhizos	pheres alo	ong Liv	ving Roots (C3) Geomorphic Position (D2)
Algal I	Mat or Crust (B4)		Presend	e of Red	uced Iron	(C4)	Shallow Aquitard (D3)
Iron D	eposits (B5)		Recent	Iron Red	uction in F	Plowed	d Soils (C6) FAC-Neutral Test (D5)
Surfac	e Soil Cracks (B6)		Stunted	or Stress	sed Plants	s (D1)	(LRR A) Raised Ant Mounds (D6) (LRR A)
Water	-Stained Leaves (B9	9)	Other (E	xplain in	Remarks	5)	Frost-Heave Hummocks (D7)
Sparse	ely Vegetated Conca	ave Surfa	ace (B8)				
Field Obse	rvations:						
Surface Wa	ater Present? Ye	s	No ✓ Depth	(inches)	:	0	
Water table	Present? Ye	s	No 🗸 Depth	(inches)	: >11"		
Saturation I	Present? Ye	s	No 🗸 Depth	(inches)	: >11"		Wetland Hydrology Present? Yes ✓ No
(includes ca	apillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available							

US Army Corps of Engineers

APPENDIX C

Ground Level Photographs



WETLAND DELINEATION REPORT— ALBANY WATERFRONT REDEVELOPMENT: PHOTOGRAPHIC LOG

Photo							
Number	Photo Description						
1	Sample Plot 1 view west, February 12, 2020						
2	Sample Plot 2 view east, February 12, 2020						
3	Sample Plot 3 view northeast, February 12, 2020						
4	Sample Plots 4 and 5 view north, February 12, 2020						
5	Sample Plot 6 view north, February 12, 2020						
6	Sample Plot 7 view north, February 12, 2020						
7	Sample Plot 8 view east, February 12, 2020						
8	Sample Plots 8 and 9 view Southeast, February 12, 2020						
9	Sample Plot 10 view north, February 12, 2020						
10	Sample Plot 11 view north, May 12, 2020						
11	Sample Plot 24 view east, May 12, 2020						
12	Sample Plots 18 and 19 view north, May 12, 2020						
13	Sample Plot 21 view north, May 12, 2020						
14	Sample Plots 16 and 17 view west, May 12, 2020						
15	Calapooia River view north, February 12, 2020						
16	Sample Plot 12 view north, February 12, 2020						
17	Sample Plot 13 view north, February 12, 2020						
18	Sample Plots 14 and 15 view South, February 12, 2020						
19	Wetland D view northwest, February 12, 2020						
20	Willamette River view north, February 12, 2020						
21	Willamette River view east, February 12, 2020						
22	Willamette River view west, February 12, 2020						
23	Willamette River view east, February 12, 2020						



Month Year



















































APPENDIX D

Additional Tables and Information


National Oceanic & Atmospheric Administration

National Environmental Satellite, Data, and Information Service

Current Location: Elev: 228 ft. Lat: 44.6110° N Lon: -123.0853° W Station: ALBANY 0.5 SE, OR US US10RLN0003

Record of Climatological Observations These data are quality controlled and may not

Generated on 05/28/2020

National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801

be identical to the original observations.

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

			Temperature (F) 24 Hrs. Ending at A			Precipitation						ration	Soil Temperature (F)						
			24 Hrs. E Observat	Ending at tion Time	At O	24 Ho	our Amou Observa	unts Ending a tion Time	at	At Obs. Time				4 in. Depth			8 in. Depth		
Y e a r	M o n t h	D a y	Max.	Min.	b se r v a t i o n	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I a g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.	
2019	11	01				0.00		0.0		0.0									
2019	11	02				0.00		0.0		0.0									
2019	11	03				0.00		0.0		0.0									
2019	11	04				0.00		0.0		0.0							L		
2019	11	05				0.00		0.0		0.0									
2019	11	06				0.02		0.0		0.0									
2019	11	07				0.01		0.0		0.0									
2019	11	08				0.00		0.0		0.0									
2019	11	09				0.00		0.0		0.0									
2019	11	10				0.00		0.0		0.0									
2019	11	11				0.00		0.0		0.0									
2019	11	12				0.00		0.0		0.0									
2019	11	13				0.02		0.0		0.0									
2019	11	14				Т		0.0		0.0									
2019	11	15				0.19		0.0		0.0									
2019	11	16				0.01		0.0		0.0									
2019	11	17				0.00		0.0		0.0									
2019	11	18				0.01		0.0		0.0									
2019	11	19				0.25		0.0		0.0									
2019	11	20				0.01		0.0		0.0									
2019	11	21				0.00		0.0		0.0									
2019	11	22				0.00		0.0		0.0									
2019	11	23				0.00		0.0		0.0									
2019	11	24				0.05		0.0		0.0									
2019	11	25				0.30		0.0		0.0									
2019	11	26				0.05		0.0		0.0									
2019	11	27				0.22		0.0		0.0									
2019	11	28				0.00		0.0		0.0									
2019	11	29				0.00		0.0		0.0									
2019	11	30				0.00		0.0		0.0									
		Summary				1.14		0.0											

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

National Oceanic & Atmospheric Administration

National Environmental Satellite, Data, and Information Service

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National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801

be identical to the original observations.

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

			Те	mperature (I	F)			Precipitation			Evaporation Soil Temperature (F)							
	M o n		24 Hrs. E Observa	Ending at tion Time	At O	24 Ho	ur Amo Observa	unts Ending	at	At Obs. Time				4 in. Depth			8 in. Depth	
Y e a r	M o n t h	D a y	Max.	Min.	b se r v a t i o n	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I a g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	12	01				0.18		0.0		0.0								
2019	12	02				0.11		0.0		0.0								
2019	12	03				0.00		0.0		0.0								
2019	12	04				0.00		0.0		0.0								
2019	12	05				0.00		0.0		0.0								
2019	12	06				0.00		0.0		0.0								
2019	12	07				0.44		0.0		0.0								
2019	12	08				0.18		0.0		0.0								
2019	12	09				Т		0.0		0.0								
2019	12	10				0.00		0.0		0.0								
2019	12	11				0.42		0.0		0.0								
2019	12	12				0.20		0.0		0.0								
2019	12	13				0.65		0.0		0.0								
2019	12	14				0.02		0.0		0.0								
2019	12	15				0.00		0.0		0.0								
2019	12	16				0.00		0.0		0.0								
2019	12	17				0.00		0.0		0.0								
2019	12	18				0.00		0.0		0.0								
2019	12	19				0.08		0.0		0.0								
2019	12	20				0.45		0.0		0.0								
2019	12	21				0.48		0.0		0.0								
2019	12	22				0.66		0.0		0.0								
2019	12	23				0.49		0.0		0.0								
2019	12	24				0.00		0.0		0.0								
2019	12	25				0.10		0.0		0.0								
2019	12	26				0.00		0.0		0.0								
2019	12	27				0.06		0.0		0.0								
2019	12	28				0.00		0.0		0.0								
2019	12	29				0.03		0.0		0.0								
2019	12	30				0.16		0.0		0.0								
2019	12	31				0.01		0.0		0.0								
		Summary				4.72		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

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Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

			Те	mperature (I	F)			Precipitation			Evaporation Soil Temperature (F)							
			24 Hrs. E Observa	Ending at tion Time	At O	24 Ho	ur Amo Observa	unts Ending	at	At Obs. Time				4 in. Depth			8 in. Depth	
Y e a r	M o n t h	D a y	Max.	Min.	b se r v a t i o n	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I a g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	01	01				0.32		0.0		0.0								
2020	01	02				0.10		0.0		0.0								
2020	01	03				0.00		0.0		0.0								
2020	01	04				0.47		0.0		0.0								
2020	01	05				0.24		0.0		0.0								
2020	01	06				0.43		0.0		0.0								
2020	01	07				0.07		0.0		0.0								
2020	01	08				0.25		0.0		0.0								
2020	01	09				0.23		0.0		0.0								
2020	01	10				0.04		0.0		0.0								
2020	01	11				0.72		0.0		0.0								
2020	01	12				0.40		0.0		0.0								
2020	01	13				0.43		0.0		0.0								
2020	01	14				0.62		Т		Т								
2020	01	15				0.01		0.0		0.0								
2020	01	16				0.38		0.0		0.0								
2020	01	17				0.10		0.0		0.0								
2020	01	18				0.18		0.0		0.0								
2020	01	19				0.06		0.0		0.0								
2020	01	20				0.00		0.0		0.0								
2020	01	21				0.24		0.0		0.0								
2020	01	22				0.26		0.0		0.0								
2020	01	23				0.04		0.0		0.0								
2020	01	24				0.65		0.0		0.0								
2020	01	25				0.08		0.0		0.0								
2020	01	26				0.38		0.0		0.0								
2020	01	27				0.04		0.0		0.0								
2020	01	28				0.72		0.0		0.0							L	
2020	01	29				0.29		0.0		0.0								
2020	01	30				0.51		0.0		0.0								
2020	01	31				0.02		0.0		0.0								
		Summary				8.28		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

			Temperature (F) 24 Hrs. Ending at At			Precipitation					Evaporation Soil Temperature (F)							
	Mo		24 Hrs. I Observa	Ending at tion Time	At O	24 Ho	our Amo Observa	unts Ending tion Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
Y e a r	M o n t h	D a y	Max.	Min.	b se rv a t i o n	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I a g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	02	01				0.04		0.0		0.0								
2020	02	02				0.07		0.0		0.0								
2020	02	03				0.03		0.0		0.0								
2020	02	04				0.00		0.0		0.0								
2020	02	05				0.01		0.0		0.0								
2020	02	06				0.16		0.0		0.0								
2020	02	07				0.01		0.0		0.0								
2020	02	08				0.20		0.0		0.0								
2020	02	09				0.01		0.0		0.0								
2020	02	10				0.00		0.0		0.0								
2020	02	11				0.00		0.0		0.0								
2020	02	12				0.00		0.0		0.0								
2020	02	13				0.00		0.0		0.0								
2020	02	14				0.07		0.0		0.0								
2020	02	15				0.22		0.0		0.0								
2020	02	16				0.64		0.0		0.0								
2020	02	17				0.00		0.0		0.0								
2020	02	18				0.00		0.0		0.0								
2020	02	19				0.00		0.0		0.0								
2020	02	20				0.00		0.0		0.0								
2020	02	21				0.00		0.0		0.0								
2020	02	22				0.00		0.0		0.0								
2020	02	23				0.08		0.0		0.0								
2020	02	24				0.08		0.0		0.0								
2020	02	25				Т		0.0		0.0								
2020	02	26				Т		0.0		0.0								
2020	02	27				0.00		0.0		0.0								
2020	02	28				0.00		0.0		0.0								
2020	02	29				0.19		0.0		0.0								
		Summary				1.81		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

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			Те	mperature (I	F)			Precipitation	1		Evapo	ration			Soil Temp	erature (F)		
	M o n		24 Hrs. E Observa	Ending at tion Time	At O	24 Ho	our Amou Observa	unts Ending tion Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
Y e a r	M o n t h	D a y	Max.	Min.	D S P V a t i O N	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	03	01				0.46		0.0		0.0								
2020	03	02				0.01		0.0		0.0								
2020	03	03				0.00		0.0		0.0								
2020	03	04				Т		0.0		0.0								
2020	03	05				0.00		0.0		0.0								
2020	03	06				0.00		0.0		0.0								
2020	03	07				0.53		0.0		0.0								
2020	03	08				0.07		0.0		0.0								
2020	03	09				0.00		0.0		0.0								
2020	03	10				0.00		0.0		0.0								
2020	03	11				0.00		0.0		0.0								
2020	03	12				0.00		0.0		0.0								
2020	03	13				0.00		0.0		0.0								
2020	03	14				0.52		Т		Т								
2020	03	15				0.50		0.0		0.0								
2020	03	16				0.04		0.0		0.0								
2020	03	17				0.00		0.0		0.0								
2020	03	18				0.00		0.0		0.0								
2020	03	19				0.00		0.0		0.0								
2020	03	20				0.00		0.0		0.0								
2020	03	21				0.00		0.0		0.0								
2020	03	22				0.00		0.0		0.0								
2020	03	23				0.02		0.0		0.0								
2020	03	24				0.22		0.0		0.0								
2020	03	25				0.30		0.0		0.0								
2020	03	26				0.02		0.0		0.0								
2020	03	27				0.02		0.0		0.0								
2020	03	28				0.20		0.0		0.0								
2020	03	29				0.19		0.0		0.0								
2020	03	30				0.41		0.0		0.0								
2020	03	31				0.64		0.0		0.0								
		Summary				4.15		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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be identical to the original observations.

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

			Те	mperature (F)	Precipitation				Evaporation Soil Temperatur						ature (F)		
			24 Hrs. E Observa	Ending at tion Time	At O	24 Ho	our Amo Observa	unts Ending a tion Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
Y e a r	M o n t h	D a y	Max.	Min.	b serv at i on	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I a g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	04	01				0.06		0.0		0.0								
2020	04	02				0.15		0.0		0.0								
2020	04	03				0.06		0.0		0.0								
2020	04	04				0.05		0.0		0.0								
2020	04	05				0.19		0.0		0.0								
2020	04	06				0.01		0.0		0.0								
2020	04	07				0.00		0.0		0.0								
2020	04	08				0.00		0.0		0.0								
2020	04	09				0.00		0.0		0.0								
2020	04	10				0.00		0.0		0.0								
2020	04	11				0.00		0.0		0.0								
2020	04	12				0.00		0.0		0.0								
2020	04	13				0.00		0.0		0.0								
2020	04	14				0.00		0.0		0.0								
2020	04	15				0.00		0.0		0.0								
2020	04	16				0.00		0.0		0.0								
2020	04	17				0.00		0.0		0.0								
2020	04	18				0.00		0.0		0.0								
2020	04	19				0.23		0.0		0.0								
2020	04	20				0.00		0.0		0.0								
2020	04	21				0.00		0.0		0.0								
2020	04	22				0.25		0.0		0.0								
2020	04	23				0.41		0.0		0.0								
2020	04	24				0.29		0.0		0.0								
2020	04	25				0.08		0.0		0.0								
2020	04	26				0.03		0.0		0.0								
2020	04	27				0.11		0.0		0.0								
2020	04	28				0.02		0.0		0.0								
2020	04	29				0.00		0.0		0.0								
2020	04	30				0.02		0.0		0.0								
		Summary				1.96		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

National Oceanic & Atmospheric Administration

National Environmental Satellite, Data, and Information Service

Current Location: Elev: 228 ft. Lat: 44.6110° N Lon: -123.0853° W Station: ALBANY 0.5 SE, OR US US10RLN0003

Record of Climatological Observations These data are quality controlled and may not

Generated on 05/28/2020

National Centers for Environmental Information 151 Patton Avenue Asheville, North Carolina 28801

be identical to the original observations.

Observation Time Temperature: Unknown Observation Time Precipitation: Unknown

			Te	mperature (F)			Precipitation	1		Evapo	ration			Soil Temp	erature (F)		
	M o n t		24 Hrs. E Observat	Ending at tion Time	At O	24 Ho	our Amou Observa	unts Ending tion Time	at	At Obs. Time				4 in. Depth			8 in. Depth	
Y e a r	M o n t h	D a y	Max.	Min.	b s r v a t i o n	Rain, Melted Snow, Etc. (in)	F I a g	Snow, Ice Pellets, Hail (in)	F I a g	Snow, Ice Pellets, Hail, Ice on Ground (in)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2020	05	01				0.02		0.0		0.0								
2020	05	02				0.24		0.0		0.0								
2020	05	03				0.36		0.0		0.0								
2020	05	04				0.02		0.0		0.0								
2020	05	05				0.01		0.0		0.0								
2020	05	06				0.14		0.0		0.0								
2020	05	07				0.03		0.0		0.0								
2020	05	08				0.00		0.0		0.0								
2020	05	09				0.00		0.0		0.0								
2020	05	10				0.00		0.0		0.0								
2020	05	11				0.01		0.0		0.0								
2020	05	12				0.07		0.0		0.0								
2020	05	13				0.28		0.0		0.0								
2020	05	14				0.21		0.0		0.0								
2020	05	15				0.33		0.0		0.0								
2020	05	16				0.01		0.0		0.0								
2020	05	17				0.25		0.0		0.0								
2020	05	18				0.72		0.0		0.0								
2020	05	19				0.05		0.0		0.0								
2020	05	20				0.26		0.0		0.0								
2020	05	21				0.03		0.0		0.0								
2020	05	22				0.07		0.0		0.0								
2020	05	23				0.05		0.0		0.0								
2020	05	24				0.00		0.0		0.0								
2020	05	25				0.00		0.0		0.0								
2020	05	26																
2020	05	27																
2020	05	28																
2020	05	29																
2020	05	30																
2020	05	31																
		Summary				3.16		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests.

APPENDIX E

References



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February 2021