

Figure 2: Groundwater Flow Paths

(Source: USGS, https://pubs.usgs.gov/circ/circ1139/htdocs/natural_processes_of_ground.htm)

SITE GEOLOGY AND HYDROGEOLOGY

The Site is located on the western edge of the Willamette Basin near the eastern edge of the Chehalem Mountains. Locally, the Site is located within the Chehalem Creek Valley, a broad alluvial drainage that forms an embayment of the Willamette Valley extending north and northwest into the Chehalem Mountains.

The Engineering Geology of the Tualatin Valley Region, Oregon (Schlicker and Deacon 1967) and Groundwater in the Newberg Area, Northern Willamette Valley, Oregon (United State Geological Survey [USGS] 1978) provide detailed descriptions of the geologic units found near the Site. For the purposes of this memorandum geologic units of interest are, from oldest to youngest, summarized as follows:

- Columbia River Basalt Group (CRBG); is the dominant groundwater source in the Newberg area (USGS 1978). The CRBG forms the bedrock of the Chehalem Mountains. The CRBG consists of a series of individual basalt lava flows which range from 40 to 100 feet thick and may locally exceed 200 feet (Oregon Water Resources Department [OWRD] 2002). The CRBG has been deformed through faulting and folding, being uplifted into the Chehalem Mountains and underlying the Willamette Valley, including the Site. Between basalt flows there are zones of breccia, ash, and broken rock called interflow zones which are the main aquifers in the CRBG. The CRBG can produce anywhere from 15 to over 1,000 gallons a minute (gpm) but in recent years declines have been observed as recharge to the deep basalt aquifer is limited (OWRD 2002).
- Helvetia and Troutdale Formations/Basin Fill Sediments; the Helvetia Formation consists of reddish-brown sand, silt and clay. These deposits are often difficult to distinguish from the residual soils derived from weathered CRBG. The Troutdale Formation consists mostly of silt and clay with beds of fine sand and gravel. Aquifers hosted by these strata typically have low yields so production wells are not commonly found in them (OWRD 2002).
- Willamette Silt; is Missoula flood silt deposits. The Willamette Silt is found in the lowlands and flanks of bordering hills up to elevations of about 250 feet above sea level. The Willamette Silt has low



permeability but high porosity and is able to sustain low yield domestic wells (OWRD 2002). The Willamette Silt can store large amounts of groundwater in the winter releasing it in the spring as seeps and shallow groundwater discharge to streams and wetlands. However, because of the low permeability it acts as a confining layer inhibiting movement of groundwater into deeper aquifers (OWRD 2002).

Based on the reports reviewed for this memorandum the primary aquifer underlying the Site is found in CRBG interflow zones and consists of one or more confined interval approximately 100 feet or more below ground surface. These confined zones are separated from the surface by low permeability dense basalt, weathered basalt, basalt altered to clay and Willamette Silt.

OXBERG WELL LOG

It is our understanding that Oxbergs concerns focus on two wells used for water supply to the adjacent property. We were able to only locate one well log in the OWRD well log database. That well log, designated YAMH 2385, is reproduced in Attachment A.

Well YAMH 2385 is reported to have been completed in December 1986. It also is reported to consist of a 12-inch-diameter borehole drilled to 30 feet below ground surface (bgs) and an 8-inch borehole drilled to 200 feet bgs. Eight-inch casing is reported to have been installed from 1 foot above the surface to 162 feet bgs and 6-inch liner with perforations is reported to have been installed from 162 to 200 feet bgs. Per the 2004 Source Water Assessment Report for Oxberg Water System Newberg, Oregon PWS #4105308 (Oregon Department of Human Services and Oregon Department of Environmental Quality [DHS and DEQ]) the cement seal from 0 to 30 feet bgs is adequate and no visible well construction deficiencies were noted.

The 2004 Source Water Assessment indicates that well is drilled and screened in the CRBG (DHS and DEQ), producing from a 15-foot interval in the perforated liner between 162 and 200 feet bgs. Following well completion, the static depth to water was between 21 and 29 feet bgs which is many tens of feet above the water producing interval, suggesting the well is open to a confined aquifer in the CRBG, and not shallow unconfined water near the ground surface.

WELLS NEAR-BY

In addition to reviewing information about the Oxberg well we also reviewed information about other water wells near the Site. OWRD's online well database shows at least 64 water wells within $\frac{3}{4}$ quarters of a mile of the Site. Of these, 25 are less than 150 feet deep and 39 are more than 150 feet deep. Well construction, depth, water levels and pumping capacity reported for these wells is provided in Table 1 and summarized in Table 2. There are likely other wells in close proximity that are not identified during this OWRD search.



TABLE 2: SUMMARY OF NEAR-BY WELL DETAILS

	Wells <150 Feet Deep	Wells >150 Feet Deep
Number of wells	25	39
Average Constructed Depth	110.8	212.1
Average Depth of First Water (feet)	76.5	137.5
Post Drilling Static Water Level (feet)	31.7	56.9

Information source: https://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

We interpret the information shown on these well logs, and listed on Tables 1 and 2, to indicate that most of the area wells (including the Oxberg well) are in the CRBG, that these CRBG wells display evidence of confined conditions (final water levels are higher than the producing intervals), and there may be multiple groundwater producing intervals in the CRBG, one approximately 70 to 100 feet bgs and the other greater than approximately 125 feet bgs. Based on that interpretation Oxberg well likely is completed in, and producing water from, a deeper confined CRBG aquifer underlying the Site area.

SITE-SPECIFIC INFILTRATION RATES

GeoEngineers conducted infiltration testing to assist in evaluating the Site for stormwater infiltration design. Testing was conducted using the encased falling head and open pit infiltration testing procedures as described in the *Crestview Crossing Development Geotechnical Engineering Report* (May 12, 2018). Field measured infiltration results were 0.0 inches/hour for the encased falling head and 0.1 inches/hour for the open pit tests. Based on the fine-grained soil conditions and very low to negligible measured infiltration rates, infiltration of stormwater was not recommended to be used as the sole method of stormwater management at this site. Given these tests, we interpret that there is limited, to essentially no capacity for surface water to percolate into the ground and through the subsurface into the underlying confined CRBG aquifers.

These infiltration rates along with the ephemeral nature of the wetlands inform the surface water and groundwater connection at site; indicating that there is almost no connection and that surface water is not contributing to the deep aquifer in which the Oxberg well is pumping from.

SOURCE WATER ASSESSMENT

In addition to aquifer recharge potential we also address the potential for the proposed development to contaminate the groundwater being pumped by the Oxberg well. The Crestview Crossing project proposed drinking and fire protection water system will be supplied from Newberg's municipal water system, so there is no additional stress on the Oxberg wells. The 2004 Source Water Assessment (DHS and DEQ) found:



- 1. The Oxberg well and aquifer are not considered highly sensitive to contamination based on well construction and the sensitivity analysis. This relates to directly around the well head and well house. Construction for the proposed development is located over 550 feet and downhill from the Oxberg well, and no deep subsurface work is proposed, so there is no potential for contamination at the well head during development. The second well, whose log was not available is understood to be on the northside of the lake, opposite of the proposed development.
- 2. Residential land use including apartments and condominiums was determined to be a low risk during the aquifer susceptibility analysis for potential contaminant sources inside the drinking water protection area.

The development of Crestview Crossing poses a low risk for potential source water contamination to the Oxberg well as no deep subsurface work is proposed and the Oxberg well is located in a confined aquifer. Drinking water will be supplied by the Newberg municipality so no new wells are planned.

CONCLUSIONS

Based on the hydrogeologic information reviewed for the Site and adjacent property where the Oxberg well is located, we conclude that there is little to no potential for the Crestview development to:

- 1. Impair groundwater recharge to the nearby Oxberg wells.
- 2. Effect groundwater quality in the Oxberg wells.

Both of these conclusions are based on the following observations:

- The Oxberg wells are in a confined aquifer that has limited to no hydraulic connection to the Site.
- In the unlikely event that there was a hydraulic connection between the confined aquifer the Oxberg wells pump water from, measured surface infiltration (recharge) rates are extremely low to non-existent, indicating little or no local recharge to the underlying confined aquifer.

If you have any questions, please do not hesitate to contact me at your convenience.

REFERENCES

DHS and DEQ. 2004. Oregon Department of Human Services Health Services Drinking Water Program and Oregon Department of Environmental Quality Water Quality Division Drinking Water Protection. Source Water Assessment Report Summary of Analysis Oxberg Water System Newberg, Oregon Yamhill County PWS #4105308. April.

OWRD. 2002. "Ground Water Supplies in the Willamette Basin." Oregon Water Resource Department.

Schlicker, H.G. and R.J. Deacon. 1967. "Engineering Geology of the Tualatin Valley Region, Oregon." Oregon Department of Geology and Mineral Industries, Bulletin 60, p. 103, 4 plates, 1:62,500 scale.



USGS. 1978. "Groundwater in the Newberg Area, Northern Willamette Valley, Oregon." Water Resource Department Ground Water Report No. 27. State of Oregon. Prepared in cooperation with the United State Department of the Interior Geological Survey.

Sincerely,

GeoEngineers, Inc.

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Principal

ASC:LAH:JST:JCV:KAL:tjh

Attachments:

Table 1. Nearby Wells

Figure 1. Proximity Map of Crestview Crossing Site to Oxberg Well

Attachment A. Well Log YAMH 2385

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.



Table 1

Nearby Wells Crestview Crossing Newberg, Oregon

County	Well Number	Well Tag Number	Owner Last Name	Owner First Name	Company Name	Street	City	Zip	Depth of First Water (feet)	Depth Drilled (feet)	Completed Depth (feet)	Post Static Water Level (feet)	Date Drilling Complete	Township	Range	Section	Quarter 160	Quarter 40	Tax Lot	Street of Well	Max Well Yield (gpm)
Wells Drille	d Less than 1	L50 Feet																			
YAMH	2386		DAVIS	WOODROW		PO BOX 96	NEWBERG	97132		75	75	10	9/26/1958	3\$	2W	16	NE				18
YAMH	2400		ROGERS	MR WALTER		2906 HOOVER BLVD	NEWBERG	97132		80	80	5	2/14/1961	38	2W	16	SW	SW		SPRING BROOK JUNCTION & HWY 99 W SOUTH SIDE OF ROAD	7
YAMH	2399		MEEKER	FRANK		RT 2 BOX 100	NEWBERG	97132		81	81	18	12/22/1966	3S	2W	16					7
YAMH	3866	479			MOUNTAIN CONSTRUCTION	16260 SW BELL RD	SHERWOOD	97140	78	81	81	5	4/11/1995	3\$	2W	9	SE	NE	201	29935 NE BENJAMIN RD, NEWBERG	G 20
YAMH	2224		FELTY	RICHARD		RT 1 BOX 312B	NEWBERG		50	88	89	8	7/28/1982	3\$	2W	9	SE	SW			75
YAMH	2273		ROWLAND	JERRY			NEWBERG		50	95	95	30	2/16/1957	3\$	2W	9	SW	NW		RT 2 BOX 90	19
YAMH	51		ORTIZ	MR ROBERTO	ORTIZ, MRS ROBERTO	314 S EDWARDS	NEWBERG	97132	90	97	97	72	6/5/1990	3S	2W	9	SE	NW		DAVID COURT	50
YAMH	55625	100246	WEGTER	KEN		3872 CAMISHAUM COURT	SALEM	97305	40	99	99	26	3/24/2010	3S	2W	9	SE	SW	2800	29366 PUTNAM RD, NEWBERG	1
YAMH	56262	108231	MILLS	NANCY		14615 SPRINGBROOK RD	NEWBERG	97132	62	100	98	12	5/7/2012	3S	2W	9	SW	NE	1901	14615 SPRINGBROOK RD	21
YAMH	2395		MACDONALD	MRS J C		RT 2 BOX 331	NEWBERG	97132	87	100	100	90	5/5/1973	3S	2W	16	NW	SW			11
YAMH	2256		LOOKABILL	LYLE		ROUTE 2 BOX 32	NEWBERG	97132	79	104	102	56	5/18/1979	3S	2W	9	SE	SW			20
YAMH	2397		GLEASON	ELBERT	TOUNG AND	RT 2 BOX 326	NEWBERG	97132	35	105	105	26	6/21/1972	3S	2W	16					22
YAMH	2271				PAWELSKI HOMES				60	107	108	30	9/22/1976	3\$	2W	9	SE	NW			32
YAMH	298		BURGUSS	JOE		PO BOX 506	TUALATIN	97062	65	115	115	25	5/13/1976	3S	2W	16	NE				15
YAMH	4280		BURGUSS	JOE		PO BOX 506	TUALATIN	97062	80	115	115	35	1/13/1976	3S	2W	16		NE			12
YAMH	2213		WOOD	BILL	WOOD, CATHY	1506 N COLLEGE	NEWBERG	97132	75	118	111	30	9/21/1989	3S	2W	9	SE	SE			60
YAMH	2390		BURGUSS	JOE		PO BOX 506	TUALATIN	97062	90	122	122	34	3/6/1976	3S	2W	16	NE				15
YAMH	748		BENTLEY JR	MR JAMES E	BENTLEY JR, MRS JAMES E	PO BOX 856	NEWBERG	97132	85	125	125	15	6/17/1991	3S	2W	9	SE	NW		DAVID LANE & SPRINGBACK RD (INTERSECTION)	23
YAMH	1692		COCHRAN	MR MICHAEL J	COCHRAN, MRS MICHAEL J	35101 SW LADD HILL RD	WILSONVILLE	97070		125	125	32	4/3/1992	38	2W	9	SE	NW		14630 NE SPRINGBROOK NEWBURG (NEXT DRIVEWAY NORTH	15
YAMH	2272		LUCIANE	JOHN B		ROUTE 2 BOX 320	NEWBERG	97132	124	126	126	22	6/11/1973	3S	2W	9	SE	NW			10
YAMH	52152	26714	ALEXANDER	DON		1282 3RD ST 56	LAFAYETTE	97127	130	137	137	19	5/4/2000	38	2W	16	SE	NE	1100	1217 KLIMEK DR, NEWBERG	25
YAMH	113		CARTER	MR JOHN	CARTER, MRS KELLI	10035 SW GARRETT #6	TIGARD	97223	68	143	143	32	9/13/1990	3S	2W	9	SE	NW		OFF SPRINGBROOK RD (1ST DIRT RD ON R, PAST BENJAMIN RD)	26
YAMH	2393		FORTUNE, JR	JOHN J		RT 2 BOX 321 C	NEWBERG	97132	105	145	145	65	2/27/1975	3\$	2W	16	NE	NE			9
YAMH	2398		WAGNER	ED		RT 3 BOX 143	NEWBERG	97132		148	148	38	9/11/1965	38	2W	16					10
YAMH	2383		DOANE	GARY		455 SE 32ND	HILLSBORO	97123		149	149	58	9/17/1949	3S	2W	16					18
Wells Drille	d Greater tha	n 100 Feet										•			_	r			T		
YAMH	2396				LEAVITE AND WIDING	2712 NE SANDY	PORTLAND		63	150	150	61	12/17/1970	3S	2W	16					17
YAMH	2236		HUMPRES	JIM		3965 SW 202ND	ALOHA	97007	60	151	152	47	6/12/1975	3\$	2W	9	SE				50
YAMH	299		BIXBY	ETHEL			NEWBERG	97132	87	152	152	35	5/5/1973	38	2W	16					14
YAMH	2387		DAVIS	WOODROW W		ROUTE 2 BOX 96	NEWBERG	97132	400	155	155	22	8/28/1958	38	2W	16	NE	0			5
YAMH	278	0070	MILLER	TOM	CAMPLE MED VIO	1478 N SHERWOOD BLVD	SHERWOOD	97140	120	155	155	60	1/12/1987	38	2W	9	SE	SW		0.5 MI N ON BENJAMIN RD OFF HWY	20 Y
YAMH	3901	2379	GAMBLE	MR VIC	GAMBLE, MRS VIC	10260 SW NIMBUS BLDG M1	TIGARD	97223	140	160	152	28	6/2/1995	38	2W	9	SW	SE	2100	99W	100
YAMH	2269		STEELE	JAMES O	B & H	RT 2 BOX 312 A2	NEWBERG	97132	126	160	160	85	5/31/1978	3S	2W	9	SE	SW	3100		15
YAMH	2268				CONSTRUCTION	222 NW 139TH ST	PORTLAND		156	162	162	90	11/14/1974	3\$	2W	9	SE	NW			40
YAMH	2216	ļ	WAGNER	KARL		2301 JODI COURT	NEWBERG	97132	68	163	163	17	5/11/1987	3S	2W	9	SE	SE		29705 PUTNAM RD, NEWBERG	25
YAMH	767	I	WAGNER	MARY JANE		29705 PUTMAN RD NE	NEWBERG	97132	118	168	168	34	6/29/1991	38	2W	9	SE	SE	3305	29705 PUTMAN RD NE	20



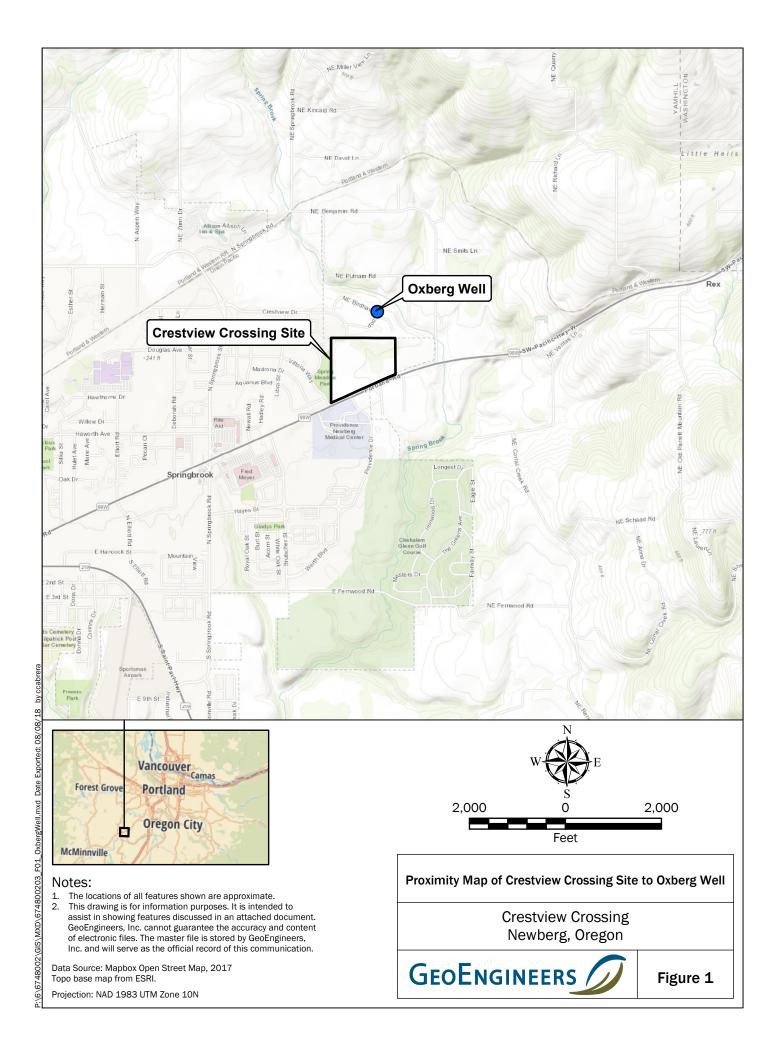
County	Well Number	Well Tag Number	Owner Last Name	Owner First Name	Company Name	Street	City	Zip	Depth of First Water (feet)	Depth Drilled (feet)	Completed Depth (feet)	Post Static Water Level (feet)	Date Drilling Complete	Township	Range	Section	Quarter 160	Quarter 40	Tax Lot	Street of Well	Max Well Yield (gpm)
YAMH	50354	8785	PECK	THOMAS		16050 PIT RD	HILLSBORO	97123	138	168		61	9/24/1996	38	2W	9	SE	SE	4100	JUST EAST OF 29730 BENJAMIN RD. NEWBERG	120
YAMH	2389		SPANGLER	WILLIAM					92	170	170	62	1/20/1978	3\$	2W	16	NW	SW			10
YAMH	2394		RETRY	ROBERT		312 N EDWARDS	NEWBERG	97132	103	170	170	50	4/8/1975	3S	2W	16					2
YAMH	3268		HOST	MR GARY A	HOST, MRS GARY A	8605 SW MANDAN DR	TUALATIN	97062	140	172	170	1	11/3/1994	38	2W	9	SW	SE			100
YAMH	2211		BROWN	GLENN		29730 BENJAMIN RD	NEWBERG	97132	164	174	174	64	12/19/1989	3\$	2W	9	SE	SE		29730 BENJAMIN RD	26
YAMH	2215		JOHNSON	EVERT	JOHNSON, ESTHER	29955 NE BENJAMIN RD	NEWBERG	97132	140	175	175	22	5/17/1989	38	2W	9	SE	NE		29955 NE BENJAMIN RD	24
YAMH	50181	3228	DOBBINS	DAVE		29830 NE BENJAMIN	NEWBERG	97132	155	180	180	44	6/29/1996	3\$	2W	9	SE	SE	3209	29830 NE BENJAMIN	100
YAMH	52308	37663	LOUIS	RON		739 CROSSBROOK DR	MORGEA	94556	115	183	183	115	8/10/2000	3\$	2W	9	SW	NW	1800	3220 ZIMRI DR, NEWBERG	50
YAMH	54510	85530	NEWTON	FRED		30875 SW HEATER RD	SHERWOOD	97140	103	183	176	33	6/22/2006	3S	2W	9	SE	SE	3303	29815 SE PUTMAN, NEWBERG	90
YAMH	2219		SMITH	ROBERT D		RT 1 BOX 49	NEWBERG	97132	85	185	185	35	10/12/1982	3\$	2W	9	SE		3900	RT 4 BOX 313 C; CO RD 54	50
YAMH	279		LUU	NGUAN		503 SE 47TH	PORTLAND	97215	140	195	196	66	11/3/1981	3\$	2W	9	SE	SW		RT 2, NEWBERG	20
YAMH	2385				OXBERG INC.	PO BOX 467	NEWBERG	97132		200	200	29	12/11/1986	3\$	2W	16				4100 E CRESTVIEW NEWBERG	45
YAMH	3169		DAMNAN	MR GARY	DAMNAN, MRS GARY	7750 SW 171ST	ALOHA	97223	145	200	200	52	8/4/1994	3\$	2W	16	NE	NE			25
YAMH	2270		STEELE	JAMES O		607 N COLLEGE	NEWBERG	97132	183	203	204	51	7/12/1974	3S	2W	9	SE				30
YAMH	2391		RUBENS	CHRIS		118 W LEXINGTON	ASTORIA	97103	140	205	205	20	5/3/1977	3S	2W	16					30
YAMH	50344	8784	WISE	GEORGE	WISE, JAMIE	12287 SW LANSDOWNE LANE	TIGARD	97223	135	207	207	99	9/20/1996	3S	2W	9	SW	NE	1900	SPRINGBROOK RD	100
YAMH	3894	100001	JACOBSEN	MRS JAN	PROVIDENCE	4300 E PORTLAND RD	NEWBERG	97132	170	215	215	28	5/31/1995	3\$	2W	16	SE	NW	4000	1001 PROVIDENCE DR; 150 YDS ON	30
YAMH	56487	106624			HEALTH SYSTEM	1001 PROVIDENCE DR	NEWBERG	97132		216	216	19	3/8/2013	3\$	2W	16			1902	L	50
YAMH	50746	13498	ATZEN	NAN	ATZEN, TERRY	29365 NE PUTNAM RD	NEWBERG	97132	85	217	217	58	8/13/1997	3S	2W	9	SE	SW	3101	29365 NE PUTNAM RD	5
YAMH	2388		ROLOW	MR MIKE	ROLOW, MRS MIKE	RT 4 BOX 333C	NEWBERG		97	222	222	12	7/15/1985	3\$	2W	16	SE	NW	100	RT 4 BOX 333C	28
YAMH	52800	51231	LYDA	JOHN		900 NE CHEHALEM DR	NEWBERG	97132	180	260	260	7	10/16/2001	3S	2W	16	SE	NE	900	1100 KLIMEK LANE	12
YAMH	2392		PETRY	ROBERT		312 N EDWARDS	NEWBERG	97132	270	290	290	50	4/14/1975	3S	2W	16					11
YAMH	138		COFFIELD	BILL		3104 ZIMIRI DRIVE	NEWBERG	97132		290	290	158	9/18/1990	3S	2W	9	SE	NW			2
YAMH	280		STIVERSON	JIM		RT 2 BOX 302C	NEWBERG	97132	274	290	290	160	11/16/1978	3S	2W	9	SE	NW			17
YAMH	55624	100245	MILLS	GLEN		15125 NE SPRINGBROOK LANE	NEWBERG	97132	138	300	300	102	3/22/2010	3\$	2W	9	SE	SW	1604	NEAR 15125 NE SPRINGBROOK LANE	75
YAMH	362		BURGUSS	JOE		PO BOX 506	TUALATIN	97062	225	315	315	29	2/2/1976	3S	2W	16	NE				2
YAMH	281		MCKAY	GEORGE		RT 2 BOX 307	NEWBERG	97132	291	324	317	160	8/22/1984	3S	2W	9	SE				110
YAMH	900		PETRY	вов		29465 NE PUTNAM RD	NEWBERG	97132	106	338	338	80	11/14/1991	3\$	2W	9	SE	SE		29465 NE PUTNAM RD	7
YAMH	52306	37664	LOUIS	RON		739 CROSSBROOK DR	MORGEA	94556	62	424	424	75	8/11/2000	3S	2W	9	SW	NW	1800	3104 ZIMRI DR, NEWBERG	5

Notes:

Bold - Oxberg Well YAMH 2385

Source: Oregon Water Resource Well Log Query (https://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx)





ATTACHMENT A Well Log YAMH 2385

WELL#2

12/24 -16

DINIT CODE CHETOMER

FER WELL REPORT as required by ORS 537.765)

LH C 26 1986.

OXBERG INC. OSEGON	(9) LOCATION OF WELL by legal description:	78
Address P.O. Box 467	Township 35 Nor S, Range 2 W For W, V	
City NEWBERG State ORG Zip 97132	Section 16 4 4	
(2) TYPE OF WORK:	Tex Lot Block Subdivision	
New Well Deepen Recondition Abandon	Street Address of Well (or negrest address) 4100 F.	<u>~</u>
(3) DRILL METHOD	CRESTUIEN NEWBERG OREG	040
Rotary Air Rotary Mud Cable	(10) STATIC WATER LEVEL:	1
Other	ft, below land surface. Date 12/11	186
(4) PROPOSED USE:	Artesian pressure Ib. per square inch. Date	
Domestic Community Industrial Irrigation	(11) WATER BEARING ZONES:	
Thermal Injection Other	Depth at which water was first found	
Special Construction approval Yes No Depth of Completed Well 200 ft.	From To Estimated Flow Rate	SWL
Special Construction approval Yes No Depth of Completed Well 200 ft.		29
Explosives used Type Amount		1.
HOLE SEAL Amount		
Ameter From To Material From To sacks or pounds 12 0 139 CEMENT 0 30 20		
8 139 200 30 20	(12) WELL LOG: Ground elevation	
0 101 100	Material From To	SWL
	TOP SOIL 0 2	
How was seal placed: Method	BROWN CLAY 2 25	
☐ Other	SOFT DECOMPOSED	
Backfill placed from ft. to 120 ft. Material	BROWN ROCK WITH	00
Gravel placed from 30 ft. to 139 ft. Size of gravel 3/4 To /4	CLAY STREAKS 25 152	27
(6) CASING/LINER:	SOFT BROWN ROCK 152 172 BROWN CLAY 172 178	29
Casing: B +1 162 250 Steel Plastic Welded Threaded	0 1 1 2	20
Casing: 0 17 182 230 19 0 0	SOFT BROWN ROCK 170 200	21
Liner: 6 160 200 48 0 0		
al location of shoe(s)		
(7) PERFORATIONS/SCREENS:		
Perforations Method MILLS KNIFE		
Screens Type Material		
Slot Tele/pipe		
s rom To size Number Diameter size Casing Liner 50 162 475 4" \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
62 200 160 1/4"		
	13/11/01	
	Date started 11 26/86 Completed	
	(unbonded) Water Well Constructor Certification:	e.
(8) WELL TESTS: Minimum testing time is 1 hour Flowing	I certify that the work I performed on the construction, alterat abandonment of this well is in compliance with Oregon well constr	ion, c
Pump Aler Air Artesian	standards. Materials used and information reported above are true to n	ny bes
Yield gal/min Drawdown Drill stem at Time	knowledge and belief. WWC Number	
1 hr.	7	
45 50 1		
	(bonded) Water Well Constructor Certification:	ınmer
Temperature of water Depth Artesian Flow Found	I accept responsibility for the construction, alteration, or abando work performed on this well during the construction dates reported about	ove. a
Was a water analysis done?	work performed during this time is in compliance with Orego	n we
Did any strata contain water not suitable for intended use? Too little	construction standards. This report is true to the best of my knowled belief. WWC Number	62
Salty Muddy Odor Colored Other	12/24	86
Depth of strata:	Signed Date	



Crestview Crossing Homeowners Association

Reserve Study 2020

Prepared by
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Property Description

Crestview Crossing Homeowners Association (herein referred to as the "community") is a single family residential development located in Newberg, Yamhill County, Oregon. The Crestview Crossing Homeowners Association (herein referred to as the "Association") shall provide repair, replacement and maintenance on all property designated as common area by the adopted community plat, recorded in Yamhill County, Oregon.

This reserve study utilizes a mix of information provided by the developer, various construction estimating and scheduling manuals/programs, and information from the **Crestview Crossing Homeowners Association** board in order to derive the useful life and replacement cost of each common item.

Funds will be accumulated in the reserve account as required by Oregon State Law based on estimates of future need for repairs and replacement of common property components. Actual expenditures, income and provisions for income taxes may vary from estimated amounts and the variations may be significant and material. Therefore, amounts accumulated in the replacement fund may not be adequate to meet future funding expectations. Please update your reserve study on an annual basis in order to maintain the best possible estimates.

If additional funds are needed for any repair, replacement or maintenance to common area properties, the Association has the right to increase regular assessments or to levy special assessments or delay repairs or replacement until funds become available.

Reserve Study & Maintenance Plan Information Section

Blue Mountain Community Management was selected by the **Crestview Crossing Homeowners Association** to conduct a Reserve Study for implementation beginning January 1, 2020. The enclosed Reserve Study and Maintenance Plan were developed in accordance with guidelines established by the Community Associations Institute and are in compliance with Oregon State Law including changes made during the 2007 legislative session to ORS Revised State Statutes, Chapters 94 and 100.

Assumptions used for inflation, interest, and other factors are detailed in the *Reserve Study Summary*. All assumptions made herein are based upon information provided by the developer and an onsite inspection of those details. This Reserve Study offers no warranties or guarantees based upon those assumptions and observations and provides an annual baseline for funding and maintaining common elements throughout the community.

All information regarding the useful lives and costs of reserve components were derived by Blue Mountain Community Management and various construction pricing and scheduling manuals.

The terms RS Means and National Construction Estimator refer to construction industry estimating databases that are used throughout the industry to establish cost estimates and useful life estimates for common building components and products. In any case, when work is to be performed, the association should obtain firm bids for these services.

Blue Mountain Community Management is not aware of any material issues that if not disclosed would cause distortion of this report.

Certain information such as the beginning balance of reserve funds and other information as detailed on the component reports were provided by Association representatives and are deemed to be reliable by Blue Mountain Community Management. This Reserve Study is a reflection of the information provided to Blue Mountain Community Management and cannot be used for the purpose of performing an audit, quality analysis, or background check for historical records. Onsite inspections are not to be considered a project audit or quality inspection of Association property.

The two most pressing responsibilities for a homeowner association board are the annual preparation of a budget and the maintenance of a reserve fund for community components identified as "common" to all members of the association. The annual operating budget reflects the association's annual commitment to quality and service, while the reserve budget reflects the association's desire to maintain the community for a 30-year period at a level acceptable to all members of the association.

Reserve studies, while an important guiding document for the long-term health of the community, must be maintained on an annual basis in order to continue to reflect an association's desire to remain at a particular level of maintenance and replacement. Blue Mountain Community Management suggests remembering the following:

- 1. Update your Reserve Study on an annual basis. Hire a professional to refresh your Reserve Study annually and make this commitment by including a line item in your annual budget for doing so. A Reserve Study is a "snapshot in time" and its assumptions, factors and results will become skewed without annual maintenance.
- 2. Reserve studies are not perfect. While a paved section of road may have a useful life of 24 years, it doesn't necessarily mean it will be replaced in 24 years. Sometimes asphalt doesn't adhere perfectly, or the contractor makes a mistake and the road needs to be replaced in 15 years. Occasionally, the road looks just fine in 24 years and does not need replacement. Remember, an estimate is based on the best knowledge available at the time of the study.
- 3. This Reserve Study and its parameters are based upon information provided by the declarant, the association members, board of directors and a host of contractors, vendors and construction estimation programs. It represents an amalgamation of the best information available and relies on the information provided by several outside sources.
- 4. It is assumed that all assets have been designed and constructed properly unless otherwise noted.
- 5. This Reserve Study is provided as an aid for planning purposes and not as an accounting tool. It describes events and occurrences that have not yet occurred and there is no assurance that the results outlined in the Reserve Study will occur as described.

Funding Methods

Reserve studies are a complicated mix of assumptions and estimates used to approximate the cost of renewal/replacement of capital and non-capital assets associated with a given community's common elements. The Reserve Study User's Guide has been developed to assist homeowners, board members and declarants better understand the Reserve Study and maintenance plan they purchased.

A Reserve Study is best described as an assessment of current assets, their approximate value and their future value at the time of replacement. A Reserve Study is typically requested by the developer of a specific parcel of land that has been subdivided for condominiums or residential units for the purpose of determining the initial value of common elements like privately owned parks, pathways, clubhouses etc. In some states, reserve studies and maintenance plans have become a legal requirement in order to develop a new community.

A Reserve Study has two primary functions:

- 1. Establish the initial funding goals for the association as they relate to common elements and
- 2. Select an appropriate funding plan for those goals.

The basis for funding of reserves is to distribute the cost of the replacement over the useful life of a particular component. The ideal level of reserves is proportionate to the expected life of a component and those costs. Therefore, if a particular component has a useful life of 20 years, the expectation would be that the individual reserve for that item is spread equally over 20 years:

(Age/Useful Life) x Current Replacement Cost = Full Funding of Reserves

Each year would equal 1/20th of the useful life and the reserve should include 1/20th of the value of the component over a 20-year period. If the fund meets this standard, then it is referred to as "fully funded."

Do not confuse "fully funded" with the concept that every Reserve Study has a 100% funding for all components at one time. A proper Reserve Study provides 100% funding based on expected life. If a given component fails or needs maintenance prior to its expected life cycle, the fund may become depleted or may incur a negative balance. Every Reserve Study is a "snapshot in time" based on accepted industry standards for life expectancy and costs.

There are four generally accepted funding plans from which most associations select:

- 1. "Minimum Funding Method (Threshold)". This funding method focuses on keeping the reserve fund's cash balance above zero. This means that while each component may not be fully funded, the cash balance overall does not drop below zero during the projected period. A large percentage of association's use this model because of its relative lower cost and simplicity, however an association must remember that if an item prematurely expires prior to its useful life calculation, a deficit may occur in the reserve cash balance.
- 2. "Capped Minimum Funding Method (Threshold +)". The same as the Minimum Funding model concept, however the fund balance never reaches below an arbitrarily set reserve cash balance. Instead of starting the fund with \$0, an association or developer compels the prospective homeowner to contribute an amount at time of closing in order to ensure a cushion in the reserve balance. This method is typically used by Condominium Associations who need to give rise to a large amount of money early on in order to ensure proper capital maintenance and replacement of elements.
- 3. "Current Assessment Funding Method". Based on a cash flow funding model like the two previous methods, this model takes the current funding level of the reserve account and assumes that the amount will not change. The funding level is then projected over 30 years in order to illustrate the adequacy of current funding. This method is more regularly examined with long established associations with members who are sensitive to increased monthly dues.
- 4. "Component Funding Method". The simplest and most conservative method. It distributes cash reserves to individual reserve components and then calculates what the reserve assessment and interest contribution should be, again by each reserve component. The current annual assessment is then determined by adding all the individual component assessments together. This is the most conservative method and leads to a fully funded reserve position at all times.

This particular Reserve Study utilizes the "Minimum Funding Method (Threshold)" based on the association's annual cash flow. The annual balance of the fund will maintain more than \$1,000 annually at any given period for the next 30 years based on the assumptions provided in the Funding Method Summary and the additional caveat that no component fails in total prior to its expected useful life.

Funding Options

In the event a component does fail prior to its expected useful life, an association has three primary options:

- Acquire a loan. Lending institutions will often loan money to an association for
 capital improvements using the future assets of the association as collateral for the
 loan. Traditionally, an additional monthly assessment for the principal and interest
 of the loan would be assessed against each unit for the period specified by the
 lender.
- 2. **Institute a special assessment.** Some associations may not be able to secure a loan for a component that has failed unexpectedly. Typically, the association board then turns to a special assessment. The cost of the item in need of replacement is divided equally among the homeowners and assessed against their HOA dues. This may be done as a one-time payment or as a monthly assessment for a given period of time.
- 3. **Defer the required repair or replacement.** This option is most commonly used and is often abused. Because it is much simpler to ignore a problem, an association will defer repair or replacement in lieu of having future funds. This usually leads to more deferred repair and replacement until eventually the entire reserve schedule is woefully behind. This method should only be used in extreme cases. Please consider all options prior to selecting deferral.

Maintenance Plan 2020

Maintenance Plan Executive Summary

Regular maintenance of common elements is necessary to insure maximum useful life and optimum performance of components. Items of particular concern are those that represent a safety hazard to residents or guests if they are not maintained properly and components that provide waterproofing or protection from other elements.

This maintenance plan is a cyclical plan that calls for maintenance at regular intervals. The frequency of maintenance and cost of the activity initially will follow a short narrative description. Every maintenance plan should be reviewed and updated on an annual basis when preparing the annual operating budget for the Association.

Information herein is coordinated from a frequently updated source, Reed Construction Data, a reputable provider of construction cost data.

Pursuant to Oregon State Statutes, Sections 94 and 100—requiring a maintenance plan as an integral part of the reserve study, the following maintenance procedures are recommended:

Concrete—Maintenance Allowance

Total Maintenance Frequency: Inspect Annually

Concrete steps, common area sidewalks, the curbs on private streets shall be kept in good condition. Any cracks, damage, or displacement should be repaired. Periodic pressure washing of the concrete steps at Tract G.

Reserve Study 2020

Funding Method Summary

Report Statistics	3	Report Assumptions/ Parameters					
Report Date	July 20, 2018	Inflation Factor	3.30%				
Account Number	CrstVwTerrRS1	Annual Assessment Increase	3.30%				
Budget Year Beginning	January 1, 2020	Interest Rate on Reserve Deposit	0.50%				
Budget Year Ending	December 31, 2020	Tax Rate on Interest	0.00%				
Total Units	248	Contingency	0.00%				

Funding Method Notes

- The purpose of this study is to ensure that adequate replacement funds are available when components reach the end of their useful life according to a variety of assumptions. Components will be replaced as required, not necessarily in their expected replacement year. This analysis should be updated annually.
- The following items were not included in the analysis because their useful life is greater than thirty years: sanitary sewer and storm drains, telephone, cable, internet lines, grading, all other unmentioned components with a useful life deemed greater than thirty years by industry standards.
- Two funding projections are provided. The *Threshold Method Projection* establishes a reserve funding goal that keeps the reserve balance above \$15,000. The *Fully-Funded Projection* establishes a reserve funding goal that achieves a 100% fully-funded reserve balance by the end of the 30-year study period.

Contribution Rate Recommendation

Blue Mountain Community Management recommends that the Association adopt the contribution rates provided in the *Threshold Method Projection*.

Threshold Method Projection

This projection uses a "threshold funding" method, which establishes a reserve funding goal that keeps the reserve balance above a specified dollar or percent funded amount.

<u>All – 248 Lots</u>

The funding scenario for the 248 lots begins with a starting balance of **\$0.00** and an annual contribution of **\$16,425.00**. The annual contribution increases 3.3% each year for the remaining years of the study. A minimum balance of **\$15,000** is maintained from throughout the life of the study.

Summary of Calculations – All Lots

Required Annual Contribution	\$16,425.00
Required Monthly Contribution	\$1,368.75
Unit Monthly Contribution	\$5.52

Threshold Method Projection Chart – All Lots

Beginning Balance \$0.00

Year	Current Cost	Annual Contribution	Annual Interest	Annual Expenditures	Target Ending Reserves
2020	\$374,458	\$16,425	\$83	\$0	\$16,507
2021	\$386,815	\$16,967	\$167	\$0	\$33,642
2022	\$399,579	\$17,527	\$256	\$0	\$51,424
2023	\$412,766	\$18,105	\$321	\$5,291	\$64,560
2024	\$426,387	\$18,703	\$379	\$7,401	\$76,240
2025	\$440,458	\$19,320	\$478	\$0	\$96,038
2026	\$454,993	\$19,958	\$137	\$88,579	\$27,554
2027	\$470,007	\$20,616	\$241	\$0	\$48,411
2028	\$485,518	\$21,296	\$306	\$8,428	\$61,586
2029	\$501,540	\$21,999	\$386	\$6,429	\$77,542
2030	\$518,091	\$22,725	\$501	\$0	\$100,769
2031	\$535,188	\$23,475	\$621	\$0	\$124,865
2032	\$552,849	\$24,250	\$159	\$117,226	\$32,048
2033	\$571,093	\$25,050	\$285	\$0	\$57,384
2034	\$589,939	\$25,877	\$377	\$7,877	\$75,760
2035	\$609,407	\$26,731	\$473	\$7,812	\$95,153
2036	\$629,517	\$27,613	\$559	\$10,927	\$112,397
2037	\$650,291	\$28,524	\$705	\$0	\$141,626
2038	\$671,751	\$29,465	\$202	\$130,778	\$40,515
2039	\$693,919	\$30,438	\$355	\$0	\$71,308
2040	\$716,818	\$31,442	\$423	\$18,186	\$84,987
2041	\$740,473	\$32,480	\$540	\$9,492	\$108,515
2042	\$764,909	\$33,552	\$710	\$0	\$142,777
2043	\$790,151	\$34,659	\$887	\$0	\$178,323
2044	\$816,226	\$35,802	\$79	\$198,358	\$15,846
2045	\$843,161	\$36,984	\$264	\$0	\$53,094
2046	\$870,985	\$38,204	\$456	\$0	\$91,755
2047	\$899,728	\$39,465	\$598	\$11,533	\$120,286
2048	\$929,419	\$40,768	\$622	\$36,610	\$125,065
2049	\$960,090	\$42,113	\$836	\$0	\$168,014

Component Summary by Category

Description	Replacement Year	Useful Life	Remaining Life	Current Cost
Grounds				
Asphalt - Repair, Patch & Seal	2026	6	6	\$62,400
Asphalt - Overlay	2056	36	36	\$218,400
Concrete Sidewalk Allowance	2040	20	20	\$3,000
Fence - Chain Link	2055	35	35	\$30,608
Fitness Stations	2044	24	24	\$10,000
Benches	2048	28	28	\$3,250
Irrigation Controller, System Allowance	2026	6	6	\$5,700
Bollard Lights	2044	24	24	\$1,600
Bark Mulch	2023	3	3	\$4,800
Cedar Chips	2024	4	4	\$2,000
Retaining Wall Allowance	2034	14	14	\$2,500
Open Space/Tree Allowance	2024	4	4	\$4,500
Monument & Sign Allowance	2034	14	14	\$2,500
Mailboxes	2055	35	35	\$23,200
Total Grounds				\$374,458
Total Assets:				\$374,458

Component Summary by Group

Description	Replacement Year	Useful Life	Remaining Life	Current Cost
Capital				
Asphalt - Overlay	2056	35	36	\$218,400
Concrete Allowance	2040	20	20	\$3,000
Fence - Chain Link	2055	35	35	\$30,608
Fitness Stations	2044	24	24	\$10,000
Benches	2048	28	28	\$3,250
Irrigation Controller, System Allowance	2026	6	6	\$5,700
Bollard Lights	2044	24	24	\$1,600
Bark Mulch	2023	3	3	\$4,800
Cedar Chips	2024	4	4	\$2,000
Retaining Wall Allowance	2034	14	14	\$2,500
Open Space/Tree Allowance	2024	4	4	\$4,500
Monument & Sign Allowance	2034	14	14	\$2,500
Mailboxes	2055	35	35	\$23,200
Total Capital				\$312,058
Non-Capital				
Asphalt - Repair, Patch & Seal	2026	6	6	\$62,400
Total Non-Capital				\$62,400
Total Assets:				\$374,458

Annual Expenditure Detail

	Expenditure per	Expenditure per
Description	Item	Year
No replacement in 2020 - 2022	2	
Replacement in 2023		\$5,291
Bark Mulch	\$5,291	
Replacement in 2024		\$7,401
Cedar Chips	\$2,277	
Open Space/Tree Allowance	\$5,124	
No replacement in 2025	5	
Replacement in 2026		\$88,578
Asphalt - Repair, Patch & Seal	\$75,820	
Irrigation, Controller	\$6,926	
Bark Mulch	\$5,832	
No replacement in 2027	7	
Replacement in 2028		\$8,428
Cedar Chips	\$2,593	
Open Space/Tree Allowance	\$5,835	
Replacement in 2029		\$6,429
Bark Mulch	\$6,429	
No replacement in 2030 - 2031	1	
Replacement in 2032		\$117,226
Asphalt - Repair, Patch & Seal	\$92,127	
Irrigation, Controller	\$8,415	
Bark Mulch	\$7,087	
Cedar Chips	\$2,953	
Open Space/Tree Allowance	\$6,644	
No replacement in 2033		
Replacement in 2034		\$7,878
Retaining Wall Allowance	\$3,939	·
Monument & Sign Allowance	\$3,939	
Replacement in 2035		\$7,812
Bark Mulch	\$7,812	. ,
Replacement in 2036		\$10,927
Cedar Chips	\$3,362	· ·
Open Space/Tree Allowance	\$7,565	
No replacement in 2037		
Replacement in 2038		\$130,777
Asphalt - Repair, Patch & Seal	\$111,941	
Irrigation, Controller	\$10,225	
Bark Mulch	\$8,611	
No replacement in 2039		
Replacement in 2040		\$18,186
Concrete Sidewalk Allowance	\$5,743	
Cedar Chips	\$3,829	
Open Space/Tree Allowance	\$8,614	

Description	Expenditure per Item	Expenditure per Year
Replacement in 2041		\$9,492
Bark Mulch	\$9,492	
No replacement in 2042 - 2043		
Replacement in 2044		\$198,360
Asphalt - Repair, Patch & Seal	\$136,017	
Fitness Stations	\$21,798	
Irrigation, Controller	\$12,425	
Bollard Lights	\$3,488	
Bark Mulch	\$10,463	
Cedar Chips	\$4,360	
Open Space/Tree Allowance	\$9,809	
No replacement in 2045 - 2046		
Replacement in 2047		\$11,533
Bark Mulch	\$11,533	
Replacement in 2048		\$36,610
Benches	\$8,067	
Cedar Chips	\$4,964	
Retaining Wall Allowance	\$6,205	
Open Space/Tree Allowance	\$11,169	
Monument Allowance	\$6,205	
No replacement in 2049		
Total:	\$664,928	\$664,928

Detail Report by Category

Grounds

Asphalt Streets - Patch, Repair & Seal

Non-Capital: Grounds

Placed in Service: 2020 **Cost Basis:** 156,000 SF @ \$0.40

Useful Life:6 yearsAsset Cost:\$62,400Remaining Life:6 yearsPercent Replacement:100%Replacement Year:2026Replacement Year Cost:\$75,820

This component category provides funding for the periodic application of an asphalt emulsion sealer also known as "Slurry Seal" to all asphalt surfaces maintained by the HOA. The process includes pre-cleaning of all pavement, filling of any cracks or fissures in the pavement as well as the patching of isolated, damaged pavement surfaces, followed by the application of the emulsion sealer either by hand or mechanical means.

A licensed paving contractor should perform this work and all asphalt striping (if necessary) will need to be renewed when the seal coating is applied. The component expense estimate includes the cost of this work as well the seal coating cost.

Useful life assumptions are based on accepted industry estimates established by RS Means, and/or The National Construction Estimator. The Association should obtain a bid prior to commencing work. The estimated costs obtained ranged from \$0.38 - \$0.56 per square foot with replacement every 7-8 years.

Asphalt Streets – Overlay

Capital: Grounds

Placed in Service: 2020 **Cost Basis:** 156,000 SF @ \$1.40

Useful Life:36 yearsAsset Cost:\$218,400Remaining Life:36 yearsPercent Replacement:100%Replacement Year:2056Replacement Year Cost:\$680,399

This component category provides funding for the renewal/replacement of asphalt surfaces maintained by the HOA. Renewal/replacement of asphalt paving refers to the periodic application of bituminous asphalt overlay that is typically applied in continuous sections at a thickness of 1" to 2", depending on the individual project specifications. The overlay is designed to renew the life of the pavement for another life cycle of equal duration to the initial life expectancy of the pavement. The new surface is to be maintained in the same fashion as the original surface.

A licensed paving contractor should perform this work and all asphalt striping (if necessary) will need to be renewed when the overlay is applied. The component expense estimate includes the cost of this work as well as the overlay cost.

Useful life assumptions are based on accepted industry estimates established by RS Means, and/or The National Construction Estimator. The Association should obtain a bid prior to commencing work.

Concrete Allowance

Capital: Grounds

Placed in Service:2020Cost Basis:1 @ \$3,000Useful Life:20 yearsCurrent Cost:\$3,000

Remaining Life:20 yearsPercent Replacement:100%Replacement Year:2040Replacement Year Cost:\$5,743

This component category provides the partial replacement and repair of common area concrete.

Because this item is outside the 30-year scope of this study, this item provides an allowance for periodic maintenance and repair every 20 years or as needed.

Fence - Chain Link

Capital: Grounds

Placed in Service: 2020 **Cost Basis:** 1,155 LF @ \$26.50

Useful Life:35 yearsAsset Cost:\$30,608Remaining Life:35 yearsPercent Replacement:100%Replacement Year:2055Replacement Year Cost:\$95,354

This component category provides for the replacement of the chain link fence bordering the water quality facilities in the community.

Fitness Stations

Capital: Grounds

Placed in Service: 2020 **Cost Basis:** 5 @ \$2,000 Useful Life: 24 years Asset Cost: \$10,000 Remaining Life: 24 years Percent Replacement: 100% Replacement Year: Replacement Year Cost: 2044 \$21,798

This component category provides funding for the replacement of the fitness stations in the community.

Benches

Capital: Grounds

Placed in Service: 2020 **Cost Basis:** 5 @ \$650 **Useful Life:** 28 years **Asset Cost:** \$3,250 Remaining Life: 28 years **Percent Replacement:** 100% Replacement Year: 2048 Replacement Year Cost: \$8,067

This component category provides funding for the replacement of the benches located along the cedar path in Tract A.

Irrigation Controller

Capital: Grounds

Placed in Service: 2020 **Cost Basis:** 6 @ \$950 Useful Life: 6 years Asset Cost: \$5,700 Remaining Life: 6 years Percent Replacement: 100% Replacement Year Cost: Replacement Year: 2026 \$6,926

This component category provides funding for the replacement of the irrigation controller and system in the common areas.

Bollard Lights

Capital: Grounds

Placed in Service: 2020 **Cost Basis:** 2 @ \$800 **Useful Life:** 24 years **Asset Cost:** \$1,600 Remaining Life: 24 years **Percent Replacement:** 100% Replacement Year: 2044 Replacement Year Cost: \$3,488

This component category provides funding for the replenishment of the bollard style lights in the park.

Bark Mulch

Capital: Grounds

Placed in Service: 2020 **Cost Basis:** 10 @ \$480 **Useful Life:** 3 years Asset Cost: \$4,800 Remaining Life: 3 years Percent Replacement: 100% Replacement Year: Replacement Year Cost: 2023 \$5,291

This component category provides funding for the replenishment of the bark mulch throughout the community.

Cedar Chips

Capital: Grounds

Placed in Service: 2020 **Cost Basis:** 4 @ \$500 **Useful Life:** 4 years **Asset Cost:** \$2,000 Remaining Life: 4 years **Percent Replacement:** 100% Replacement Year: 2024 Replacement Year Cost: \$2,277

This component category provides funding for the replenishment of the cedar chip path in Tract A.

Retaining Wall Allowance

Capital: Grounds

Placed in Service: 2020 Cost Basis: 1 @ \$2,500

Useful Life:14 yearsAsset Cost:\$2,500Remaining Life:14 yearsPercent Replacement:100%Replacement Year:2034Replacement Year Cost:\$3,939

This component category provides funding for the maintenance of the retaining wall.

Open Space/Tree Allowance

Capital: Grounds

Placed in Service:2020Cost Basis:1 @ \$4,500Useful Life:4 yearsAsset Cost:\$4,500

Remaining Life:4 yearsPercent Replacement:100%Replacement Year:2024Replacement Year Cost:\$5,124

This component category provides funding to upkeep the open space areas in Tracts A, B, C, & D.

Monument & Sign Allowance

Capital: Grounds

Placed in Service: 2020 Cost Basis: 1 @ \$2,500

Useful Life:14 yearsAsset Cost:\$2,500Remaining Life:14 yearsPercent Replacement:100%Replacement Year:2034Replacement Year Cost:\$3,939

This component category provides funding for the maintenance, partial replacement, of the monument at the entrance to the community.

Mailboxes

Capital: Grounds

Placed in Service: 2020 **Cost Basis:** 16 @ \$1,450

Useful Life:35 yearsAsset Cost:\$23,200Remaining Life:35 yearsPercent Replacement:100%Replacement Year:2055Replacement Year Cost:\$72,277

This component category provides funding for the replacement of the mailbox clusters in the Association. It is anticipated that the life of the mailboxes will be 30-40 years.

Grounds—Total Current Cost: \$374,458

AFTER RECORDING RETURN COPY TO:

JORDAN RAMIS, PC 2 CENTERPOINTE DR, 6TH FLOOR LAKE OSWEGO, OR 97035 ATTN: JAMES D. HOWSLEY

DRAFT

SPACE ABOVE THIS LINE FOR RECORDER'S USE

DECLARATION OF PRIVATE STREET MAINTENANCE COVENANT AND AGREEMENT

RECITALS

WHEREAS, CG Commercial, LLC, a Delaware limited liability company and VPCF Crestview, LLC, a Delaware limited liability company ("Declarants") are the owners of the real property described in Exhibit A and depicted on Exhibit B attached hereto and incorporated by this reference (the "Private Street Tracts").

WHEREAS, a Private Street Maintenance Covenant and Agreement ("Agreement") is required pursuant to the City of Newberg Final Decision dated ________, 2018 approving the Crestview Crossing Subdivision ("Subdivision") including the Private Street Tracts.

WHEREAS, the Subdivision plat will be recorded to create the Private Street Tracts.

WHEREAS, the Crestview Crossing Homeowners Association ("Association") has been created to own, administer and maintain the Private Street Tracts, among other purposes.

AGREEMENT

NOW, THEREFORE, Declarants covenant and agree on behalf of Declarants and their successors, including the Association, that the following provisions shall constitute a covenant running with the Private Street Tracts, as more particularly described herein.

1. PURPOSE OF COVENANT AND AGREEMENT.

The purpose of this Agreement is to provide for the perpetual maintenance of the Private Street Tracts by the Association.

2. LEGAL DESCRIPTION.

The legal description of the Private Street Tracts is on Exhibit A and depicted on Exhibit

3. <u>DURATION AND NATURE OF AGREEMENT.</u>

This Agreement shall continue in perpetuity. This Agreement is intended to and does attach to and run with the land affected herein. This Agreement is binding on the Declarant, and its successors, heirs and assigns. It is the intent of Declarants to create a continuing obligation and right of the Association as the future owner of the Private Street Tracts.

4. CONSTRUCTION OF IMPROVEMENTS.

Declarants shall design and construct the street improvements to the specifications established by the City of Newberg, at Declarants' expense.

5. OWNERSHIP.

When Declarants have conveyed a sufficient number of the lots in the Subdivision to others, it will convey ownership of the Private Street Tracts to the Association and Declarants' obligations shall terminate.

6. MAINTENANCE.

At the direction of the Association, the Private Street Tracts shall be inspected by a licensed Civil Engineer, at no less than 5 year intervals to identify needed maintenance. The Civil Engineer will recommend the amount of maintenance needed, and the recommendations shall be considered, mutually agreed and acted on by Association.

Maintenance shall include, but not be limited to:

- a. The removal of leaves, trash or other unsightly or dangerous materials;
- b. The removal of diseased or dead trees, landscaping or natural vegetation and the replanting of replacement materials.
- c. The trimming of trees and vegetation.
- d. The removal and replacement of any broken pavement.

- e. The sealing of and/or the eventual repaving of the pavement, in a useable condition and in good repair.
- f. The repair and/or replacement of damaged or missing fire lane restriction parking signs (as applicable) to the satisfaction of the Fire Marshal.
- g. The re-painting of any and all fire lane restriction striping, including any stenciled lettering to the satisfaction of the Fire Marshal.

7. <u>INDEMNIFICATION</u>.

The Association shall hold harmless, defend and indemnify the Declarants, the City of Newberg and the Fire Marshal and their officers, agents and employees against all claims, demands, actions and suits, including attorneys' fees and costs brought against any of them arising out of the failure to properly design, locate, construct or maintain the Private Street Tracts which are subject to this Agreement.

All workers undertaking maintenance work within the Private Street Tracts shall have standard liability insurance in a reasonable amount from a reputable insurance company which protects the Association.

8. <u>NOTICE.</u>

Any notice, demand, or report required under this Agreement shall be sent to the owner of the Private Street Tracts. Any required notice of demand shall be made by hand delivery or certified mail, and shall be deemed received on actual receipt or 48 hours after being mailed whichever first occurs.

9. AMENDMENT AND TERMINATION.

The owner(s) of the Private Street Tracts may not amend, withdraw from or dissolve this Agreement without the written approval of the City of Newberg, and any such instrument shall be recorded in the deed records of Yamhill County.

10. NO DEDICATION AS PUBLIC RIGHT-OF-WAY.

Nothing in this Agreement shall be interpreted to mean the Private Street Tracts are or will be dedicated to the City of Newberg, the public, or other public agency for right-of-way purposes.

IN WITNESS WHEREOF, the Declarants ha	ave executed this Private Street Maintenance
Covenant and Agreement to be effective on _	2018.

Signatures and acknowledgments are on the following page.

DECLARANTS

By:	 	
Title:		
STATE OF OREGON County of Clackamas		
The above instrument was subscribed and sy	worn to before me this	_day of
Ву		
As	of	·
Notary Public – State of Oregon My commission expires:		
VPCF Crestview, LLC, a Delaware limited	liability company	
Ву:		
Title:		
STATE OF OREGON County of Clackamas		
The above instrument was subscribed and sv	worn to before me this	_day of
Ву		
As	of	

Approved as to form

DRAFT

Joe Hannon City Manager, City of Newberg

Exhibit A Legal Description

Parcels of land in the northeast quarter of Section 16, Township 3 South, Range 2 West, Willamette Meridian, in the City of Newberg, Yamhill County, Oregon, more particulary described as follows.

Tracts F, G and H on the plat of Crestview	Crossing,	a subdivision recorded on
, 2018 at Volume	, Page _	, Book of Plats.

Exhibit B Map of Private Street Tracts



AFTER RECORDING RETURN TO: JORDAN RAMIS, PC

2 Centerpointe Dr, 6th Floor Lake Oswego, OR 97035

Attn: James D. Howsley

DRAFT

This space provided for recorder's use.

STORMWATER FACILITY EASEMENT AND MAINTENANCE AGREEMENT

BETWEEN: City of Newberg, a municipal corporation of the State of Oregon ("City")

AND: CG Commercial, LLC, a Delaware limited liability company and VPCF Crestview, LLC, a Delaware limited liability company ("Declarants")

DATED: _______, 2018

RECITALS

- A. WHEREAS, Declarants are the owner of the real property described in Exhibit A and depicted on Exhibit B attached hereto and incorporated by this reference (the "Private Street Tracts" and the "Stormwater Tracts").
- B. WHEREAS, this Stormwater Facility Easement and Maintenance Agreement ("Agreement") is required pursuant to the City of Newberg Final Decision dated _______, 2018 approving the Crestview Crossing Subdivision ("Subdivision") including the Stormwater Tracts.
- C. WHEREAS, the Subdivision plat is being recorded to create the Stormwater Tracts.
- D. WHEREAS, the Crestview Crossing Homeowners Association ("Association") has been created to own, administer and maintain the Stormwater Tracts, among other purposes.
- E. The Stormwater Tracts were designed by a registered professional engineer to accommodate the anticipated volume of runoff, detain such runoff, and release it at a slow rate.
- F. The City desires a stormwater facility easement over a portion of the Stormwater Tracts. Declarant is willing to grant to the City a stormwater facility easement, subject to the terms and conditions of this Agreement.

NOW, THEREFORE, in consideration of the following covenants and conditions, it is agreed by and between the parties hereto as follows:

- Easement. Declarants hereby grant the City, its employees, independent contractors and
 designees, a nonexclusive easement for ingress and egress over the Private Street Tracts,
 and over the Stormwater Tracts for the purpose of inspection of the Stormwater Tracts as
 specified below. Declarants understand and agrees that this easement limits the ability of
 Declarants, their successors and assigns from constructing any permanent buildings,
 structures, or other improvements that would interfere with the functioning of the
 Stormwater Tracts.
- 2. **Declarants' Agreement to Maintain Stormwater Tracts.** Declarants agree to maintain the Stormwater Tracts consistent with operations and maintenance program described in Exhibit C attached hereto and incorporated herein by this reference. In the event that the Declarants fail to so maintain the Stormwater Tracts, City may elect to exercise all remedies available to it in law and in equity, including the right of specific performance.
- 3. City's Indemnity. The City shall indemnify, defend and hold harmless Declarants, their officers, directors, agents and employees from any and all liability, damages, expenses, attorney's fees, causes of action, suits, claims or judgments, arising out of or connected with the City's exercise of its rights under this Agreement. In addition to the indemnity provided above, the City agrees to indemnify, defend and hold harmless Declarants, its officers, directors, agents and employees from and against all damages, costs, liabilities and expenses caused by, arising out of, or in connection with, City's handling, storage, discharge, transportation or disposal of hazardous or toxic wastes or substances, pollutants, oils, materials or contaminants, as those terms are defined by federal state or local law or regulation, as amended from time to time, on or about the Stormwater Tracts. City shall not be required to indemnify, hold harmless or defend Declarant from any claim, damage, loss, liability, cost or expense arising out of Declarant' negligence or intentional conduct.
- 4. **Declarant' Indemnity.** Declarant shall indemnify, defend and hold harmless City, its officials, agents and employees from any and all liability, damages, expenses, attorney's fees, causes of action, suits, claims or judgments, arising out of or connected with Declarant' acts or omissions which cause result in damage to the Stormwater Tracts. In addition to the indemnity provided above, Declarant agrees to indemnify, defend and hold harmless City, its officers, directors, agents and employees from and against all damages, costs, liabilities and expenses caused by, arising out of, or in connection with, Declarant' handling, storage, discharge, transportation or disposal of hazardous or toxic wastes or substances, pollutants, oils, materials or contaminants, as those terms are defined by federal state or local law or regulation, as amended from time to time, on or about the Stormwater Tracts. Declarant shall not be required to indemnify, hold harmless or defend the City from any claim, damage, loss, liability, cost or expense arising out of City's negligence or intentional conduct.
- 5. **Notice**. Any notice, demand, request, or other communication (collectively referred to in this as a "notice") required or permitted to be given or made by either party to the other pursuant to this Agreement shall be in writing and shall be delivered to the other party by delivery service (including by overnight delivery service such as Federal Express) or sent postage prepaid by registered or certified U.S. or Canadian mail, as applicable, addressed

to the party at its address set forth below or such other address as may be designated by such party by written notice hereunder. Notices shall be deemed given and shall be effective on the date of delivery or, if mailed, two (2) business days following the date of mailing.

In the case of a notice or communication, all notices shall be addressed as follows:

City: City of Newberg

414 E First St

Newberg, OR 97132 Attn: City Manager

Declarant:

With a copy to: Jordan Ramis, PC

2 Centerpointe Dr, 6th Floor Lake Oswego, OR 97035 Attn: James D. Howsley

- 6. **Force and Effect.** This Agreement shall constitute deed covenants running with the land and shall be binding on all owners, their heirs, successors, and assigns.
- 7. **Amendments.** The terms of this Agreement may be amended by mutual agreement of the parties. Any amendments shall be in writing and shall refer specifically to this Agreement and shall be valid only when executed by both parties to this Agreement and duly recorded.
- 8. **Breach.** In the event either party breaches this Agreement, the nonbreaching party may elect to exercise all remedies available in law and equity.
- 9. **Prevailing Party.** In any action brought by either party to enforce the terms of this Agreement, or to foreclose any lien provided for herein, the prevailing party shall be entitled to recover all costs, including reasonable attorney fees as may be determined by the court having jurisdiction, including any appeal therefrom.
- 10. **Severability.** The invalidity of any section, clause, sentence, or provision of this Agreement shall not affect the validity of any other part of this Agreement, which can be given effect without such invalid part or parts.
- 11. **Duration.** This agreement shall continue in perpetuity unless otherwise terminated and released by the parties hereto or their respective heirs, successors or assigns. In the event that the Declarant fails to use the Stormwater Tracts for a period of twenty-four (24) consecutive months, then this Agreement shall terminate and the parties hereto shall execute a termination of this Agreement and record the same in the real estate records of Yamhill County, Oregon. At the time of such termination, the Stormwater Tracts shall revert to Declarant.

- 12. **Recording.** This Agreement shall be recorded in the deed records of Yamhill County, Oregon.
- 13. **Exhibits.** All Exhibits attached hereto are incorporated herein by this reference.
- 14. **Recitals Contractual.** The Recitals in this Agreement are contractual.

IN WITNESS WHEREOF, Declarant has set his hand and seal the day and year first above written, and City has caused these presents to be signed in its name by its City Manager, attesting to the day and year first above written.

ability com	pany LLC					
			this		_day	O
of						_•
	and swor	of	and sworn to before me of	and sworn to before me this of	and sworn to before me this	and sworn to before me thisday of

VPCF Crestview, LLC, a Delaware limited lia	ability company
By:	
Title:	
STATE OF OREGON County of Clackamas	
The above instrument was subscrib	ed and sworn to before me thisday of
By	
As	of
_	·
CITY:	
CITY OF NEWBERG, a municipal corporation	on of the State of Oregon
F	Ву:
	Joe Hannon, City Manager
STATE OF OREGON)	
COUNTY OF) ss.	
This instrument was acknowledged Hannon as City Manager of the City of Newborn	
	Notary Public for Oregon My commission expires:

Exhibit A Legal Description of Property

Parcels of land in the northeast quarter of Section 16, Township 3 South, Range 2 West, Willamette Meridian, in the City of Newberg, Yamhill County, Oregon, more particulary described as follows.

Private Street Tracts	
Tracts F, G and H on the plat of Crestview Crossing, a subdivision recorded on	
2018 at Volume, Page, Book of Plats.	
Stormwater Tracts	
Tracts B and C on the plat of Crestview Crossing, a subdivision ecorded on, Page, Book of Plats.	

Exhibit B Map of Private Street and Stormwater Tracts



EXHIBIT C

Maintenance Requirement for Stormwater Tracts B and C

- 1. Stormwater Tracts shall be mowed regularly to maintain a maximum grass height of 6 inches or less. Side slopes that are planted shall be maintained to prevent erosion. Bare soil shall be replanted as needed to maintain sufficient ground coverage.
- 2. The Stormwater Tracts access gates shall remain free of obstructions at all times allowing access by the City's Public Works Department for inspection, maintenance, and repair, if necessary. The access gate shall remain locked at all times. The lock shall be accessible by both Declarant and the City.
- 3. The fence enclosing the Stormwater Tracts shall be maintained to remain structurally competent. Debris that accumulates along the fence and within the Stormwater Tracts shall be removed quarterly.
- 4. Inspect the Stormwater Tracts per the following table and stormwater retention basin inspection maintenance checklist.

	Table 1 Routine Maintenance Activities for Retention Basins		
No.	Maintenance Task	Frequency of Task	
1	Conduct annual vegetation management during the summer, removing weeds and harvesting vegetation. Remove all grass cuttings and other green waste.	Once a year	
2	Trim vegetation at beginning and end of wet season to prevent establishment of woody vegetation, and for aesthetics and mosquito control.	Twice a year (spring and fall)	
3	Evaluate health of vegetation and remove and replace any dead or dying plants. Remove all green waste and dispose of properly.	Twice a year	
4	If turf grass is included in basin design, conduct regular mowing and remove all grass cuttings. Avoid producing ruts when mowing.	Maintain less than 6-inches	
5	Remove sediment when the sediment level reaches the level shown on the fixed vertical sediment marker and dispose of sediment properly.	As needed	
6	Remove accumulated sediment and regrade when the accumulated sediment volume reduces the infiltration rate or impedes the outfall pipe and dispose of sediment properly.	Every 2-5 years, or as needed to maintain min. clearance below outlet	
7	Remove accumulated trash and debris from the extended detention basin at the middle and end of the wet season and dispose of trash and debris properly.	Twice a year (January and April)	
8	Irrigate during dry weather.	As needed	
9	Inspect extended detention basin using the attached inspection checklist.	Quarterly, or as needed	



MEMORANDUM

Date: August 15, 2018 Project #: 21709

To: Jesse Nemec

JT Smith Companies

5285 Meadows Road, Suite 171

Lake Oswego, OR 97035

From: Diego Arguea and Matt Hughart
Project: Crestview Crossing Development

Subject: 6-Party Agreement Transportation Considerations

Pursuant to your request, we have reviewed the *Crestview Improvement Project (From Robin Court to Highway 99W Alignment Exploration)* that was referenced in a six-party agreement (Yamhill County Board Order 06-265) executed in April 2006. The purpose of this agreement was to begin the process to amend the 2005 Newberg Transportation System Plan (TSP) and reclassify the Crestview Drive extension from a Minor Arterial to a Major Collector designation.

The current development proposed by JT Smith Companies will be required to construct a portion of the Crestview Improvement Project, connecting Highway 99W to the existing terminus of Crestview Drive at the southern boundary of the Oxberg Lake and MeadowWood subdivisions.

EXECUTIVE SUMMARY

Our assessment of the six-party agreement (Agreement) concludes that the proposed Crestview Drive alignment, intersection treatments, and cross-sectional elements are consistent with the guiding principles established in the Agreement, and as such, provides equivalent transportation infrastructure as that identified in the Agreement. Additional details are provided herein.

SIX-PARTY AGREEMENT BACKGROUND

In April 2006, the Yamhill County Board of Commissioners accepted an agreement to begin the amendment of the then-current 2005 TSP. The agreement's purpose authorized the City to conduct an amendment to the 2005 TSP that would designate Crestview Drive as a Major Collector roadway and identify a general design and alignment of the Crestview Drive extension (Reference 1, Agreement, #3). A traffic study was prepared by JRH Engineering concluding the change in classification of Crestview Drive

to a Major Collector would not measurably affect the City's transportation network. The TSP was subsequently amended to reflect Crestview Drive as a Major Collector.

Conceptual Alignment

The alignment identified in the Agreement extends Robin Court to Highway 99W and includes one roundabout intersection (located approximately 380 feet from 99W) and one traffic calming circle located approximately 850 feet north of the roundabout location. As stated in the Agreement, this represents a "general design and alignment" to provide direction for future development. Site-specific characteristics, unforeseen challenges, and street connectivity and layout were not addressed in the Agreement, and turn lanes, if required, were to be determined at a later date. The general design and alignment shown in the Agreement Exhibit A is shown below in Figure 1.

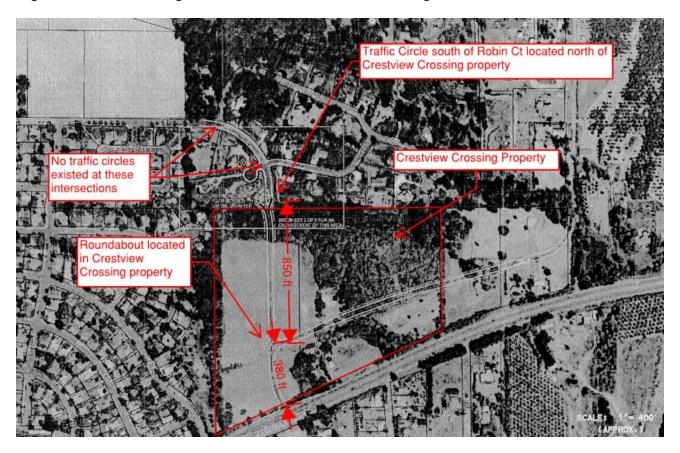


Figure 1. 6-Party Agreement Exhibit A

As shown above, the Agreement identifies a general alignment with two intersection treatments addressing intersection operations and traffic calming. As stated in the Agreement, the alignment should be *designed to encourage a 25 mph speed limit*.

PROPOSED DEVELOPMENT

The proposed residential application acknowledges responsibility to construct the extension of Crestview Drive, connecting from Robin Court to Highway 99W, and has developed an alignment consistent with that shown in the 2006 Agreement.

Constructed To-Date

As shown in Figure 1, Crestview Drive, from Birdhaven Loop to the northern edge of Crestview Crossing, was reconstructed in 2011/2012 to include two intersection traffic calming traffic circles on Crestview Drive at Birdhaven Loop and Robin Court, depicted in Figure 2 below.



Figure 2. Traffic Calming Treatments along Crestview Drive

Neither of these traffic calming circles were identified in the Agreement. The traffic calming circles were constructed after the 2006 Agreement was adopted and are recognized to have a traffic calming effect to limit speeds to 25 mph.

PROPOSED ALIGNMENT

The June 2018 Crestview Crossing Traffic Impact Analysis (TIA) evaluated the impacts of the proposed development and identified recommended mitigation measures. The mitigation measures were selected considering anticipated traffic volumes along Crestview Drive and include the number and configuration travel lanes on the southbound approach to 99W, turn lane storage lengths, as well as transition tapers approaching the roundabout.

Roundabout Intersection

In accordance with the Agreement, construction of a roundabout is proposed to serve traffic into the residential areas north of Highway 99W, and connect to the future Benjamin Road Realignment (a Minor Collector). The roundabout location was determined based on the required queue storage length as an outcome of the TIA as well as roundabout design parameters, including entry deflection angles and transition tapers. As shown in Crestview Crossing site plan application, the roundabout is located approximately 545 feet north of Highway 99W (measured from the center of roundabout to the stop bar at Highway 99W). A southbound left-turn lane on Crestview Drive approaching Highway 99W provides 250 feet of storage and requires at least 50 feet of transition. The northbound transition taper into the roundabout is approximately 200 feet, and has been designed to accommodate all turning movements including u-turns. A detailed exhibit illustrates these distances and is included as an attachment to this memorandum.

The Public Improvement Standards of the Newberg Development Code (Chapter 15.505) were also reviewed to ensure consistency with Collector Roadway spacing standards (400 feet for a Major Collector designation). As such, the location of the roundabout has been designed to comply with the Newberg Development Code and the 6-Party Agreement in the context of the projected traffic operations while recognizing site-specific design considerations and constraints.

Two-way Stop Controlled Intersection

To provide efficient connectivity to adjacent residential development, a two-way stop-controlled intersection (Public Street C) has been designed approximately 500 feet north of the proposed roundabout. The location of this intersection is influenced by intersection spacing on a Major Collector (greater than 400 feet minimum spacing requirement), location of wetlands (site constraints), meeting minimum intersection sight distance requirements, and ability to provide an east-west roadway serving the proposed large lot homes of the Development. The location of this intersection is approximately 410 feet south of Robin Court, the closest public street intersection to the north.

Additional Considerations

Consideration was given to the 6-Party Agreement and the spacing between traffic calming devices during the roadway and site design process. The intersection spacing shown in the conceptual alignment of the 6-Party Agreement and the proposed alignment is shown in a detailed exhibit included as an attachment to this memorandum

As shown in the attachment and in Figure 1, the conceptual spacing shown in the Agreement between the roundabout and traffic calming circle is approximately 850 feet. The proposed site layout and intersection design maintains similar distance between the proposed roundabout and the constructed traffic calming circle on Robin Court (approximately 910 feet). We conclude that the difference in spacing (60 feet) will not impact travel speeds and that the 25 mph roadway design speed is consistent with the 6-Party Agreement.

6-PARTY AGREEMENT CONSISTENCY

In summary, we conclude the proposed alignment and intersection treatments are consistent with and satisfy the terms of the 6-Party Agreement for the following reasons.

- 1. The purpose of the Agreement is to re-designate Crestview Drive from a Minor Arterial to a Major Collector designation. The re-designation was successfully incorporated into the City's Transportation System Plan based in part on the JRH traffic study.
- 2. The current Crestview Crossing development proposal acknowledges the Agreement and proposes a roadway extension design consistent with City Major Collector requirements as well as key Agreement elements.
- 3. The spacing difference between the proposed roundabout and the recently constructed traffic calming circle at Robin Court is not expected to impact travel speeds on Crestview Drive extension and thus is consistent with the traffic calming south in the 6-Party Agreement.
- 4. With construction of the proposed roundabout, there will be a total of three traffic calming intersection treatments along Crestview Drive between Highway 99W and Birdhaven Loop. This is a greater amount of traffic calming than originally identified in the Agreement, indicating consistency in design and fulfillment of intent by the Applicant.

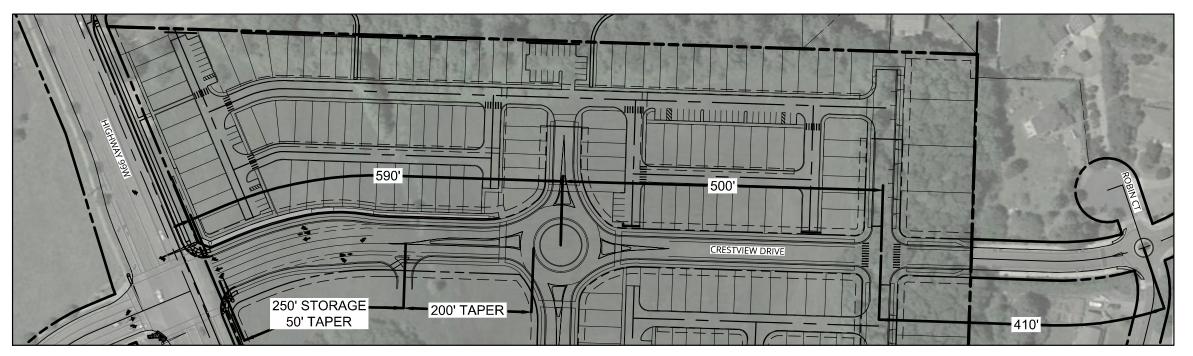
We trust this memorandum demonstrates consistency with the 6-Party Agreement.

REFERENCES

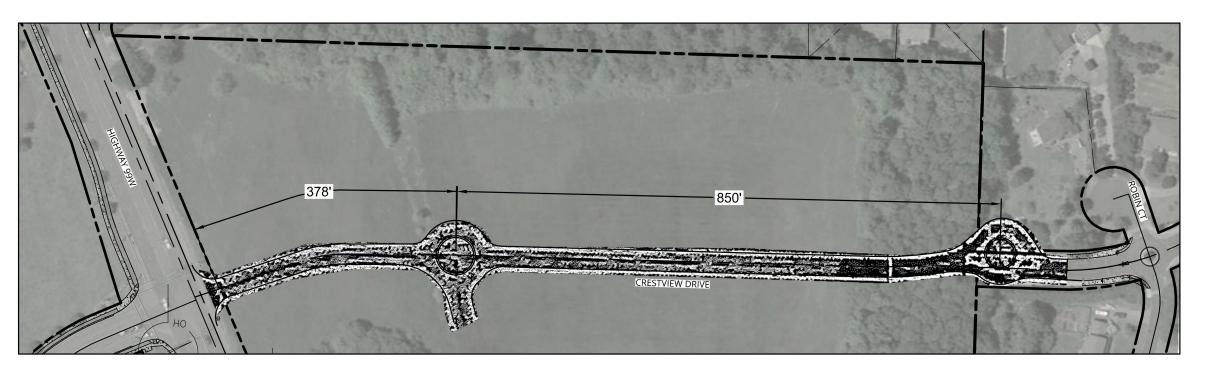
1. Yamhill County Board of Commissioners. 6-Party Agreement, Crestview Improvement Project (From Robin Court to Highway 99W Alignment Exploration). Board Order #06-265. April 19, 2006.

ATTACHMENT

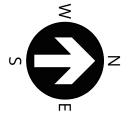
Crestview Drive Exhibit: Intersection Spacing Distances

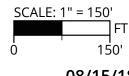


CRESTVIEW DRIVE DESIGN, PROPOSED



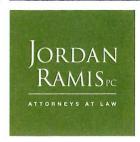
CRESTVIEW DRIVE GENERAL DESIGN AND ALIGNMENT, SIX-PARTY AGREEMENT 2006





08/15/18

J.T. SMITH COMPANIES



Lake Oswego

Two Centerpointe Dr., 6th Floor Lake Oswego, OR 97035 503-598-7070 www.jordanramis.com

Vancouver

1499 SE Tech Center Pl., #380 Vancouver, WA 98683 360-567-3900

Bend

360 SW Bond St., Suite 510 Bend, OR 97702 541-550-7900

Via E-Mail: doug.rux@newbergoregon.gov

September 13, 2018

City of Newberg Planning Commission c/o Doug Rux, Community Development Director 414 E First Street Newberg, OR 97132

Re: Crestview Crossing – Planning Commission Hearing

Dear Planning Commissioners:

Thank you for continuing the hearing until September in order to allow for the application materials to be enhanced and circulated for review prior to the public testimony. This extra time has benefited all parties. With the capable assistance of your staff, new information was developed in recent weeks. This letter will explain that information and address the concerns expressed by the rural neighbors in Oxberg Lake and other neighbors.

Several new and updated items were delivered to the City on August 17th, to allow time for them to be distributed within the City departments and to other agencies, including ODOT. These items include:

Kittelson memorandum on compliance with the six party agreement
Updated Kittelson traffic study
Two alternate plats
Parking configuration plan
Private street maintenance agreement
Stormwater operations and maintenance agreement
Phasing plan
Renderings of the Hwy 99W and Crestview entrances
Hydrogeology report regarding Oxberg Lake wells
Revised application narrative

The revised staff report of September 13 considered this new information and shows compliance with each criterion. The application should be approved, notwithstanding the objections of our rural neighbors, which are addressed below. As a preliminary matter, it is important to bear in mind the scope of this quasi-judicial review for needed housing in the City



of Newberg. The purposes of the Newberg Development Code are set forth in Section 15.05.020 and include:

The purpose of this code is to coordinate city regulations governing the development and use of land and to implement the Newberg comprehensive plan. B. The Newberg development code constitutes the development and land use regulations for the incorporated area of the city. Such regulations are designed to achieve the following objectives: to implement the comprehensive plan for the city; to advance the position of the city as a regional center of commerce, industry, recreation and culture; to provide for desirable, appropriately located living areas in a variety of dwelling types and at a suitable range of population densities, with adequate provision for sunlight, fresh air and usable open spaces; ...to promote safe, fast and efficient movement of people and goods without sacrificing the quality of the city's environment, minimize street congestion, and to provide for adequate off-street parking; to achieve excellence and originality of design in all future developments and preserve the natural beauty of the city's setting; ... and to preserve and enhance the quality of the city's environment. [Emphasis Added].

"City" means the incorporated territory of the City of Newberg. NDC 15.05.030. The theme of the objections from our rural neighbors is that this proposed development within the city is not compatible with their rural residential properties in Yamhill County. Just so. The city is different from the county, and there are completely separate land use regulations for each. There is no basis for county residents to demand changes to a city development to reflect rural preferences. (The converse is also true, and city residents lack a basis for demanding that rural uses show compatibility with urban properties and uses.) We respect the desires of Oxberg Lake residents to enjoy a rural residential lifestyle. However, there is no legal authority in support of their demands that urban development in the City of Newberg cannot be allowed to affect their preferred views, their preferred level of traffic, their preferred use of a private water system, or other aspects of rural living.

Newberg is building a city in accordance with urban land use regulations, including needed housing as the DLCD emphasizes. The rural neighbors often speak as if this application should remove the property from the city to allow development of more 1 acre rural residential lots. The Planning Commission should bear in mind that the application satisfies the applicable city land use regulations, as explained in the detailed staff report.



Six Party Agreement

Rural neighbors in Oxberg Lake insist that the proposed location of the roundabout "will not have the traffic-calming effects within Oxberg Lake for which it was duly negotiated and agreed by the parties." There are several defects in that argument. First, none of the application criteria require installation of traffic calming devices for benefit of county right-of-way or compliance with the six party agreement.

Second, the location of roundabouts has been substantially altered since the agreement was executed. There is no record evidence of why the intersection locations changed, however they were moved substantial distances and therefore the six-party agreement exhibit no longer controls. In contract law, if a contract is not implemented as originally planned, the parties have accepted the former changes to the street design, and are now estopped from demanding that this one roundabout be installed where shown in the agreement. There are other legal defects in Oxberg Lake's position which can be addressed by the Circuit Court. Strict compliance with the six party agreement would require demolition and relocation of the recently constructed roundabouts in Yamhill County, work that is well outside the scope of this application.

The demands of Oxberg Lake are not relevant to the approval criteria, and its remedy for the alleged contractual breach would lie in the Circuit Court. Traffic calming for county right-of-way for the benefit of properties outside the city is not a requirement for the PUD and CUP approvals. The Planning Commission lacks authority to interpret or implement the six party agreement in the course of this application, and we respectfully ask that it refrain from doing so.

Oxberg Lake's arguments also fail in substance. The assertion of a defect in traffic calming is not supported by substantial evidence in the record. Mr. Clemow's letter asserts traffic calming "is now necessary with the proposed extension of Crestview Drive to OR 99W." Mr. Clemow does not reference any land use criterion or public works standard in support of the assertion, because there are none. Crestview Dr. is classified as a collector in the TSP, as shown on Figure 14. The TSP also confirms that the speed limit on collectors is 25 mph. (See Attached). Mr. Clemow attempts to make the developer responsible for motorists who exceed the posted speed, however there is no authority in the land use criteria or public works standards to compel traffic calming on Crestview Dr.

The August 14, 2018 Kittelson memo concludes the proposed design "provides functionally equivalent transportation infrastructure." The memo explains that as constructed, Crestview Dr within Oxberg Lakes is "recognized to have a traffic calming effect to limit speeds to 25 mph." In other words, the desired traffic calming infrastructure is already in place within the Oxberg Lake subdivision, and operating effectively.



Oxberg Lake Water System

There is an existing 8 inch public water line running through Oxberg Lake (in the Crestview Dr. right-of-way), however the rural neighbors apparently prefer not to connect to this water. Rather, Oxberg Lake alleges the project fails to address purported impacts to its private water system, without explaining how that allegation relates to an approval criterion. Protection of rural water systems is not a requirement of the Newberg Development Code.

Not only do Oxberg Lake's comments by the Pacific Groundwater Group lack any technical basis, but they also directly contradict the state's conclusions. Any determinations involving the nature and management of the confined aquifer should be made by affected state agencies including the Oregon Water Resources Department.

Please note that the recent GeoEngineers hydrogeology report, dated August 9, 2018, explains why the proposed project does not pose any risk to the Oxberg Lake well or the aquifer in which it is completed. The GeoEngineers' report examined data from 64 wells around the project area, including the Oxberg Lake well. It examined new boring data from dozens of locations on the Crestview Crossing site. It readily concludes that the Oxberg Lake well utilizes a confined aquifer; the same conclusion reached by both the Oregon Department of Human Services' Drinking Water Program ("DHS") and the Oregon Department of Environmental Quality ("DEQ") in their joint 2004 Source Water Assessment Report. Such findings are also consistent with those of the Oregon Water Resources Department ("OWRD") which limits the use of the Oxberg Lake well through the administration of a 5-year renewal period for the Oxberg Lake groundwater permit.

OWRD so limits the appropriation of groundwater by the Oxberg Lake well for the very reason that it is completed in a confined aquifer. As a confined aquifer, it does not enjoy the ability to recharge on a seasonal basis through seepage from local precipitation and existing surface water. It is because of this lack of recharge capacity as a confined aquifer that OWRD will only issue a periodic permit to Oxberg Lake. Hence, for Oxberg Lake's consultants to claim there is a material connection, much less any connection, between surface land uses and the stability of the underlying confined aquifer from which Oxberg Lake receives its water supply is in direct contrast to the very restriction that OWRD imposes on Oxberg Lake's ability to appropriate ground water under its conditional permit. As the Planning Commission may know, Oxberg Lake's existing groundwater permit expires October 31 of this year and is subject to a discretionary renewal determination by OWRD. In addressing such renewal, OWRD will not consider whether the aquifer in which the Oxberg Lake well is completed was previously, is currently, or will remain a confined aquifer. Nor is it likely that Oxberg Lake will seek to challenge OWRD's decades-old determination that the aquifer is confined when it seeks renewal of its groundwater permit.



There is no evidence of a hydrogeological connection between the wetlands or other surface waters on the project site and the Oxberg wells, nor can there be any risk that the quality of the groundwater in the confined aquifer can or will be impaired by the proposed project. Notably, the primary water quality risks to the Oxberg Lake well derive from land uses and activities closer to the well and which occur within the boundaries of the Oxberg Lake subdivision itself.

As shown by Figures 2 and 3 of the Oregon DHS' and Oregon DEQ's joint 2004 Source Water Assessment Report, there are two items of Moderate Relative Risk within the 1 year time of travel radius to the Oxberg Well, both of which are entirely located within the Oxberg Lake subdivisions. Furthermore, as identified on Table 1 of Appendix C to that report, the numerous septic systems within the Oxberg Lake subdivision are expressly identified as a "potential source of microbial contamination". The best way to protect water quality for Oxberg Lake is for those specified lots to scrupulously maintain their septic systems and to ensure the wellheads are protected from other contaminants such as pesticides.

The September 6, 2018 letter from Glenn Wallace makes breathtaking arguments about the water issue, from a desktop in Seattle. His letter directly contradicts the conclusions of the State of Oregon in their 2004 report on the confined aquifer. The attorney for the rural neighbors in Oxberg Lake states in his September 6, 2018 memo that Mr. Wallace was hired "to review the underlying file materials". GeoEngineers bored dozens of soil samples throughout the Crestview Crossing site and their data is in the record. However, Mr. Wallace's letter acknowledges "[t]he report documenting the field infiltration these [sic] tests was not reviewed" by his firm.

Mr. Wallace closes by stating his services were performed in accordance with generally accepted hydrogeologic practices. Challenging the report of another geologist, and challenging the findings of the State of Oregon, without examining either the data from dozens of on-site borings or the report summarizing those borings is not a generally accepted professional practice in geology or any other science. A professional scientist hired to "review the underlying file materials" that declines to do so before drawing conclusions is not following accepted practice. The Planning Commission should disregard Mr. Wallace's letter nor his paid for conclusion.

Because the Oxberg Lake wells draw from a confined aquifer, Crestview Crossing's proposed project will have no effect on the quantity or quality of water available to serve those wells. Oxberg Lake is encouraged to follow the restrictions on their water permit to ensure the availability of water for their wells. Their alleged concerns about water quantity are best addressed to the OWRD during the upcoming renewal of their water permit, which expires on October 31, 2018. Their alleged concerns about protection of their wellheads from contamination are best addressed by considering the risks created by activities on lots within the Oxberg Lake subdivision itself as expressly highlighted by DHS and DEQ in their joint 2004 Source Water Assessment Report.



Wetlands

Oxberg Lake argues that "[g]iven the prominence of wetlands on the property, we cannot know what an approvable delineation would look like *vis-à-vis* the current proposal, and whether the development as proposed is feasible in the first place." It fails to connect this argument with a standard or criterion that applies to this application. The City's codes do not require the applicant to address wetlands within an application for a PUD or a conditional use permit.

If Oxberg Lake disagrees with the pending wetland delineation or the future fill permit, it has the opportunity to participate in the DSL/COE joint permit application process.

Needed Housing

Crestview Crossing will provide much needed housing for Newberg, and the site is zoned for residential and mixed residential and commercial use. We speak of "needed housing" in both the practical sense, and in the technical sense, as that term is defined in Oregon law. ORS 197.303. Section V.B.1 of the Newberg Comprehensive Plan explains housing and residential land needs, with reference to the 2004 Housing Needs Analysis prepared by its consultant. "That analysis examined the demographic, housing cost and household income data for the City of Newberg to determine the need for specific housing types: single family, multi-family, and manufactured homes." Table V-7 of the Comprehensive Plan tables demonstrates a shortage of 380 acres of buildable residential land through 2025.

This project includes 18 single family homes on large lots (carefully designed to buffer the rural neighbors), 230 cottage homes on smaller lots, and 51 apartments. Twelve of the cottage homes are designated for affordable housing pursuant to the Affordable Housing Action Plan. In other words, there are four primary housing types, at price ranges and rent levels affordable to households with a variety of incomes, consistent with the acknowledged need for specific housing types shown in the Housing Needs Analysis in the Comprehensive Plan. Therefore the project satisfies the statutory definition of "needed housing" (ORS 197.303(1)(a)).

Comprehensive Plan

The attorney for the rural neighbors argues the application is not consistent with the comprehensive plan, including that the C-2 district is incompatible with residential zoning districts. The code and comprehensive plan state the opposite. The argument is that residential use is being substituted for commercial; however residential use is allowed as a conditional use in the zone. NDC 15.302.032.G indicates: "[t]he C-2 district is intended to be consistent with the commercial (COM) and mixed use (MIX) designations of the comprehensive plan." Comprehensive Plan Section III.1 Mixed Use (MX) states: "[t]he objective of this designation is to provide a compatible mixture of commercial, office,

JORDAN RAMIS PC

Planning Commissioners September 13, 2018 Page 7

employment and high density residential uses." The plain text of the code and the comprehensive plan permit residential use in the C-2 zone.

The rural neighbors reference Commercial Areas policies 3b and 3c on providing adequate neighborhood commercial areas and clustering of commercial development. The following neighborhood commercial businesses are currently located within about one half mile of the site

Providence Newberg Medical Center Women's Healthcare Associates Newberg Ford Columbia Bank Newberg Veterinary Hospital From Russia With Love Easy 2 Wash Touchless Car Wash Chevron **United States Post Office** Jiffy Lube Taco Bell Wendy's Fred Meyer The UPS Store Dollar Tree Just Pho You Safeway

In addition, 4.4 acres of the site is being set aside for commercial use. The evidence is clear that there is ample neighborhood commercial land within the immediate area.

The 2008 Development Agreement

Some rural neighbors argue that this agreement is not satisfied by this application. As with the six party agreement, compliance is not required in this application. The applicant will comply with the agreement during development; however, there is no need to show compliance in this pre-development procedure.

The agreement is a private contract between abutting neighbors. It is not part of the Newberg Development Code or the Comprehensive Plan, which contain the only criteria applicable to this application. The City of Newberg is not a party to the agreement, and the Planning Commission should refrain from attempting to implement, enforce or otherwise rely on the agreement in the course of this quasi-judicial application.



Access to Crestview Drive

The Oxberg Lake neighbors argue the application cannot be approved because an access permit to Crestview Drive has not been obtained, and because the six party agreement makes it unlikely such a permit could be obtained. These arguments are without merit.

First, NDC 15.505.030.R.9 only governs private sidewalk and driveway access to county right-of-way. See NDC 15.05.030. This application does not propose private access, but rather a connection of city right-of-way to county right-of-way.

Moreover, the Newberg Transportation System Plan clearly shows the proposed extension of Crestview Dr. through the property to Hwy 99W. The extension is identified as Expansion Project E14 on Figure 24: Roadway Expansion Projects, where it is classified as a "Likely Funded Project". The Crestview Dr. Extension is also listed on Table 6: Transportation Improvement Projects, where it is classified as a "project that would add capacity to the transportation system". Where the extension meets Hwy 99W, the intersection is identified as Intersection Project I12 on Figure 26: Intersection Projects, where it is classified as "Likely Funded". The Crestview Dr. and Hwy 99W intersection is also listed on Table 6: Transportation Improvement Projects, where it is also classified as a "project that would add capacity to the transportation system."

The Crestview Dr. extension is not only feasible, it is mandated by the Transportation System Plan. Any argument to the contrary mistakenly conflates the code requirement for private driveway permits with the extension of a public right-of-way, and is not supported by substantial evidence. This project does not include any private access to county right-of-way, and therefore NDC 15.505.030.R.9 does not apply.

Response to Other Neighbor Comments

Several residents of the rural residential Oxberg Lake subdivision submitted comments, which are addressed in the responses to comments made through their attorney, Mr. Kleinman. Other interested neighbors commented as well. Cooper Foushee wrote to say the "houses on the backend of the lot shouldn't be built and the natural trees should be kept and uses for a walking trail." The north edge of the site is zoned for residential use and will be developed for that purpose. Terry Coss indicates that the highest and best use of the property would be a condominium type retirement village, and that the city could trade a portion of the park on Vittoria for wetlands. A condominium type retirement village could possibly be developed on the remaining commercial portion of the site, and the development team has not received any indication of support from the City for the land swap concept. Beth Bernier, a neighbor to the northwest, is primarily concerned about visual impacts, and a landscaped buffer is being provided behind lots 245 through 248 where the project meets the Bernier property.



Conditions of Approval

The staff report correctly finds that this very large application satisfies all the criteria, and spells out 58 specific conditions, plus specifications for the timing and content of future permits and documentation. The applicant agrees with the vast majority of the proposed conditions. As is customary on a project of this scope, there are several that could benefit from refinement. These are described in the attached Revisions to Conditions of Approval, and we ask the Planning Commission to adopt the revised conditions in the attachment.

Conclusion

We thank the Planning Commission for taking the time to analyze and weigh the large volume of information regarding Crestview Crossing. We recognize the importance of this large site at the gateway to Newberg, and respect your responsibility to ensure its successful development. In the end, we know the staff conclusion is correct, and trust that you will agree.

Very truly yours,

JORDAN RAMIS, PC

James D. Howsley

Admitted in Oregon and Washington Jamie.howsley@jordanramis.com

OR Direct Dial (503) 598-5590

WA Direct Dial (360) 567-3913

Roadways

Within Newberg, roadways are under the jurisdiction of the City, Yamhill County and ODOT. Roadways are organized by **functional classifications**, which provide a hierarchy of intended purposes (as shown in Figure 8). Roadways with a higher intended usage generally have a classification and related standards that promote more efficient vehicle movement through the City, while roadways with lower intended usage are classified to provide greater access to local destinations such as businesses or residences.

The City of Newberg has two classifications for arterials: Major Arterials and Minor Arterials. The only Major Arterial in the city is Highway 99W. Highway 99W has by far the highest traffic volumes in Newberg. Some of the Minor Arterials in Newberg are OR 219, Springbrook Drive, Mountainview Drive, and OR 240. These Minor Arterials also carry some of the higher volumes of any roadway in the city and are used by residents to connect to locations outside the city, as

well as provide major connections within the city. The posted speed limits on along arterials in Newberg vary from 55 miles per hour as you enter to the city to as low as 25 miles per hour through the downtown core.

Roadways that connect neighborhoods and major activity generators to arterials are generally classified as collectors. They provide greater accessibility to neighborhoods than arterials and provide moderately efficient



Traffic on 99W During the PM Peak

through movement for local traffic. The City of Newberg has two classifications for collectors: Major Collectors and Minor Collectors. Villa Road and Haworth Avenue are examples of Major Collector streets that provide connections between the commercial areas of town and the neighborhoods. Collectors have a posted speed of 25 miles per hour within Newberg.

Roadways that provide more direct access to residences are typically classified as local streets. This classification is typically a low volume street, often lined with residences. All local City streets are posted at 25 miles per hour.

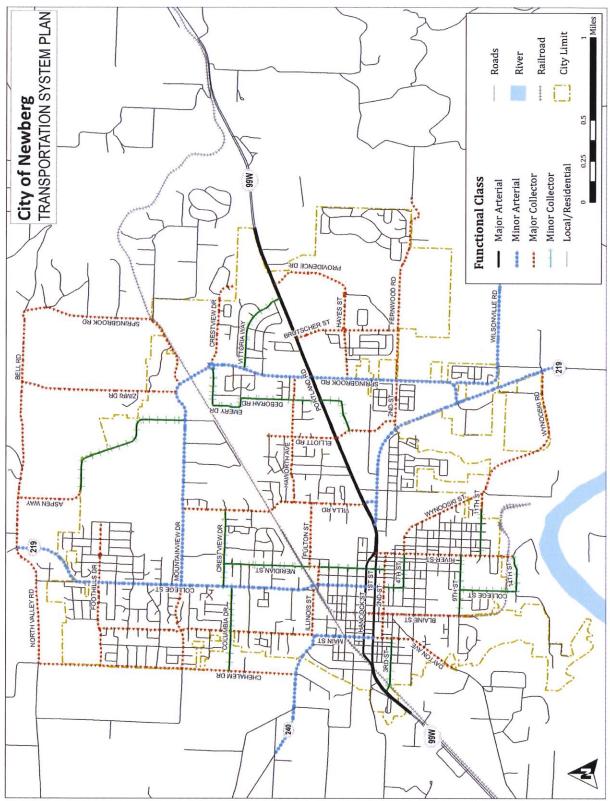


Figure 14: Functional Class Map

Condition A.2 require trees retention along the north edge of the site, in the same location where a privacy wall and stormwater improvements are planned. These items inherently conflict. As written, the condition is subjective, and therefore confusing. We request a change to A.2 as follows.

A.2 In compliance with Resolution 2006-15, the applicant shall retain as many mature trees as possible within ten feet (10') of the north property boundary. Tree removal as necessary to construct the boundary wall and stormwater improvements is allowed. The applicant shall supplement the tree buffer with new trees where necessary to provide a continuous vegetative buffer.

Condition B.1 requires the private street sidewalks to be five feet wide as shown on the cross section detail on sheet C300. We propose the following clarification:

B.1 The applicant shall follow the city engineer requirement for sidewalks along private streets to be 5-feet wide, with a 12 inch wide, six inch high mountable curb. The private street width shall be measured from the back of the 12 in curb.

Condition B.7 requires the Crestview Dr. extension to be built to collector street standards, which will provide capacity for the northeast area of the city. It is TSP Project E14 and a "qualified public improvement" under NMC 13.050.130, and SDC creditable. The condition should be revised to add a sentence to the end, as follows.

B.7 The E Crestview Drive roadway is to consist of the following: 1-foot from back of walk to right-of-way, 5-foot sidewalk, 5.5-foot planter*, 0.5-foot curb, 6-foot bike lane, 12-foot travel lane, 12-foot travel lane, 6-foot bike lane, 0.5-foot curb, 5.5-foot planter, 5-foot sidewalk, 1- foot from back of walk to right-of-way. The applicant is required to dedicate sufficient right-of-way (minimum of 60-feet) to construct E Crestview Drive, to construct a roundabout meeting FHWA Standards at the E Crestview Drive/Public Street B intersection, and to construct improvements related to modifying the traffic signal at the E Crestview Drive/Providence Drive/E Portland Road intersection meeting City of Newberg, Yamhill County, and Oregon Department of Transportation requirements. Improvements related to the upsizing of Crestview Dr to collector standards shall be eligible for SDC credits.

Condition B.11 is for widening of Portland Road, a major arterial, where it meets a collector street, Crestview Dr. As noted in the TSP, this improvement adds capacity to the transportation system, and is TSP Project S36. Because it adds surplus capacity to the transportation system beyond what is required for Crestview Crossing, it is eligible for partial SDC credits. The condition should be revised to add a sentence to the end, as follows.

536 \$ 270,000 28.40% SDL weditable

B.11 The applicant will be required to dedicate additional right-of-way on E Portland Road necessary to meets requirements set forth by the Oregon Department of Transportation to meet Highway Design Manual standards to construct the westbound right-turn lane. The widening improvement for the turn lane shall be eligible for partial SDC credits.

Condition B.16 requires a 6 foot bike lane along Portland Rd, a major arterial. As noted in the TSP, this improvement adds capacity to the transportation system, and is TSP Project S36. The capacity increase is SDC creditable. The condition should be revised to add a sentence to the end, as follows.

B.16 The applicant is required to install a 6-foot bike lane along E Portland Road to match the City's Transportation System Plan cross-section. The bike lane improvement shall be eligible for SDC credits.

Condition B.17 is for center turn lanes at the Crestview Dr. and Portland Rd intersection. This capacity upgrade exceeds what is necessary for Crestview Crossing and thus is SDC creditable. The condition should be revised to add a sentence to the end, as follows.

\$\mathbb{T} 12 - \frac{4}{380}_{1000} \quad 33.66% \text{elidgible} - north \leq \quad improvement only

B.17 The City will require the southbound and northbound center turn lanes at the E Crestview Drive/E Portland Drive intersection to be a minimum of 12-feet wide. The turn lanes for this intersection of a collector with an arterial shall be eligible for SDC credits.

Condition B.29 is for extension of the city's non-potable water system. This public improvement will provide extra capacity for the system, and is a "qualified public improvement" under NMC 13.050.130 and SDC creditable. The condition should be revised to add a sentence confirming SDC creditability, as follows.

B.29 The applicant will need to submit construction plans and obtain a Public Improvement Permit to install the water system and non-potable water system pursuant to the requirements of the City's Public Works Design and Construction Standards. Utility designs and alignments will be reviewed as part of the Public Improvement Permit. Non-potable water lines are required in public streets and may be required in private streets to provide non-potable water to any landscaping area maintained by the PUD. Improvements related to the upsizing of the non-potable water system beyond the irrigation requirements for public right-of-way irrigation within Crestview Crossing shall be eligible for SDC credits.

Condition B.31 regards the Fernwood Road pump station and other off-site sanitary sewer infrastructure that will increase capacity for service of other properties in the future. The improvements include Wastewater Master Plan Project C3.c and thus are a "qualified public improvement" under NMC 13.050.130 and SDC creditable. The condition should be revised to add a sentence confirming SDC creditability, as follows.

B.31 The applicant will be required to conduct a sewer sizing analysis that includes the upstream basin, verify the capacity of the Fernwood Road sanitary sewer pump and upsize if necessary, evaluate downstream impacts, submit construction plans, and obtain a Public Improvement Permit to install the wastewater system pursuant to the requirements of the City's Design and Construction Standards. Utility designs and alignments will be reviewed as part of the Public Improvement Permit. Any improvements related to the upsizing of infrastructure to the Fernwood Road facilities which exceed the capacity required for Crestview Crossing shall be eligible for SDC credits.

Condition B-38 requires permanent maintenance access via a paved road within 10 feet of stormwater facility structures within the stormwater tracts. The site design allows storm control manholes, where maintenance primarily occurs, to be located within 10-feet of paved access. The condition can be changed to:

B.38 Permanent maintenance access via a paved road within 10 feet of stormwater control manholes is required. Revise to 4.6.6. VI. If $\gamma \omega D C \varsigma$

Condition D1 allows just one year to achieve final plan submittal. Due to the scale and phasing of Crestview Crossing, this condition should be revised to 3 years.

And the state of t

Keith Leonard

From:

Jamie Howsley < jamie.howsley@jordanramis.com>

Sent:

Friday, September 28, 2018 10:22 AM

To:

Keith Leonard; Doug Rux; Kleinmanjl

Cc:

Joseph Schaefer; Jesse Nemec; Aaron Murphy; Andrew Tull; Diego Arguea; Matt

Hughart; Kristen Svicarovich; Brett Musick

Subject:

Kittelson Memo

Attachments:

21709traffic calming_final.pdf

Keith, Doug and Jeff:

Here is the Memorandum from Kittelson that you requested. Kittelson made one change per Jeff's request which is reflected in the document. Jeff can confirm this is where we landed.

Please let me know if there is anything else you need. I will be around at my desk all day today. 360-567-3913. And again thank you for your patience while the parties work getting alignment.

Best,

Jamie

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Date: September 27, 2018 Project #: 21709

To: Jamie Howsley, Jordan Ramis PC

From: Diego Arguea, P.E. and Matt Hughart, AICP
Project: Crestview Crossing Residential Development

Subject: Planning Commission Hearing Response – Traffic Calming

In accordance with the request from the representatives of the Oxberg Lake Estates neighborhood association, this memorandum confirms the agreed-upon traffic calming treatment for the new section of Crestview Drive, to be constructed between Highway 99W and the Oxberg Lake Estates neighborhood.

PROPOSED TRAFFIC CALMING

National transportation resources, federal research, and industry-standard guidebooks¹ indicate that the presence of the following roadway features can reduce vehicular travel speeds in certain applications::

- Presence of bicycle lanes;
- Sidewalk and landscape strip;
- Street trees;
- Buildings and lot lines against the edge of the right-of-way; and,
- Crosswalk striping.

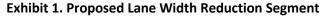
The above elements are all design features of Newberg's Collector roadway standard and have been included in the design of Crestview Drive through the proposed Crestview Crossing development.

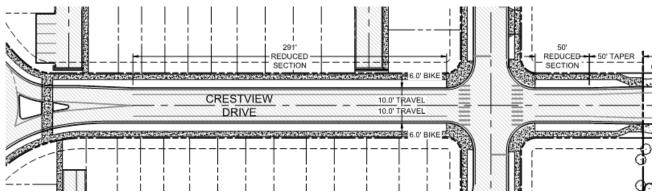
Testimony provided by representatives of Oxberg Lake Estates at the September 13, 2018 Planning Commission Hearing included the desire to provide additional traffic calming between the proposed Crestview Drive roundabout and the north property boundary of the Crestview Crossing development. Various traffic calming treatments were identified as acceptable such as curb extensions, narrower travel lanes, and median islands.

¹ Federal Highway Administration (FHWA), American Association of State Highway Officials (AASHTO), National Association of City Transportation Officials (NACTO), United States Department of Transportation (USDOT)

To accommodate this request, the Crestview Crossing development team proposed to narrow the northbound and southbound Crestview Crossing travel lanes from 12 feet to 10 feet². In subsequent testimony, the Oxberg Lakes Estates representatives agreed that narrowing the travel lane width from 12 feet to 10 feet meets the traffic calming intent of the 6-Party Agreement. City of Newberg staff corroborated the traffic calming design approach and its applicability to meeting the intent of the 6-Party Agreement.

A graphical illustration of the proposed Crestview Drive roadway segment with the narrower 10-foot travel lanes is provided in Exhibit 1 below.





The proposed design shown in Exhibit 1 is consistent with the agreed-upon approach by City of Newberg, Mr. Christopher Clemow, and Mr. Jeffrey Kleinman.

Further, the approach has been validated and is recommended by agencies and experts in the transportation industry:

"Lane widths of 10 feet are appropriate in urban areas and have a positive impact on a street's safety without impacting traffic operations." -NACTO

"Especially in residential areas, wide streets may not be necessary or desirable. Wide traffic lanes encourage faster motor vehicle speeds. Consideration should be given to the review of cross-sections for all street classifications to determine whether roadway lane widths can be reduced

Kittelson & Associates, Inc. Portland, Oregon

-

² Curb extensions and median islands were also reviewed and by the Crestview Crossing development team. Curb extensions were not considered an appropriate design treatment as on-street parking is not being proposed along the planned extension of Crestview Crossing. Median treatments were not considered further as it was determined that the existing proposed width of Crestview Crossing and other design treatments would adequately address the desire for additional traffic calming.

(within AASHTO guidelines) so more area can be dedicated to bicycle and pedestrian use and associated traffic calming facilities." -FHWA

"...a reduction in the width or number of vehicular travel lanes and reallocate that space for other uses such as bicycle lanes, pedestrian crossing islands..." -USDOT

The proposed design of Crestview Drive and the reduction in typical lane width thus provides the traffic calming design elements that meet the desires of the neighbors of the Oxberg Lake Estates to "be designed to encourage a 25 mile-per-hour speed limit" per the language in the 6-Party Agreement (Reference 1, Page 2).

SUPPLEMENTAL EMPIRICAL SPEED DATA

The existing mini-roundabout at Robin Court, shown in Exhibit 2 below, is anticipated to have a traffic calming effect on future northbound traffic on the new segment of Crestview Drive prior to entering the Oxberg Lake Estates neighborhood.

The northbound lane approaching this mini-roundabout is approximately 12 feet wide with bicycle lanes and sidewalks. The distance from the property line to the south and the entrance to this mini-roundabout is approximately 240 feet, also shown in Exhibit 2.

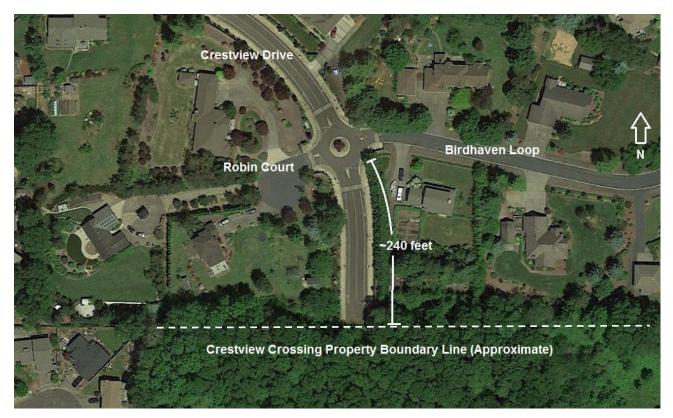


Exhibit 2. Crestview Drive and Crestview Crossing Property Boundary

Kittelson & Associates, Inc. Portland, Oregon

As shown above, this segment of Crestview Crossing has been constructed and is located outside of the Applicant's property.

To quantify the potential traffic calming effect of this existing mini-roundabout, a speed study was conducted at a nearby location with an identical traffic calming treatment and similar roadway characteristics. This location, also along Crestview Drive, includes 12-foot wide lanes with bicycle lanes and sidewalks.

Travel speeds were observed for every motor vehicle for a period of 24 hours during a typical mid-week day in September 2018 at the following two locations on Crestview Drive:

- 1. Location A: Approximately 50 feet east of the Westlake Loop (13-foot lane width); and,
- 2. Location B: Approximately 50 feet west of the entrance to the mini-roundabout at Birdhaven Loop (12-foot lane width).

These locations are shown below in Exhibit 3.

Exhibit 3. Speed Observation Locations and 85th Percentile Speed



Also highlighted in Exhibit 3 are the observed 85th percentile speeds over the course of the surveyed 24-hour period. The 85th percentile speed represents the speed at or below which 85 percent of all vehicles are observed to travel under free-flowing conditions past a monitored point and is measurement typically used when documenting travel speeds. As shown, the 85th percentile speed reduces from 30 miles per hour to 22 miles per hour upon approaching the mini-roundabout.

The complete data is summarized below in Table 1 and the raw data is included as an attachment to this memorandum.

Kittelson & Associates, Inc. Portland, Oregon

Table 1 Speed Observation Summary

Location	Direction of Travel	Average Speed (MPH)	85 th Percentile Speed (MPH)
Lacation A. FO fact and of the Westlelia Laca	Eastbound	25 MPH	30 MPH
Location A: 50 feet east of the Westlake Loop	Westbound	26 MPH	33 MPH
Location B: Approximately 50 feet west of the entrance	Eastbound	17 MPH	22 MPH
to the mini-roundabout at Birdhaven Loop	Westbound	18 MPH	22 MPH

SUMMARY

The existing mini-roundabout constructed at the Crestview Drive/Robin Court intersection (shown in Exhibit 2) is expected to have similar traffic calming on future northbound traffic as those measured at a nearly identical location nearby (summarized in Exhibit 3 and Table 1). The 240-foot segment shown in Exhibit 2 is located between the existing traffic calming mini-roundabout at Robin Court and the proposed 10-foot wide narrow section of the new Crestview Drive designed as a Collector Roadway.

We trust this memorandum adequately documents that the existing and proposed geometric features along Crestview Drive supports the traffic calming desired by the Oxberg Lake Estates residents and the representative land use attorney and traffic engineer.

REFERENCES

 City of Newberg, Yamhill County, Oxberg Lake Homeowners Association, Ken and Joan Austin, JT Smith Companies, MeadowWood Development LLC. 6-Party Agreement. Yamhill County Board of Commissioners, Board Order 06-265. April 19, 2006.

ATTACHMENT

24-hour Speed Study Data



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7:00 AM	0	2	1	0	0	0	0	0	0	0	0	0	0	0		3	16-25	3
8:00 AM	3	3	1	0	0	0	0	0	0	0	0	0	0	0		7	11-20	4
9:00 AM	2	7	2	1	0	0	0	0	0	0	0	0	0	0		12	16-25	8
10:00 AM	2	3	0	0	0	0	0	0	0	0	0	0	0	0		5	15-24	3
11:00 AM	1	2	0	0	0	0	0	0	0	0	0	0	0	0		3	15-24	2
12:00 PM	1	3	4	0	0	0	0	0	0	0	0	0	0	0		8	16-25	7
1:00 PM	4	5	2	0	0	0	0	0	0	0	0	0	0	0		11	16-25	7
2:00 PM	3	3	1	0	0	0	0	0	0	0	0	0	0	0	-de-	7	11-20	4
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4:00 PM	0	2	3	0	0	0	0	0	0	0	0	0	0	0		5	18-27	4
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8:00 PM	0	5	1	0	0	0	0	0	0	0	0	0	0	0		6	16-25	5
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1:00 PM	0	0	1	1	2	0	0	0	0	0	0	0	0	0		4	26-35	3
2:00 PM	1	1	3	3	2	2	0	0	0	0	0	0	0	0		12	26-35	5
3:00 PM	0	0	1	1	1	1	1	0	0	0	0	0	0	0	77	5	36-45	2
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3:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	1-10	0
4:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0		1	21-30	1
5:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	1-10	0
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	0	1	1	2	0	0	0	0	0	0 0	0 0	0	0	0		11	21-30	8
10:00 AM 11:00 AM	0	2 0	3	2	0	0	0	0	0	0	0	0 0	0	0		5 3	21-30 16-25	3
12:00 PM	0	1	1	3	3	0	0	0	0	0	0	0	0	0		ა 8	27-36	5
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2:00 PM	1	1	2	4	0	1	0	0	0	0	0	0	0	0	127	9	21-30	6
3:00 PM	0	0	4	10	2	1	0	0	0	0	0	0	0	0	1-1-0	17	21-30	14
4:00 PM	0	0	1	3	1	0	0	0	0	0	0	0	0	0		5	21-30	4
5:00 PM	0	1	1	6	3	0	0	0	0	0	0	0	0	0		11	26-35	9
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7:00 PM	0	0	1	2	1	0	0	0	0	0	0	0	0	0		4	26-35	3
8:00 PM	0	0	3	2	1	0	0	0	0	0	0	0	0	0		6	21-30	5
9:00 PM	0	0	2	2	Ö	0	1	0	0	0	0	0	0	0		5	21-30	4
10:00 PM	0	0	0	2	0	0	0	0	0	0	0	0	0	0		2	21-30	2
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Percent	4.2%	7.6%	28.8%	44.1%	11.0%	3.4%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
Cumulative																		
Percent	4.2%	11.9%	40.7%	84.7%	95.8%	99.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%				
ADT 118																	5th Percent	
Comments:																		an 26 MPH de: 28 MPH



Attachment 2: Agency Comments

Keith Leonard

From:

CARY Dan <dan.cary@state.or.us>

Sent:

Monday, July 30, 2018 1:54 PM

To:

Keith Leonard

Cc:

Doug Rux; BROWN Jevra

Subject:

RE: File No.PUD18-0001/CUP18-0004 Yamhill County Tax Map and Lot Numbers

3216-13800 & 3216-01100

Keith,

I am told by the applicant that there is a new revised application coming but I have not seen it. I am not reviewing any application at this time. They are in an extension of my permit decision deadline until August 31, 2018. They will likely need to request another extension to maintain this file number since I still haven't received a new application. From the informal plans I have seen the project has changed significantly and it will go back out for public review and restart the clock for the whole process when I get a complete application. That is all I have.

Dan

Dan Cary, PWS
Aquatic Resource Coordinator Columbia and Clatsop Counties
Aquatic Resource Management Program
Oregon Department of State Lands
775 Summer Street NE, Suite 100
Salem OR 97301-1279

Phone: (503) 986-5302

DSL websites: www.oregon.gov/dsl; www.statelandsonline.com

From: BROWN Jevra

Sent: Monday, July 30, 2018 12:11 PM

To: 'Keith Leonard' **Cc:** CARY Dan; Doug Rux

Subject: RE: File No.PUD18-0001/CUP18-0004 Yamhill County Tax Map and Lot Numbers 3216-13800 & 3216-01100

WD2013-0148, delineation, is for tax lots 1100 & 13800. This is still active for a few more months. Technically delineations expire after five years unless 1) there is a request for reissuance within one year of the expiration date (November 8, 2018) or 2) it is associated with an active authorization.

From there I leave it to Dan...

Jevra Brown, Aquatic Resource Planner

Department of State Lands

Office 503-986-5297 (M, T, W); cell: 503-580-3172 (Th, F); fax 503-378-4844

jevra.brown@state.or.us http://www.oregon.gov/DSL/pages/index.aspx

Messages to and from this e-mail address may be available to the public under Oregon Public Record Law.

From: Keith Leonard < Keith. Leonard@newbergoregon.gov >

Sent: Friday, July 27, 2018 6:00 AM

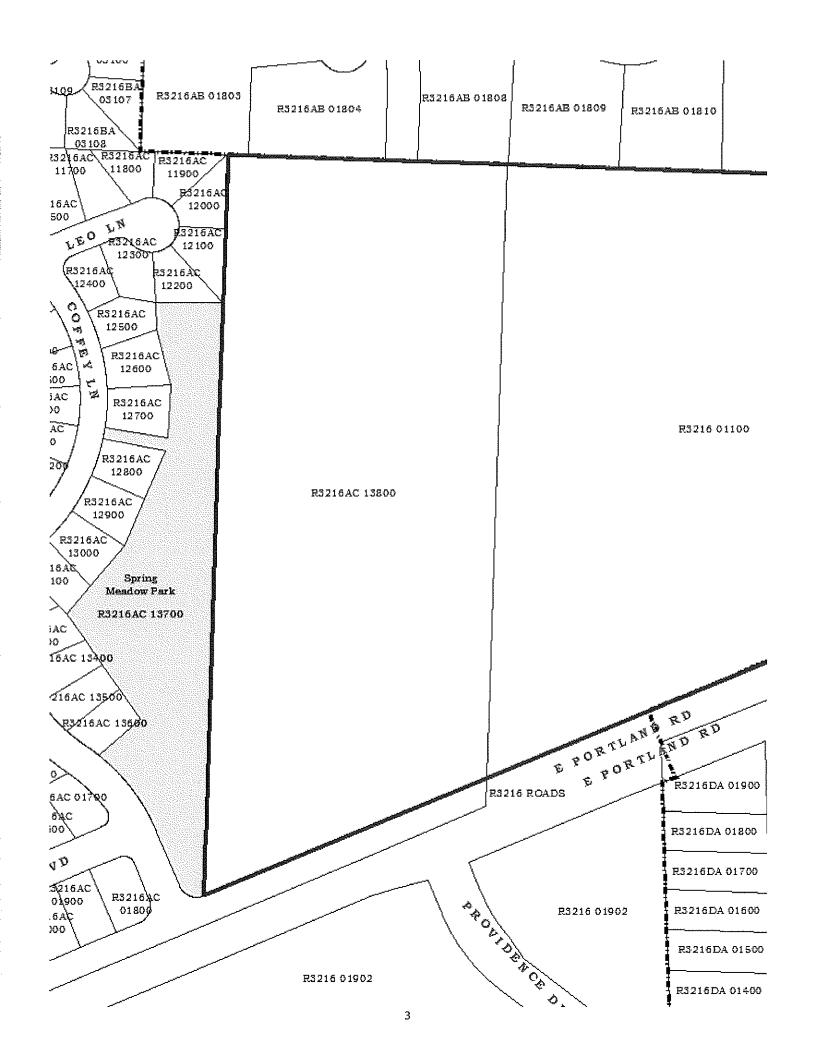
To: BROWN Jevra <jevra.brown@dsl.state.or.us>

Cc: CARY Dan < dan.cary@dsl.state.or.us >; Doug Rux < Doug.Rux@newbergoregon.gov >

Subject: RE: File No.PUD18-0001/CUP18-0004 Yamhill County Tax Map and Lot Numbers 3216-13800 & 3216-01100

Hello,

To verify, the property owner does not have a wetlands delineation permit in review for either tax lots 1100 or 13800 due to expiration? Please let me know what time would be good to call Mr. Cary. I am in the office and would like to talk to you regarding this project. Thanks!



Keith Leonard, AICP | Associate Planner City of Newberg (503) 537-1215 keith.leonard@newbergoregon.gov



From: BROWN Jevra [mailto:jevra.brown@state.or.us]

Sent: Thursday, July 26, 2018 6:36 PM

To: Keith Leonard < Keith. Leonard@newbergoregon.gov >

Cc: CARY Dan < dan.cary@state.or.us>

Subject: File No.PUD18-0001/CUP18-0004 Yamhill County Tax Map and Lot Numbers 3216-13800 & 3216-01100

RE https://www.newbergoregon.gov/cd/page/crestview-crossing-planned-unit-development

Hi Keith.

A database search returned the following:

Expired delineation WD2000-0260 for tax lot 1100

Expired delineation WD2006-0698 associated with administratively closed permits 40337-RF and 48735-RF for Crestview Crossing – Part I.

Crestview Crossing – Part 2 WD2013-0148, administratively closed application 57027-RF, 58464-RF application on extension.

No Wetland Land Use Notices

Dan Cary is reviewing the permit, I have copied him if you have questions. You may check the status of permits and delineations in review here: http://www.statelandsonline.com/index.cfm?fuseaction=Home.home

Best,

Jevra Brown, Aquatic Resource Planner
Planning and Policy Unit, Aquatic Resource Management Program
Department of State Lands
775 Summer St. NE Suite 100, Salem, Oregon, 97301
Office (M-W) 503-986-5297; cell (Th-F) 503-580-3172; fax 503-378-4844
jevra.brown@state.or.us

http://www.oregon.gov/DSL/pages/index.aspx

Messages to and from this e-mail address may be available to the public under Oregon Public Record Law.

City of Newberg 414 E. First Street P.O. Box 970 Newberg, OR 97132



City Manager (503) 538-9421 (503) 538-5013 Fax

Community Development Department - Planning Division

P.O. Box 970 - 414 E. First Street - Newberg, Oregon 97132 - (503) 537-1240 - Fax (503) 537-1272

REFERRAL TO: PGE, Service & Design

The enclosed material has been referred to you for your information and comment. Any comments you wish to make should be returned to the Community Development Department prior to <u>July 20, 2018</u>. Please refer questions and comments to Keith Leonard.

questions and comments	s to Keith Leonard.
NOTE: Full size plans	are available at the Community Development Department Office.
APPLICANT:	3J Consulting, Inc., Andrew Tull
REQUEST:	Crestview Crossing Planned Unit Development & Conditional Use Permit
SITE ADDRESS:	4505 E Portland Rd
LOCATION:	Newberg
TAX LOT:	R3216 01100
FILE NO:	PUD18-0001 / CUP18-0004
ZONE:	COM, MDR, LDR
HEARING DATE:	08/09/2018
Require additio Meeting reques	ommend denial for the following reasons: nal information to review. (Please list information required)
Our s	Schilles 7/19/18
Reviewe	d By: Date:

Keith Leonard

From:

Rick Schiedler < Rick.Schiedler@pgn.com>

Sent:

Tuesday, July 24, 2018 12:58 PM

To:

Keith Leonard

Subject:

RE: Crestview Crossing-Newberg

Keith,

Tell them that they need 10 ft. PUEs along all street frontages.

Thanks Rick

From: Keith Leonard [mailto:Keith.Leonard@newbergoregon.gov]

Sent: Thursday, July 19, 2018 2:55 PM

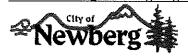
To: Rick Schiedler

Subject: RE: Crestview Crossing-Newberg

Please take care when opening links, attachments or responding to this email as it originated outside of PGE.

Thank you! I have forwarded your comment to the applicant, I see they have 8' PUEs along internal streets.

Keith Leonard, AICP | Associate Planner City of Newberg (503) 537-1215 keith.leonard@newbergoregon.gov



From: Rick Schiedler [mailto:Rick.Schiedler@pgn.com]

Sent: Thursday, July 19, 2018 1:55 PM

To: Keith Leonard < Keith.Leonard@newbergoregon.gov >

Subject: Crestview Crossing-Newberg

Keith Leonard

From:

FRICKE Daniel L < Daniel.L.FRICKE@odot.state.or.us>

Sent:

Monday, July 23, 2018 8:21 AM

To:

Keith Leonard

Cc:

KNECHT Casey; EARL Robert

Subject:

ODOT Comments on PUD 18-0001/CUP 18-0004 - Crestview Crossing

Attachments:

Crestview Crossing (Newberg) - ODOT TIA Review Comments

Keith -

Thank you for providing the Oregon Department of Transportation (ODOT) with an opportunity to review and comment on the subject application. The project site fronts on OR 99W and proposes to connect a new city street (Crestview Drive) to the highway at the existing signalized intersection at Providence Drive. ODOT staff have reviewed the project plans and the transportation impact analysis that have been submitted to the city. Our comments and recommendations are as follows.

TIA Review

The TIA has been reviewed by Region 2 Traffic – comments and recommendations are in included in the attached document. Questions on the TIA comments should be directed to Fahad Alhajri (503-986-2996 or fahad.alhajri@odot.state.or.us). Note that ODOT supports all improvements identified in the TIA necessary to meet operational standards.

Roadway Improvements

The following roadway improvements have been identified

- Installation of a westbound right-turn deceleration lane on OR 99W approaching Crestview Drive
- At the northeast corner of the OR 99W/Crestview Drive intersection, the sidewalk will need to connect to the highway shoulder with an "End of Walk" ADA compliant connection (ODOT Standard Drawing RD 754).
- The crosswalk on the east leg of the intersection (across OR 99W) must be reinstalled along with appropriate modifications to the traffic signal (signal modifications are addressed in more detail below)
- The required roadway and signal improvements will trigger the need to assess all curb ramps and push buttons at OR 99W/Crestview Drive. Any non-compliant curb ramps shall be remediated to meet State ADA standards.

The following condition of approval is proposed to address required roadway improvements:

Prior to the issuance of the first grading or building permit, the applicant shall submit plans and specifications for all improvements/construction within ODOT right-of-way for review and approval by ODOT District 3 and issuance of a permit to construct within ODOT right-of-way. ODOT shall certify that all construction activities have been completed pursuant to the approved plans and specifications prior to the issuance of the first certificate of use and occupancy, or the city's equivalent.

Signal Modifications

It is likely that the entire signal installation will need to be replaced to accommodate the Crestview Drive leg being added to the existing intersection. The following is a list of the minimum modifications that are anticipated to be necessary:

- The existing signal poles on the north side of the intersection will need to be replaced to accommodate the new Crestview Drive
- A new mast arm will be needed in the southwest quadrant of the intersection to signalize the new Crestview Drive leg.
- New pedestrian signal and push-button pedestal for the pedestrian crossing on the east leg of the intersection.

 New detection will be needed depending on how new ADA ramps affect crosswalk locations (note that Region 2 is using radar detection)

The following condition if approval is proposed to address the required signal modification:

Prior to issuance of the first grading or building permit, the applicant shall submit signal modification plans for the review of the ODOT Region 2 Traffic Engineer and the review and approval of the State Traffic Engineer. ODOT shall certify that all required signal modifications have been completed and the signal operational prior to the issuance of the first certificate of use and occupancy, or the city's equivalent.

This should be included in the record as ODOT testimony. ODOT should be considered a party to the hearing and be entitled to notices of future hearings, or hearing continuances or extensions. Please provide me with a copy of the City's decision, including findings and conditions of approval.

Dan Fricke, Senior Transportation Planner Oregon Department of Transportation Region 2

455 Airport Road SE Building B Salem, OR 97301-5395 Ph: 503-986-2663

e-mail: daniel.l.fricke@odot.state.or.us



Department of Transportation Region 2 Tech Center

455 Airport Road SE, Building A Salem, Oregon 97301-5397 Telephone (503) 986-2990 Fax (503) 986-2839

DATE:

July 19, 2018

TO:

Dan Fricke

Region 2 Senior Planner

FROM:

Fahad Alhajri, E.I.T.

Región 2 Traffic Analyst

SUBJECT:

Crestview Crossing (Newberg) - Outright Use

TIA Review Comments

ODOT Region 2 Traffic has completed our review of the submitted traffic impact analysis (dated June 2018) to address traffic impacts due to development of a 33.13-acre property consisting of 260 single family homes and 48 apartment units in Newberg. The property is located north of OR 99W between Vittoria Way and Benjamin Road. The TIA will be reviewed with respect to consistency and compliance with current versions of ODOT's *Analysis Procedures Manual (APM)*. Both versions of the *APM* were most recently updated in January 2018. Current versions are consistently published online at: http://www.oregon.gov/ODOT/TD/TP/Pages/APM.aspx. As a result, we submit the following comments for the consideration of Region Development Review and the City:

Analysis items to note:

- This study has utilized Highway Capacity Software (HCS) 2010 version 6.9 for roundabout analysis. However, a newer version HCS 7 is available and utilizes the updated Highway Capacity Manual Methodology for roundabouts.
- Region Traffic assumes all land uses and densities offered under the current zones are consistent with the City's code as cited in the report.

Analysis items to be addressed:

- 1. Page 16, Saturation Flow Rate The base saturation flow rate was calibrated to 1,800 pcphgl, a saturation flow rate study in compliance with the guidelines within the HCM was not provided to justify the use of a higher saturation rate.
- 2. Page 19, In-process trips ODOT received a TIA for Providence Medical Office Building (63,000 square-feet) located just south of the OR 99W/Providence Dr.

- intersection and is anticipated to be constructed/occupied by year 2019. Applicant should verify with the City of Newberg that no further developments have been approved at the time of application.
- 3. Per Figure 5, A two percent annual growth rate was not applied at intersection #7. This will unlikely have impact on conclusion of the study.
- 4. Figure 7, intersection #7 ODOT will not run analyses with zero vehicles making available permitted movements. Rather, if count data does not identify any vehicles within the peak hour making a movement, we recommend assuming a low volume (1 or 2) rather than zero. The algorithms within Synchro utilize different formulas if there are zero conflicting vehicles.
- 5. Synchro, Benjamin Rd/OR 99W Background condition (year 2020) The PM peak hour eastbound through movement volume is 1414 rather than 1441.
- 6. Page 25, Table 4 per the Institute of Transportation Engineers (ITE), the proposed weekday trip generation for "Multifamily Housing" (ITE land use code 220) is 323 rather than 1,622.
- 7. Figure 9, The trip distribution pattern of 15 percent arriving/departing to the east of OR 99W appears to be significantly low when taken into account the reassigned traffic volumes in Figure 6.
 - According to Figure 6, at Springbrook Rd/Crestview intersection nearly half of traffic (AM peak 204 of 349) was rerouted to Libra St/Crestview Dr., then to Crestview Dr./East-West Connector and finally east from OR 99W/Providence. It appears that there is a greater than 15 percent demand for travel to/from east on OR 99W.
- 8. Pages 31-32, Table 5 When reporting the queue lengths, the reported values should be conservatively rounded **up** to the next 25 feet.
 - Additionally, the reported storage lengths in Table 5 should be consistent with the values modeled in SimTraffic.
- 9. Per Development Review Guidelines (Chapter 3, Section 3.3), the analysis should evaluate impacts 5 years out from opening year in addition to opening year. Therefore, the analysis shall evaluate impacts for year 2025.

Application for State Highway Approach comments:

10. Per 2016 SPIS Report, the intersection of OR 99W and Providence Road is no longer a top 5% SPIS site.

Proposed mitigation comments:

- 11. ODOT maintains jurisdiction of Pacific West Highway No. 91 (OR 99W) and ODOT approval shall be required for all proposed mitigation measures to this facility.
- 12. All proposed intersection and/or signal modifications (new installations or changes to existing phasing or timing), changes to lane configuration, and additional turn or

receiving lanes will require ODOT approval. Both the City and the applicant shall be aware no approval for any proposed mitigations have been issued at this time and proposed mitigations shall not be considered approved for installation until formal written approval has been issued. Approval request will need to be submitted to Region 2 Traffic and be accompanied by the appropriate analysis justifying such request. The approval process takes time and any approval could possibly have added features required to obtain such approval.

13. Reconfiguring the northbound Providence Drive approach to include an exclusive left, exclusive thru and exclusive right lanes, will likely not be accomplished by just restriping. Reconstructing the approach might be necessary to accommodate for adequate lane widths.

Thank you for the opportunity to review this traffic impact analysis. As the Synchro files were not provided, Region 2 Traffic has only reviewed the submitted report. The above comments will merit the need for reanalysis, we look forward to a second round of review at which time we will comment on any and all proposed mitigation measures affecting the state highway system. For any questions regarding these comments, please contact me at Fahad.Alhajri@odot.state.or.us or directly at (503) 986-2996.

City of Newberg 414 E. First Street P.O. Box 970 Newberg, OR 97132



City Manager (503) 538-9421 (503) 538-5013 Fax

Community Development Department - Planning Division

P.O. Box 970 - 414 E. First Street - Newberg, Oregon 97132 - (503) 537-1240 - Fax (503) 537-1272

REFERRAL TO: PGE, Service & Design

The enclosed material has been referred to you for your information and comment. Any comments you wish to make should be returned to the Community Development Department prior to <u>July 20, 2018</u>. Please refer questions and comments to Keith Leonard.

questions and comment	s to Keith Leonard.
NOTE: Full size plans	are available at the Community Development Department Office.
APPLICANT:	3J Consulting, Inc., Andrew Tull
REQUEST:	Crestview Crossing Planned Unit Development & Conditional Use Permit
SITE ADDRESS:	4505 E Portland Rd
LOCATION:	Newberg
TAX LOT:	R3216 01100
FILE NO:	PUD18-0001 / CUP18-0004
ZONE:	COM, MDR, LDR
HEARING DATE:	08/09/2018
Require additio Meeting reques Comments. (A	ommend denial for the following reasons: onal information to review. (Please list information required) sted. ttach additional pages as needed) Development cost per current tariff and service requirements. 10' PUE required on all front street lots.
Ohn	Seludles 7/19/18
Reviewe	ed By: Date:



Department of Land Conservation and Development Community Services Division

635 Capitol Street NE, Suite 150 Salem, Oregon 97301-2540

Phone: (503) 373-0050 Fax: (503) 378-5518



September 13, 2018

Newberg Planning Commission City of Newberg 414 E. First St. Newberg, Oregon 97381

RE: Application for Crestview Crossings/Planned Unit Development and Conditional Use Permit (Local File No. PUD18-0001/CUP18-0004)

Submitted Via Email

Dear Newberg Planning Commission Members:

Thank you for the opportunity to comment on the above-referenced application which proposes a mixture of commercial use and a variety of housing including affordable housing units on 33.13 acres of land. We understand that a total of about 300 housing units will be provided once all phases are complete. The Department of Land Conservation and Development encourages cities to approve these types of proposals when they are in accordance with the Newberg Development Code, promote efficient use of land within the urban growth boundary, and provide affordable housing.

The Importance of Needed Housing

Goal 10, the statewide planning goal for housing, identifies "needed housing" as housing types determined to meet the need shown for housing within an urban growth boundary (UGB) at particular price ranges and rent levels. ¹ Oregonians face a wide variety of housing issues as the result of tightening housing markets, stagnant wages, and a shortage of affordable housing units. By providing a mix of housing types at various sizes and densities, and outright affordable housing units, cities can establish whole communities for every stage of life.

¹ OAR 660-008-0000

Multifamily housing, small-lot cottage housing, single-family attached housing, and other alternatives to the detached single family home are many times the best or preferred housing solution for people at different stages in their lives. They provide an important housing option for young people just starting out in a career or saving to buy a home, as well as for senior citizens who no longer care to maintain a single-family home, yet want to remain near their children and grandchildren. In general, many people will find that at some point in their lives they will have a need for an alternative to the detached single family home.

Additionally, providing a variety of housing types is a key component of sustainable growth; by housing more people on less land, these types of housing developments make it possible to preserve more open space and natural features than do detached single-family housing developments. Also, they reduce development pressure on the remaining undeveloped land inside urban growth boundaries and usually require less public infrastructure, including roads, sewer and water pipes, and electricity and gas lines. Higher density types of housing development also make it financially feasible to integrate commercial and retail uses into a neighborhood, therefore creating more complete neighborhoods.

HB 4006 and DLCD Housing Planning

To make an impact on housing affordability, in 2018 the Oregon Legislature allocated \$1.73 million to the Department of Land Conservation and Development for housing planning technical assistance in HB 4006. The bill allocates funding "for the purpose of providing technical assistance to local governments in increasing the affordability of housing." The bill directs the department to give priority to cities over 10,000 population where at least 25 percent of the renter households in the city are "severely rent-burdened." A household is "severely rent-burdened" if the household spends more than 50 percent of the income of the household on gross rent for housing.²

The city of Newberg is one of the cities that this legislation is directly impacting. The program has hired a consultant to conduct a housing needs analysis and to develop a plan for an adequate supply of housing for Newberg, as required by Goal 10. The project will also address affordability measures for its current and future residents. From our reading of the application, the Crestview Crossing development provides some of the housing that is needed for the city today and potentially for a portion of the need for the next 20 years of growth.

Conclusion

In conclusion, it is the policy of the state to ensure that housing options be made available to all citizens of the community. Applications for such housing developments should be approved when such proposals comply with standards set forth in the Newberg Development Code. Please

² US Census Bureau, 2012-2016 5-Year American Community Survey estimates

do not hesitate to contact me if you have any questions. I am available at 503-934-0056 or angela.carnahan@state.or.us.

Regards,

Angela Carnahan

Angela Carnahan Mid-Willamette Valley Regional Representative

cc: Doug Rux, Community Development Director - City of Newberg Gordon Howard, Community Services Division Manager - DLCD Joseph Schaefer, Land Use Planner - Jordan Ramis City of Newberg 414 E. First Street P.O. Box 970 Newberg, OR 97132



City Manager (503) 538-9421 (503) 538-5013 Fax

Community Development Department - Planning Division P.O. Box 970 - 414 E. First Street - Newberg, Oregon 97132 - (503) 537-1240 - Fax (503) 537-1272

REFERRAL To: Portland General Electric Attn: Service and Design

The enclosed material has been referred to you for your information and comment. Any comments you wish to make should be returned to the Community Development Department prior to August 31, 2018. Please refer

questions and commer	nts to Keith Leonard.	<u>- legacto 1, 2010</u> . 1 loade (cici
NOTE: Full size plans	s are available at the Community Dev	elopment Department Office.
APPLICANT:	Andrew Tull, 3J Consulting	
REQUEST:	cottage style single-family homes, af	of commercial development, single-family homes, fordable housing and multi-family homes. The ingle-family homes on large lots, 230 cottage
SITE ADDRESS:	4504 E Portland Rd	
LOCATION:		
TAX LOT:	R3216-13800 & R3216-01100	RECEIVED
FILE NO:	PUD18-0001/CUP18-0004	AUG 3 0 2018
ZONE:	R-1, R-2 & C-2	Initial:
HEARING DATE:	September 13, 2018	
Require addition	ommend denial for the following reasonal information to review. (Please li	20 CM-CC
Reviewe	Schiedler ed By:	8/24/13 Date:

Attachment 3: Public Comments

Community Development Department P.O. Box 970 414 E. First Street Newberg, Oregon 97132

To Whom It May Concern:

As long time residents of Oxberg Lake Estates we have several concerns about the proposed development to be located behind our property.

Our first concern is maintaining the wonderful livability of our neighborhood. We are isolated from transient vehicle and pedestrian traffic. Our neighborhood is a relaxing place to walk without concern for safety from cars. We know our neighbors and the many other people who use our streets from adjacent neighborhoods. We have a strong neighborhood watch program, but without a barrier and sound wall between our neighborhood and the new development our livability will be lowered by uncontrolled access through our properties. Trespassing and other crimes will increase without some form of restriction.

Our second, and most important concern, is protecting and maintaining our level and quality of water in our aquifer. The new development would eliminate wetlands and redirect water that normally filters into the aquifer that we use to supply our 30 homes through one well. The current wetlands and other water run-off from adjacent fields provide a critical source of water to our aquifer and must not be eliminated. This water issue must be addressed to the satisfaction of the Oxberg Water Company and the Oxberg Lake Estates Homeowner's Association.

We recognize Crestview Drive will be completed through to Highway 99, but the livability, safety, and water are critical components to our neighborhood.

Thank you, Blake and Diane Williams 4500 NE Blue Heron Ct. Newberg, Oregon 97132

RECEIVED

JUL 26 2018

Initial:

RECEIVED

AUG 0 6 2018

July 27, 2018

Initial:

Bruce Thomas
32150 SW Ladd Hill Road

'Wilsonville, OR 97070

City of Newberg

Community Development Department

PO Box 970

Newberg, OR 97132

Re: Proposed New Development at 4504 E Portland Road

I own the property at the corner of Benjamin Road and Highway 99W. (4821 E. Portland Road) At the time of my property's annexation, I understood that the City of Newberg's greatest need for the property along the north end of Highway 99W was additional commercial uses and higher density housing. This proposed change to the existing zoning and land use for the subject property meets one of those criteria.

I have no objection to the proposed change, but I want to make sure that whatever access is created for the subject property will also work for access to my property, including the commercial space on my property. By removing the largest parcels of the previously annexed property from commercial uses, it is more important to preserve the remaining parcels for commercial development.

I will leave it to the City of Newberg's professional planning people to determine the best access and infrastructure design to meet the needs of not only the subject property, but also the Kimball property and my property.

Thank you for your consideration of my comments.

Bruce Thomas

Bruce Thomas

Keith Leonard

From:

Doug Rux

Sent:

Saturday, July 21, 2018 3:49 PM

To:

Keith Leonard

Cc: Subject: Andrew Tull; Michael Robinson Fwd: Crestview Planned Housing

I revived this email Saturday on Crestview Crossing.

Doug Rux Community Development Director City of Newberg 503.537.1212 Doug.rux@newbergoregon.gov

Sent from my iPhone

Begin forwarded message:

From: Cooper Foushee < cooperfoushee 123@gmail.com>

Date: July 21, 2018 at 1:41:09 PM PDT
To: doug.rux@newbergoregon.gov
Subject: Crestview Planned Housing

Hi I just had a few ideas for the planned neighborhood because it's still in planning. I think the houses on the backend of the lot shouldn't be built and the natural trees should be kept and used for a walking trail possibly. The natural forest we still have left in town should be completely preserved because once it's gone it's gone. Houses can always be built somewhere else too. Hopefully this is taken into consideration because other people my age at the high school don't like the idea of more trees being torn down for houses. Thank you!

Sent from Coopers iPhone

July 28 2018

Attention Newberg City Planners Re: Development @ 4504 E Portland Rd.

We are writing this in hopes you will consider the following items that are of considerable concern to us as we are directly abutting this development.

- !. How this project will affect our water supply to the homes in Oxberg Lakes Estates if the wet lands are destroyed.
- 2. That the developer abide by the same standards set by the Springbrook Master Plan.
- 3. A roundabout be on Crestview at Northern part of the project.
- 4. The plan of the previous developer included a Wall on the Northern boundrary of the project.

Sincerely;

Dale & Doris Palmer Daris & Calmer

4408 Birdhaven Loop

CEIVED

JUL 3 1 2018

Initial:

August 1, 2018

Written Comments: PUD18-0001/CUP18-0004 City of Newberg Community Development Department P.O. Box 970 Newberg, Oregon 97132 RECEIVED

AUG 0 1 2018

Initial:

To Members of the Planning Commission:

I am submitting these comments in connection with the Planning Commission's review of the development on the southern boundary of Oxberg Lake Estates. My name is Dick Petrone, former President of the Oxberg Lake Estates Homeowners Association. I served during the initial development of the 5-Party Agreement and was the signatory on the Agreement for the Association.

The City of Newberg, Austin Industries, and JT Smith all approved the use of Best Practices to ensure the protection of our Water source for Oxberg Lake Estates Water System which serves 30 members of the Association. With the proposal as presented, the developer has not demonstrated the use of Best Practices to protect our water supply. To be in compliance with the 5 Party Agreement the developer must demonstrate how it is using Best Practices to protect our water supply as the development is in our well's recharge zone.

My second concern is the use of traffic calming devices to maintain vehicle speeds of 25 MPH on Crestview Drive. In the original plan for the development, the plan included a roundabout south of the Oxberg Lake Boundary Line. Without the planned roundabout traffic will leave HWY 99 and will race up to the first roundabout in Oxberg Lake Estates. The proposed plan must reflect the use of traffic calming devices such as a roundabout to hold speeds down as vehicles enter Oxberg Lake Estates. The plan also called for traffic signs indicating "No Through Trucks".

My third concern is the proposed plan does not include sound walls for the 5 lots on the southern boundary of Oxberg Lake Estates. The original plan included sound walls similar to the sound walls on Crestview Drive.

My final area of concern is the Conflict of Interest for the Legal Representative for JT Smith. During the original development of the 5 Party Agreement, our HOA employed the same attorney who is now representing JT Smith. It is obvious that there is a Conflict of Interest for the Attorney Representing JT Smith.

Thank you for allowing me to express my concerns as they have serious impacts on our Oxberg Community,

Sincerely,

Dick Petrone

4301 NE Crestview Drive Newberg, Oregon 97132

Keith Leonard

From:

Doug Rux

Sent:

Monday, July 23, 2018 8:25 AM

To:

Keith Leonard

Subject:

RE: Saving Healthy Trees

I already sent them on to Mike and Andrew over the weekend.

Doug Rux, AICP
Community Development Director
City of Newberg
503.537.1212
Doug.Rux@newbergoregon.gov

From: Keith Leonard

Sent: Monday, July 23, 2018 6:33 AM

To: Doug Rux

Subject: Re: Saving Healthy Trees

I'll get these out to Andrew.

From: Doug Rux

Sent: Saturday, July 21, 2018 5:17:48 PM

To: Keith Leonard

Cc: Andrew Tull; Michael Robinson **Subject:** Fwd: Saving Healthy Trees

Here is another comment.

Doug Rux Community Development Director City of Newberg 503.537.1212 Doug.rux@newbergoregon.gov

Sent from my iPhone

Begin forwarded message:

From: jessica poetzman < jepoet23@gmail.com>

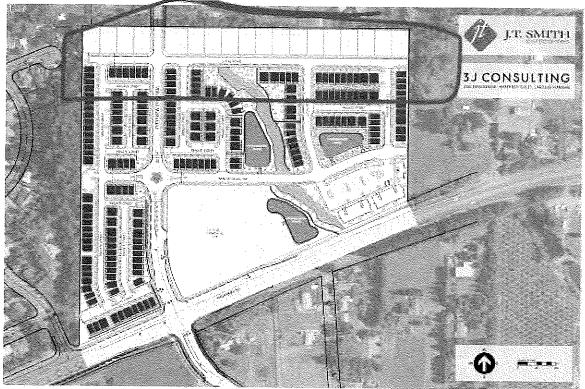
Date: July 21, 2018 at 4:28:13 PM PDT

To: Doug Rux < Doug. Rux@newbergoregon.gov>

Subject: Saving Healthy Trees

Hello, I go to Newberg High School. I was looking at the planned houses after someone mentioned it and I felt the need to write with a few complaints. Recently a lot of trees have been taken down in town due to growth but I don't

think that should be the case anymore. We are lucky to live in an area with so much natural beauty and it should all be preserved.



CRESTVIEW CROSSING PLANNED DEVELOPMENT

This specific part is what I'm talking about. It looks to be only 18 homes which doesn't seem justifiable for a mini forest to be cut. Just wanted to put that out there!

Sent from my iPhone



Some ten years ago an exceptional City Manager, Jim Bennett, touched greatness. Under his leadership problems that had plagued Newberg for decades were resolved because all the involved parties agreed to work together to solve them. Thanks to mutual good faith and hard work, the result is what is now known as "The Five Party Team" agreement.

The Team had six official members, The City, The County, Oxberg Lakes Homeowners (OLHA), and three property developers. The State was not a member, but it made inputs and provided expertise that helped with road infrastructure and traffic issues. Experts and Attorneys helped.

At the time I was President of OLHA. I testified at some 35 hearings, some of which ran until 2 AM, each time speaking in favor of developing the high value properties adjacent to us and the infrastructure needed to support Newberg's future growth.

The result was a miracle, one that was precedent-setting for Newberg, the County, and the State. Rather than the typical staff-driven piecemeal approach to cram in some development, this time all the people involved and effected got involved and drove the plan (with assistance from city and county planners) to assure the best possible outcomes.

No one got everything they wanted, but we got a plan that we could live with. It was signed by all parties. The resultant plan was published in the Newberg Graphic. One good part was a transfer of Crestview from the County to the City that did not destroy our community and met or exceeded design standards.

Newberg got the road access it wanted and the right to run a waterline down our street. We got a road we could live with AND THE BEST PRACTICES AGREEMENT to protect the aquifer for our water system. The latter was a proud day for everyone. It was meaningful environmental protection and very much in the spirit of the old Oregon.

There is a lot of misunderstanding about our water system. Development in Newberg has, over the years, destroyed many private wells. That's irrelevant. Our system is a State Licensed

commercial water system, one of three in the County. As such, we are required by law to protect our aquifer. In water law first is everything and our system predates the State of Oregon.

Perhaps best of all for Newberg, the Five Party Team plan was **affordable**. Having an integrated plan paid for infrastructure that allowed many developments, with many more to follow. The first phase paid for itself. Barely. The numbers were thin but workable.

Alas, what was planned never got built. Administrations changed, the economy collapsed, and except for some "shovel ready" money that built out a short section of road through OLHA, everything stopped.

It seems that now we are back to square one. I am concerned. It seems betrayal is afoot. OLHA has been forced to retain legal counsel. Several things were alarming.

Apparently, the current developer's interpretation of "Best Practices" (it was a signatory) is to fill the recharge zone for our aquifer with **dirt** (5 acres of fill, for 7 acres of wetlands!) and to divert as much of our water away as possible so they can cram in more development.

A strange off-the-record public (but not official) meeting was held by the developer in our local fire house on May 14th. This was not recorded, but the room was full, I was there, and names were taken.

You should invite all who attended to testify at length to the City Council. Suffice it to say that many issues were raised, credible answers were lacking, and the developer seems to be depending on grants of taxpayer money to generate profit and make their numbers work.

Most in the room expressed skepticism or opposition. The developer's response was that they were doing the pubic a favor by even having the meeting, and they were not required to tell us anything. In short, "We're going to do it anyway."

My comment at the meeting was that a piecemeal approach, like the one being pursued, would likely create more problems than it solved, and that the Five Party Team agreement and plan should be revisited. I also said that if the Best Practices Agreement was violated and our water system was threatened, my **guess** [as a private citizen and homeowner] was that OLHA would have to assert our legal rights.

Even more alarming is that when our board called our land use lawyer from a decade ago they didn't respond for a time. When they did, it was to report that a conflict existed. It seems that

OUR LAW FIRM HAS BEEN RETAINED BY THIS DEVELOPER TO REPRESENT THEM FOR THE SAME PARCEL.

What a remarkable coincidence. Such a conflict raises all sorts of legal red flags and demonstrates either monumental incompetence or bad intent.

In summary:

- The plan we heard on May 14th was not appealing. It raised concerns.
- The developer is desperate to get this plan approved. All the other developers have distanced themselves. Follow the money and look at the numbers.
- I strongly suggest the City Council and the County should get involved, become familiar with the Five Party Team agreement, and consider other options.
- Please do not leave this to staff. Getting the infrastructure right has been a major issue for Newberg for some 40 years. This issue should not be driven by one developer and one small parcel. Get broader opinions and plans. As before, this development could be one piece of a plan, given the use of BEST PRACTICES to protect our aquifer.
- Traffic calming on the border of OLHA was also part of the Five Party Team agreement. This was implemented on our section of the road, but it still needs to be put in place on the adjacent parcel.
- Whatever you do, please do not destroy our water system.

Thank you for your interest and attention.

Sincerely

Pat Irudel nn and Pat Trudel

4303 NE Birdhaven Loop

Newberg, OR 97132

Re: File NO. PUDIG-0001/CUPI8.0004

RECEIVED

July 30, 2018

Dear Newberg City Council Members,

AUG 0 6 2018

As a resident, living in Oxberg Lake Estates which is adjacent to the proposed Crestview Crossing Development, I would like it known that we have great concern for the watershed and wetlands that the developer, J.T. Smith, has planned to partially fill as part of their proposed construction. The water supply for approximately 30 families in our neighborhood is entirely dependent on being replenished and filled by the artesian water storage in our aguifer system. The developer has said that the net effect of diminishing the size of the wetland area will be mitigated by an exchange of wetlands in another area in the county, but this will do nothing at all to counteract the obvious effect on those of us living in Oxberg Lake Estates. The additional impervious coverage area that the proposed development is planning will result in the water having to be diverted to other areas instead of being absorbed into our aquifer as nature intended. There can be little doubt that disturbing the soil in this wetland area will certainly affect the viability of our well water and its quality. There are many years of records from our small water company, Highland Water, that will show that we have had access to safe and sufficient water with almost no treatment of any sort. It should be obvious that any negative effect on our water supply would have a large impact on our basic need for access to potable water.

It's also troubling that the most recent public presentation by J.T. Smith does not show the original location of a proposed traffic roundabout that was agreed to by the developer in the "Five Party Agreement" that was agreed upon by the Austins, J.T. Smith, Oxberg Lake HOA and others. It was agreed that a traffic calming roundabout would be located on the north side of the proposed development, near the exit to existing Crestview Road. The relocation of the roundabout will defeat the original purpose of providing a traffic calming effect. Moving the location of the roundabout closer to highway 99 will result in a long straight-away, into and out of this new development, and will encourage its use as a quick shortcut. The result of this change will cause the road to be used not as a "collector", as intended in the Master Plan, but instead, a fast way to circumvent the congested traffic at the intersections on Springbrook Road.

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Please make sure that these issues are addressed before approving this proposed development.

ng luan memberikan kemuatapang nasi mgapag balanthi ing bigapagi bi jaka ng palaman na palaman na paga balam n

Sincerely,

Mank Same Mark Simmons

Mark Simmons

4307 NE Birdhaven Loop

Newberg, OR 97132

Mobile: 503-707-9035

Email: mark.simmons@yahoo.com



JUL 3 1 2018

RE: File No.PUD18-0001/CUP18-0004

Initial:

To Whom It May Concern,

I am a resident of Oxberg Lake Estates located just north of the planned development referenced above. I would like to state for the record my concerns regarding the development as it is currently proposed.

The most pressing issue as I see it is the planned fill of the existing wetland and rerouting of the water away from the recharge zone for our well system and the eventual drainage into the city's storm water system. The HOA for this community actually operates a state licensed water company and provides safe clean drinking water for residents both within the association as well as residences located nearby. It is my belief, based on previous testimony when a development was first planned for this property, that the activity currently proposed would significantly harm our water system and jeopardize our water company.

When looking at the 5 party agreement that was signed over a decade ago and which included city, current developers and this association - it was agreed to that "best practices" would be employed when deciding how to proceed with regards to the wetland and our water supply. Just recently, I spoke on behalf of the HOA at the Springbrook Master Plan meeting in front of the planning board and stated clearly that the developers for SMP had set the gold standard for what "best practices" meant - setting aside a full 1/3rd (150 acres) of the property for water resource preservation and as such, will be left undeveloped. I implored then as I do now that the planning board accept nothing less than that standard as it pertains to the Crestview Crossing project as well.

Furthermore, the other issues with this development as I see it pertains to the issue of "traffic calming measures". Again, everyone acknowledged in the 5 party agreement that roundabouts were needed to limit both size (large tractor trailers) and speed through our community as well as neighboring communities and the placement of the roundabouts was key to achieving this. In the current proposal, the planned roundabout to the northwest is not addressed (as I

understand it, that is part of the SMP) but also in the current proposal, the roundabout which was supposed to be located "immediately to the south" of our community has been moved further south than what was previously agreed to - reducing or negating any benefit of traffic calming measures previously agreed to.

There is no question this as a direct violation of the 5 party agreement. It should be noted that the developers were made aware of the issues to both of my concerns when they unveiled the new improved proposal at a community meeting in May - and it's a shame to see neither were addressed in any meaningful manner. It's up to the planning board to seek the answers and remedies to both these issues.

Finally, the concern of a physical separation between the existing development (Oxberg) and the proposed development is still undefined. While this doesn't concern me directly, it does affect my neighbors and there needs to be specifics laid out in how the properties adjacent to the development will be separated - whether it be a wall, natural barrier or what have you.

I appreciate and applaud all the efforts by the planning board of Newberg. This is not an easy task- and while I'm sad to see we wont be getting the commercial development of prime commercial property as once was proposed - I do ask that they strongly consider rejecting the proposal as submitted. Newberg has a rich history of protecting the environment and putting the residents first and foremost ahead of any new developments.

As you look at this proposal, it doesn't meet the needs of Newberg's existing residents - some of which have called Newberg home for more than 60 years. Crestview Crossing is the gateway to the Allison and as such should be planned with the understanding that what we choose to do now will forever have an impact on the city and its long time residents. The decision to fill in wetlands with little consideration as to the impact on surrounding communities should not be taken lightly.

I ask that impartial experts review the wetland with an updated survey of the area and come to a clear understanding of the expected impact on our aquifer, positive consent from all adjacent homeowners and traffic calming measures as agreed to installed. I would also ask that should you proceed with the development as proposed, and should there be negative impact on our aquifer to the extent that it becomes no longer viable - there needs to be a compensation package or bond agreed to by both parties.

Again, thank you for your consideration in this matter and I ask that you do what's right for Newberg in the long run and not look at the short term gain exclusively.

Mark Wagner 4403 NE Birdhaven Loop Newberg, OR 97132 JEFFREY L. KLEINMAN
ATTORNEY AT LAW
THE AMBASSADOR
1207 S.W. SIXTH AVENUE
PORTLAND, OREGON 97204

Telephone (503) 248-0808 Fax (503) 228-4529 Email KleinmanJL@aol.com

MEMORANDUM

To:

Newberg Planning Commission

From:

Jeffrey L. Kleinman

Date:

August 2, 2018

Re:

Crestview Crossing, File No. PUD18-0001/CUP18-0004

I. INTRODUCTION

I represent Oxberg Lake Homeowners Association (the "HOA"). The HOA objects to the above application on several grounds, as set out below. For each of the specified reasons, the applicant has failed to meet the requisite burden of proof under the city's approval criteria.

II. THE SIX-PARTY AGREEMENT

On April 10, 2006, the City of Newberg, Yamhill County, Oxberg Lake

Homeowners Association, Ken and Joan Austin, JT Smith Companies, and

MeadowWood Development, LLC entered into an agreement (the "Agreement"),
regarding the Northerly Arterial designated in the city's Transportation System Plan. A
copy of the Agreement is attached for reference. Initially, the Northern Arterial was to be

Crestview Drive connecting to Highway 99W. Under the Agreement, the city agreed to amend its TSP to designate Springbrook Road as its Northern Arterial and to designate Crestview Drive as a Major Collector, instead. The general design and alignment of that road is depicted in Exhibit A to the Agreement. It was agreed that the Crestview Drive Major Collector will be posted as "no through trucks" and designed to encourage a 25 mph speed limit. To provide traffic calming for this purpose, it was agreed that a roundabout is to be placed on Crestview Drive directly south of its intersection with Robin Court, as shown on page two of Exhibit A.

The Agreement also includes as Exhibit B an engineering study completed by JRH Transportation Engineering, dated March 27, 2006. This study analyzes and supports the designation of Springbrook as the Northern Arterial and the conversion of Crestview to a Major Collector.

The Agreement is not time-limited. It is not dependent upon any particular development proposal. It remains binding upon all of the parties and their successors and assigns. Nonetheless, the within application appears to move the location of the designated roundabout on Crestview significantly further to the south. There, it may benefit traffic flow for the development itself but will not have the traffic-calming effects within Oxberg Lake for which it was duly negotiated and agreed by the parties.

Thus, approval of this development in its approved form would violate the Agreement and is simply impermissible. Moreover, Oxberg Lake Homeowners Association hereby gives notice that it intends to enforce its rights under the Agreement

both as to the city and JT Smith Companies (and any related entities and successors and assigns of JT Smith Companies), through litigation if necessary.

III. WETLANDS AND WATER SUPPLY ISSUES

The HOA provides domestic water both within and outside its boundaries through the Oxberg Water System (the "Water System"). The Water System is supplied by a single well inside those boundaries. We have provided a copy of the Source Water Assessment Report by the State of Oregon for the Oxberg Water System, prepared in April of 2004. As stated at page 2 of the report, the Oxberg Water System serves approximately 80 people through 27 connections, via one well commonly referred to as Well #2. The report states that pursuant to DHS Drinking Water Program records, "this well serves as the only permanent water source." The thickness of the water-bearing zone in the aquifer serving the well is estimated to be only 15 feet. *Id.* at 3.

In its report, the state delineated the Drinking Water Protection Area ("DWPA") to identify the area at the surface overlying the critical portion of the aquifer supplying groundwater to the well. *Id.* at 4. The DWPA for the Oxberg Water System well is shown in Appendix B, Figure 1 to the report. The DWPA extends through a significant portion of the applicant's property. In addition, Figure 3 shows that a high percentage of the subject site possesses "High Soil Sensitivity," posing "a greater risk to drinking water quality than those in areas of low sensitivity." It was determined that the moderate Infiltration Potential score for the aquifer, the close proximity of the surface water to the well, and the presence of highly permeable soils within the DWPA contribute to a

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moderate overall water system sensitivity.

The report concludes that, "[u]nder a 'worst case' scenario, where it is assumed that nothing is being done to protect groundwater quality at the identified potential contaminant sources, the assessment results indicate that the water system would be highly susceptible to the identified moderate-risk potential contaminant sources." *Id.* at 12.

In 2008, the Oregon Department of State Lands ("DSL") reviewed a wetland delineation report prepared for an earlier development proposal on the site. A copy of this report has also been provided for reference. The report identifies two unnamed tributaries of Spring Brook Creek on the property and .32 acre of PEM wetland, 1.638 acre of PFO wetland, and .29 acre of PEM/PSS wetland. The larger perennial tributary of Spring Brook Creek enters the northwest corner of Tax Lot 1100 and exits on the south side.

In addition to failing to address impacts upon the Water System, the applicant's materials fail to properly take the above wetlands into account. More fundamentally, though, we understand that given the completely different nature of the development now proposed for the site, DSL will require an entirely new delineation for its review and approval or rejection. Given the prominence of wetlands on the property, we cannot now know what an approvable delineation would look like *vis-a-vis* the current proposal, and whether the development as proposed is feasible in the first place. LUBA has held:

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"[A]s the initial feasibility of the subdivision must be shown at the preliminary plat stage, the initial feasibility of the PUD project must be shown at the preliminary development plan stage. See Van Volkinburg v Marion County, 2 Or LUBA 112 (1980), and Atwood v Portland, 2 Or LUBA 397 (1981)."

Meyer v. City of Portland, 7 Or LUBA 184, 196, aff'd 67 Or App 274, 678 P2d 741 (1983), rev den, 297 Or 82, 679 P2d 1367 (1984).

On the face of the record before this Commission, no present finding of "initial feasibility" is possible. As a result, this application must be denied.

IV. CONDITIONAL USE CRITERIA

Newberg Development Code (NDC) 15.225.060 sets out the conditional use approval standards which apply to this application:

"15.225.060 General Conditional Use Permit Criteria - Type III.

A conditional use permit may be granted through a Type III procedure only if the proposal conforms to all the following criteria:

- A. The location, size, design and operating characteristics of the proposed development are such that it can be made reasonably compatible with and have minimal impact on the livability or appropriate development of abutting properties and the surrounding neighborhood, with consideration to be given to harmony in scale, bulk, coverage and density; to the availability of public facilities and utilities; to the generation of traffic and the capacity of surrounding streets, and to any other relevant impact of the development.
- B. The location, design, and site planning of the proposed development will provide a convenient and functional living, working, shopping or civic environment, and will be as attractive as the nature of the use and its location and setting warrants.
 - C. The proposed development will be consistent with this code."

For the reasons set out above with respect to (1) the elimination of and failure to provide the agreed traffic-calming roundabout on Crestview Drive and (2) failure to show

how or whether the Water System will be protected and remain operable, the applicant has not met its burden of proving compliance with NDC 15.225.060.A. It has not demonstrated that its proposal "can be made reasonably compatible with and have minimal impact on the livability or appropriate development of abutting properties and the surrounding neighborhood, with consideration to be given to * * * the availability of public facilities and utilities; to the generation of traffic and the capacity of surrounding streets, and to any other relevant impact of the development."

V. PLANNED UNIT DEVELOPMENT CRITERIA

The applicant has failed to demonstrate compliance with the city's Planned Unit Development Criteria, set out in NDC Chapter 15.240. Section 15.240.030.C requires in material part that:

- "1. The proposed development is consistent with standards, plans, policies and ordinances adopted by the city; and
- 2. The proposed development's general design and character, including but not limited to anticipated building locations, bulk and height, location and distribution of recreation space, parking, roads, access and other uses, will be reasonably compatible with appropriate development of abutting properties and the surrounding neighborhood * * *"

For the reasons explained above, this application does not comply with the city's standards and ordinances. Beyond that, the applicant has failed to demonstrate compliance with the comprehensive plan goals and policies relevant to the development of so much commercially zoned land with residential uses instead.

Further, as we have set out, the proposed distribution of roads will be incompatible with development of the abutting properties and the Oxberg Lake neighborhood.

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VI. STREET STANDARDS

NDC 15.505.030.R. governs "Vehicular Access Standards" and provides in

material part:

"9. ODOT or Yamhill County Right-of-Way. Where a property abuts an ODOT or

Yamhill County right-of-way, the applicant for any development project shall

obtain an access permit from ODOT or Yamhill County."

The applicant's proposal would provide ingress and egress via the existing portion

of Crestview Drive which now abuts the site on the north. Based upon all information

available to us, that portion of Crestview remains Yamhill County right-of-way. The

applicant has not obtained an access permit from the county or demonstrated the

feasibility of obtaining one. This, too, goes to the question of whether the initial

feasibility of the proposal has been proven. One or more preexisting agreements make it

unlikely that such a permit could be obtained. For this reason alone, the application must

be denied.

VII. CONCLUSION

For all of the reasons set out above, the applicant has not met its burden of proof to

show compliance with the relevant city approval standards herein. Accordingly, this

application must be denied.

Dated: August 2, 2018.

Respectfully submitted

Jeffrey L./Kleinman, OSB #743726

Attorney for Oxberg Lake Homeowners Association

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City of Newberg	a s				"City"
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Yamhill County 535 NE Fift St.			en no Mille o n Antonio de		"County"
McMinule, OR 97128 Oxberg Lake Homeowners Associ	ation.			"As	sociation"
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JT Smith Companies (T3S R2W Tax Lot 13800)					'JT Smith"
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MeadowWood Development, LLC		, stow		"Meac	lowWood"
(T3S R2W Tax Lots 900, 1000 an	d 1100)				
					er en general George State George State
Dated: April 10, 2006	•				

RECITALS

- A. City's Transportation System Plan ("TSP") calls for a northerly arterial via Crestview Drive connecting to Hwy. 99W (the "TSP Northern Arterial").
- B. Association has expressed its concern about a northerly arterial Crestview Drive terminating at Hwy. 99W.
- C. Austin intends to submit for master plan approval for the development of an approximately 400-acre site (the "Austin Master Plan") located in the City. Austin desires a transportation system that will have adequate capacity to serve the development on the Austin Master Plan parcel.

- D. County has contracted with JRH Transportation Engineering ("JRH") to determine the transportation impacts of an alternative to the TSP Northern Arterial (the "Springbrook Northern Arterial Plan"). The Springbrook Northern Arterial designates Springbrook Road between HWY 99W and Crestview as the northern arterial and amends the designation of Crestview from Springbrook to Hwy 99W as a major collector.
- E. Association has requested certain stipulations on the Crestview Drive to Hwy. 99W link which are also under study by JRH.
- F. The Springbrook Northern Arterial Plan is diagrammatically depicted on Exhibit "A" attached hereto.
- G. The JRH study has demonstrated the feasibility and transportation system adequacy of the Springbrook Northern Arterial Plan, assuming year 2025 projections and buildout of the Austin Master Plan.
- H. The purpose of this Agreement is to finalize the agreement of the parties and to begin the process of amending City's TSP to implement the Springbrook Northern Arterial Plan.

AGREEMENT

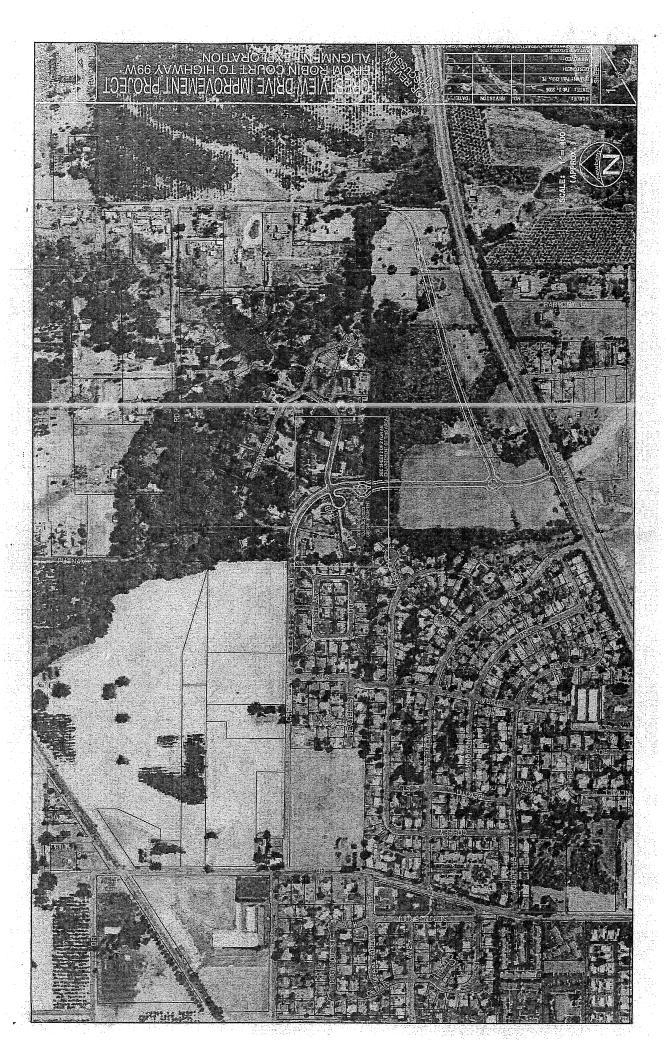
- 1. The parties hereto agree to accept the Springbrook Northern Arterial Plan attached hereto as Exhibit "A" and specifically accept and rely upon the JRH study attached hereto as Exhibit "B".
- 2. City will initiate a process to amend its TSP to designate Springbrook Road as the Northern Arterial for the City. The City Manager and City Engineer will support this effort through the Planning Commission and City Council with the intended modification to the TSP as described. All parties to this Agreement will support this designation. If the City considers amending the Northern Arterial designation of Springbrook Road in the future it will be by public process.
- 3. City will initiate a process to amend its TSP to designate Crestview Drive as a Major Collector, with the general design and alignment of the road as depicted in Exhibit A. The City Manager and City Engineer will support this effort through the Planning Commission and City Council with the intended modification to the TSP as described. All parties to this Agreement will support this designation. If the City considers amending the Major Collector designation of Crestview Drive in the future it will be by public process.
- 4. The proposed design of the Crestview Drive Major Collector will be posted as "no through trucks" and be designed to encourage a 25mph speed limit. Truck size limitation language for posted signs will be determined by JRH. City will maintain Crestview Drive as two-lane road between the roundabout immediately to the south of Robin Court extending to the western edge of the Oxberg Lake Estates property. Turn lane features, if required, will be determined at a later date.

- Improvements on the proposed Crestview Drive Major Collector will be paid for as a capital improvement subject to City's transportation SDC program.
- The parties agree to support an amendment to County Board Order 06-070 to 6. delete the condition requiring a study and County approval before the City can construct a roundabout on Springbrook Road.
- County will expeditiously initiate a process to surrender jurisdiction of that portion of Crestview Drive as originally requested by City.
- The parties agree with the findings of the initial study that the capacity in the transportation system achieved through the Springbrook Northern Arterial Plan will have virtually no effect on Springbrook Road operations and will maintain the capacity and functionality of the City of Newberg's Transportation System Plan.
- This agreement has no bearing on the City's consideration to annex or not annex 9. Oxberg Lake Estates.
- Each party hereto represents to the other parties that the party has all necessary 10. power and authority to perform under and be bound by the terms and conditions of this Agreement.
- All of the terms and provisions contained herein shall inure to the benefit of and 11. shall be binding upon the parties hereto and their respective heirs, successors, and assigns.
- Counterparts and facsimile signatures. The parties may execute this agreement in 12.

CITY OF NEWBERG	YAMHILL COUNTY
By: MBernett Its: CITY MANAGER	By: Skale of General County Commissioners
OXBERG LAKE HOMEOWNERS ASSOCIATION	KEN AUSTIN JOAN AUSTIN
By: Sech Fatrons Its: Fresident	By: Seonge K Austern) Its: Jan Wanter
JT SMITH COMPANIES	MEADOWWOOD DEVELOPMENT LLC
By: Its: Penusew T	By: TINOTHY STEAMU Its: NEMBER / MANAGER
	Accepted by Yamhill County Board of Commissioners on 4/19/06 by Board Order 4/10/2006 02:49PM

06-265

EXHIBIT A



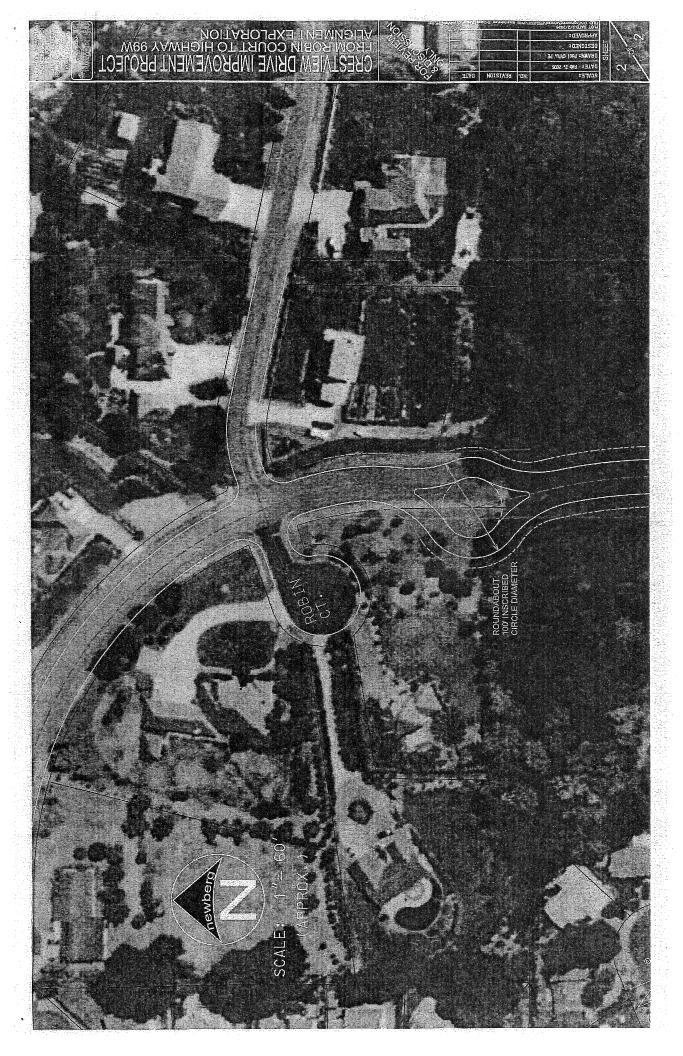
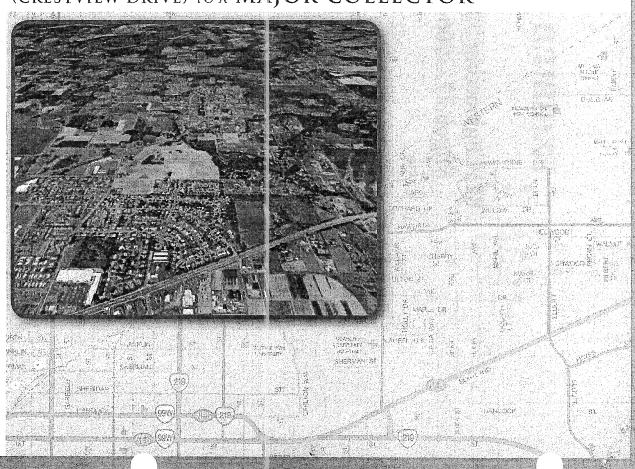


EXHIBIT B

JRH Engineering Study March 27, 2006



THE EFFECT ON SPRINGBROOK STREET OF CONVERTING THE NEWBERG NORTHERN ARTERIAL (CRESTVIEW DRIVE) TO A MAJOR COLLECTOR



March 27, 2006

THE EFFECT ON SPRINGBROOK STREET OF CONVERTING THE NEWBERG NORTHERN ARTERIAL (CRESTVIEW DRIVE) TO A MAJOR COLLECTOR

This memo outlines JRH Transportation Engineering's findings relating to the effect on Springbrook Street resulting from changing the Newberg Northern Arterial (Crestview Drive) from an arterial classification to a traffic-calmed major collector.

Briefly stated, the conclusions of the report are:

- 1) The physical capacity of Crestview Drive will not be materially reduced. Therefore, capacity restrictions will not divert traffic from Crestview Drive to Springbrook Street.
- 2) A ten mile per hour operating speed reduction on Crestview Drive (as might be expected from the reclassification of the street and the addition of traffic calming measures) would have virtually no effect on Springbrook Street operations.

The following contains the analysis used to develop these conclusions.

BACKGROUND

The City of Newberg Transportation System Plan envisions a northern arterial connecting Mountain View Drive at the north, crossing the railroad tracks and continuing east from Springbrook Street along the alignment of Crestview Drive to the Oxburg neighborhood, and then south to an intersection with ORE 99W. Residents along the proposed arterial are concerned that this facility would have a negative effect on the livability of their neighborhood. They have proposed that this arterial be changed to a major collector with traffic calming to reduce operating speeds to 25 miles per hour to help mitigate traffic impacts.

There is concern by others that this downgrading of classification on Crestview Drive will produce traffic spill over onto Springbrook Street. This, in turn, would require additional transportation mitigation should vacant property be developed. Our challenge is to evaluate the relative traffic demand on Springbrook, resulting from the conversion of Crestview from an arterial to a major collector.

There are two ways that this conversion might impact Springbrook. The first would be the reduction in capacity on Crestview Drive to the extent that traffic would be forced to divert from Crestview to Springbrook. The second question is, would reducing speeds on Crestview Drive make Springbrook become relatively more attractive and, thus, increase traffic volumes? This memo analyzes both effects.

EFFECT ON CRESTVIEW CAPACITY

review of the projected traffic volumes along this collector shows that there will be adequate capacity along Crestview to meet the traffic demand. Under roadway design standards contained in the Newberg Transportation System Plan (TSP), the primary difference between a major collector and a minor arterial is that the arterial has a continuous two way left-turn lane, while the major collector has turn lanes, where appropriate, at intersections. Given the traffic volumes projected, both of these would have sufficient capacity to handle future traffic demands.

The two capacity constraints on both the original Northern Arterial as proposed in the Newberg TSP and the neighborhood proposed Crestview Drive major collector are at the intersections with Springbrook Street and at OR 99W. The geometry and thus the capacity at both intersections are not anticipated to change under either scenario. At the north end, the design of the roundabout between Springbrook and Crestview does not change with the proposed change in Crestview classification. At the south end, the design will be dictated by the needs of the commercial development along Crestview and will have more lanes than commonly associated with a major collector.

Future development may dictate that new intersections be constructed on Crestview between Springbrook and OR 99W. The design of these intersections will be subject to a traffic impact analysis to ensure the capacity is adequate to meet demands. Intersection turn lanes may be required; however, the low traffic volumes projected midway between Springbrook and OR 99W make it unlikely that even these minimal improvements will be required.

W. 45 W. 1

Traffic calming measures may also influence capacity; however, these impacts are more closely evaluated by examining speed reductions. This is the subject of the next portion of this report.

Because intersection geometry does not change, intersection capacity is not affected and, because capacity does not change, capacity constraints will not divert traffic from the Northern Arterial (Crestview Drive) to Springbrook Street.

EFFECT OF SPEED REDUCTION

The second way the change of classification could impact
Springbrook is the result of the change in travel speed between
two classifications. If the relative speed on Springbrook between
Crestview diminishes, then there may be additional trips induced onto
Springbrook. This report is primarily focused on determining the
impacts of these induced trips. In conducting this analysis, we looked
effect on the traffic volumes using two separate methodologies.

For the first methodology, we reviewed the year 2025 projections for both Crestview and Springbrook as shown in Figure 2 of the Newberg Transportation System Plan. Appendix 1 contains this figure. The amount of through traffic on Crestview was determined by subtracting existing traffic and traffic from future development along Crestview from the projected 2025 turning movement volumes on Crestview, as shown in the Transportation System Plan.

After calculating southbound traffic, similar methodology was used to develop the northbound traffic on Crestview. The number of driveways, intersections, etc., along Springbrook, makes it difficult to determine the thru traffic on Springbrook. As a result, we developed

JRH TRANSPORTATION ENGINEERING | March 27, 2006 | 2

the thru traffic volumes on Springbrook using California Department of Transportation "Freeway Diversion" curves. These calculations determine relative traffic volumes along parallel routes based on differentials in time and distance. We calculated the arterial travel times along Crestview assuming a 35 MPH speed for traffic driven on that route as well as a 35 MPH speed for Springbrook. To these travel times, we placed a delay factor on Springbrook for delay at signalized intersections along OR 99W, between Springbrook and the proposed intersection between Crestview and OR 99W.

Table 1 provides the Year 2025 projected through traffic volumes for Crestview and Springbrook with Crestview as an arterial and as a collector assuming a ten MPH reduction in speed.

A ten mile per hour speed differential was selected using information contained in Appendix A "Traffic Calming, State of the Proactive", by ITE/ FHWA. This is available on the web at http://ite.org/traffic/tcstate.htm#tcsop

A review of the data indicates that a ten MPH speed is a reasonable best case for effective traffic calming measures, and conservative for use in determining the impacts on Springbrook. If the speed reduction is less, then fewer cars will transfer from Crestview to Springbrook and the impacts will be less.

Merely knowing the difference in numbers is not sufficient to determine the impact on Springbrook. To do this difference, we adjusted 2025 turning movements shown in the Transportation System Plan to reflect the increase in traffic on Springbrook. We then ran these adjusted traffic volumes using the SYNCHRO traffic evaluation model to determine the effect on level of service at both the Crestview intersection with ORE 99W, and the Springbrook intersection with ORE 99W. These volumes were compared with the traffic volumes in a SYNCHRO run using the unadjusted volumes representing the current classification. Both of these runs were for the year 2025. The results of this analysis are shown in Table 2. As can be seen, the traffic volumes change is so small that there is no effect in level of service or volume-to-capacity ratio at Springbrook and Highway 99 West. There is a 0.1 second increase in delay at Crestview and OR 99W due to a diversion of vehicles turning right onto Crestview changing to through traffic on OR 99W. Appendix 2 contains the outputs from the SYNCHRO runs.

TABLE 1: Year 2025 Through Traffic Volumes Crestview/Springbrook Intersection to Crestview/OR 99W Intersection

CRESTVIEW SPEED

	35 MPH	1	25 N	IPH
	Northbound S	louthbound	Northbound	Southbound
Crestview Drive	473	317	426	291
Springbrook Street	214	117	261	143

¹ Freeway Diversion curves, more properly, should be called parallel route diversion curves. They are using relative time and distance as variable. Appendix 4 provides the Freeway Diversion Curves.

の国際対象

Analysis is based on 2025 traffic volumes in Newberg Transportation System Plan (Figure 2).

Planning Analysis Unit (TPAU). These analysis numbers allow us to directly calculate the difference in traffic volumes along the two, and furthermore, allow calculation of the volume to capacity ratios classification and roadway geometry, as well as a speed reduction. by the reclassification. The TPAU model is based on a change in As a check to this methodology, we obtained a model run for the two alternatives for the year 2030 from ODOT's Transportation in levels of service at critical intersections potentially impacted Appendix 3 contains the ODOT TPAU 2030 model runs.

Table 3 compares the entering and exiting volumes on Springbrook and Crestview at Highway 99 using the ODOT numbers with the volumes generated earlier in this report.

ODOT and the "Freeway Diversion" curve methodology track ver closely. The traffic volumes generated by JRH indicate a diversior This table indicates that the regional model methodology used by in traffic volumes of 73 trips from Crestview to Springbrook. The

for both the northbound and southbound movements. Springbrook. Both indicate that the traffic volumes expected to not exceed more than a total of 75 trips The methodology following the Freeway Diversion TPAU Model indicates a diversion of 63 trips from diverted from Crestview to Springbrook as a result Crestview and an increase in traffic to 16 trips to of the reclassification and reduction in speed is

TABLE 2: Traffic Operational Effect of Changing Crestview From Minor Arterial to Major Collector.

ok at Grestview at 7.99 Highway 99	Volume Delay Volume to Capacity (LOS) Capacity	0.83 46.4 (D) 0.85 0.83 46.3 (D) 0.85
Springbrook Highway 99	Delay (seconds)	34.4 (C) 34.4 (C)
Additional Linbs To Springbrook At Highway 99	SB Left WB Righ	N/A N/A 26 47
	Classification	Minor Arterial Major Collector

TABLE 3: Comparison of Entering and Exiting Volumes On Springbrook and Crestview at Highway 99.

rack very	©Tress	Crestview as a Minor A	Minor Ar	Vriterial	Crestvi	iew as a l	Crestview as a Major Anterial	ıntali
diversion ok. The	Springk Highw	Springbrook at Highway 99	Crestview at Highway 99	ewat ay 99	Springla Highw	rook at ay 99	Crestview at Highway 99	tview at iway 99
	Entering	Exiting	Entering Exiting	Exiting	Entering	Exiting	Entering	Exiting
TPAU Model	719	702	396	445	719	718	370	402
TPAU Volumes	730	630	770	. 680				
Adjustment to TSP Volumes for Diverted Traffic					777	656	723	654
Total Diverted Traffic								
TPAU Model	_	N/A	N/A	A	73	*91	59	**69
TPAU Volumes		N/A	N.A	4	7	73*	73	73**

Curve indicates a higher traffic volume estimated to be diverted and, therefore, represents a more conservative analysis.

All of the analysis in this study assumes land development in accordance with the adopted Comprehensive Plan. In discussions with ODOT staff, they indicated that this development includes full development of the Austin Industries property. It should be noted, however, that property may develop with more or less intensity than anticipated in the Plan. This should not impact the conclusions of this study, as this study is focused on the relative impact on Springbrook due to changes in the functional classification of Crestview. It is not focused on the absolute impacts on Springbrook due to any specific land use.

RECEIVED

July 31, 2018

Written Comments: PUD 18-0001/CUP18-0004

City of Newberg

Community Development Department

PO Box 970

Newberg, OR 97132

	1 10		
Initi	al:		
		The second second	

AUG 1 2018

To whom it may concern,

The people of Newberg need to decide what is to be built across the street from our hospital not a for profit developer from Lake Oswego. The new Springbrook road will be the gateway to the Allison Hotel & Spa and future businesses on North Springbrook. So it is important that the Crestview crossing be as aesthetically appealing as possible.

The highest and best use for a property located across the street from a hospital, would be a condominium type retirement village with common lawns to grace our new entry into the city of Newberg. The proposed high density housing project for the Crestview crossing seems to be one that could be located elsewhere in the city, not at the gateway, perhaps along the new bypass.

In the case of an economic downturn, which is always a possibility, some of the new owners of the proposed high density housing project may default on their loans which would in turn create an absentee landlord neighborhood thus sending the gateway to Newberg into a decline and setting the tone for future developments and the economic status of Newberg.

The Lake Oswego developer proposes filling in and paving over our Newberg wetlands to make the development more profitable. A viable option would be for the city to trade a portion of the park on Vittoria for the wetlands and in turn create a park on the wetlands. Given the nature of wetlands the park need not be a conventional park with little more than grass and a basketball half court. The alternative wetland park could be a Japanese style garden with paths, bridges, benches, rock gardens, sculptured trees, tall grasses, and, of course water. This style park would be a source of beauty for the community at large.

In summary, the Lake Oswego developers should not determine the future composition of our Newberg community. The highest and best use would be a retirement community accented by an adjoining Japanese garden with the high density housing to be located along the bypass.

Sincerely,

Terry Coss

City of Newberg Community Development Department File NO: PUD 18-0001/cup 18-0004 August 1, 2018

Newberg Planning Commissioners,

I have concerns with the filling in of wetlands on the proposed development. There are 7 acres of wetlands on this property I understand that 5 of those acres will be filled in as the land is developed.

I have enclosed for the records a wetlands study of tax lot number 1100. This study was in the hands of the Department of State Lands for many years. Janet Morlan, Wetlands Program Manager for the State of Oregon had questions regarding this application, it is as important today as it ever was. This file is one of the reasons this land has been on hold for development for many years. Unfortunately for the developer the previous land owner had denied there were 7 acres of wetlands in public testimony.

This wetland is a tributary to Springbrook Creek. Springbrook Creek flows the entire length of our property at 30230 NE Benjamin Road, it flows under our driveway into the 1 acre pond that is part of the National Historic Wetlands. It then flows under 99W into the ponds located on the South side of 99W continuing to flow into the Willamette River. Any disturbance to the wetlands on this developed property could impact the surrounding tributary, creeks and properties. The filling in should not be allowed for this development, the wetlands should be preserved.

Also the filling of the wetlands will affect the aquifer that provides water to the Oxberg Water Company and the 39 residents that rely on the well. The cost if damaged will ultimately need to be borne by the City of Newberg and the developer.

The water impact to Oxberg's water rights, neighbors, streams corridors and creeks must be protected. Any damage could be very costly to the city.

Respectfully submitted,

Vicki Shepherd 30230 NE Benjamin Rd Newberg, OR 97132

Enclosed: 52 page report

RECEIVED

JUL 3 1 2018

Initial:



Department of State Lands

775 Summer Street NE, Suite 100 Salem, OR 97301-1279

(503) 378-3805

FAX (503) 378-4844 www.oregonstatelands.us.

RECEIVED

www.oregonst

State Land Board

JUL 3 1 2018

Theodore R. Kulongoski Governor

Initial:_____

Bill Bradbury Secretary of State

Re:

Wetland Delineation Report for 4505 E Portland Rd, Newberg; Yamhill

County; T 3S R 2W Sec. 16 Tax Lots 900, 1000 & 1100; WD #07-0345

Randall Edwards State Treasurer

Dear Mr. Speakman:

February 4, 2008

Tim Speakman

New B. Properties, LLC

3401 SW Huber Street Portland, OR 97219

The Department of State Lands has reviewed the wetland delineation report prepared by Schott and Associates for the site referenced above. Based upon the information presented in the report, we concur with the wetland and waterway boundaries as mapped in Wetland Map Pages 1 of 3 and 3 of 3 of the report. Within the study area, three wetlands (totaling approximately 2.24 acres) and two waterways within the mapped wetlands were identified. The wetlands and waterways are subject to the permit requirements of the state Removal-Fill Law. A state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in the wetlands or below the ordinary high water line (OHWL) of a waterway (or the 2 year recurrence interval flood elevation if OHWL cannot be determined).

This concurrence is for purposes of the state Removal-Fill Law only. Federal or local permit requirements may apply as well. The Army Corps of Engineers will review the report and make a determination of jurisdiction for purposes of the Clean Water Act at the time that a permit application is submitted. We recommend that you attach a copy of this concurrence letter to both copies of any subsequent joint permit application to speed application review.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Because measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you work with Department staff on appropriate site design before completing the city or county land use approval process.

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 and procedures for renewal of an expired determination are found in OAR 141-090-0045 (available on our web site or upon request). The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within 60 calendar days of the date of this letter.

Thank you for having the site evaluated. Please phone me at 503-986-5236 if you have any questions.

Sincerely,

Janet C. Morlan, PWS

Lanet C. Morlan

Wetlands Program Manager

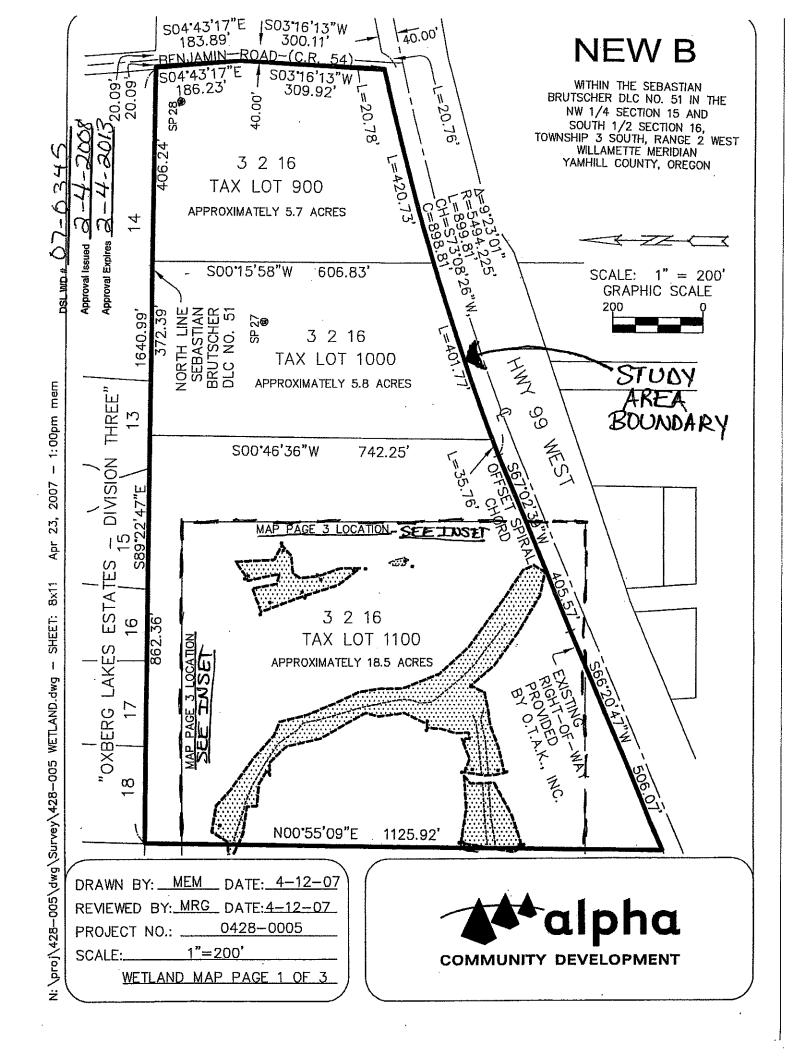
Enclosures

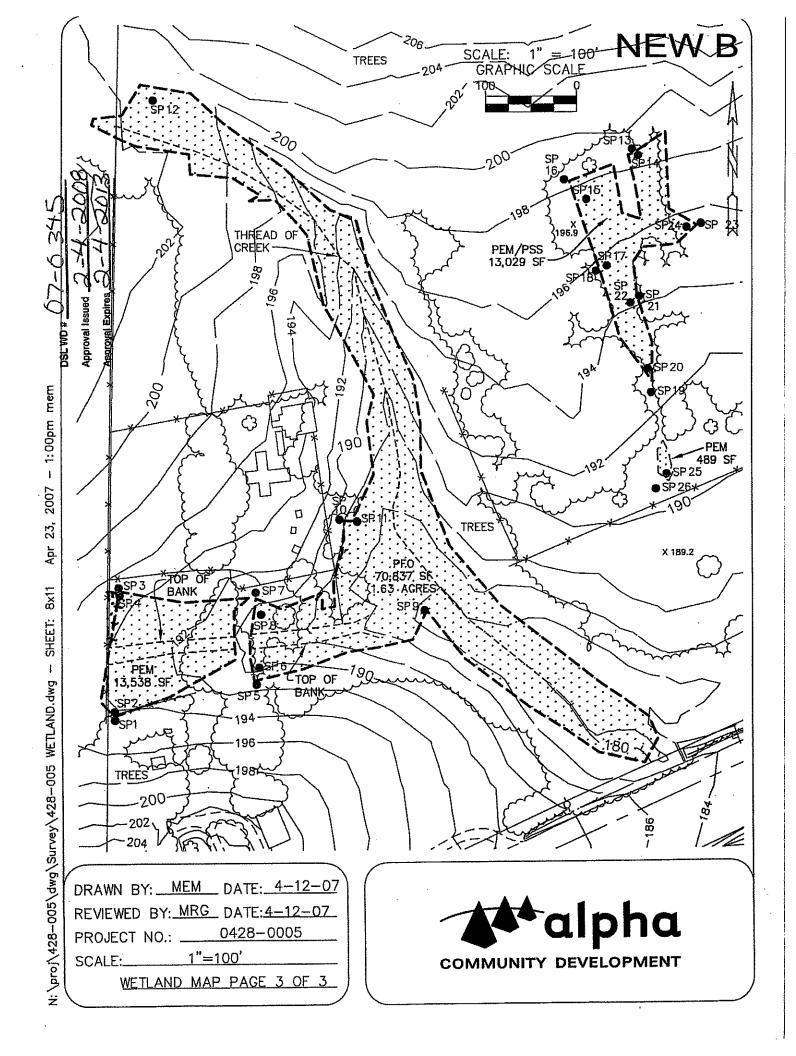
cc: Claudia Steinkoenig, Schott and Associates

City of Newberg, Planning Department

Tina Teed, Corps of Engineers

Carrie Landrum, DSL





Site Data Sheet

Project Name:

New B.

Project Number:

1985

Date of Site Visit:

February 21 & 28, 2007

Applicant:

Tim Speakman

Applicant's Address: 3401 SW Huber Street

Portland, Oregon 97219

Owner(s):

Same

Owner(s) Address:

State:

Oregon

County:

Yamhill

Site Location:

East of Victoria Way, North of 99W

USGS Quadrangle:

Newberg

Latitude/Longitude:

45°18.738'N / 122°55.870'W

Tax Map Information:3S2W Sect.16 TL 1100, 1000, 900

Watershed:

Willamette River

Adjacent Waterbody: Tributary of Spring Brook Creek

In the Floodplain:

Topography:

Gentle to moderate slopes

Site Zoning:

Agriculture/Forestry Small Holding (AF-10)

Proposed Use:

Residential/Commercial

Present/Past Use:

Rural/farmed

Surrounding Usage:

residential to the north and west/rural to the east

Determination:

2 unnamed tributaries of Spring Brook Creek, 0.32 acre PEM

wetland, 1.63 acre PFO wetland, 0.29 acre PEM/PSS

wetland

Days Since Last Rain:0

Mapping accuracy:

Alpha Community Development, PLS

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(A) Site Description

The 30-acre project area is located on the eastern edge of Newberg in Yamhill County, Oregon (SW1/4,NE1/4 Sec. 16, T3S, R2W TL#900,1000, 1100)(Figure 1) just outside of the city limits. The southern boundary abuts city limits. The study area is west of Benjamin Road and east of Victoria Way. Hwy 99W forms the southern property boundary. The new Providence Hospital (zoned I- Institutional) is to the southwest. The three tax lots that comprise the study area are designated as Agricultural/Forestry Small Holdings (AF-10).

For the purposes of this report, the project area will be described by tax lot. Tax lot 900 is located west of Benjamin Road and north of Highway 99 West. The lot is approximately 5.7 acres and has two homes and two large barns on it. The topography has gentle to moderate slopes to the east. The majority of the property consists of horse pasture comprised of grasses and forbs that include colonial bentgrass (Agrostis stolonifera), Kentucky bluegrass (Poa pratensis), tall fescue (Festuca arundinacea) and white clover (Trifolium repens) as dominants: Ornamental species were observed around the homes.

Tax Lot 1000 is located west of tax lot 900. It is 5.8 acres and has a vet clinic and associated buildings in the center of it. The topography slopes gently to the south, southeast. Fenced pastures are located on the south and north end of the property. Dominant vegetation includes bentgrass, Kentucky bluegrass, tall fescue and orchard grass (Dactylis glomerata). Groupings of Oregon Oak (Quercus garryana) and Douglas fir (Pseudotsuga menziesii) were scattered along the northern and western property perimeter.

Tax lot 1100 is 18.5 acres and located on the west end of the study area. Topography on the west end slopes gently east to two unnamed tributaries. The mid and east section of the tax lot slopes predominantly south. There is an existing residential home on the southwest end of the property and some outbuilding north of the home. A small drainage located behind the home flows to the east and joins a larger tributary of Spring Brook Creek which flows south to the Willamette River. Three meadow communities were identified on site. The first is along the western property boundary. The second is located southeast of the residence and the third is on the south end of the tax lot. The vegetation in the meadow communities consisted of grasses and forbs that included tall fescue, Kentucky bluegrass, bentgrass, orchard grass (Dactylis glomerata), and white clover, queen Anne's lace (Daucus carota) and cat's ear (Hypochoeris radicata) as subdominants. An upland forest community was located on the northern property boundary and included Oregon oak, Douglas fir, and bigleaf maple (Acer macrophyllum).

The dominant species found in the shrub layer included Service berry (Amelanchier alnifolia), Indian plum (Oemleria cerasiformis), beaked hazelnut (Corylus cornuta) and common snowberry (Symphoricarpos albus). Sword fern (Polystichum munitum) and English ivy (Hedera helix) were the dominants in the herbaceous layer.

A forested riparian area was located adjacent to the largest tributary. The tree species in the riparian forest include Oregon ash (Fraxinus latifolia) and willow (Salix sp.) Shrub communities varied from area to area along the drainage. Portions of the shrub layer consisted of a dense layer of Himalayan blackberry interspersed with dense patches of Nookta rose (Rosa nutkana) and Douglas spiraea (Spiraea douglasii). Species identified in the herbaceous layer included slough sedge (Carex obnupta), water parsley (Oenanthe sarmentosa) and bentgrass.

The National Wetland Inventory (NWI) map for Newberg shows a tributary of Spring Brook Creek on the west end of the study area. There is no Local Wetland Inventory (LWI) for the area. The Yamhill County Soil Survey indicated two mapping units on the property that include Woodburn silt loam and Amity silt loam. The topographic map shows a site gently sloping north, northeast.

Project purpose

The site is proposed for commercial development to service the new hospital across the street and the adjacent residential areas. The developer of the site is currently applying for annexation into the city of Newberg and rezoning designation to Community Commercial.

(B) Wetland Description

Based on soil, hydrology and vegetation data taken on site two unnamed tributaries of Spring Brook Creek, and four wetlands were delineated. Two of the wetlands are adjacent to the tributaries. A 0.31 acres palustrine emergent/RFT wetland is located along a short portion of the smaller tributary on the west end of the property. The second wetland is 1.63 acres palustrine forested/RFT wetland adjacent to the remaining portion of the smaller tributary and the entire length of the larger tributary. The other two wetlands are isolated and located in the north mid-section of the property. The larger wetland is 0.29 acre and classified as palustrine emergent/scrub-shrub/slope wetland. The smaller one is 0.011 acres classified as a palustrine emergent/slope wetland.

A small seasonal drainage channel enters on the southwest end of tax lot 1100. It is the extension of a drainage located on the adjoining property to the west. The hydrology of the channel is associated with stormwater runoff from the neighborhood to the west. The drainage channel is u-shaped with a varying width of 2 to 3 feet and depth of approximately 3.5 feet. It has a mud and small cobble substrate bottom. The drainage flows east and drains into a larger tributary of Spring Brook Creek. Duckweed (Lemna

minor) was observed growing in portions of the drainage. The drainage has a defined channel for approximately 250 feet and then flattens out, draining as surface and subsurface lateral flow into the tributary of Spring Brook Creek.

A larger, unnamed perennial tributary of Spring Brook Creek enters the northwest corner of tax lot 1100 and exits the property on the south side. It flows to the south joining Spring Brook Creek on the south side of Hwy 99W. Portions of the creek are confined to a single channel while other portions of the channel are braided.

Two wetlands were identified adjacent to the two tributaries. The first is a 0.31 acre palustrine emergent (PEM/RFT) wetland. It was located on the west end of the study site where the smaller drainage entered the site. The plant community in this area is a meadow comprised of grasses and forbs. The dominant species are tall fescue and bentgrass. Hydrology for the wetland on the north and south side of the drainage is associated with precipitation, a seasonal high water table and overflow from the drainage during winter high water.

The second wetland is 1.63 acres and forested (PFO/RFT). The dominant tree in the canopy is Oregon ash (Fraxinus latifolia). The shrub layer consists of large dense patches of Douglas spirea (Spiraea douglasii) and nootka rose (Rosa nutkana). The herbaceous layer includes large patches of slough sedge (Carex obnupta) and water parsley (Oenanthe sarmentosa). Hydrology of the wetland is associated with precipitation, a seasonal high water table and overflow from the drainage during winter high water. The southern end of the drainage is fed by a perennial spring.

The other two wetlands are isolated and located in the north mid-section of the property. The larger wetland is 0.29 acres and classified as palustrine emergent/scrub-shrub/slope wetland. The dominant vegetation in the emergent portion is meadow foxtail (Alopecurus pratensis) and bentgrass (Agrostis stolonifera). The shrubs in the scrub shrub communities were nootka rose (Rosa nutkana) with scattered patches of hawthorn (Crataegus sp). The second isolated wetland is immediately below the first. It consists of a small depressional area with colonial bentgrass and meadow foxtail as the dominants.

The analysis of wetlands conducted on this site was based on published methods for implementing Section 404 of the Clean Water Act. The 1987 manual was used to satisfy the requirements of the COE on non-agricultural land. The manual requires three parameters to be examined: vegetation, soils, and hydrology. According to the 1987 manual, independent evidence of hydrophytic vegetation, hydric soils, and wetland hydrology must be present for an area to be declared a wetland. The analysis of wetlands on the project site was conducted by reviewing and analyzing existing site-specific literature and by field investigation.

(C) Site Analysis

The three tax lots that comprise the study area are designated as Agricultural/Forestry Small Holdings (AF-10). There was no evidence of alterations to the drainages observed onsite. The hydrology associated with the smaller drainage is stormwater runoff from the neighborhood to the west.

(D) Site Specific Methods

The Routine Onsite Determination Method (1987 manual, pp. 52-69) was used to determine the State of Oregon wetland boundaries and the Federal jurisdictional wetlands. The entire study area was walked and observed for wetland characteristics. Sample plots were dug and placed in areas determined to meet all wetland criteria. Adjacent plots were placed in the upland.

The first area investigated was located on the west end of the study site. A drainage swale located on the adjacent property to the west extended east into the study area. A delineation for the property to the west was conducted a year ago and is pending review by DSL. The area consists of a grazed meadow community with dominant grasses of bentgrass and fescue. Areas with wetland characteristics extend north and south of the drainage by approximately 30-40 feet. The source of hydrology for the wetland on the north and south side of the drainage is associated with precipitation, a seasonal high water table and overflow from the drainage during winter high water. The area had recently received days of heavy rain so that the ground water table was exceptionally high.

Along the north side of the swale the wetland boundary was determined predominantly by soil and hydrology since the vegetation in both wetland and upland were the same. On the south side of the swale the vegetation was the determining factor. The soil matrix color in the wetland varied between 10YR3/1 with redox concentrations of 10YR3/4 in sample plot 2 and 10YR3/2 with redox concentrations of 10YR3/6 in sample plot 4. Both sample plots had a depth to free water between 6 and 8 inches.

The upland area on the south side of the swale was determined by the vegetation. The topography was slightly higher and Himalayan blackberry formed a dense hedge. Some Douglas fir trees were planted in this area as well. On the north side of the swale the upland area did not have hydric soil or wetland hydrology.

Approximately 130 feet east of the property line a small berm built for vehicle access to the back barn area crosses the drainage and wetland area. The berm has been in place on the property well over fifty years. The drainage crosses the berm via a small culvert. It flows an additional 120 feet before it becomes an undefined channel and flows as broad sheet flow into the other tributary.

The wetland continues past the berm and is located adjacent to the tributaries. The plant community on the east side of the berm slowly transitions from a meadow into a forested community that joins the riparian community along the main tributary. Soils in this portion of the wetland (Sample plot, 8, 9 & 11) predominantly have a matrix value of 10YR3/2 with redox concentrations of 10YR3/6.

The upland edge was obvious by topography as well as vegetation and hydrology. The overstory transitioned from Oregon ash into Oregon oak and Douglas fir on the north end. Further south the vegetation in the upland riparian area had Oregon ash mixed with common snowberry (Symphoricarpos alba), beaked hazelnut (Corylus cornuta) and Himalayan blackberry. Upland soils observed along the tributaries included matrix colors of 10YR3/3 (sample plot 5), from 0 to 12 inches, 10YR4/2 (sample plot 7) and (10YR3/2) (sample plot 10). No redox concentration were observed within 10 inches and no evidence of wetland hydrology was observed.

The wetland identified in the middle of tax lot 1100 consists of an emergent and scrub shrub wetland. The majority of it is located in a clearing surrounded by dense thickets of English hawthorn, Himalayan blackberry and various overgrown fruit trees. The vegetation in the northern portion of the wetland consisted of scattered dense thickets of nootka rose (*Rosa nutkana*). Meadow foxtail was the dominant grass. The soil matrix color varied between 10YR3/2 and 10YR4/2 with redox concentrations that varied in color. The hydrology of the wetland was associated with overland sheet flow and a seasonal high water table. The wetland was hummocky with slight shift in topography along the upland edge.

The vegetation in the upland area was similar to the wetland vegetation. The upland area had a predominant soil color of 10YR3/2 with no redox concentrations (sample plot 13, 16, 18, 19, 23, 26) and no wetland hydrology.

(E) Deviation

No deviations were observed. The National Wetland Inventory (NWI) map for Newberg did not show any wetlands in the project area. It did show the tributary of Spring Brook Creek on the western portion of the study area. There is no Local Wetland Inventory (LWI) for the area.

(F) Methods of Determining Other Waters of the State

No other waters of the state were observed onsite. The top of bank was defined for the smaller tributary that flow west to east. The larger tributary had the center line mapped for the main branch of the creek, because the mid section is braided.

(G) Additional Info

None.

(H) Statement of Mapping Accuracy

The wetland boundaries were flagged and the flags were surveyed by Alpha Community Development, PLS.

(I) Date of Investigation

The site was visited on February 21 and 28, 2007.

(I) Weather

The weather on the day of the February 21 site visit was cold and rainy. The day before 0.67 inches of rain were recorded at the Forest Grove weather station. 2.48 inches of rain were recorded for the past two weeks.

The weather on the day of the February 28 site visit was cold interspersed with periods of hail, rain and sun. There was 0.26 inches of rain the day prior to the site visit. 3.21 inches of rain were recorded for the past two weeks. This is 52 percent of the average for the entire month. A total of 36.56 inches were recorded since October 1, 2006. This is 115 percent of the water year average.

(K) Results and Conclusions

The National Wetland Inventory (NWI) map did not show any onsite wetlands however it did show a tributary of Spring Brook Creek on the west end of the site. There is no Local Wetland Inventory for the Newberg area. The Yamhill County Soil Survey mapped two soil series on the subject property: Amity silt loam and Woodburn silt loam 0 to 7 percent slopes and 7 to 12 percent slopes. The Amity series is somewhat poorly drained. This soil series is not listed as hydric however it does have hydric inclusions. Some of the soil observed on site matched the Amity series.

Based on soil, hydrology and vegetation data taken on site two unnamed tributaries of Spring Brook Creek, and four wetlands were delineated. The smaller drainage is seasonal, the larger has recently developed a perennial flow. Two of the wetlands are adjacent to the tributaries. A 0.31 acres palustrine emergent/RFT wetland is located along a short portion of the smaller tributary on the west end of the property. The second wetland is 1.63 acres palustrine forested/RFT wetland adjacent to the tributaries. The other two wetlands are isolated and located in the north mid-section of the property. The larger wetland is 0.29 acre and classified as palustrine emergent/scrub-shrub/slope wetland. The smaller one is 0.011 acres classified as a palustrine emergent/slope wetland.

(L) Required Disclaimer

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

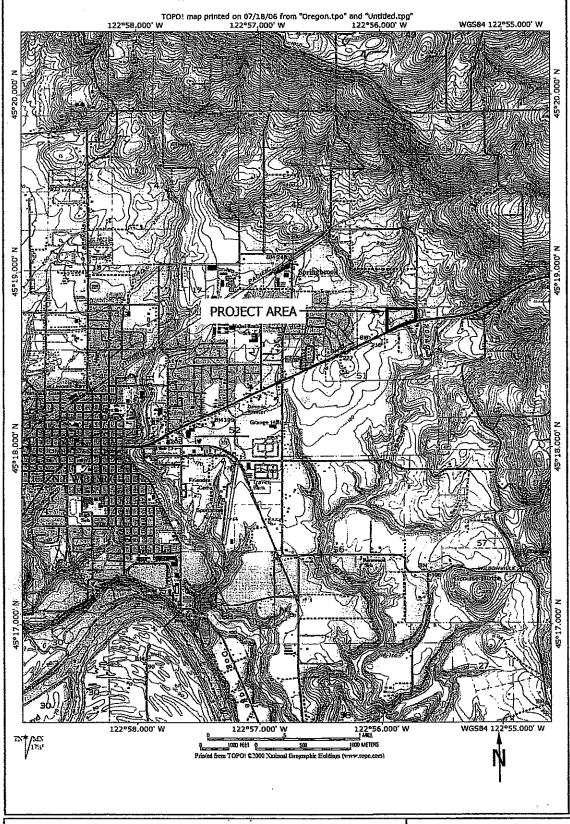


FIGURE 1. SITE VICINITY MAP S&A #1985

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

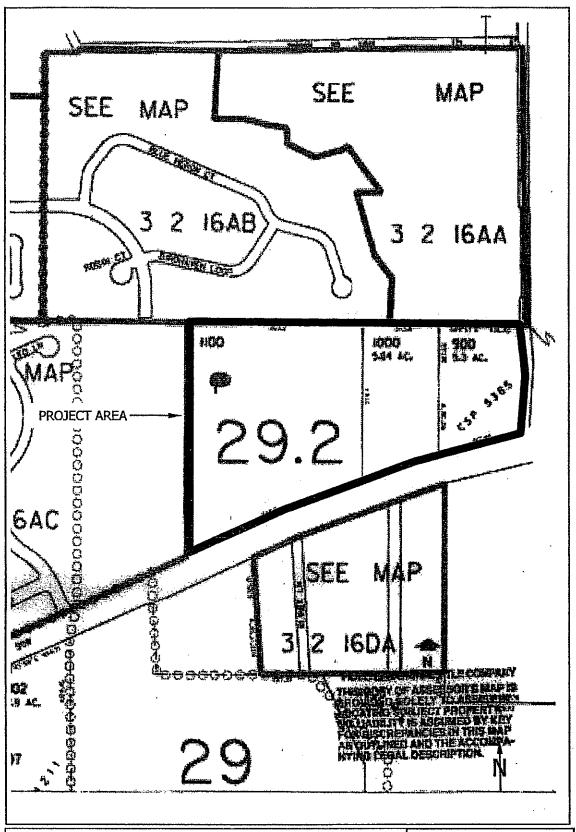


FIGURE 2. TAX MAP S&A #1985 Schott & Associates P.O. Box 589 Aurora, OR. 97002 503.678.6007

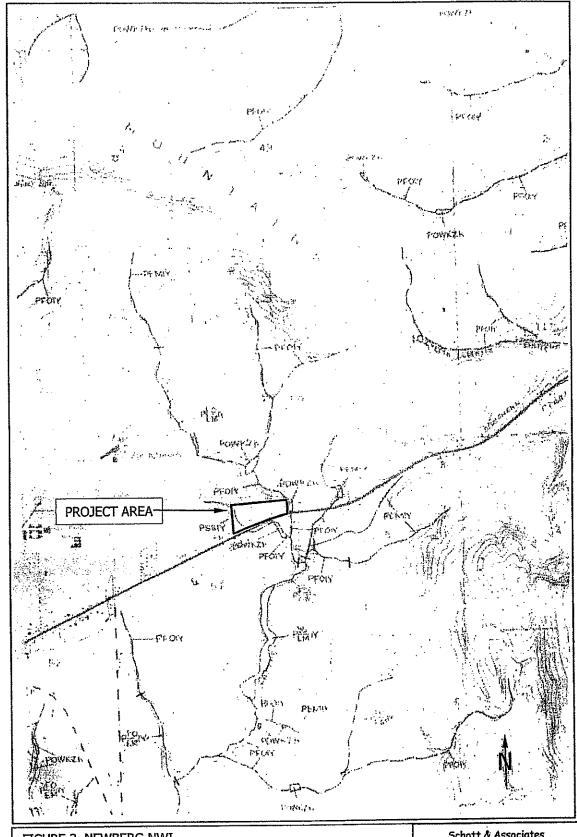
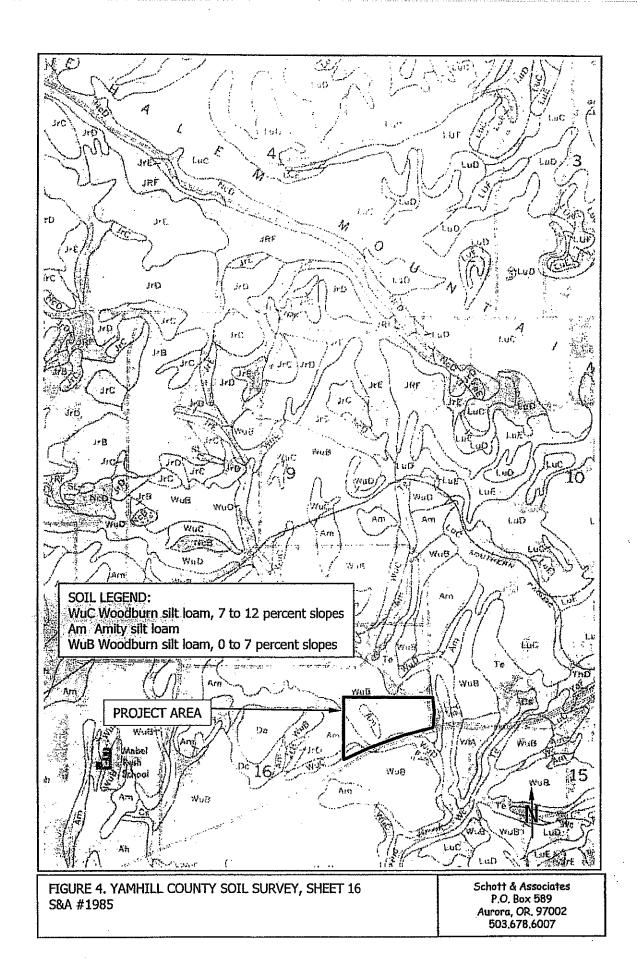


FIGURE 3. NEWBERG NWI S&A #1985

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



Data Forms

County: Yamhill	,	Date:	2/21	City: N	ewhere	T-100 41	Auck Meino
- O COMITACL NEWS	JCS		" "		411001E	File #	:1985
Plant Community: mea	adow			Plot #:1	: C. Steinkoenig		
Plot Location: south side	of swale			1 101 17.1			
Recent Weather: rainy a	ind cold						
Do normal environment	al conditions e	xist? YX	ΝП	If no, expl	o i m.		
TYRE A CRETATION	Soil 🗌			neen cionifi	dilli		
Explain:		,-	- C	ocu sigiiii	cantly disturbed?		
			VEGE	TATION			
	Tree Stratu	m	VEGE	IAIIUN			
		~~~			He	rb Stratum	
Total Plot Cover:5	2.5 = 50%	6 1.=2	2007	-			
			Raw % Cover	Total Plo	t Cover:100	50 = 50%	6 20 = 20%
1.Pseudotsuga menziesii		FACU 5	*				Status/Raw % Co
2.		17100 3			1.Festuca arundina	асеа	FAC- 100*
3		***************************************	· · · · · · · · · · · · · · · · · · ·		2.		
4.		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		3.		
5.			<del>"                                    </del>		4.		
Sapling/Shrub Stratum				<del></del>	5.		
Total Plot Cover:20	10= 50%	4= 20%	Status /D	D( C)	6.		
l.Rubus discolor			Status/Raw		7.		
2.		···	FACU- 20	<i>J</i> T	8.		
3	<del></del>				9.		
4.		· · · · · · · · · · · · · · · · · · ·	<u> </u>		10.		
5.	<del></del>	· · · · · · · · · · · · · · · · · · ·	<del></del>		11.		
Hydrophytic Vegetation	Indicators				12.		
3 > 50% of dominants are	ODI TACUI						
Map Unit Name: Amity si	No Comm	ents: Hydroph Drainage	ytic veg. not e <u>SOI</u> Class: Somew	exceeding : <u>LS</u> what poorly	drained	(not FAC-):5(	)
Map Unit Name: Amity sii	I No Comma It loam Yes ⊠ No	ents: Hydroph Drainage Has Hydri	ytic veg. not e <b>SO</b> I	exceeding : <u>LS</u> what poorly	50 percent.	(not FAC-):50	)
Map Unit Name: Amity si On Hydric Soil List?	I No Commilt loam Yes No Matrix Color	ents: Hydroph Drainage Has Hydri	ytic veg, not e SOI Class: Somew c Inclusions? Redox Conce	exceeding .  LS  what poorly  Yes  ntrations	50 percent. drained No		
Map Unit Name: Amity si On Hydric Soil List?	INO Comme It loam Yes No Matrix Color 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions?  Redox Conce 10YR3/4 FFI	exceeding .  LS  /hat poorly  Yes [  ntrations	50 percent.	ıs Te	exture
Map Unit Name: Amity since Popth Range of Horizon  -8	I No Commilt loam Yes No Matrix Color	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions?  Redox Conce 10YR3/4 FFI	exceeding .  LS  /hat poorly  Yes [  ntrations	50 percent. drained No	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon -8 -16	INO Comme It loam Yes No Matrix Color 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg, not e SOI Class: Somew c Inclusions? Redox Conce	exceeding .  LS  /hat poorly  Yes [  ntrations	50 percent. drained No	ıs Te	exture CL
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon -8 -16  [ydric Soil Indicators:	INO Comme It loam Yes No Matrix Color 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions?  Redox Conce 10YR3/4 FFI	exceeding .  LS  /hat poorly  Yes [  ntrations	50 percent. drained No	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon -8 -16  Iydric Soil Indicators:	INO Comme It loam Yes No Matrix Color 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not of SOI Class: Somework of Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM	exceeding .  LS  that poorly Yes  ntrations P	50 percent.  drained No Redox Depletion	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon -8 -16  Lydric Soil Indicators: Histosol Histic Epipedon	INO Comme It loam Yes No Matrix Color 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not of SOI Class: Somework of Inclusions? Redox Conce. 10YR3/4 FFI 10YR3/4 CM	exceeding LS  that poorly Yes  ntrations  P	drained No Redox Depletion	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon -8 -16  Iydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor	It loam Yes No  Matrix Color 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions?  Redox Conce 10YR3/4 FFI 10YR3/4 CM	exceeding LS  That poorly Yes	drained No Redox Depletion  Odules (w/in 3", > 2mi ontent in surface (in S	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  Iydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo	INO Comme It loam Yes No Matrix Color 10YR3/1 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions?  Redox Conce 10YR3/4 FFI 10YR3/4 CM	exceeding LS  That poorly Yes	drained No  Redox Depletion  Odules (w/in 3", > 2mi ontent in surface (in S ing (in Sandy Soils) a Sandy Soils)	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  Iydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo	INO Comme It loam Yes No Matrix Color 10YR3/1 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions?  Redox Conce 10YR3/4 FFI 10YR3/4 CM  Co Hig	exceeding LS  That poorly Yes  ntrations  P  ncretions/N gh organic c ganic streak; ganic pan (in sted on Hyd	drained No  Redox Depletion  Odules (w/in 3", > 2mi ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  [ydric Soil Indicators: [Histosol [Histic Epipedon [Sulfidic Odor [Reducing Conditions (tests [Gleyed or low chroma colo [Redox features within 10" (	INO Comme It loam Yes No Matrix Color 10YR3/1 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM  Co Hig Or Or M Lis	exceeding  LS  what poorly  Yes  ntrations  P  ncretions/N gh organic c ganic streak ganic pan (in sted on Hyd eets hydric s	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (nor	ns Te	exture CL
Ap Unit Name: Amity since the	INO Comme It loam Yes No Matrix Color 10YR3/1 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM  Co Hig Or Or M Lis	exceeding  LS  what poorly  Yes  ntrations  P  ncretions/N gh organic c ganic streak ganic pan (in sted on Hyd eets hydric s	drained No  Redox Depletion  Odules (w/in 3", > 2mi ontent in surface (in S ing (in Sandy Soils) a Sandy Soils)	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (  riteria Met? Yes	It loam Yes No  Matrix Color 10YR3/1 10YR3/1  positive) rs (e.g., concentration	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions?  Redox Conce: 10YR3/4 FFI 10YR3/4 CM  Co Hig Org Org Su Su	exceeding  LS  Phat poorly Yes	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (nor	ns Te	exture CL
Map Unit Name: Amity since the Property of the	It loam Yes No  Matrix Color 10YR3/1 10YR3/1  positive) rs (e.g., concentrati	ents: Hydroph  Drainage ( Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions?  Redox Conce: 10YR3/4 FFI 10YR3/4 CM  Co Hig Org Cor Su Su HYDROI	exceeding  LS  Phat poorly Yes  Intrations  P  Incretions/N  gh organic c  ganic streak  ganic pan (in  sted on Hyd  eets hydric s  pplemental  LOGY	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (nor	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  Lydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests IGleyed or low chroma colo Redox features within 10" (  riteria Met? Yes  Ecorded Data: Recorded Data Available	It loam Yes No  Matrix Color 10YR3/1 10YR3/1  positive) rs (e.g., concentration	ents: Hydroph  Drainage ( Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions?  Redox Conce: 10YR3/4 FFI 10YR3/4 CM  Co Hig Org Org Su Su	exceeding  LS  what poorly Yes  ntrations  P  ncretions/N gh organic c ganic streak ganic pan (in sted on Hyd eets hydric s pplemental	drained No  Redox Depletion  Redox Depletion  odules (w/in 3", > 2m ontent in surface (in S ing (in Sandy Soils) a Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS	ns Te	exture CL  es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (  riteria Met? Yes  ecorded Data: Recorded Data Recorded Data	It loam Yes No  Matrix Color 10YR3/1 10YR3/1  positive) rs (e.g., concentrati	ents: Hydroph Drainage Has Hydri  ions)	ytic veg. not e SOI Class: Somework of Inclusions? Redox Conce. 10YR3/4 FFI 10YR3/4 CM  Co Hig Org Cr Su Su HYDROI  Stream Gauge	exceeding  LS  what poorly Yes  ntrations  P  ncretions/N gh organic c ganic streak ganic pan (in sted on Hyd eets hydric s pplemental	drained No  Redox Depletion  Redox Depletion  odules (w/in 3", > 2m ontent in surface (in S ing (in Sandy Soils) a Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS	ns Te	exture CL  es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -816  Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (  riteria Met?  Yes  ecorded Data: Recorded Data epth of inundation:	INO Committee It loam Yes No  Matrix Color 10YR3/1 10YR3/1  positive) rs (e.g., concentration No	otos  Depth to Satura	ytic veg. not e SOI Class: Somework ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM  Co Hig Org Cr Suj HYDROI  Stream Gauge ation: 10"	exceeding :  LS  what poorly  Yes [  Intrations  P  Incretions/N  Incretions/N  Incretions of the contract of	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS)  Other No F	ns Te	exture CL  es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (  riteria Met? Yes  ecorded Data: Recorded Data Recorded Data	INO Committee It loam Yes No  Matrix Color 10YR3/1 10YR3/1  positive) rs (e.g., concentration No	ents: Hydroph Drainage ( Has Hydri  ions)  Depth to Satura Secondary 1	ytic veg. not e SOI Class: Somewood inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Org Org Suj HYDROI Stream Gauge ation:10"	exceeding :  LS  what poorly  Yes [  Intrations  P  Incretions/N  Incret	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS)  Other No R  h to Free Water:	ns Te	exture CL  es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (  riteria Met?  Yes  ecorded Data: Recorded Data pth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches	It loam Yes No  Matrix Color 10YR3/1 10YR3/1  positive) rs (e.g., concentrati	onts: Hydroph Drainage ( Has Hydri  Has Hydri  Drainage (  Das Hydri  Donations)	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM  Co Hig Org Co Su Su HYDROI Stream Gauge ation:10"	exceeding :  LS  what poorly  Yes [  Intrations  P  Incretions/N  Incret	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS)  Other No R  h to Free Water:	ns Te	exture CL 
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  Lydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests  Gleyed or low chroma colo  Redox features within 10" (  riteria Met?  Ecorded Data:  Recorded Data  epth of inundation:  imary Hydrology Indicator	It loam Yes No  Matrix Color 10YR3/1 10YR3/1  positive) rs (e.g., concentrati	ions)  Depth to Satura  Secondary I  Oxidized I  Water-stai	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM  Co Hig Org Org Su HYDROI  Stream Gauge ation:10" Hydrology Ind Root Channels ned leaves	exceeding :  LS  what poorly  Yes [  Intrations  P  Incretions/N  Incret	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS)  Other No R  h to Free Water:	ns Te	exture CL 
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -816  Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (  riteria Met? Yes  ecorded Data: Recorded Data cpth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines	It loam Yes No  Matrix Color 10YR3/1 10YR3/1  positive) rs (e.g., concentrati	ions)  Depth to Satura Secondary I  Water-stai Local Soil	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM  Co Hig Org Co Hig Su HYDROI  Stream Gauge ation:10" Hydrology Ind Root Channels ned leaves Survey Data	exceeding :  LS  what poorly  Yes [  Intrations  P  Incretions/N  Incret	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS)  Other No R  h to Free Water:	ns Te	exture CL  es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -816  Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (  riteria Met? Yes  Recorded Data: Recorded Data  pth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	It loam  It loam  Yes No  Matrix Color  10YR3/1  10YR3/1  positive)  rs  (e.g., concentration  No  Aerial Pho	ions)  Depth to Satura Secondary I  Water-stai Local Soil FAC - Ne	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM  Co Hig Org Co Hig Su HYDROI  Stream Gauge ation:10" Hydrology Ind Root Channels ned leaves Survey Data	exceeding :  LS  what poorly  Yes [  Intrations  P  Incretions/N  Incret	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS)  Other No R  h to Free Water:	ns Te	exture CL  es) if for long duration)
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -816  Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (  riteria Met? Yes  Recorded Data: Recorded Data  pth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	It loam  It loam  Yes No  Matrix Color  10YR3/1  10YR3/1  positive)  rs  (e.g., concentration  No  Aerial Pho	ions)  Depth to Satura Secondary I  Oxidized I  Water-stai  Local Soil  FAC - Nei  Other:	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM  Co Hig Or Or Su HYDROI  Stream Gauge ation: 10" Hydrology Ind Root Channels ned leaves Survey Data utral Test	exceeding :  LS  what poorly  Yes [  Intrations  P  Incretions/N  Incretions/N  Incretions treak  Incretion the steed on Hydie  Incretion the steed on Hydie	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS)  Other No F th to Free Water: or more required):	ns Te	exture CL  es) if for long duration)
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests IGleyed or low chroma colo Redox features within 10" (  riteria Met?  Ecorded Data: Recorded Data Available eld Data pth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	It loam  It loam  Yes No  Matrix Color  10YR3/1  10YR3/1  positive)  rs  (e.g., concentration  No  Aerial Pho	ions)  Depth to Satura Secondary I  Oxidized I  Water-stai  Local Soil  FAC - Nei  Other:	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM  Co Hig Or Or Su HYDROI  Stream Gauge ation: 10" Hydrology Ind Root Channels ned leaves Survey Data utral Test	exceeding :  LS  what poorly  Yes [  Intrations  P  Incretions/N  Incretions/N  Incretions treak  Incretion the steed on Hydie  Incretion the steed on Hydie	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS)  Other No R  h to Free Water:	ns Te	exture CL  es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List?  Depth Range of Horizon  -8 -16  Iydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (  riteria Met?  Yes  Ecorded Data: Recorded Data Available eld Data Epth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits iteria Met?  Yes	It loam Yes No  Matrix Color 10YR3/1 10YR3/1  positive) rs (e.g., concentrati	Drainage (Has Hydrinage) Has Hydrinage (Has Hydrinage) Depth to Satura Secondary (Has Hydrinage) Doxidized (Has Hydrinage)	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce: 10YR3/4 FFI 10YR3/4 CM  Co Hig Org Co Hig Su HYDROI  Stream Gauge ation: 10" Hydrology Ind Root Channels ned leaves Survey Data utral Test  ts: Recent hear	exceeding :  LS  what poorly  Yes [  Intrations  P  Intrations  P  Incretions/N  Incretions/N  Incretions are a contracted on Hydric streated on H	drained No  Redox Depletion  odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS)  Other No F th to Free Water: or more required):	ns Te	exture CL  es) d for long duration)

County: Yamhill	F SIAIE LA	Date: 2/2					
Project/Contact: NewB./C	25	Date: 2/2	1	City: Ne		File #:	1985
Plant Community: mead				Plot #:2	C. Steinkoenig		
Plot Location: paired with				PIOL#.Z			
Recent Weather: rainy and							
Do normal environmental		VΩ	N I	fno evolo	in.		
Has Vegetation	Soil _	Hydrol		f no, expla	an: antly disturbed?		
Explain:	5011	Hydroi	ogy L De	en signine	andy disturbed?		
zapani,			VEGET	ATION			
,	Tree Stratum		YEGEZ	AHON	F	lerb Stratum	l
Total Plot Cover:0	0 = 50%	0 = 20%		Total Plot	Cover:100	50 = 50	
1	· · · · · · · · · · · · · · · · · · ·	Status/Ra	w % Cover				Status/Raw % Cover
1.				····	1.Agrostis stolon	ifera	FAC 25*
3.					2.Poa pratensis		FAC 10
4.		-		1 THE TOTAL PROPERTY.	3.MOSS		65
5.					4.		
Sapling/Shrub Stratum				***************************************	5.		
Total Plot Cover:	= 50%	= 20%	Status/Raw	94 Cover	7.		
1.	- 3076	- ZU78	otatus/Kaw	70 COVET	8.		
2.					9.		
3.						····	
4.					10.		
5.					11.		
Hydrophytic Vegetation	Tadiantaun.		<u> </u>		12.	<del></del>	
Other hydrophytic vegetation Criteria Met? Yes  Map Unit Name: Amity si On Hydric Soil List?	] No Comments It loam	Drainage (	tic veg. exc SOI Class: Somev Inclusions	<u>(LS</u> what poorl	y drained		
Depth Range of Horizon	Matrix Color		Redox Conce		Redox Deple		Texture
0-7	10YR3/1		0YR3/4 FF			<del></del>	Si CL
7-16	10YR3/1	1	0YR3/4 CF	D			CL
			·····				
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10"  Criteria Met? Yes	ors	s)	□H □0 □ □ □ □	ligh organic organic strea organic pan Listed on Hy Meets hydri	Nodules (w/in 3", > content in surface (aking (in Sandy Soils) (in Sandy Soils) ydric Soils List (and c soil criteria 3 or 4 al indicator (e.g., NI	(in Sandy Soils) s) soil profile mat (ponded or floo	tches) oded for long duration)
			HYDRO	<u>DLOGY</u>			
Recorded Data:  Recorded Data Available	☐Aerial Photo	s [	⊒Stream Gau	ige [	Other 🛛	No Recorded D	ata Available
Field Data Depth of inundation: Primary Hydrology Indicated Inundated Saturated in upper 12 inch Water Marks Drift Lines	tors:	⊠Oxidized  □Water-sta  □Local So  □FAC - N	Hydrology I Root Channe ined leaves il Survey Dat	ndicators ( els (upper 1	pth to Free Water:6' 2 or more required) 2")		
☐ Sediment Deposits  Criteria Met? ☐ Yes ☐	] No	Other:	nts: A lot of	moss growi	ing on ground.		
WETLAND? ⊠YES □	NO Comments:	Wetland crit	DETERM eia is met.	<u>INATION</u>			

DEPARTMENT OF ST	ATE LANDS	WETLAND	DETERN	MINATION DATA	TODIE O	
	Date:	2/21	City: Nev	Where	FURM - Q	nck Method
Project/Contact: NewB./CS		2,27		C. Steinkoenig	File #:1985	
Plant Community: meadow			Plot #:3	C. Steinkoenig		
Plot Location: North side of swale	<b>.</b>		1 101 #.5			
Recent Weather: rainy and cold						
Do normal environmental condit	ions exist? VX	ΝП	Ifno ambi			
Has Vegetation So		· · ·	If no, explai			
Explain:		arotoPà 🗀 0	cen aiginne	antly disturbed?		
-		VECE	TATION			
Tree S	tratum	Y EGE.	IATION			
1	uacum			Herb S	Stratum	
Total Plot Cover:0 0 =	= 50% 0 =	20%	<b>6</b> . 1 51 .			
		15/Raw % Cover	Total Plot	Cover:100	50 = 50%	20 = 20%
1.	- State	13/14ZW /B COVEL	J	1 / //	Str	tus/Raw % Cover
2.		<del></del>		1.Agrostis stolonifera 2.Festuca arundinacea		FAC 80*
3.				3.Trifolium repens		FAC- 15
4.				4.Daucus carota		FACU+ 5
5.		·		5.Geranium richardsoni		NOL trace
Sapling/Shrub Stratum				6.Hypochoeris radical		trace
	50% = 20	% Status/Rav	v % Cover	7.	····	trace
1.			7 70 00 701	8.		
2.				9.	<u> </u>	
3.				10.		
4.				11.		
5.				12.		
Hydrophytic Vegetation Indicat	tors:					
≥ 50% of dominants are OBL, FA	ACW or FAC. Perce	nt of Dominant S	naging that a	ODI DICUIDICO	. 5.40 \ 400	
					t FAC-):100	
Criteria Met? XYes No	Comments: Hydro	phytic veg exc	eeds 50 ner	rent		
· <del>···</del>		SOI		ont,		
Map Unit Name: Amity silt loam	Drainac	ge Class: Somev	what poorly	drained		
On Hydric Soil List? Yes	No Has Hy	dric Inclusions	Ves □	l No		
			. K7 100 [	1110		
Depth Range of Horizon   Matrix	Color	Redox Conce	entrations	Redox Depletions	Texture	
0-12 10YR	3/2	None		X COUCK D OPTOLIONS	CL L	
12-16 10YR	4/2	10YR4/4 CC	р		SI CI	
		10000	, .		31 (1	
Hydric Soil Indicators:						
Histosol		Пс	oncretions/N	odules (w/in 3", > 2mm)		
Histic Epipedon		ПH	igh organic c	ontent in surface (in Sand	v Soile)	
Sulfidic Odor			rganic streaki	ng (in Sandy Soils)	y bona)	
Reducing Conditions (tests positive	e)	<u></u> □0:	rganic pan (ir	Sandy Soils)		
Gleyed or low chroma colors		□L	isted on Hyd:	ric Soils List (and soil pro	file matches)	
Redox features within 10" (e.g., con	ncentrations)	N	Aeets hydric s	soil criteria 3 or 4 (ponded	l or flooded for lon	g duration)
Criteria Met? Yes No		□ S	upplemental	indicator (e.g., NRCS field	d indicator)	
Criteria Met?   Yes   No				1		
Recorded Data:		<u>HYDRO</u>	<u>LOGY</u>			
	erial Photos	По: о	-	-		
Field Data	CHAI PHOTOS	Stream Gau	ge ∐(	Other 🔲 No Reco	orded Data Availab	le
Depth of inundation:	Depth to Sa	ituration.	Τ.	anth in The 197-		
Primary Hydrology Indicators:			U . C) awatana (2)	epth to Free Water: or more required):		
☐ Inundated	∏Oxidi:	zed Root Channel	s (upper 19"	n more required):		
Saturated in upper 12 inches	Water	-stained leaves	ա (ահերը 17	,		
Water Marks	Local	Soil Survey Data				
Drift Lines	□FAC-	- Neutral Test				
Sediment Deposits	Other:					
Criteria Met? Yes No	Com	ments: .			•	
				•		

DEPARTMENT (	<u> OF STATE LA</u>	NDS WE	TLAND:	DETER	MINATION	DATA FO	)RM _ ∩	nick Mathad
Country. I mining	i i	Date: 2/	21	City: Ne	wberg	Fil	e #:1985	MICK MICERIOR
Project/Contact: NewB./	CS		····		C. Steinkoenig		0 11.1703	****
Plant Community: mean	dow			Plot #:4	<b>.</b>			
Plot Location: Paired with	sample plot 3							
Recent Weather: rainy ar	id cold							
Do normal environmenta				f no, expla	in:			
Has Vegetation	Soil 🗌	Hydro	ology 🔲 🛮 bo	en signific	antly disturbed?	?		
Explain:								
	Tree Stratum	n-7-1	VEGET	ATION		TY 1 CT.		ment <u>range</u>
	1100 Biratum			1		Herb Strati	um	
Total Plot Cover:0	0 = 50%	0 = 20		Total Plot	Cover:100	50=	50%	20 = 20%
1.		Status/R	aw % Cover		-		St	atus/Raw % Cover
2.	·····	<del> </del>			1 Agrostis stole	nifera		FAC 80*
3.		<del> </del>		***-	2.Festuca arun	dinacea		FAC- 15
4.		<del> </del>			3.Moss			NI 20
5.		<del> </del>	****		4.Daucus carot 5.Geranium ric			NOL trace
Sapling/Shrub Stratum			· · · · · · · · · · · · · · · · · · ·		6.	narasonii	<del></del>	trace
Total Plot Cover:	= 50%	= 20%	Status/Raw	0/ Cover				
1.	5070	- 2070	Status/Kaw	76 Cover	7. 8.		<del></del>	-
2.					9.			
3.			<del> </del>		10.			ļ
4.					11.			
5.			<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·	12.			
Hydrophytic Vegetation	Indicatore				1Z.			<u> </u>
	OBL. FACW or FAC	C Percent o	f Dominant &	nacios that c	TACUL	PAC ( PAC	3 \ 100	
Map Unit Name: Amity si On Hydric Soil List?			SOI Class: Somey Inclusions?	vhat poorly				
Depth Range of Horizon	Matrix Color	1	Redox Conce	entratione	Redox Depl	otions	Total	Week
0-12	10YR3/2		0YR3/6 FF		Kedox Dehi	CHORS	Texture CL L	
12-18	10YR4/2		0YR4/6 CM				SI CI	
			O TIC NO CIT	<u></u>			SI CI	
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10"  Criteria Met? Yes  Recorded Data:  Recorded Data Available  Field Data	ors (e.g., concentrations  No  Aerial Photos	. [	Hi   Oi   Di   L   N   S   HYDRO	igh organic rganic streat ganic streat ganic pan (isted on Hydicets hydric upplemental LOGY		(in Sandy Soi ils) d soil profile n 4 (ponded or fl RCS field indi	natches) looded for lor icator)	
Depth of inundation:  Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits Criteria Met? Yes  WETLAND? YES	<u>ors:</u> es	☐Oxidized ☐Water-sta ☐Local Soi ☐FAC — No ☐Other: Commer	Hydrology In Root Channel ined leaves I Survey Data cutral Test ats: .	idicators (2 is (upper 12	th to Free Water:8 or more required ")	;; ):		
CATED [	Comments: M	reugna Crit	ci in met.					

DEPARTMENT O	F STATE LAI							ick Method
County: Yamhill		Date: 2/2	.1	City: Nev		File	#:1985	
Project/Contact: NewB./C				•	C. Steinkoenig			
Plant Community: Scrub				Plot #:5				
Plot Location: South side o								
Recent Weather: rainy and		***						
Do normal environmental				f no, explai				
Has Vegetation	Soil	Hydrol	ogy ∐ be	en signific	antly disturbed	7		
Explain:			T TO COM					
	3 0		VEGET	ATION		TT 1 CL .		
j	Tree Stratum					Herb Strati	um	
Total Plot Cover:45	22.5 = 50%	9 = 20%		Total Plot	Cover:100	50 =	50%	20 = 20%
1367			w % Cover				Sta	tus/Raw % Cover
1.Malus sp.		NOL 30* FACU+ 15	·*		1.Agrostis stoi 2.Festuca arui			FAC 25*
2.Crataegus monogyna 3.		PACUT 13	) ''		3.Dactylis glo			FAC- 50* FACU 25*
4.			· · · · · · · · · · · · · · · · · · ·	<del></del>	4.	meratu		TACO 23
5.		-		* ****	5.			
Sapling/Shrub Stratum	······				6.			
	10= 50% 4=	20%	Status/Rav	v % Cover	7.			
1.Rubus discolor			FACU- 2		8.			
2.					9.			
3.	· · · · · · · · · · · · · · · · · · ·	······································			10.			
4.			1		11.			
5					12.			
Hydrophytic Vegetation	Indicators:		1					
> 50% of dominants are		C Percent of	f Dominant S	Species that	are OBL, FACW	, FAC (not FA	C-):40	
Other hydrophytic vegetation			_					
Criteria Met? ∐Yes ⊠	No Comments	: Hydrophy	_		d 50%. FEAR	used as FAC	veg.	
				ILS .				
Map Unit Name: Amity si		Drainage (	Class: Some	what poorly	drained			
On Hydric Soil List?	Yes 🔀 No	Has Hydri	c Inclusions	? 🔀 Yes [	_] No			
Depth Range of Horizon	Matrix Color		Redox Cond	entrations	Redox De	pletions	Texture	
0-12	10YR3/3		None				CLL	
12-16	10YR3/4		. 1000				SI CI	
12.10	10110//	<del></del>						
Hydric Soil Indicators:				······································				
Histosol				Concretions/	Nodules (w/in 3°	'. > 2mm)		
Histic Epipedon					content in surfa		oils)	
Sulfidic Odor					king (in Sandy S			
Reducing Conditions (test				Organic pan	(in Sandy Soils)			
☐Gleyed or low chroma col		•	님	Listed on Hy	dric Soils List (	and soil profile	matches)	
Redox features within 10"	(e.g., concentration	is) .	님	Meets hydri	c soil criteria 3 c al indicator (e.g.,	or 4 (ponded or NDCS field in	11000000 101 IC	ong auranon)
Critorio Mat2 Vos	⊠ No		Ц	20ppiement	a moreator (e.g.,	, INCO LEIG III	uicatoi)	
Criteria Met? [ Yes	⊠ No		HVDP	OLOGY				
Recorded Data:			HILDR	<u>onog i</u>				
Recorded Data Available	Aerial Photo	os I	☐Stream Ga	uge [	Other	No Recorde	ed Data Availa	able
Field Data		~ ,			<b>_</b>	-		
Depth of inundation:	Ε	epth to Satu	ration:		Depth to Free V			
Primary Hydrology Indicat		Secondary	Hydrology		2 or more requir	ed):		
☐Inundated			i Root Chanr	iels (upper 1	2")			
Saturated in upper 12 incl	nes	_	ained leaves	4				
Water Marks			oil Survey Da	ns.		,		
☐Drift Lines ☐Sediment Deposits		☐Other:	leutral Test					
Criteria Met? Yes	ī No		nts. Banth t	n free water	r in pit at 14 inc	hes.		
CHECKIN MEET: TITES N	7 110	Coming	ութ. ռշիւս ւ	o H DO WALC	, pie ne 17 me			
•				INATION				

County: Yamhill	OF STATE LA	NDS W	ETLAND	DETER	MINATION D	ATA FO	ORM – O	nick Method
Project/Contact: NewB.	/CS	Date: 2	/21	CILY. 14	cwoerg	Fi	le #:1985	TARREST TO THE TARRES
Plant Community: mea	dow			Det. By	: C. Steinkoenig			
Plot Location: Paired wit	UUW			Plot #:6				
Recent Weather: rainy a	n sample plot 5					•		
Do normal anxionation	na cola							
Do normal environmenta			N 🔲 1	lf no, expla	ain:			
Has Vegetation	Soil 🗌	Hydro	ology 🔲 🛮 b	een signifi	cantly disturbed?			
Explain:			-		outrily distill OCU!			
			VEGET	<b>TATION</b>				
	Tree Stratum			7777	TT	1 0	···	
					H	erb Strat	um	
Total Plot Cover:0	= 50%	<del></del>	= 20%	(m) ( ) (m)				
			aw % Cover	Total Plot	Cover:100	50 =	= 50%	20 = 20%
1.		Jiaius/N	aw 76 Cover	<u> </u>			Si	tatus/Raw % Cove
2.	***************************************			· · · · · · · · · · · · · · · · · · ·	1 Agrostis stoloni	fera		FAC 25*
3.			<del></del>	···	2.Festuca arundin	асеа		FAC- 50*
4.					3.Dactylis glomer	ata		FACU 25*
5.					<b>4</b> . <b>5</b> .			
Sapling/Shrub Stratum					6.		<del></del>	
Total Plot Cover:	= 50%	= 20%	Status/Raw	0/ (7				
1.		2070	Juans/Kaw	70 COVET	7.			
2.		· · · · · · · · · · · · · · · · · · ·	<del> </del>		8.			
3.	<del></del>		<del> </del>		9.	··		
4.			<del></del>		10.			
5.					11.			
Hydrophytic Vegetation	Indicators		<u> </u>		12.			
> 50% of dominants are	Andicators:	_						<del></del>
≥ 50% of dominants are     Other hydrophytic vegetation	opp, racy of pac	Percent of	l Dominant <u>Sr</u>	oecies that a	re OBL, FACW, FA	C (not FAC	J-):66	
On Hydric Soil List?	res 🔼 No I	Has Hydric	lass: Somew Inclusions?	⊠ Yes [	□ No			
Depth Range of Horizon 0-11	Matrix Color		edox Conce		Redox Depletion	ons	Texture	
11.15	10YR4/1	1	0YR4/4 FFL	)			Si CL	<del>.</del>
11-13	10YR3/4						SI CI	
TY. 3 I S							10.01	NII
Hydric Soil Indicators:							<u> </u>	<u>-</u>
Histosol			□C ₀	ncretions/N	odules (w/in 3", > 21	ուտ)		•
∐Histic Epipedon ☐Sulfidic Odor			L_Hig	gh organic c	content in surface (in	Sandy Soil	s)	
Reducing Conditions (tests			L.Org	ganic streak	ing (in Sandy Soils)	, 00	٠,	
Gleyed or low chroma colo	positivej		∐Orį	ganic pan (ii	n Sandy Soils)			
Redox features within 10"	(e.g. concentrations)		∐ Lis	sted on Hyd	ric Soils List (and so	il profile m	atches)	
	(e.g., concentrations)		M	eets hydric	soil criteria 3 or 4 (pe	onded or flo	onded for lon	g duration)
Criteria Met? 🛛 Yes 🛛	No		☐ 2n	pplemental	indicator (e.g., NRC	S field indi	cator)	- •
			IIVDDAY	000				
Recorded Data:			HYDROL	<u>JOGY</u>				
Recorded Data Available	Aerial Photos	Г	Stream Gauge		O45 157-3		_	
Field Data		<u> </u>	laneatt Qangi	5 <u> </u>	Other 🖾 No	Recorded :	Data Availab	le
Depth of inundation:	Dept	th to Satura	tion:	r	epth to Free Water:7	rii		
Primary Hydrology Indicato	rs: S	econdary E	lydrology Ind	licators (2 d	or more required).			
Inundated		JOXIdized R	Loot Channels	(upper 12"	)			
Saturated in upper 12 inche ☐Water Marks	S [	Water-stair	ed leaves		•			
Drift Lines		Local Soil	Survey Data					
Sediment Deposits		FAC - Net	tral Test					
Criteria Met? XYes	No.	Other:						
MIES []	וזט	Comment	s: Wetland h	ydrology ol	bserved.			•.
				1 mmu				
vetland? ⊠yes □n	O Comments: Wes	tland criter	DETERMIN. ia is met.	ATION				

DEPARTMENT OF S							
County: Yamhill		Date: 2/2	21	City: Nev		File #:	1985
Project/Contact: NewB./CS					C. Steinkoenig		
Plant Community: meadow				Plot #:7			
Plot Location: Paired w/8-N side		inage-E. of	berm				
Recent Weather: rainy and col	ď						
Do normal environmental cond				f no, explai			
	Soil	Hydrol	logy 🗌 be	en signific	antly disturbed?		
Explain:			N Zan artenati	A PER CANS			
Tree	Stratum		VEGEI	ATION	Н	erb Stratum	
			1			ao buatam	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 = 50%	
1.		Status/Ra	aw % Cover	<u> </u>	1 <del></del>		Status/Raw % Cov
2.					1.Poa pratensis		FAC 75*
3.					2.Festuca arundin 3.Trifolium latifoli		FAC- 10
4.					4.Chrysanthemum		FACU+ 15 NI trace
5.					5.	DEU.	NI Bace
Sapling/Shrub Stratum					6.		
Total Plot Cover:	= 50%	= 20%	Status/Raw	≀% Cover	7.		
1.		2070	Diatus/ICAN	70 00 701	8.		
2.					9.		
3.		·······	1		10.		
4.		<del></del>		······································	11.		
5.			-		12.		
Hydrophytic Vegetation Indi	inatorae				12.		
		Percent o	f Dominant S	inociae that a	TE ORT FACIN FA	C (not EAC-)	100
Other hydrophytic vegetation indi	cators	1 GICCIII O	ı Dominanı <u>s</u>	pecies mar a	iic Obb, I ACW, I A	ic (not i Aç-).	100
Criteria Met? ⊠Yes ☐ No	Comments:	FEAR (F.	AC-) used a	s FAC veg.			
				ILS	•		
Map Unit Name: Amity silt loa	ım I	Orainage (	Class: Some		/ drained		
On Hydric Soil List? Yes			c Inclusions				
D 4 D CYY 1 1 1 4							<b>T</b>
	trix Color		Redox Conc	entrations	Redox Depleti		Texture Si CL
	YR4/2	<del></del>	None	15			
12-17 . 10	YR4/2		10YR4/6 FF	P	· · · · · · · · · · · · · · · · · · ·		CL
The desired and the second							
Hydric Soil Indicators: ☐Histosol				`ananatiana/l	Nodules (w/in 3", > 3	?mm)	
Histic Epipedon			님	John Greenic	content in surface (i	n Sandy Soils)	
Sulfidic Odor					king (in Sandy Soils		
Reducing Conditions (tests pos	itive)				(in Sandy Soils)	,	
Gleyed or low chroma colors	•				dric Soils List (and	soil profile mate	ches)
Redox features within 10" (e.g.	, concentrations)	)					ded for long duration)
				Supplementa	ıl indicator (e.g., NR	CS field indica	tor)
Criteria Met? 🗌 Yes 🛛 🖂	No						
			HYDRO	DLOGY			
Recorded Data:	<b>-</b>	,			1 A		4 4 44 1 5
	Aerial Photos	ļ	Stream Ga	uge _	Other 🔯 1	No Recorded Da	ata Available
<u>Field Data</u> Depth of inundation:	Da	nth to Catu	ration: 10	Des	oth to Free Water:12	**	
Primary Hydrology Indicators:		pth to Satur Secondary			2 or more required):	•	
Inundated			i Root Chann				
Saturated in upper 12 inches			ained leaves	(appor 1	- ,		
Water Marks			il Survey Dat	ta			
Drift Lines			leutral Test				
Sediment Deposits	Ì	Other:			•,		
Criteria Met? ⊠Yes ☐ No	•	Comme	ents: Recent	heavy rainf:	all.		
				_			
MATERIAL AND THE STATE AND ADDRESS OF THE PARTY OF THE PA	C	t		UNATION			-h 4
WETLAND? □YES ⊠NO	comments: W	etiand soi	i criterion is	not met. Si	iddominant veg. is i	nbiano ano pis	gner topgrapny.

DEPARTMENT O	F STATE LAN	DS WETLAND	DETERN	MINATION I	DATA ROI	RM - O	wick Method
County: Yamhill	]	Date: 2/21	City: Ne	where	File	#:1985	WICK TIZCEROU
Project/Contact: NewB./0				C. Steinkoenig	1110	7.1.703	
Plant Community: mead	ow		Plot #:8				
Plot Location:							
Recent Weather: rainy an	d cold	•					
Do normal environmental		/⊠ N 🗆	lf no, expla	in:			
Has Vegetation 🔲	Soil			antly disturbed?			
Explain:		-	_	•			
		<u>VEGE</u>	TATION				
	Tree Stratum				Herb Stratu	ım	
Total Plot Cover:0	= 50%	= 20%	Total Plot	Cover:100	50 = :	50%	20 = 20%
		Status/Raw % Cover	1	***************************************			tatus/Raw % Cover
1.				1.Poa pratensis			FAC 85*
2.				2.Rumex crispus	7		FAC+ 5
3.			******	3.Gernaium rich	iardsoni		FACU+ 10
4.				4.			
5.			···	5.	***************************************		
Sapling/Shrub Stratum				6.			
Total Plot Cover:	= 50%	= 20% Status/Ra	w % Cover	7.			
1.				8.			
2.				9.			
3.	***************************************			10.			,
4.				11.			
5.				12.			
Hydrophytic Vegetation	Indicators:						
	OBL, FACW or FAC	Percent of Dominant	Species that	are OBL, FACW, I	FAC (not FAC	⊱):100	
Other hydrophytic vegetation Criteria Met? XYes							
Cinena Met: Mies L	Jivo Comments:		TT C				
Nam I Init Name. Amit.	14.1		<u>ПS</u>				
Map Unit Name: Amity si On Hydric Soil List?		rainage Class: Some las Hydric Inclusions					
On Hydric Boll Else:	102 M 140 11	as riyuric menusion	st [7] res[				
Depth Range of Horizon	Matrix Color	Redox Con	centrations	Redox Depl	etions	Texture	
0-12	10YR3/2	10YR3/6 M	FD			Si CL	
12-17	10YR4/2	10YR4/4 F)		" " " " " " " " " " " " " " " " " " " "		CL	
					·	<del> </del>	
Hydric Soil Indicators:	·	······································				<u></u>	
∐Histosol		П	Concretions/	Nodules (w/in 3",	> 2mm)		
Histic Epipedon				content in surface		ls)	
Sulfidic Odor				king (in Sandy So			
Reducing Conditions (test				(in Sandy Soils)	•		
Gleyed or low chroma col				dric Soils List (an-			
Redox features within 10'	'(e.g., concentrations)			c soil criteria 3 or			long duration)
Criteria Met? X Yes	□No	Li	Supplementa	ıl indicator (e.g., N	IRCS field indi	icator)	
Cineria Met: M 1es	□ 140	TTVDD	OT OOV				
Recorded Data:		HYDK	<u>OLOGY</u>				
Recorded Data Available	Aerial Photos	Stream Ga		Other	No Recorded	Data Avai	lahla
Field Data	LIACITAL I HOLOS	L Jonean Ca	inge L	) Ortici 🔽	No Kecolded	Data Avai	iaule
Depth of inundation:	Den	th to Saturation:to Sur	face	Depth to Free	Water I"		
Primary Hydrology Indicat		econdary Hydrology					
□Inundated	Σ	Oxidized Root Chann			-		
Saturated in upper 12 incl	nes 🗀	Water-stained leaves		*			
☐ Water Marks		Local Soil Survey Da	ta				
Drift Lines		FAC - Neutral Test					
Sediment Deposits		Other:					
Criteria Met? ⊠Yes ☐	J No	Comments: Recent	heavy rainfa	all and high water	table.		
		ED ALL CAR LINE AND	FINIA TERM				
WETLAND? ⊠YES □	NO Comments: We	<u>DETERN</u> etland criteia met.	INATION				

County: Yamhill		Date: 2/	21	City: Ne	wberg	File #:1985	
Project/Contact: NewB.	/CS		* ****		C. Steinkoenig	1116 #.190	)
Plant Community: fore	sted			Plot #:9	C. Diolincochig		
Plot Location: SW side of	f stream			1 101 11,17			
Recent Weather: rainy a	nd cold						
Do normal environmenta	al conditions exist?	YΧ	N 🗌	f no, expla	in.		
Has Vegetation [_]	Soil 🔲				antly disturbed?	)	
Explain:				oon aiginiid	anny distribed.	•	
	T. 01		VEGET	CATION			
	Tree Stratum					Herb Stratum	
Total Plot Cover:100	50 = 50%	20 = 20		Total Plot	Cover:70	35 = 50%	14 = 20%
1.Fraxinus latifolia		Status/R:	aw % Cover				Status/Raw % Cover
2.		FACW 10	U*		1.Carex obnup	la	OBL 60*
3.			···		2.0enanthe sar	mentosa	OBL 10
4.					3.		
5.	<del></del>		7/1		4.		
Sapling/Shrub Stratum					5. 6.	· · · · · · · · · · · · · · · · · · ·	
Total Plot Cover:55	<del></del>	= 20%	Status/Raw	06 Carrer			
1.Rosa nutkana			FAC 10	10 COVEL	7. 8.		
2.Crataegus monogyna			FACU+ 5		9.		
3.Spirea douglasii			FACW 40		10.		
4.		, <u>, , , , , , , , , , , , , , , , , , </u>	IACW 40	···	11.		
5.					12.	144.	
Hydrophytic Vegetation	Indicators:						
> 50% of dominants are Other hydrophytic vegetation	OBL. FACW or FAC	Percent of	f Dominant &	nonice that a	ODI TLOTO	D104 . D101 - 00	
Map Unit Name: Amity si On Hydric Soil List?		Has Hydric	lass: Somev Inclusions?	Yes [	☐ No		
Depth Range of Horizon	Matrix Color	R	ledox Conce	ntrations	Redox Depl	etions Textu	
0-12	10YR3/2		0YR3/6 MF			Si CL	re
12-17	.10YR4/2	1	OYR4/4 FFI	`			WAR 12 TO 12
Hydric Soil Indicators:	i			<i>)</i>		CL	
	<u> </u>			<u> </u>		<del></del>	WAR 12 TO 12
	<u>-                                      </u>					CL	W. C.
Histosol				oncretions/N	lodules (w/in 3", >	CL	W. C.
			∐Hi	oncretions/N	content in surface	CL > 2mm) (in Sandy Soils)	W. C.
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test	s positive)		∐Hi □Or	oncretions/N gh organic o ganic streak	content in surface ting (in Sandy Soi	CL > 2mm) (in Sandy Soils)	W. C.
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	ors		∐Hi □Or □Or	oncretions/N gh organic o ganic streak ganic pan (i	content in surface ting (in Sandy Soi in Sandy Soils)	CL > 2mm) (in Sandy Soils) ls)	W. C.
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	ors		∐Hi □Or □Or	oncretions/N gh organic o ganic streak ganic pan (i isted on Hyo	content in surface sing (in Sandy Soi in Sandy Soils) Iric Soils List (and	CL > 2mm) (in Sandy Soils) ls)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma cole Redox features within 10"	ors (e.g., concentrations)		∐Hi □Or □Or □ Li □ M	oncretions/N gh organic o ganic streak ganic pan (i sted on Hyo leets hydric	content in surface sing (in Sandy Soi in Sandy Soils) dric Soils List (and soil criteria 3 or 4	CL > 2mm) (in Sandy Soils) ls)	
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test. ☐Gleyed or low chroma cole ☐Redox features within 10"  Criteria Met? ☐ Yes	ors		∐Hi □Or □Or □ Li □ M □ St	oncretions/N gh organic o ganic streak ganic pan (i sted on Hyo feets hydric upplemental	content in surface sing (in Sandy Soi in Sandy Soils) dric Soils List (and soil criteria 3 or 4	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) l (ponded or flooded for	
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test. ☐Gleyed or low chroma cole ☐Redox features within 10"  Criteria Met? ☐ Yes  Recorded Data:	ors (e.g., concentrations)  No		Hi   □ Or   □ Cr   □ Li   □ M   □ St   HYDRO	oncretions/N gh organic of ganic streak ganic pan (i isted on Hyd deets hydric upplemental	content in surface ting (in Sandy Soi in Sandy Soils) tric Soils List (and soil criteria 3 or 4 indicator (e.g., N	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator)	long duration)
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test. ☐Gleyed or low chroma cole ☐Redox features within 10"  Criteria Met? ☐ Yes  Recorded Data: ☐Recorded Data Available Field Data	ors (e.g., concentrations)  No  Aerial Photos		∐Hi □Or □ Li □ M □ St HYDRO	oncretions/N gh organic of ganic streak ganic pan (i sted on Hyo feets hydric applemental LOGY	content in surface ting (in Sandy Soi in Sandy Soils) tric Soils List (and soil criteria 3 or 4 indicator (e.g., N	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) l (ponded or flooded for	long duration)
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test. ☐Gleyed or low chroma cole ☐Redox features within 10"  Criteria Met? ☐ Yes  Recorded Data: ☐Recorded Data Available Field Data  Depth of inundation:	ors (e.g., concentrations)  No  Aerial Photos  Dep	oth to Satura	∐Hi □Or □ Li □ M □ St HYDRO] Stream Gaug tion:to Surfac	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils Sandy Soils) dric Soils List (and soil criteria 3 or 4 indicator (e.g., N	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator)  No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma cole Redox features within 10" Criteria Met?   Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicato	ors (e.g., concentrations)  No  Aerial Photos  Depors:	oth to Satura Secondary F	☐Hi ☐Or ☐ Li ☐ M ☐ St HYDRO] [Stream Gaug tion:to Surfac Hydrology In	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N  Other	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator)  No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test. Gleyed or low chroma cole Redox features within 10" Criteria Met?  Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated	ors (e.g., concentrations)  No  Aerial Photos  Deports:	oth to Satura Secondary F Oxidized F	☐Hi ☐Or ☐ Cor ☐ Li ☐ M ☐ St  HYDRO	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N  Other	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator)  No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test. Gleyed or low chroma cole Redox features within 10" Criteria Met?  Yes  Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inche	ors (e.g., concentrations)  No  Aerial Photos  Deports:	oth to Satura Secondary I Oxidized F Water-stain	☐Hi ☐Or ☐ Cor ☐ Li ☐ M ☐ St  HYDRO    Stream Gaug  tion:to Surfac  Hydrology In  Root Channel: ned leaves	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N  Other	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator)  No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test. Gleyed or low chroma cole Redox features within 10" Criteria Met?  Yes  Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inche Water Marks □ Drift Lines	ors (e.g., concentrations)  No  Aerial Photos  Deports:	oth to Satura Secondary I Oxidized F Water-stain	☐Hi ☐Or ☐ Cor ☐ Li ☐ M ☐ St  HYDRO    Stream Gaug  tion:to Surfact  Hydrology In  Root Channel: ned leaves Survey Data	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N  Other	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator)  No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test. Gleyed or low chroma cole Redox features within 10" Criteria Met?  Yes  Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inche Water Marks □ Drift Lines	ors (e.g., concentrations)  No  Aerial Photos  Deports:	oth to Satura Secondary F Oxidized F Water-stain Local Soil	☐Hi ☐Or ☐ Cor ☐ Li ☐ M ☐ St  HYDRO    Stream Gaug  tion:to Surfact  Hydrology In  Root Channel: ned leaves Survey Data	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N  Other	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator)  No Recorded Data Ava	long duration)
Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma cole Redox features within 10"  Criteria Met?  Yes  Recorded Data:  Recorded Data Available  Field Data  Depth of inundation:  Primary Hydrology Indicate Inundated Saturated in upper 12 inche Water Marks  □ Drift Lines  Sediment Deposits	ors (e.g., concentrations)  No  Aerial Photos  Depors:	oth to Satura Secondary I Oxidized F Water-stain Local Soil FAC — Net	☐ Hi ☐ Or ☐ Cr ☐ Li ☐ M ☐ St  HYDRO   Stream Gaug  tion:to Surface Hydrology In Root Channels ned leaves Survey Data utral Test	oncretions/N gh organic streak ganic pan (i isted on Hyc leets hydric applemental LOGY ge   ce dicators (2 s (upper 12'	content in surface ting (in Sandy Soils) in Sandy Soils) iric Soils List (and soil criteria 3 or 4 indicator (e.g., N  Other  Depth to Free or more required)	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) d (ponded or flooded for RCS field indicator)  No Recorded Data Ava Water:1"	long duration)
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Reducing Conditions (test ☐ Gleyed or low chroma cole ☑ Redox features within 10"  Criteria Met? ☒ Yes  Recorded Data: ☐ Recorded Data Available Field Data Depth of inundation:  Primary Hydrology Indicato	ors (e.g., concentrations)  No  Aerial Photos  Depors:	oth to Satura Secondary I Oxidized I Oxidized Soil Local Soil FAC – Net Other:	☐ Hi ☐ Or ☐ Cr ☐ Li ☐ M ☐ St  HYDRO   Stream Gaug  tion:to Surface Hydrology In Root Channels ned leaves Survey Data utral Test	oncretions/N gh organic streak ganic pan (i isted on Hyc feets hydric applemental  LOGY  se  dicators (2 s (upper 12'	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N  Other	CL  > 2mm) (in Sandy Soils) ls) d soil profile matches) d (ponded or flooded for RCS field indicator)  No Recorded Data Ava Water:1"	long duration)

DEPARTMENT O	F STA	TE LAN	IDS WE	TLAND	DETERN	MNATIO	N DATA	FORM - O	nick Method
County: Yamhill		****	Date: 2/	21	City: Nev			File #:1985	WICK TITCEROU
Project/Contact: NewB./	CS	***************************************				C. Steinkoen	ie		-
Plant Community: fores					Plot #:10		-0		
Plot Location: West side of									
Recent Weather: rainy ar									
Do normal environmenta					f no, expla				
Has Vegetation	Soil_		Hydro	logy 🔲 be	en signific	antly disturbe	ed?		
Explain:									
				VEGET	ATION				
	Tree Stra	atum					Herb St	tratum	
Total Plot Cover:30	15-	£00/	1 6 - 000	1/	m . 151 .	- 400			
Total Flot Cover.30	15=	20%	6 = 20°	aw % Cover	Total Plot	Cover:100	1.	50 = 50%	20 = 20%
1.Fraxinus latifolia		Т	FACW+3			1.Festuca ai	enndinacea		tatus/Raw % Cover FAC- 15
2.			17,011.3			2.Dactylis g		***************************************	FACU 35*
3.		* -	*****			·3.Poa pratei			FAC 40*
4.			*******		·	4.Taraxacun		* *************************************	NOL 10
5.						5.			
Sapling/Shrub Stratum						6.			
Total Plot Cover:5	2.5= 50%	]=:	20%	Status/Raw	/ % Cover	7.			
1.Corylus cornuta				FACU+ 5	*	8.			
2.					•	9.			
3.						10.		***************************************	*****
4.					1	11.			
5.						12.			
Hydrophytic Vegetation	Indicato	rs:							
☐ > 50% of dominants are	OBL, FAC	W or FAC	Percent of	of Dominant S	pecies that	are OBL, FAC	W, FAC (not	FAC-):50	
Other hydrophytic vegetatio									
Criteria Met? Yes	SINO Co	omments:	Does not		-				
BALLET UST A M	· · · ·	,	n 1	<u>SO</u>					
Map Unit Name: Amity s			Drainage	Class: Some	what poorly	y drained			
On Hydric Soil List?	res Mi	NO .	Has Hydri	ic Inclusions	? 🔀 Yes [	1 MO			
Depth Range of Horizon	Matrix (	[¬] olor		Redox Conc	entrations	Redoy D	epletions	Texture	
0-11	10YR3/			None	Ontiditona	TCGOX D	opiotions	Si CL	,
11-17	10YR3/			None				CL	
	101107	-	+					- 1 22	
Hydric Soil Indicators:	1		<u> </u>	· · · · · · · · · · · · · · · · · · ·			·		
Histosol				Г	'oncretions/	Nodules (w/in	3" > 2mm\		
Histic Epipedon				H.	ligh organic	content in sur	face (in Sand	y Soils)	
Sulfidic Odor						king (in Sandy		,,	
Reducing Conditions (tes						(in Sandy Soil:			
Gleyed or low chroma co						dric Soils List			
Redox features within 10	" (e.g., cond	centrations	)					d or flooded for	long duration)
Cuitania Mato III Van	⊠ N-				Supplementa	al indicator (e.	g., NRCS fiel	d indicator)	
Criteria Met? 🗌 Yes	⊠ No			#WDD/	NT OOV				
Recorded Data:				HYDRO	<u>JLUGY</u>				
Recorded Data Available	ΠAe	rial Photos		Stream Gar	ine F	Other	X No Rec	orded Data Avai	lahle
Field Data	F	1141 1 110103	l		-60 1	1 Onio	<u> </u>		iabio
Depth of inundation:		De	pth to Satu	ration:13"	De	epth to Free W	ater:		
Primary Hydrology Indica	tors:					2 or more requ			
Inundated			Oxidize	d Root Channe	els (upper 1	2")	•		
Saturated in upper 12 inc	hes		_	tained leaves					
☐ Water Marks				oil Survey Dat	28.				
Drift Lines				Veutral Test					
Sediment Deposits	7 N -		Other:			** ***		`.	
Criteria Met? Yes	7 1/40		Commo	ents: Recent l	ieavy rainf	all and high w	ater table.		
				ከድሞድወል	INATION				
WETLAND? TVES D	NO Co	mments: C	riteria not		ALVA LIUIY				

County: Yambill	<u>)F STATE LAN</u>	NDS WE	TLAND I	DETERI	MINATION D	ATA FORM -	Onick Method
Journey. I dillimit	4	Date: 2/2	21	City: Ne	wberg	File #:1985	Anters Merrion
Project/Contact: NewB./	CS	***			C. Steinkoenig	1	
Plant Community: fores	ted			Plot #:11			
Plot Location: paired with	sample plot 10						
Recent Weather: rainy an	ıd cold						
Do normal environmenta	l conditions exist?	$Y \boxtimes$	$N \square$ I	f no, expla	in:		
Has Vegetation [_]	Soil□		logy 🔲 be	en signific	antly disturbed?		
Explain:	_			. 4.1. D.D.11110	and and and and and		
			VECET	ATION			
	Tree Stratum				H	erb Stratum	
Total Plot Cover:50							
10tal Plot Cover:50	25 = 50%	10 = 20		Total Plot	Cover:100	50 = 50%	20 = 20%
1.Fraxinus latifolia			w % Cover		···		Status/Raw % Cover
2.		FACW+ 5	0*		1.Poa pratensis		FAC 50*
3.					2.Rumex crispus		FAC+ 10
4.					3.Agrostis stoloni	fera	FAC 40*
5.					4.		
Sapling/Shrub Stratum				·	5.	1000 1020 1020 1000 1000 1000 1000 1000	
Total Plot Cover:	= 50%	- 000/	T a		6.		
1.	= 30%	= 20%	Status/Raw	% Cover	7.		
2.		······································			8.		
3.					9.		
TOUR					10.		
4.					11.		
5. Hydrophytic Vegetation					12.		
<ul> <li>S &gt; 50% of dominants are Other hydrophytic vegetation</li> <li>Criteria Met?  Yes □</li> <li>Map Unit Name: Amity si On Hydric Soil List? □</li> </ul>	No Comments:  It loam I	Drainage C	SOI lass: Somev Inclusions?	<u>LS</u> vhat poorly	drained		
Depth Range of Horizon	Matrix Color	R	edox Conce	entrations	Redox Depleti	ions Textu	re
0-11	10YR3/2		0YR3/6 FFI		ACCON DOPIO	Si CL	···
11-17	10YR4/2		0YR4/6 CF			CL	
			<u> </u>				
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test: Gleyed or low chroma cold Redox features within 10"  Criteria Met? Yes	ors	·	□Hi □Or □ D □ Li □ N □ Sr	gh organic ganic streak ganic pan (i isted on Hyd feets hydric applemental	Nodules (w/in 3", > 2 content in surface (ii cing (in Sandy Soils) in Sandy Soils) dric Soils List (and see soil criteria 3 or 4 (and indicator (e.g., NR)	n Sandy Soils) ) soil profile matches) ponded or flooded for	· long duration)
Daggardad Dagga			<u>HYDRO</u>	<u>LOGY</u>			
Recorded Data:  Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inche Water Marks Drift Lines Sediment Deposits Criteria Met?	ors: S ces	oth to Satura Secondary I Soxidized I Water-stai	Aydrology In Root Channel ned leaves Survey Data utral Test	Depi dicators (2 s (upper 12	th to Free Water:9" or more required):	lo Recorded Data Ava	uilable
WETLAND? ⊠YES □	NO Comments: We	etland Crite	DETERMH eria is met.	NATION			

DEPARTMENT County: Yamhill	OF STATE L	ANDS W	ETLAND	DETER	MINATION DAT	A FORM - O	ioly Madha 2
		Date: 2	2/21	City: Ne	ewberg	File #:1985	ick Method
Project/Contact: NewB.	/CS	*			C. Steinkoenig	111C#.1763	
Plant Community: fore	sted			Plot #: 12			
Plot Location: NW end o	f the property				_		
Recent Weather: rainy a	nd cold						
Do normal environments	al conditions exis	t? Y⊠	N	lf no, expla	ain:		
Has Vegetation	Soil 🗌	Hydr			cantly disturbed?		
Explain:		-		<u></u>	-anny annurous.		
	Tree Stratum		VEGE'	<u> </u>			
	Tice Stratum				Herb	Stratum	
Total Plot Cover:95	47.5 = 50%	19 = 2		Total Plot	Cover:	= 50%	= 20%
1 5			Raw % Cover				tus/Raw % Cove
1.Fraxinus latifolia 2.		FACW+	95*		1.		us/Kaw 78 CUVE
3.					2.		<del></del>
4.					3.		
5.				<del></del>	4.		
Sapling/Shrub Stratum		<del> </del>			5.		
Total Plot Cover:10		25-0001	10:		6.		
1.Rubus discolor	3-30%	2.5= 20%	Status/Rav		7.		
2.			FACU 10	* 	8.		
3.		·			9.		
4.		· · · · · · · · · · · · · · · · · · ·	<u> </u>		10.		
5.					11.		
	7 7				12.		
Hydrophytic Vegetation	indicators:						
> 50% of dominants are Other hydrophytic vegetation	UBL, FACW or F.	AC Percent	of Dominant S	pecies that a	are OBL, FACW, FAC (no	ot FAC-):50	
Map Unit Name: Amity si On Hydric Soil List?	Yes 🛛 No	Drainage Has Hydri	SO) Class: Somevic Inclusions	vhat poorly	drained No		
Depth Range of Horizon	Matrix Color		Redox Conce	entrations	Redox Depletions	Texture	
0-18	10YR2/1					Si CL	
·							
Hydric Soil Indicators:							
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test ☐Gleyed or low chroma col ☐Redox features within 10"  Criteria Met? ☐ Yes	ors	ns)	S   D   D   D   H	igh organic rganic streat rganic pan (i isted on Hyd feets hydric upplemental	Nodules (w/in 3", > 2mm) content in surface (in Sancting (in Sandy Soils) in Sandy Soils) dric Soils List (and soil presoil criteria 3 or 4 (ponder indicator (e.g., NRCS fie	offile matches)	g duration)
Recorded Data:			<u>HYDRO</u>	<u>LOGY</u>			
Recorded Data Available	Aerial Phot	os [	Stream Gau	ge 🔲	Other No Rec	orded Data Availabl	e
Depth of inundation:	I	Depth to Satur	ration:3"	Dent	th to Free Water:8"		
Primary Hydrology Indicate	ors:			dicators (2	or more required):		
☐Inundated			Root Channel	s (upper 12'	")		
Saturated in upper 12 inch  ☐ Water Marks	es	⊠Water-sta					
☐ Water Marks ☐ Drift Lines		LLocal Soi	il Survey Data				
Sediment Deposits		□FAC – N □Other:	cutrai lest				
Criteria Met? Yes	No		-4		·.		
KA105	, a vo	Comme	mes: ,				
WETLAND? ⊠YES □	NO Comments:	Wetland area	DETERMIN a adjacent to	<u>NATION</u> the creek. V	Wetland characteriste ar	e met,	

DEPARTMENT OF	STATE LAN	DS WE	TLAND I	DETERN	MINATION	DATA FO	RM – Ou	ick Method
County: Yamhill		Date: 2/2		City: Nev			e#:1985	TOTAL TOTAL CO.
Project/Contact: NewB./CS					C. Steinkoenig			
Plant Community: scrub-sl	rub/meadow			Plot #:13		,		
Plot Location: northeast side								
Recent Weather: cold and			—	_	_			
Do normal environmental c				f no, expla				
Has Vegetation	Soil 🗌	Hydro	logy 🗌 🛮 be	en signific	antly disturbed	17		
Explain:			Veces	TANTEON I				
Tı	ee Stratum		VEGEI	ATION		Herb Strat	um	
Total Plot Cover:	= 50%		= 20%	Total Plat	Cover:100	50	50%	20 = 20%
100001110100701	3076		aw % Cover	Joan Flor	C0701,100	1 30 -		atus/Raw % Cover
1.				<u>,                                      </u>	1.Alopecurus	pratensis		FACW 60*
2.					2.Agrostis sto			FAC 40*
3.					3.			
4.					4.			
5.					5.			
Sapling/Shrub Stratum Total Plot Cover:10 5=	500/	- 200/	I Cut II	<b>84.0</b>	6.			
1.Rubus discolor	= 50%   2.5=	= 20%	Status/Rav		7. 8.			
2.Rosa nutkana			FAC 5*		9.			
3.			FACS		10.			
4.		***************************************			11.			
5.					12.			
Hydrophytic Vegetation In	adicators:				1			<u> </u>
	BL, FACW or FAC	Percent o	of Dominant S	pecies that	are OBL, FACV	, FAC (not FA	C-):75	
Other hydrophytic vegetation i								
Criteria Met? XYes	No Comments:	Exceeds :						
Man I Init Name: Amite vilt	1	Dusinass (		ILS	الدوستوساليين			
Map Unit Name: Amity silt On Hydric Soil List?			Class: Some c Inclusions					
			• 111 <b>0</b> 10010110	. E3 100				
	Matrix Color		Redox Conc	entrations	Redox De	pletions	Texture	
	10YR3/2		None			·····	Si CL	
13-18	10YR3/2		10YR3/4 FF	F			CL	
Hydric Soil Indicators:			F7/	5	NT- 4-1 6P 2	n - a		
☐Histosol ☐Histic Epipedon					Nodules (w/in 3 content in surfa		sile)	
Sulfidic Odor					king (in Sandy		1113)	
Reducing Conditions (tests	positive)			Organic pan	(in Sandy Soils)	•		
Gleyed or low chroma color					ydric Soils List (			
Redox features within 10" (	e.g., concentrations	)			c soil criteria 3			ong duration)
C-242- 24-49 [] 37 [	71 a.⊤_		Ш	Supplement	al indicator (e.g.	, NRCS neid in	dicator)	
Criteria Met? 🗌 Yes	☑ No		HVDD	אר אכי				
Recorded Data:			HIDR	<u>OLOGY</u>				
Recorded Data Available	Aerial Photos	;	Stream Ga	иес Г	Other	No Recorde	ed Data Avail	able
Field Data		,		-8	<b>-</b>			
Depth of inundation:		pth to Satu			pth to Free Wate			
Primary Hydrology Indicator					2 or more requir	red):		
☐Inundated ☐Inundated ☐Inundated in upper 12 inches			l Root Chann ained leaves	eis (upper 1	4 )			
Water Marks	3		anicu icaves oil Survey Da	ta			•	
Drift Lines			Neutral Test					
Sediment Deposits		Other:						
Criteria Met? ⊠Yes ☐	No	Commo	ents: Very hi	gh water ta	ble.			
			De Arithmeter	(10k) 1 my ^ **				
wetland? □yes ⊠i	NO Comments: N	lo hvdric e		<u>IINATION</u> pogrnahy.				
ווא מתודוה יתוניטיהוני	· Ommunities; 1,	or man in the se	oraș a toto tat tit	Late hand.				

DEPARTMENT O			A AZZAL VID. J	CTO T TOTAL		DAIATO	KIYI — QU	iick Method
County: Yamhili	ŀ	Date: 2/2	8/07	City: Nev	wberg		#:1985	
Project/Contact: NewB./C					C. Steinkoenig			
Plant Community: scrub-	-shrub/meadow			Plot #:14		•		
Plot Location: paired w/sar	nple plot 13							
Recent Weather: cold and								
Do normal environmental	conditions exist?	$Y \boxtimes$	N □ I	f no, expla	in:			
Has Vegetation 🗌	Soil 🗌	Hydrol			antly disturbed	?		
Explain:				Ū	•			·
			VEGET	TATION		•		
]	Tree Stratum					Herb Strati	ım	
Total Plot Cover:0	= 50%	. =	= 20%	Total Plot	Cover:100	50 =	50%	20 = 20%
		Status/Ra	w % Cover			1		atus/Raw % Cover
1.					1 Alopecurus ;	oratensis		FACW 60*
2.					2.Agrostis stol			FAC 40*
3.	1				3.			
4.					4.			
5.	· · · · · · · · · · · · · · · · · · ·				5.			
Sapling/Shrub Stratum					6.			
	5= 50% 2.5	= 20%	Status/Rav	% Cover	7.			
1.Rubus discolor			FACU 5*		8.			
2.Rosa nutkana		***************************************	FAC 5*		9.			
3.					10.			
4.		····			11.			
5.		<del></del>			12.			
Hydrophytic Vegetation	Indicators:				1			
> 50% of dominants are	OBL, FACW or FAC	Percent of	f Dominant S	pecies that :	are OBL. FACW	FAC (not FAC	2-1-75	
Other hydrophytic vegetation	indicators:		-	<u></u>	022, 1110 (	,	,,,,	
Criteria Met? XYes	No Comments	: Exceeds f	ifty percent.					•
			SO	ULS				
Map Unit Name: Amity sil	lt loam	Drainage C	lass: Some		v drained			
On Hydric Soil List?					, armina			
	res 🖾 MA	Has Hydric	Inclusions'					
				7 ⊠ Yes [	No No		1 100	
Depth Range of Horizon	Matrix Color	F	Redox Conc	7 ⊠ Yes [ entrations		oletions	Texture	
Depth Range of Horizon 0-12	Matrix Color 10YR4/2	F	Redox Conc 0YR4/6 CF	7 ⊠ Yes [ entrations D	No No	oletions	Si CL	
Depth Range of Horizon	Matrix Color	F	Redox Conc	7 ⊠ Yes [ entrations D	No No	letions	<del></del>	
Depth Range of Horizon 0-12 12-18	Matrix Color 10YR4/2	F	Redox Conc 0YR4/6 CF	7 ⊠ Yes [ entrations D	No No	letions	Si CL	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:	Matrix Color 10YR4/2	F	Redox Conc 0YR4/6 CF 0YR4/4 FF	P ⊠ Yes [ entrations D F	No Redox Dep		Si CL	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:	Matrix Color 10YR4/2	F	Redox Conc 0YR4/6 CF 0YR4/4 FF	P Yes [ entrations D F	No Redox Dep	, > 2mm)	Si CL CL	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon	Matrix Color 10YR4/2	F	Redox Conc 0YR4/6 CF 0YR4/4 FF	Partitions TD F Concretions/I Gigh organic	No Redox Dep Redox Dep Nodules (w/in 3" content in surface	, > 2mm) te (in Sandy So	Si CL CL	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor	Matrix Color 10YR4/2 10YR4/2	F	Redox Conc 0YR4/6 CF 0YR4/4 FF	entrations  D  Concretions/I  ligh organic  organic strea	No  Redox Dep  Redox Dep  Nodules (w/in 3" content in surfacking (in Sandy S	, > 2mm) te (in Sandy So	Si CL CL	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests	Matrix Color 10YR4/2 10YR4/2	F	Redox Conc 0YR4/6 CF 0YR4/4 FF	entrations  D  Concretions/I  ligh organic  organic strea  organic pan	No  Redox Dep  Nodules (w/in 3" content in surfacking (in Sandy Soils)	, > 2mm) se (in Sandy So oils)	Si CL CL	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests Gleyed or low chroma color	Matrix Color 10YR4/2 10YR4/2 s positive)	F   1   1	Redox Conc 0YR4/6 CF 0YR4/4 FF	entrations  D  Concretions/I  ligh organic  organic strea  organic pan (  Listed on Hy	No  Redox Dep  Nodules (w/in 3" content in surfacking (in Sandy Soils) dric Soils List (a	, > 2mm) te (in Sandy So oils) and soil profile	Si CL CL ils)	one duration)
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests	Matrix Color 10YR4/2 10YR4/2 s positive)	F   1   1	Redox Conc   0YR4/6 CF   0YR4/4 FF   CC   CC   CC   CC   CC   CC   CC 	entrations  D  Concretions/I  ligh organic  organic strea  organic pan (  Listed on Hy  Meets hydric	No  Redox Dep  Nodules (w/in 3" content in surfacking (in Sandy Soils) dric Soils List (ac soil criteria 3 o	, > 2mm) se (in Sandy So oils) and soil profile of the first the f	Si CL CL ils)	ong duration)
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test: Gleyed or low chroma colo  Redox features within 10"	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations	F   1   1	Redox Conc   0YR4/6 CF   0YR4/4 FF   CC   CC   CC   CC   CC   CC   CC 	entrations  D  Concretions/I  ligh organic  organic strea  organic pan (  Listed on Hy  Meets hydric	No  Redox Dep  Nodules (w/in 3" content in surfacking (in Sandy Soils) dric Soils List (a	, > 2mm) se (in Sandy So oils) and soil profile of the first the f	Si CL CL ils)	ong duration)
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test	Matrix Color 10YR4/2 10YR4/2 s positive)	F   1   1	Redox Conc OYR4/6 CF OYR4/4 FF	entrations  ED  Concretions/I  Gigh organic  organic strea  organic pan (  Listed on Hy  Meets hydric  Supplementa	No  Redox Dep  Nodules (w/in 3" content in surfacking (in Sandy Soils) dric Soils List (ac soil criteria 3 o	, > 2mm) se (in Sandy So oils) and soil profile of the first the f	Si CL CL ils)	ong duration)
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test: Gleyed or low chroma colo  Redox features within 10"	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations	F   1   1	Redox Conc   0YR4/6 CF   0YR4/4 FF   CC   CC   CC   CC   CC   CC   CC 	entrations  ED  Concretions/I  Gigh organic  organic strea  organic pan (  Listed on Hy  Meets hydric  Supplementa	No  Redox Dep  Nodules (w/in 3" content in surfacking (in Sandy Soils) dric Soils List (ac soil criteria 3 o	, > 2mm) se (in Sandy So oils) and soil profile of the first the f	Si CL CL ils)	ong duration)
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10"  Criteria Met?  Yes	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations	F 1 1	Redox Conc OYR4/6 CF OYR4/4 FF	entrations  D  Concretions/I  Gigh organic  organic strea  organic pan (   Listed on Hy  Meets hydric  Supplementa  OLOGY	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oal indicator (e.g.,	, > 2mm) se (in Sandy So oils) and soil profile of the first the f	Si CL CL ils) matches) flooded for lo	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests Gleyed or low chroma colo  Redox features within 10"  Criteria Met?  Yes  Recorded Data:  Recorded Data Field Data	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations	F 1 1	Redox Conc OYR4/6 CF OYR4/4 FF	entrations  D  Concretions/I  Gigh organic  organic strea  organic pan (   Listed on Hy  Meets hydric  Supplementa  OLOGY	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oul indicator (e.g.,	, > 2mm)  te (in Sandy So oils)  and soil profile in the 4 (ponded or in NRCS field inc	Si CL CL ils) matches) flooded for lo	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests) Gleyed or low chroma colo  Redox features within 10"  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data Depth of inundation:	Matrix Color  10YR4/2  10YR4/2  s positive) ors (e.g., concentrations  Aerial Photos	F I I I I I I I I I I I I I I I I I I I	Redox Conc OYR4/6 CF OYR4/4 FF	entrations  D F Concretions/I ligh organic organic strea organic pan (  Listed on Hy Meets hydric Supplementa  DLOGY  age	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oul indicator (e.g., Other Depth to Fre	, > 2mm)  te (in Sandy So oils)  and soil profile in the 4 (ponded or in NRCS field incomment  NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incommen	Si CL CL ils) matches) flooded for lo	- ,
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests) Gleyed or low chroma colo  Redox features within 10"  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate	Matrix Color  10YR4/2  10YR4/2  s positive) ors (e.g., concentrations  Aerial Photos	s [ epth to Satur Secondary	Redox Conc OYR4/6 CF OYR4/4 FF	entrations  D F Concretions/I (igh organic organic streators on Hymother hydric organic organic pan (a)  JECOMY  LOGY  LOGY  LOGY  LOGE  LOGIC CONTROL OF	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oul indicator (e.g.,  Other Depth to Fre	, > 2mm)  te (in Sandy So oils)  and soil profile in the 4 (ponded or in NRCS field incomment  NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incommen	Si CL CL ils) matches) flooded for lo	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10"  Criteria Met? Yes  Recorded Data:  Recorded Data Available  Field Data  Depth of inundation:  Primary Hydrology Indicate Inundated	Matrix Color  10YR4/2  10YR4/2  s positive) ors (e.g., concentrations  No  Aerial Photos  ors:	s [ epth to Satur Secondary	Redox Conc OYR4/6 CF OYR4/4 FF  COUNTY COUNT	entrations  D F Concretions/I (igh organic organic streators on Hymother hydric organic organic pan (a)  JECOMY  LOGY  LOGY  LOGY  LOGE  LOGIC CONTROL OF	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oul indicator (e.g.,  Other Depth to Fre	, > 2mm)  te (in Sandy So oils)  and soil profile in the 4 (ponded or in NRCS field incomment  NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incomment NRCS field incommen	Si CL CL ils) matches) flooded for lo	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10"  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch	Matrix Color  10YR4/2  10YR4/2  s positive) ors (e.g., concentrations  No  Aerial Photos  ors:	s [ septh to Satur Secondary Oxidized Water-sta	Redox Conc OYR4/6 CF OYR4/4 FF  COUNTY OF THE COUNTY OF TH	entrations  D  Concretions/I  ligh organic  organic strea  organic pan  Listed on Hy  Meets hydric  Supplementa  DLOGY  age  Indicators (  els (upper 1)	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oul indicator (e.g.,  Other Depth to Fre	, > 2mm)  te (in Sandy So oils)  and soil profile in the 4 (ponded or in NRCS field incommended  NRCS	Si CL CL ils) matches) flooded for lo	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests Gleyed or low chroma colo  Redox features within 10"  Criteria Met? Yes  Recorded Data:  Recorded Data Available  Field Data  Depth of inundation:  Primary Hydrology Indicate Inundated  Saturated in upper 12 inch Water Marks	Matrix Color  10YR4/2  10YR4/2  s positive) ors (e.g., concentrations  No  Aerial Photos  ors:	s [ cepth to Satur Secondary Oxidized Water-sta Local Soi	Redox Conc OYR4/6 CF OYR4/4 FF  COUNTY OF THE COUNTY OF TH	entrations  D  Concretions/I  ligh organic  organic strea  organic pan  Listed on Hy  Meets hydric  Supplementa  DLOGY  age  Indicators (  els (upper 1)	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oul indicator (e.g.,  Other Depth to Fre	, > 2mm)  te (in Sandy So oils)  and soil profile in the 4 (ponded or in NRCS field incommended  NRCS	Si CL CL ils) matches) flooded for lo	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests Gleyed or low chroma colo  Redox features within 10"  Criteria Met? Yes  Recorded Data:  Recorded Data Available  Field Data  Depth of inundation:  Primary Hydrology Indicate Inundated  Saturated in upper 12 inch Water Marks  Drift Lines	Matrix Color  10YR4/2  10YR4/2  s positive) ors (e.g., concentrations  No  Aerial Photos  ors:	epth to Satur Secondary Soxidized Water-sta Local Soi	Redox Conc OYR4/6 CF OYR4/4 FF  COUNTY OF THE COUNTY OF TH	entrations  D  Concretions/I  ligh organic  organic strea  organic pan  Listed on Hy  Meets hydric  Supplementa  DLOGY  age  Indicators (  els (upper 1)	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oul indicator (e.g.,  Other Depth to Fre	, > 2mm)  te (in Sandy So oils)  and soil profile in the 4 (ponded or in NRCS field incommended  NRCS	Si CL CL ils) matches) flooded for lo	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests) Gleyed or low chroma colo  Redox features within 10"  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks  Drift Lines  Sediment Deposits	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations  Aerial Photos ors:	s [  epth to Satur Secondary Secondary Oxidized Water-stz Local Soi FAC - No	Redox Conc OYR4/6 CF OYR4/4 FF  CO	entrations  D  Concretions/I  ligh organic  organic strea  organic pan  Listed on Hy  Meets hydric  Supplementa  DLOGY  age  Indicators (  els (upper 1)	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oil indicator (e.g.,  Other Depth to Fre	, > 2mm)  te (in Sandy So oils)  and soil profile in the 4 (ponded or in NRCS field incommended  NRCS	Si CL CL ils) matches) flooded for lo	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests Gleyed or low chroma colo  Redox features within 10"  Criteria Met? Yes  Recorded Data:  Recorded Data Available  Field Data  Depth of inundation:  Primary Hydrology Indicate Inundated  Saturated in upper 12 inch Water Marks  Drift Lines	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations  Aerial Photos ors:	epth to Satur Secondary Soxidized Water-sta Local Soi	Redox Conc OYR4/6 CF OYR4/4 FF  CO	entrations  D  Concretions/I  ligh organic  organic strea  organic pan  Listed on Hy  Meets hydric  Supplementa  DLOGY  age  Indicators (  els (upper 1)	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oil indicator (e.g.,  Other Depth to Fre	, > 2mm)  te (in Sandy So oils)  and soil profile in the 4 (ponded or in NRCS field incommended  NRCS	Si CL CL ils) matches) flooded for lo	
Depth Range of Horizon 0-12 12-18  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (tests) Gleyed or low chroma colo  Redox features within 10"  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks  Drift Lines  Sediment Deposits	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations  Aerial Photos ors:	s [  epth to Satur Secondary Secondary Oxidized Water-stz Local Soi FAC - No	Redox Conc OYR4/6 CF OYR4/4 FF  CO	entrations  D  F  Concretions/I  ligh organic  organic strea  organic pan  Listed on Hy  Meets hydric  Supplementa  DLOGY  age  ace  Indicators (  els (upper 1:  a	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oil indicator (e.g.,  Other Depth to Fre	, > 2mm)  te (in Sandy So oils)  and soil profile in the 4 (ponded or in NRCS field incommended  NRCS	Si CL CL ils) matches) flooded for lo	

DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM – Quick Met  County: Yamhill Date: 2/28/07   City: Newberg   File #:1985  Project/Contact: NewB./CS   Det. By: C. Steinkoenig  Plant Community: meadow   Plot #:15  Plot Location: Northwest end of wetland  Recent Weather: cold and wet/hail  Do normal environmental conditions exist? Y⊠ N ☐ If no, explain:  Has Vegetation ☐ Soil Hydrology ☐ been significantly disturbed?  Explain:	
Plant Community: meadow Plot #:15  Plot Location: Northwest end of wetland  Recent Weather: cold and wet/hail  Do normal environmental conditions exist? YN N If no, explain:  Has Vegetation Soil Hydrology been significantly disturbed?	
Plot Location: Northwest end of wetland Recent Weather: cold and wet/hail Do normal environmental conditions exist? YN N If no, explain: Has Vegetation Soil Hydrology been significantly disturbed?	
Recent Weather: cold and wet/hail  Do normal environmental conditions exist? Y N I If no, explain:  Has Vegetation Soil Hydrology been significantly disturbed?	
Do normal environmental conditions exist? Y N I If no, explain:  Has Vegetation Soil Hydrology been significantly disturbed?	
Has Vegetation Soil Hydrology been significantly disturbed?	
Explain:	
VEGETATION	
Tree Stratum Herb Stratum	
Total Plot Cover:0 = 50% = 20% Total Plot Cover:100 50 = 50% 20 = 20%	,
Status/Raw % Cover Status/Raw %	
1.   1. Alopecurus pratensis   FACW 6	
2. 2. Agrostis stolonifera FAC 40*	
3.	
4.	
5. 5.	
Sapling/Shrub Stratum 6.	
Total Plot Cover: 10	
1.Rubus discolor         FACU 5*         8.           2.Rosa nutkana         FAC 5*         9.	
3. 10. 11. 11.	
5.	
Hydrophytic Vegetation Indicators:	
> 50% of dominants are OBL, FACW or FAC Percent of Dominant Species that are OBL, FACW, FAC (not FAC-):75	
Other hydrophytic vegetation indicators:	
Criteria Met? Yes No Comments: Exceeds fifty percent.	
SOILS	
Map Unit Name: Amity silt loam Drainage Class: Somewhat poorly drained	
On Hydric Soil List? Yes No Has Hydric Inclusions? Yes No	
Depth Range of Horizon   Matrix Color   Redox Concentrations   Redox Depletions   Texture	
0-12 10YR4/2 10YR4/6 CFD Si CL	
12-18 10YR4/2 10YR4/4 FFF CL	
Hydric Soil Indicators:	
Histosol Concretions/Nodules (w/in 3", > 2mm)	
Histic Epipedon High organic content in surface (in Sandy Soils)	
Sulfidic Odor Organic streaking (in Sandy Soils)	
Sulfidic Odor Organic streaking (in Sandy Soils)  Reducing Conditions (tests positive) Organic pan (in Sandy Soils)	
□ Sulfidic Odor       □ Organic streaking (in Sandy Soils)         □ Reducing Conditions (tests positive)       □ Organic pan (in Sandy Soils)         □ Gleyed or low chroma colors       □ Listed on Hydric Soils List (and soil profile matches)	1)
Sulfidic Odor Organic streaking (in Sandy Soils)  Reducing Conditions (tests positive) Organic pan (in Sandy Soils)	1)
Sulfidic Odor       □ Organic streaking (in Sandy Soils)         □ Reducing Conditions (tests positive)       □ Organic pan (in Sandy Soils)         □ Gleyed or low chroma colors       □ Listed on Hydric Soils List (and soil profile matches)         □ Redox features within 10" (e.g., concentrations)       □ Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)	1)
Sulfidic Odor       □ Organic streaking (in Sandy Soils)         □ Reducing Conditions (tests positive)       □ Organic pan (in Sandy Soils)         □ Gleyed or low chroma colors       □ Listed on Hydric Soils List (and soil profile matches)         □ Redox features within 10" (e.g., concentrations)       □ Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)         □ Supplemental indicator (e.g., NRCS field indicator)	1)
Sulfidic Odor  Reducing Conditions (tests positive)  Gleyed or low chroma colors  Redox features within 10" (e.g., concentrations)  Criteria Met?   Yes □ No  Organic streaking (in Sandy Soils) □ Organic pan (in Sandy Soils) □ Listed on Hydric Soils List (and soil profile matches) □ Meets hydric soil criteria 3 or 4 (ponded or flooded for long duratio □ Supplemental indicator (e.g., NRCS field indicator)  HYDROLOGY  Recorded Data:	1)
Sulfidic Odor  Reducing Conditions (tests positive)  Gleyed or low chroma colors  Redox features within 10" (e.g., concentrations)  Criteria Met?   Yes No  HYDROLOGY  Recorded Data:  Recorded Data Available	1)
Sulfidic Odor  Reducing Conditions (tests positive)  Gleyed or low chroma colors  Redox features within 10" (e.g., concentrations)  Criteria Met?   Yes  No  HYDROLOGY  Recorded Data:  Recorded Data  Recorded Data  Supplemental indicator (e.g., NRCS field indicator)  Stream Gauge  Other  No Recorded Data Available  Field Data	1)
Sulfidic Odor	1)
Sulfidic Odor	1)
Sulfidic Odor	1)
Sulfidic Odor Organic streaking (in Sandy Soils) Reducing Conditions (tests positive) Organic pan (in Sandy Soils) Gleyed or low chroma colors Listed on Hydric Soils List (and soil profile matches) Redox features within 10" (e.g., concentrations) Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration Supplemental indicator (e.g., NRCS field indicator)  Criteria Met? Yes No  HYDROLOGY  Recorded Data: Recorded Data Available Aerial Photos Stream Gauge Other No Recorded Data Available Field Data Depth of inundation: Depth to Saturation:to surface Depth to Free Water:0.5"  Primary Hydrology Indicators: Secondary Hydrology Indicators (2 or more required): Inundated Oxidized Root Channels (upper 12") Saturated in upper 12 inches Water-stained leaves Water Marks Local Soil Survey Data	1)
Sulfidic Odor	n)

DELANTMENT OF	STALE	JANDS W	LILAND	DETEKN	MINATION I	JAIAFUL	UVI – Qu	ick Method
County: Yamhill	- I.	Date: 2	2/28/07	City: Nev		File	#:1985	
Project/Contact: NewB./CS	3			Det. By:	C. Steinkoenig			
Plant Community: meado		b		Plot #:16	i			
Plot Location: Paired with s								
Recent Weather: cold and								
Do normal environmental				f no, expla				
Has Vegetation 🗌	Soil	Hyd	rology 🔲 🛮 b	een signific	antly disturbed?			
Explain:								
			VEGE	<u> </u>				·
Т	ree Stratum	1			I	Herb Stratu	m	•
Total Plot Cover:15	7.5 = 50%	3 = 2	20%	Total Plot	Cover:100	50 = 5	50%	20 = 20%
MARINE TO A CONTROL OF THE CONTROL O			/Raw % Cover			•	Sta	atus/Raw % Cover
1.Quercus garryana		UPL 5*			1. Alopecurus pi			FACW 40*
2.Malus sp.		NOL 5*	· · · · · · · · · · · · · · · · · · ·		2.Agrostis stolo			FAC 40*
3.					3.Dactylis glome			FACU 15
4.				<del></del>	4.Chrysanthemu			NOL 5
5.					5.Hypocheris ra	aicaia		FACU trace
Sapling/Shrub Stratum		1 2001	10	n - m	6.			
	7.5= 50%	3= 20%	Status/Ray		7.			
1.Rubus discolor			FACU 10		8.			
2.Crataegus sp.			FAC/FAC	CU+ 5*	9.			
3.	****				10.			
4.					11.			<u> </u>
5.					12.			
Hydrophytic Vegetation								
≥ 50% of dominants are 0		r FAC Percer	nt of Dominant	Species that	are OBL, FACW,	FAC (not FAC	-):66	
Other hydrophytic vegetation	indicators:		J. 66	Cumdomi	nanta ara unland			
Criteria Met? ⊠Yes ☐	No Comm	ients: Exceed		i. Sundomi ILS	nams are upland			
Non I Init Names Amits oil			<u>80</u>	פבעני				
	t laams	Drainaa	ra Clarer Come		u drained			
Map Unit Name: Amity sil			ge Class: Some	what poorl				
On Hydric Soil List?			ge Class: Some dric Inclusions	what poorl				
On Hydric Soil List?	es ⊠No	Has Hy		what poorl ? X Yes		etions	Texture	And a second second
On Hydric Soil List? \( \sumsymbol{\subset} \)  Depth Range of Horizon		Has Hy	dric Inclusions	what poorl ? X Yes	□ No	etions	Texture Si CL	
On Hydric Soil List? \[ \bigcap \]  Depth Range of Horizon \[ 0-12 \]	res ⊠ No Matrix Colo	Has Hy	dric Inclusions  Redox Con	what poorl ? X Yes	□ No	etions		
On Hydric Soil List? \( \sumsymbol{\subset} \)  Depth Range of Horizon	Yes ⊠ No  Matrix Colo  10YR3/2	Has Hy	Redox Cone	what poorl ? X Yes	□ No	etions	Si CL	
On Hydric Soil List? \( \bigcap \)  Depth Range of Horizon  0-12  12-18	Yes ⊠ No  Matrix Colo  10YR3/2	Has Hy	Redox Cone	what poorl ? X Yes	□ No	etions	Si CL	
On Hydric Soil List? \[ \begin{aligned} \text{Y} \\ \text{Depth Range of Horizon} \\ \text{0-12} \\ \text{12-18} \\ \text{Hydric Soil Indicators:} \end{aligned}	Yes ⊠ No  Matrix Colo  10YR3/2	Has Hy	Redox Cone None None	what poorl	□ No		Si CL	
On Hydric Soil List? \( \bigcap \)  Depth Range of Horizon  0-12  12-18	Yes ⊠ No  Matrix Colo  10YR3/2	Has Hy	Redox Cone None None	what poorl s? Yes centrations Concretions	No Redox Depl	> 2mm)	Si CL CL	
On Hydric Soil List? \[ \] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes ⊠ No  Matrix Colo  10YR3/2	Has Hy	Redox Cone None None	ewhat poorl s? Yes centrations Concretions High organic Organic stre	Redox Depl Redox Dipl	> 2mm) s (in Sandy Soi	Si CL CL	
On Hydric Soil List? \[ \] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Matrix Color 10YR3/2 10YR4/2 s positive)	Has Hy	Redox Cone None None	centrations  Concretions.  High organic organic stre Organic pan	Redox Depl  Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils)	> 2mm) (in Sandy Soi ils)	Si CL CL	
On Hydric Soil List? \[ \] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Matrix Color 10YR3/2 10YR4/2 s positive)	Has Hy	Redox Cone None None	centrations  Concretions.  High organic stre Organic stre Organic pan Listed on H	No Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar	> 2mm) (in Sandy Soi ils) d soil profile r	Si CL CL	· ·
On Hydric Soil List? \[ \] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Matrix Color 10YR3/2 10YR4/2 s positive)	Has Hy	Redox Cone None None	centrations  Concretions.  High organic stre Organic stre Organic pan Listed on H Meets hydr	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or	> 2mm) (in Sandy Soi ils) d soil profile r 4 (ponded or f	Si CL CL ls)	ong duration)
On Hydric Soil List? \[ \] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr	Has Hy	Redox Cone None None	centrations  Concretions.  High organic stre Organic stre Organic pan Listed on H Meets hydr	No Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar	> 2mm) (in Sandy Soi ils) d soil profile r 4 (ponded or f	Si CL CL ls)	ong duration)
On Hydric Soil List? \[ \] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Matrix Color 10YR3/2 10YR4/2 s positive)	Has Hy	Redox Con None None	Concretions High organic Organic stre Organic pan Listed on H Meets hydr Supplement	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or	> 2mm) (in Sandy Soi ils) d soil profile r 4 (ponded or f	Si CL CL ls)	ong duration)
On Hydric Soil List? \[ \] Yes  Depth Range of Horizon  0-12  12-18  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10"  Criteria Met? \[ \] Yes	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr	Has Hy	Redox Con None None	centrations  Concretions.  High organic stre Organic stre Organic pan Listed on H Meets hydr	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or	> 2mm) (in Sandy Soi ils) d soil profile r 4 (ponded or f	Si CL CL ls)	ong duration)
On Hydric Soil List? \[ \] Y  Depth Range of Horizon  0-12  12-18  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma cold Redox features within 10"  Criteria Met? \[ \] Yes  Recorded Data:	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr	Has Hy	Redox Con None None	Concretions High organic Organic stre Organic pan Listed on H Meets hydr Supplement	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., 1)	> 2mm) (in Sandy Soi ils) d soil profile r 4 (ponded or f	Si CL CL ls)	
On Hydric Soil List? \[ \] Yes  Depth Range of Horizon  0-12  12-18  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10"  Criteria Met? \[ \] Yes	Matrix Color 10YR3/2 10YR4/2  s positive) ors (e.g., concentr	Has Hy	Redox Con None None  HYDR	Concretions High organic Organic stre Organic pan Listed on H Meets hydr Supplement	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., 1)	> 2mm) (in Sandy Soi ils) id soil profile r 4 (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[ \] \\ \]  Depth Range of Horizon \[ 0-12 \]  12-18  Hydric Soil Indicators: \[ \] Histosol \[ \] Histic Epipedon \[ \] Sulfidic Odor \[ \] Reducing Conditions (test: \[ \] Gleyed or low chroma cold \[ \] Redox features within 10"  Criteria Met? \[ \] Yes  Recorded Data: \[ \] Recorded Data Available \[ \] Field Data  Depth of inundation:	Matrix Color 10YR3/2 10YR4/2  s positive) ors (e.g., concentr	Has Hyrations)  Photos  Depth to S	Redox Cone None None HYDR  Stream Graturation:6"	Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY  auge  De	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., )  Other	> 2mm) (in Sandy Soi ils)  Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[ \] \\ \]  Depth Range of Horizon \[ 0-12 \]  12-18  Hydric Soil Indicators: \[ \] Histosol \[ \] Histic Epipedon \[ \] Sulfidic Odor \[ \] Reducing Conditions (test: \[ \] Gleyed or low chroma cold \[ \] Redox features within 10"  Criteria Met? \[ \] Yes  Recorded Data: \[ \] Recorded Data Available \[ \] Field Data  Depth of inundation: \[ \] Primary Hydrology Indicat	Matrix Color 10YR3/2 10YR4/2  s positive) ors (e.g., concentr	Has Hyrations)  Photos  Depth to S Second	Redox Cone None None HYDR  Stream Graturation:6"	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., )  Other  Other  opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils)  Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[ \] \\ \] \\ \] \\ \] Depth Range of Horizon \[ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \	Matrix Color 10YR3/2 10YR4/2  s positive) ors (e.g., concentr No Aerial I	Has Hydra Hydra Hydra Has Hydra Hydra Has Hydra Hydra Hydra Hydra Has Hydra	Redox Cone None None None HYDR  Stream Generation:6" ary Hydrology ized Root Change	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper )	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., )  Other  Other  opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils)  Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[ \] \]  Depth Range of Horizon  0-12  12-18  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10"  Criteria Met? \[ \] Yes  Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch	Matrix Color 10YR3/2 10YR4/2  s positive) ors (e.g., concentr No Aerial I	Has Hydra Hydra Hydra Has Hydra Hydra Has Hydra Hydra Hydra Has Hydra	Redox Cone None None None HYDR  Stream Graturation:6" ary Hydrology ized Root Chan- r-stained leaves	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., )  Other  Other  opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils)  Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[ \] \\ \] \\ \] \\ \] Depth Range of Horizon \[ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \] \\ \	Matrix Color 10YR3/2 10YR4/2  s positive) ors (e.g., concentr No Aerial I	Has Hydra Has Hydra Has Hydra Has Hydra Hydra Has Has Hydra Hydra Has Hydra Hydra Has Hydra Has Hydra Hydra Hydra Has Hydra Hydra Hydra Hydra Has Hydra Hydr	Redox Cone None None None HYDR  Stream Generaturation:6" ary Hydrology ized Root Changer-stained leaves is Soil Survey Denoted the stained stained leaves is Soil Survey Denoted the stained stained leaves is Soil Survey Denoted the stained l	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., )  Other  Other  opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils)  Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[ \] \]  Depth Range of Horizon  0-12  12-18  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10"  Criteria Met? \[ \] Yes  Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines	Matrix Color 10YR3/2 10YR4/2  s positive) ors (e.g., concentr No Aerial I	Has Hyrr  ations)  Photos  Depth to S Second  Oxidi  Wate  Local	Redox Cone None None None HYDR  Stream Graturation:6" ary Hydrology ized Root Changer-stained leaves Soil Survey Down Neutral Test	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., )  Other  Other  opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils)  Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[ \] \]  Depth Range of Horizon  0-12  12-18  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10"  Criteria Met? \[ \] Yes  Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	Matrix Color 10YR3/2 10YR4/2  s positive) ors (e.g., concentr	Has Hydra Hy	Redox Cone None None None  HYDR  Stream Generaturation:6" ary Hydrology ized Root Changer-stained leaves is Soil Survey Denomination:	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., )  Other  Other  opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils)  Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[ \] \]  Depth Range of Horizon  0-12  12-18  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10"  Criteria Met? \[ \] Yes  Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines	Matrix Color 10YR3/2 10YR4/2  s positive) ors (e.g., concentr	Has Hydra Hy	Redox Cone None None None HYDR  Stream Graturation:6" ary Hydrology ized Root Changer-stained leaves Soil Survey Down Neutral Test	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., )  Other  Other  opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils)  Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[ \] \]  Depth Range of Horizon  0-12  12-18  Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10"  Criteria Met? \[ \] Yes  Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	Matrix Color 10YR3/2 10YR4/2  s positive) ors (e.g., concentr	Has Hydra Hy	Redox Cone None None None HYDR  Stream Generaturation:6" ary Hydrology ized Root Changer-stained leaves i Soil Survey Denomination: "" The comments: "" The comments: "The comments is a survey of the comments in the comments is a survey of the comments in the comments is a survey of the comments in the com	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl  /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., )  Other  Other  pth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils)  Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	

DEPARTMENT OF	F STATE I					DATA FORM	M – Quick Method
County: Yamhill		Date:	2/28/07	City: Nev		File #;	1985
Project/Contact: NewB./C				•	C. Steinkoeni	5	
Plant Community: meado		כ		Plot #:17			
Plot Location: west side of							
Recent Weather: cold/wet		-40 1/57	N $\square$	fno evole	in.		
Do normal environmental		ST? Y		if no, expla	m. antly disturbe	d?	
Has Vegetation	Soil [	пу	diology [_] of	cen giginne	antry distuice	u.	,
Explain:			VEGET	TATION			
7	Tree Stratun	<u> </u>	7 13 (31)			Herb Stratum	
Total Plot Cover:	= 5	0%.	= 20%	Total Plot	Cover:100	50 = 509	% 20 = 20%
Total Flot Covas.			us/Raw % Cover				Status/Raw % Cover
1.					1. Alopecuru		FACW 30*
2.					2. Agrostis st		FAC 55*
3.					3. Juncus pat		FACW 15 trace
4.					5.	<u>ıcana</u>	LIACC
5.	****				6.		
Sapling/Shrub Stratum Total Plot Cover:15	7.5= 50%	3= 20%	Status/Des	w % Cover	7.		
1.Rosa nutkana	7.5= 50%	3-20%	FAC 15*		8.		
			172013		9.		
2.				·w··	10.		
4.					11.		
5.					12.		
Hydrophytic Vegetation	Indicators:						
> 50% of dominants are	OBL, FACW	r FAC Pero	ent of Dominant	Species that	are OBL, FAC	W, FAC (not FAC-)	:100
Other hydrophytic vegetation	n indicators:						1
Criteria Met? ⊠Yes □	No Comn	nents: Mets	wetland vegeta	ition criteri	a.		
	94. 1	D	age Class: Some	<u>)ILS</u>	by drained		
Map Unit Name: Amity si On Hydric Soil List?	iit ioam Voc. ⊠ No.	Drain Uac L	age Class, Som Lydric Inclusion	s? X Yes	∏ No		
On Hydric Soil List?	ies Mino	1145 1	tyuric iliciasion	.a. <u>E</u> 100			
Depth Range of Horizon	Matrix Colo	or	Redox Con		Redox I	Depletions	Texture CL L
0-11	10YR3/2		10YR4/6 F				Si CL
11-16	10YR4/1		10YR4/6 C	FD			8) CL
Hydric Soil Indicators:			<del></del>	10	s/Nodules (w/in	3" > 3mm)	
Histosol			1	Concretions  High organi	ic content in SII	rface (in Sandy Soils	3)
☐Histic Epipedon ☐Sulfidic Odor			<u> -</u>	Organic str	eaking (in Sand	y Soils)	•
Reducing Conditions (tes	sts positive)		Ë	Organic par	in Sandy Soil	is)	
Gleyed or low chroma co	lors			Listed on I	Ivdric Soils Lis	t (and soil profile ma	atches)
Redox features within 10	" (e.g., concent	rations)		Meets hyd	ric soil criteria	3 or 4 (ponded or flo	ooded for long duration)
			L	] Supplemen	ital indicator (e.	g., NRCS field indic	cator)
Criteria Met? 🛚 Yes	No		YYYZENY	OT OCV			
			HYDI	ROLOGY			
Recorded Data:	. ∏ A nerical	Dhotos	Stream C	Sance	Other	No Recorded	Data Available
Recorded Data Available	: ∐Aerial	rnotos		ander.	_ 0		
Field Data Depth of inundation:		Depth to	Saturation:1.5"		Depth to Free		
Primary Hydrology Indica	itors:	Seco	ndary Hydrolog	y Indicators	(2 or more req	uired):	
☐Inundated			idized Root Cha		12")		
Saturated in upper 12 inc	ches		ater-stained leave				
☐ Water Marks			cal Soil Survey I AC – Neutral Test				
Drift Lines				=	_		
☐ Sediment Deposits  Criteria Met? ☑ Yes [	No		omments: .				
Citteria met: Mies [	^ 1 V	`					·
	_			MINATIO	<u>N</u>	-	
WETLAND? ⊠YES	□NO Comn	rents: Wetl:	and criteria met.				

DEPARTMENT OF	F STATE LA	NDS WE	TLAND I	DETERN	IINATION	DATA FO	RM – Qu	ick Method	
County: Yamhill		Date: 2/2	28/07	City: Nev			e#:1985		
Project/Contact: NewB./CS					C. Steinkoenig	g			
Plant Community: meado	w/scrub-shrub			Plot #:18					
Plot Location: Paired w/17									
Recent Weather: cold/wet		3 r 🔽	<b></b>	C					
Do normal environmental o				f no, explai		40			
Has Vegetation   Evaluing	Soil	нуаго	logy 🔲 be	en signilica	antly disturbed	11			
Explain:			VECET	TATION					
Т	ree Stratum		7150131	MITO,		Herb Strat	um		
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 =	= 50% Sta	20 = 20% stus/Raw % Cover	
1		Status/R	aw % Cover	<u> </u>	1. Alopecuru	e nratancie	215	FACW 30*	
1.		+			2. Agrostis sto			FAC 55*	
3.					3.Juncus pate			FACW 15	
4.					4. Vicia amer			trace	
5.					5.				
Sapling/Shrub Stratum					6.				
	7.5= 50% 3	= 20%	Status/Ray	v % Cover	7.				
1.Rosa nutkana			FAC 15*		8.				
2.					9.				
3.					10.		·····		
4.			<del></del>		11.	·	<b></b>		
Hydrophytic Vegetation	Indiantora				1 12.				
✓ > 50% of dominants are (	DBL FACW or FA	AC Percent of	of Dominant 8	Species that	are OBL, FAC	W, FAC (not FA	.C-):100		
Other hydrophytic vegetation					•	,	•		
Criteria Met? XYes	No Commen	ts: Mets wet			<b>.</b> .				
				<u>ILS</u>					
Map Unit Name: Amity sil			Class: Some						
On Hydric Soil List?	es 🔀 No	Has Hyon	ic Inclusions	S7 ⊠ xes					
Depth Range of Horizon	Matrix Color		Redox Cone	centrations	Redox D	epletions	Texture		
0-13	10YR3/2		None				SIL		
13-18	10YR4/2		10YR4/6 C	FD			Si CL		
Hydric Soil Indicators:									
∐Histosol				Concretions/	Nodules (w/in	3", > 2mm)	- '7-3		
Histic Epipedon			브	High organic	content in sur	face (in Sandy S	Oils)		
Sulfidic Odor	a manitista)				aking (in Sandy (in Sandy Soils				
☐Reducing Conditions (test ☐Gleyed or low chroma cold			H	Listed on H	vdric Soils List	(and soil profile	e matches)		
Redox features within 10"	(e.g., concentration	ons)	П	Meets hydr	ic soil criteria 3	or 4 (ponded or	r flooded for l	ong duration)	
	· •.	•		Supplement	tal indicator (e.į	g., NRCS field in	ndicator)		
Criteria Met? 🔲 Yes	⊠ No								
			<u>HYDR</u>	<u>OLOGY</u>					
Recorded Data:	MA Direct	<b>t</b> ~~	☐Stream G	Г	Other	☑ No Record	ed Data Avail	able	
☐Recorded Data Available Field Data	Aerial Pho	105		augo L	7 08101	23110110			
Depth of inundation:		Depth to Sati	uration:4"	De	epth to Free Wa	ter:4"			
Primary Hydrology Indicat		Secondar	y Hydrology		(2 or more requ	rired):			
☐ Inundated			d Root Chan		12")				
Saturated in upper 12 inch	ies		tained leaves oil Survey D						
☐Water Marks ☐Drift Lines			Neutral Test						
Sediment Deposits		Other:	<del></del>						
Criteria Met? ⊠Yes □	] No	Comm	ients: .				•		
					•				
	7NO - 0	. Climbe - 1-10	<u>DETERI</u>	MINATION	ria sail inideata	re observed			
WETLAND? □YES ≥	NO Comments	s, ought shif	r m rohodryi	my, no nyai	te son minest	,, o odaci yeu,			

DEPARTMENT OF S	TATE LANDS	S WET	LAND I	DETER	MINATION			ick Method
County: Yamhill	Da Da	te: 2/28	3/07	City: Ne	wberg		#:1985	
Project/Contact: NewB./CS					C. Steinkoenig	5		
Plant Community: meadow/s Plot Location: South end of wes	crub-shrub			Plot #:19	•			
Recent Weather: cold/wet	lland							
	dialogo ark	71 .						
Do normal environmental con Has Vegetation				f no, expla		1_		
Explain:	Soil	Hydrolo	gy [ be	en signific	antly disturbed	!?		
тэхрганг.			VEGET	ATION				
Tree	Stratum					Herb Stratu	ım	
Total Plot Cover:0	= 50%		20%	Total Plot	Cover:55	27.5	= 50%	11 = 20%
1.	S	status/Rav	v % Cover		1 + 41		Sta	atus/Raw % Cover
2.		***************************************			1. Alopecurus 2. Agrostis sto			FACW 20*
3.				***************************************	3.	<i>ionyera</i>		FAC 35*
4.				***************************************	4.			
5.					5.			
Sapling/Shrub Stratum					6.			
Total Plot Cover:60 30=	50% 6= 20%	<u>′</u>	Status/Raw	% Cover	7.			
1.Rubus discolor	3070 10 2070		FACU 45		8.			<del> </del>
2.Quercus garryana			UPL 5	*	9.		•	
3.Crataegus sp.			FAC/FAC	115	10.			
4.Malus sp.	· · · · · · · · · · · · · · · · · · ·		NOL 5	0.3	11.			
5.			HODJ		12.			
Hydrophytic Vegetation Ind	icatore	<u></u>			12.			L
	FACWORFAC P	ercent of	Dominant C	nacion that	ore ODI EACH	ያ ፑለር (ቱል፥ ፑለር	1.66	
Other hydrophytic vegetation indi	icators	GICCHI OI	ການແນລນະ ວັ	heries mar	arc ODL, I'AC N	, I'AC (BOLI'AC	-9.00	
Criteria Met? ⊠Yes ☐ No	Comments: Me	ets wetla	nd vegetati	ion criteria				
			SO		•			
Map Unit Name: Amity silt loa	am Dra	inage Cl	ass: Some		v drained			
On Hydric Soil List? Tyes			Inclusions'					
D-4 D	· · · · · · · · · · · · · · · · · · ·	<del></del>	1		1515	7 .1	l m	
	trix Color YR3/2		edox Conc	entrations	Redox De	pletions	Texture	
I	YR4/2		one				SIL	
13-16	Y R4/2	10	YR4/6 CI	עיּ			Si CL	
		l						
Hydric Soil Indicators:								
☐Histosol ☐Histic Epipedon					Nodules (w/in 3'		!t=\	
Sulfidic Odor					content in surfa		ils)	
Reducing Conditions (tests pos	ritizal				ıking (in Sandy S (in Sandy Soils)	sons)		•
Gleyed or low chroma colors	nti voj				dric Soils List (	and soil profile r	natches	
Redox features within 10" (e.g.	concentrations)				c soil criteria 3 c			ng duration)
	,,				al indicator (e.g.,			
Criteria Met? 🗌 Yes 🔀	No						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			HYDRO	LOGY				
Recorded Data:				, <u>200 x</u>				
Recorded Data Available	Acrial Photos		Stream Gau	ige [	Other	No Recorded	l Data Availa	ible
Field Data					•			
Depth of inundation:	Depth	to Satura	tion:4"	Dej	oth to Free Wate	r;6"		•
Primary Hydrology Indicators:	Sec	ondary F	Iydrology I	ndicators (	2 or more requir	ed):		
Inundated			Root Channe	els (upper 1	2")			
Saturated in upper 12 inches			ned leaves					
☐Water Marks			Survey Dat	a				
Drift Lines		AC – Nei	utral Test					•
Sediment Deposits		Other:						•
Criteria Met? Yes No	•	Comment	ts: .					
•			Thereses a	INI A TELONI				
WETLAND? □YES ⊠NO	Comments: Sligi		<u>DETERM</u> topograph		e soil inideator	observed.		
	~~	331	h Pi whi	.,,, us				

County: Yamhill		ANDS WI Date: 2/	ETLAND	DETER	MINATION	DATA FO	RM – Q	uick Method
Project/Contact: NewB.	/CS	~~~. Z/	#BI U I	LOTY: Ne	wberg	Fil-	e#:1985	
Plant Community: mea	idow/scrub-shrub				C. Steinkoenig			
Plot Location: paired w/1	19			Plot #:20	,			
Recent Weather: cold/v	wet							
Do normal environment	al conditions exist	2 <b>V</b> [∇]	NICT I		•			
Has Vegetation	Soil _			lf no, expla				
Explain:	30II]	Hydro	ology 🗌 be	een signific	antly disturbed?	•		
<u> </u>			VEGET	CATION				
	Tree Stratum					Herb Strati	3220	
Total Plot Cover:0					•	ricio ottati	HII)	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 =	50%	20 = 20%
1.		Status/R	aw % Cover	<u> </u>	1 + 4.		St	atus/Raw % Cover
2.	·····				1. Alopecurus p	ratensis		FACW 20*
3.		<del> </del>			2.Agrostis stolo	nijera		FAC 80*
4.			·	~	4.			·
5.					5.	· · · · · · · · · · · · · · · · · · ·		
Sapling/Shrub Stratum			***	,	6.			<u> </u>
Total Plot Cover:15	7.5= 50% 3	= 20%	Status/Raw	% Cover	7.			<del> </del>
1.Crataegus sp.			FAC or FA		8.			
2.		11			9.			
3.			<b></b>		10.			
4.					11.		<del></del>	
5.		· · · · · · · · · · · · · · · · · · ·			12.			
Hydrophytic Vegetation	Indicators:		J					<u> </u>
> 50% of dominants are	OBL, FACW or FA	C Percent o	f Dominant Si	necies that a	re OBL. FACW. I	FAC (not EAC	· )•100	
Other hydrophytic vegetatio Criteria Met? Xes					, ,	(	7.240	
Map Unit Name: Amity s On Hydric Soil List?  Depth Range of Horizon	Yes No Matrix Color	Has Hydric	Class: Somew : Inclusions?	Yes [	□ No		1	
0-12	10YR3/2		Redox Conce 0YR3/6 MF		Redox Deple	etions	Texture	
12-18	10YR4/2		01R3/6 MF 0YR4/6 CF			· · · · · · · · · · · · · · · · · · ·	SICL	
	10 11(4/2		UIK4/6 CF	עי			Si CL	
Hydric Soil Indicators:			<u> </u>					
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes	ors	s)	□Hi □Or □Or □ Li □ M □ St	gh organic of ganic streak ganic pan (i sted on Hyd deets hydric upplemental	content in surface of the content in surface of the content in surface of the content in Sandy Soils of the content in Sandy Soils List (and soil criteria 3 or 4 indicator (e.g., NI	(in Sandy Soil is) I soil profile m (ponded or flo	atches)	ng duration)
Recorded Data:			HYDRO	<b>LOGY</b>				
Recorded Data Available Field Data	☐Aerial Photo	s [	]Stream Gaug	ge 🔲	Other 🛛	No Recorded 1	Data Availat	ole
Depth of inundation:  Primary Hydrology Indicat  Inundated  Saturated in upper 12 inch  Water Marks  Drift Lines  Sediment Deposits  Criteria Met?   Yes	<u>ors:</u> es	Secondary I Oxidized ) Water-stai Local Soil FAC - Ne Other:	Root Channels ned leaves Survey Data utral Test	dicators (2 s (upper 12"	Depth to Free V or more required): ') tanding water.	Vater: 1"		
Weti and Man	No. c		DETERMIN					
WETLAND? ⊠YES □	NO Comments: V	Vetland crite	ria met.					

Denis - 1/0		Date:	2/28/07	City: No	wberg	Rile #	LM – Quick Method
Project/Contact: NewB	./CS				C. Steinkoenig	1.112 4	r. 170J
Plant Community: mea	adow/scrub-sh	rub		Plot #:2			
Plot Location: east side i	f isolated wetlar	ıd			•		
Recent Weather: cold							
Do normal environment	al conditions of	xist? Y⊠	N□	If no, expla	in.		
Has Vegetation [	Soil 🔲			een sionifi	cantly disturbed	19	
Explain:		•	,	oom nightin	anny distriction	i t	
			VEGE	TATION			
	Tree Stratu	m		17777011	<del></del>	TT 1 0: .	
						Herb Stratum	1
Total Plot Cover:0	=	50%	= 20%	Total Plat	Cover:55	l oz z	
		Stat	us/Raw % Cover	10101110	COVEL'73	27.5 = :	
1.				<u> </u>	1. Alopecurus		Status/Raw % Cove
2.					2.Agrostis stol	praiensis	FACW 20*
3.					3.Festuca arui	ingera	FAC 60*
4.					4.	uceu	FAC- 20*
5.					5.		
Sapling/Shrub Stratum					6.		
Total Plot Cover:50	25= 50%	10= 20%	Status/Ray	v % Cover	7.		
1.Rubus discolor		<del></del>	FACU 50		8.	· · · · · · · · · · · · · · · · · · ·	
2.			17100 30				
3.					9.		
4.					10.		
5.					11.		
Hydrophytic Vegetation	Indicators				12.		
	ODI EXCUIA	-E40 D					
On Hydric Soil List?	Yes 🔀 No	Has Hy	dric Inclusions	? 🛚 Yes [	□ No		
Depth Range of Horizon	Matrix Colo	r					* *
0-13		1	Redox Conc	entrations	Redox Dep	letions	Texture
	10YR3/2	1	Redox Conc None	entrations	Redox Dep		Texture SI CL
13-18	10YR3/2 10YR4/2	1			Redox Dep		SI CL
13-18			None		Redox Dep		
13-18  Hydric Soil Indicators:		1	None		Redox Dep		SI CL
Hydric Soil Indicators:  Histosol			None 10YR4/6 FF	PD .			SI CL
Hydric Soil Indicators:  Histosol Histic Epipedon			None 10YR4/6 FE	D oncretions/N	lodules (w/in 3",	> 2mm)	SI CL
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor	10YR4/2		None 10YR4/6 FF	Oncretions/Nigh organic organic streak	lodules (w/in 3", content in surface	> 2mm)	SI CL
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	10YR4/2		None	oncretions/Nigh organic organic streat	Jodules (w/in 3", content in surface ting (in Sandy So in Sandy Soils)	> 2mm) c (in Sandy Soils) ils)	SI CL Si CL
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	ts positive)		None	oncretions/Nigh organic organic streak	Jodules (w/in 3", content in surface ting (in Sandy So in Sandy Soils) Tric Soils List (an	> 2mm) (in Sandy Soils) ils) d soil profile mate	SI CL Si CL
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	ts positive)		None	oncretions/Nigh organic organic streat ganic pan (instead on Hydric Meets hydric	Jodules (w/in 3", content in surface ting (in Sandy So in Sandy Soils) fric Soils List (an soil criteria 3 or	> 2mm) (in Sandy Soils) ils) d soil profile mate	SI CL Si CL ches) ded for long duration)
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10'	ts positive)		None	oncretions/Nigh organic organic streat ganic pan (instead on Hydric Meets hydric	Jodules (w/in 3", content in surface ting (in Sandy So in Sandy Soils) fric Soils List (an soil criteria 3 or	> 2mm) (in Sandy Soils) ils) d soil profile mate	SI CL Si CL ches) ded for long duration)
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10'	ts positive)		None	oncretions/Nigh organic organic streak rganic streak rganic pan (instead on Hydric deets hydric upplemental	Jodules (w/in 3", content in surface ting (in Sandy So in Sandy Soils) fric Soils List (an soil criteria 3 or	> 2mm) (in Sandy Soils) ils) d soil profile mate	SI CL Si CL ches) ded for long duration)
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10'  Criteria Met? Yes  Recorded Data:	ts positive)		None	oncretions/Nigh organic organic streak rganic streak rganic pan (instead on Hydric deets hydric upplemental	Jodules (w/in 3", content in surface ting (in Sandy So in Sandy Soils) fric Soils List (an soil criteria 3 or	> 2mm) (in Sandy Soils) ils) d soil profile mate	SI CL Si CL ches) ded for long duration)
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10°  Criteria Met?  Yes	ts positive)	ations)	None 10YR4/6 FF	oncretions/Nigh organic streak rganic streak rganic pan (i isted on Hyd Meets hydric upplemental	Jodules (w/in 3", content in surface cing (in Sandy So in Sandy Soils) dric Soils List (an soil criteria 3 or indicator (e.g., 1)	> 2mm) (in Sandy Soils) ils) d soil profile mate (ponded or flood	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10°  Criteria Met?  Yes  Recorded Data:  Recorded Data Available Field Data	ts positive) ors ' (e.g., concentr	ations)	None	oncretions/Nigh organic streak rganic streak rganic pan (i isted on Hyd Meets hydric upplemental	Jodules (w/in 3", content in surface cing (in Sandy So in Sandy Soils) dric Soils List (an soil criteria 3 or indicator (e.g., 1)	> 2mm) (in Sandy Soils) ils) d soil profile mate	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10°  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data  Depth of inundation:	ts positive) ors '(e.g., concentre  No	ations)	None  10YR4/6 FH  10YR4/6 FH  10O  10O  1 I  1 S  1 S  HYDRO	oncretions/Nigh organic streak rganic pan (isted on Hydric upplemental LOGY	Jodules (w/in 3", content in surface ting (in Sandy Soils) dric Soils List (an soil criteria 3 or indicator (e.g., )	> 2mm) (in Sandy Soils) ils) d soil profile mate (ponded or flood IRCS field indicat	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10°  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data  Depth of inundation:  Primary Hydrology Indicat	ts positive) ors '(e.g., concentre  No	hotos  Depth to Si Second:	None  10YR4/6 FF  10YR4/6 FF  C C C C C C C C C C C C C C C C C C	oncretions/Nigh organic organic streak rganic pan (isted on Hydric upplemental LOGY  ge   Indicators (2	lodules (w/in 3", content in surface ting (in Sandy Soils) fric Soils List (an soil criteria 3 or indicator (e.g., Nother Depth to Free Wa or more required	> 2mm) c (in Sandy Soils) ils) d soil profile mate 4 (ponded or flood IRCS field indicat	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10°  Criteria Met? Yes  Recorded Data:  Recorded Data Available  Field Data  Depth of inundation:  Primary Hydrology Indicat  Inundated	ts positive) ors '(e.g., concentre  No  Aerial P	hotos  Depth to Sacconda	None  10YR4/6 FF  10YR4/6 FF  C C C C C C C C C C C C C C C C C C	oncretions/Nigh organic organic streak rganic pan (isted on Hydric upplemental LOGY  ge   Indicators (2	lodules (w/in 3", content in surface ting (in Sandy Soils) fric Soils List (an soil criteria 3 or indicator (e.g., Nother Depth to Free Wa or more required	> 2mm) c (in Sandy Soils) ils) d soil profile mate 4 (ponded or flood IRCS field indicat	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10°  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat  Janual Saturated in upper 12 inch	ts positive) ors '(e.g., concentre  No  Aerial P	hotos  Depth to Si Seconds  Oxidit  Water	None  10YR4/6 FF  10YR4/6 FF  C C C C C C C C C C C C C C C C C C	oncretions/Nigh organic organic streak rganic pan (isted on Hydric upplemental LOGY ge   Indicators (2 ls (upper 12)	lodules (w/in 3", content in surface ting (in Sandy Soils) fric Soils List (an soil criteria 3 or indicator (e.g., Nother Depth to Free Wa or more required	> 2mm) c (in Sandy Soils) ils) d soil profile mate 4 (ponded or flood IRCS field indicat	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10'  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Junudated Saturated in upper 12 inch Water Marks	ts positive) ors '(e.g., concentre  No  Aerial P	hotos  Depth to Si Seconds  Oxidit  Water  Local	None  10YR4/6 FF  10YR4/6 FF  C  H  C  C  H  C  C  C  H  C  C  C  C	oncretions/Nigh organic organic streak rganic pan (isted on Hydric upplemental LOGY ge   Indicators (2 ls (upper 12)	lodules (w/in 3", content in surface ting (in Sandy Soils) fric Soils List (an soil criteria 3 or indicator (e.g., Nother Depth to Free Wa or more required	> 2mm) c (in Sandy Soils) ils) d soil profile mate 4 (ponded or flood IRCS field indicat	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10'  Criteria Met? Yes  Recorded Data:  Recorded Data Available  Field Data  Depth of inundation:  Primary Hydrology Indicat  Inundated  Saturated in upper 12 inch  Water Marks  Drift Lines	ts positive) ors '(e.g., concentre  No  Aerial P	hotos  Depth to Socondo  Gorido  Water  Local  FAC	None  10YR4/6 FF  10YR4/6 FF  C  H  O  O  O  I  S  HYDRO  Stream Gau  aturation: ary Hydrology In  zed Root Channe -stained leaves  Soil Survey Data - Neutral Test	oncretions/Nigh organic organic streak rganic pan (isted on Hydric upplemental LOGY ge   Indicators (2 ls (upper 12)	lodules (w/in 3", content in surface ting (in Sandy Soils) fric Soils List (an soil criteria 3 or indicator (e.g., Nother Depth to Free Wa or more required	> 2mm) c (in Sandy Soils) ils) d soil profile mate 4 (ponded or flood IRCS field indicat	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10°  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Junudated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	ts positive) fors '(e.g., concentre No Aerial P	hotos  Depth to Seconda  Oxidit  Water  Local  FAC-  Other:	None  10YR4/6 FH  10YR4/6 FH  10YR4/6 FH  10	oncretions/Nigh organic organic streak rganic pan (isted on Hydric upplemental LOGY ge   Indicators (2 ls (upper 12)	lodules (w/in 3", content in surface ting (in Sandy Soils) fric Soils List (an soil criteria 3 or indicator (e.g., Nother Depth to Free Wa or more required	> 2mm) c (in Sandy Soils) ils) d soil profile mate 4 (ponded or flood IRCS field indicat	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Histosol  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10°  Criteria Met? Yes  Recorded Data:  Recorded Data Available  Field Data  Depth of inundation:  Primary Hydrology Indicat  Inundated  Saturated in upper 12 inch  Water Marks  Drift Lines  Sediment Deposits	ts positive) fors '(e.g., concentre No Aerial P	hotos  Depth to Seconda  Oxidit  Water  Local  FAC-  Other:	None  10YR4/6 FF  10YR4/6 FF  C  H  O  O  O  I  S  HYDRO  Stream Gau  aturation: ary Hydrology In  zed Root Channe -stained leaves  Soil Survey Data - Neutral Test	oncretions/Nigh organic organic streak rganic pan (isted on Hydric upplemental LOGY ge   Indicators (2 ls (upper 12)	lodules (w/in 3", content in surface ting (in Sandy Soils) fric Soils List (an soil criteria 3 or indicator (e.g., Nother Depth to Free Wa or more required	> 2mm) c (in Sandy Soils) ils) d soil profile mate 4 (ponded or flood IRCS field indicat	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test Gleyed or low chroma col  Redox features within 10°  Criteria Met? Yes  Recorded Data:  Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Junudated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	ts positive) fors '(e.g., concentre No Aerial P	hotos  Depth to Seconda  Oxidit  Water  Local  FAC-  Other:	None  10YR4/6 FH  10YR4/6 FH	oncretions/Nigh organic streak rganic streak rganic pan (i.isted on Hydric upplemental vLOGY)  ge  Indicators (2 ls (upper 12)	lodules (w/in 3", content in surface ting (in Sandy Soils) fric Soils List (an soil criteria 3 or indicator (e.g., Nother Depth to Free Wa or more required	> 2mm) c (in Sandy Soils) ils) d soil profile mate 4 (ponded or flood IRCS field indicat	SI CL Si CL ches) ded for long duration) or)
Hydric Soil Indicators:  Histosol  Histic Epipedon  Sulfidic Odor  Reducing Conditions (test  Gleyed or low chroma col  Redox features within 10'  Criteria Met? Yes  Recorded Data:  Recorded Data Available  Field Data  Depth of inundation:  Primary Hydrology Indicat  Inundated  Saturated in upper 12 inch  Water Marks  Drift Lines  Sediment Deposits  Criteria Met? Yes	ts positive) lors ' (e.g., concentrate) No  Aerial Positions:	hotos  Depth to Some Seconds  Oxidit  Water  Local  FAC-  Other:  Com	None  10YR4/6 FH  10YR4/6 FH  10YR4/6 FH  10	oncretions/Nigh organic organic streak reganic pan (isted on Hydric upplemental particles)  LOGY  ge  Indicators (2 ls (upper 12)	Jodules (w/in 3", content in surface ting (in Sandy Soils) dric Soils List (an soil criteria 3 or indicator (e.g., 1)  Other  Depth to Free Wa or more required ")	> 2mm) c (in Sandy Soils) ils) d soil profile mate 4 (ponded or flood IRCS field indicat	SI CL Si CL ches) ded for long duration) or)

DEPARTMENT (County: Yamhill		NDS WETLAND Date: 2/28/07	DETER City: Ne	MINATION DA	TA FORM	– Quick Method
Project/Contact: NewB.	/CS	Dato. 2/20/01			File #:19	85
Plant Community: mea	dow/scrub-shrub		Plot #:22	C. Steinkoenig		
Plot Location: Paired w/	Sample plot 21		F10t #:Z2	4		
Recent Weather: cold/w	ret					
Do normal environmenta	al conditions exist?	Y⊠ N□	T.C 1	•		
Has Vegetation	Soil	——————————————————————————————————————	If no, expla	in;		
Explain:	2011	Hydrology 🗍 🛚 1	oeen signific	antly disturbed?		
-		VEGE	TATION			
	Tree Stratum		1777107	He	rb Stratum	
Total Plot Cover:0	5004				o budidin	
Total Tiol Covol.0	= 50%	= 20% Status/Raw % Cover	Total Plot	Cover:100	50 = 50%	20 = 20%
1.				1. Alopecurus prate		Status/Raw % Cover
2.			····	2. Agrostis stolonife		FACW 50*
3.				3.Moss	· ·	FAC 45*
4.				4.		5
5.			·	5.		
Sapling/Shrub Stratum				6.		
Total Plot Cover:5	2.5= 50% I=	20% Status/Rav	w % Cover	7.		<del>-  </del>
1.Rubus discolor		FACU 5		8.		
2.				9.		
3.			······································	10.		
4.				11.		
5.		· · · · · · · · · · · · · · · · · · ·				
Hydrophytic Vegetation	Indicators	<del></del>		12.		
	OBL. FACW or FAC	Percent of Dominant		001 54001 540		
Other hydrophytic vegetation	n indicators	Leacent of Donningot !	species that a	re OBL, FACW, FAC	(not FAC-):100	
Criteria Met? ∑Yes ☐	No Commenter	Vocatation asiasis :	·	•		
Map Unit Name: Amity si On Hydric Soil List?		Drainage Class: Some Has Hydric Inclusions Redox Conc	? ⊠Yes [	] No		
0-12	10YR3/2	10YR3/6 CH		Redox Depletion		ture
12-18	10YR4/2	10YR4/6 M			SIL	
	1011(1)2	101K4/0 W	רט		Sic	L
Hydric Soil Indicators:						
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test ☐Gleyed or low chroma cole ☐Redox features within 10"  Criteria Met? ☐ Yes	ors		ligh organic o Organic streak Organic pan (i Listed on Hyo Meets hydric	lodules (w/in 3", > 2m content in surface (in S ing (in Sandy Soils) n Sandy Soils) tric Soils List (and soi soil criteria 3 or 4 (po indicator (e.g., NRCS	Sandy Soils)  I profile matches nded or flooded	) for long duration)
Recorded Dates		<u>HYDRO</u>	DLOGY			
Recorded Data:  Recorded Data Available Field Data	Aerial Photos	☐Stream Gau	ige 🔲	Other 🛭 No	Recorded Data A	vailable
<u>Picto Data</u> Depth of inundation: <u>Primary Hydrology Indicat</u> e	Dep	oth to Saturation:Saturate	ed to the surf	ace Depth	to Free Water:	
Inundated  Saturated in upper 12 inch  Water Marks  Drift Lines  Sediment Deposits  Criteria Met?   Yes □	es [	Secondary Hydrology I Oxidized Root Channe Water-stained leaves Local Soil Survey Date FAC – Neutral Test Other: Comments: .	els (upper 12'	or more required); ')		
WETLAND? ⊠YES □	NO Comments: All	<u>DETERMI</u> wetland criteria is me	NATION t.	·		

County: Yambill	OF STATE LA	NDS WE	TLAND	DETER	MINATION	DATA FO	RM – Or	nick Method		
County: Yamhill Project/Contact: NewB./	1	Date: 2/2	28/07	City: Ne	wberg	File	#:1985			
Plant Community: mea					C. Steinkoenig	3	····			
Plot Location:	uow/scrub-snrub			Plot #:23	3					
Recent Weather: cold										
Do normal environmenta	l conditions aut 40	12KZ			_					
Has Vegetation	Soil			f no, expla						
Explain:	2011	Hydro	logy 🗌 be	een signific	cantly disturbed	1?				
			Mincipa	D A MY CONT						
	Tree Stratum		YEGE	TATION		Herb Stratu	ım			
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	1.50	5004			
			aw % Cover	1 OLAI I IO	COVEL 100	50 =		20 = 20%		
1.				1	1. Alopecurus	nratencie	Su	itus/Raw % Cover		
2.	ı			···	2.Agrostis sto	lonifera		FACW 20* FAC 50*		
3.	· · · · · · · · · · · · · · · · · · ·				3.Dactylis glo			FACU 20*		
4.					4.Chrysanther	num ;euc.	···	NOL 5		
5.					5.Aster sp.	· · · · · · · · · · · · · · · · · · ·		Unknown 5		
Sapling/Shrub Stratum					6.					
Total Piot Cover:35	17.5= 50% 7=	= 20%	Status/Raw		7.					
1.Rubus discolor	· · · · · · · · · · · · · · · · · · ·		FACU- 10		8.		************			
2.Rubus laciniatus			FACU+ tr	ace	9.					
3.Rhamnus purshiana			FAC-5		10.					
4.Crataegus sp			FAC/FAC	U 20*	11.		100			
5.  Hydrophytic Vegetation					12.					
Criteria Met? Yes Map Unit Name: Amity si On Hydric Soil List?	lt loam	s: Hawthron Drainage C Has Hydric	<u>SOI</u> lass: Somev	<u>LS</u> vhat poorly	∕ drained ] No					
Depth Range of Horizon	Matrix Color	R	edox Conce	entrations	Redox Der	letions	Texture			
0-13	10YR3/2		lone				SIL			
13-18	10YR4/2	1	0YR4/6 MI	FD			Si CL			
TT 1 1 0 11 11							·			
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma cole Redox features within 10"	Hydric Soil Indicators:    Histosol									
Recorded Data:			HYDRO	<u>LOGY</u>						
Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inche Water Marks Drift Lines Sediment Deposits Criteria Met? Yes	<u>ors:</u> es	epth to Satura Secondary I Oxidized I Water-stai	Hydrology In Root Channel ned leaves Survey Data utral Test	dicators (2 s (upper 12	Depth to Free Wa	No Recorded later:10" i):	Data Availab	ie		
WETLAND? □YES ⊠	NO Comments: V	egetation an	<u>DETERMIN</u> d soil did not	NATION t met wetla	nd criteria.					

DEPARTMENT O	F STATE LA			· · · · · · · · · · · · · · · · · · ·				ick Method
County: Yamhill		Date: 2/2	28/07	City: Nev			#:1985	
Project/Contact: NewB./C				-	C. Steinkoeni	g		
Plant Community: mead				Plot #:24				
Plot Location: Paired w/ sz Recent Weather: cold	mple plot 23							
Do normal environmental	aanditiana suist	1717	ът [ т	E	<u>.</u> .			
Has Vegetation	Soil			f no, explai	m: antly disturbe	สว		
Explain:	2011	Tiyato	rogy [] oc	cu agunc	anny disturbe	u :		
Dybur.			VEGET	TATION				
	Tree Stratum		,,,,,,,,			Herb Stratu	m	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50=5		20 = 20%
		Status/R	aw % Cover	<u>L</u>	1 4 25		Sta	atus/Raw % Cover
2.					1. Alopecuru 2.Agrostis ste			FACW 50* FAC 45*
3.					3.Moss	жинует и		5
4.					4.			
5.					5.			
Sapling/Shrub Stratum					6.			
Total Piot Cover:30	15= 50% 6	= 20%	Status/Rav	v % Cover	7.			
1.Rosa nutkana			FAC 30*		8.			
2.	·				9.			
3.	,		<u> </u>		10.			
4.			1		11.		······································	
5. Hydrophytic Vegetation			1		12.			
Criteria Met? ⊠Yes ☐ Map Unit Name: Amity s: On Hydric Soil List? ☐	lt loam	Drainage (		<u>ILS</u> what poorly				
Depth Range of Horizon	Matrix Color		Redox Conc		Redox De	epletions	Texture	
0-10	10YR3/2		10YR3/6 M				SlL	
10-16	10YR4/2		10YR4/6 M	IFD			Si CL	
				·				
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tes Gleyed or low chroma co Redox features within 10'  Criteria Met? Yes	lors	ons)		High organic Organic strea Organic pan Listed on Hy Meets hydri	aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3	ace (in Sandy Soi Soils)	natches) looded for Id	ong duration)
Recorded Data:			HYDR	<u>OLOGY</u>				
Recorded Data Available Field Data	Aerial Pho	tos	☐Stream Ga	wge [	Other	⊠ No Recorded	Data Avail	able
Depth of inundation:  Primary Hydrology Indica Inundated Saturated in upper 12 inc Water Marks Drift Lines Sediment Deposits Criteria Met?	hes	Oxidize Water-s Local S	y Hydrology d Root Chant tained leaves oil Survey Da Neutral Test	Indicators ( nels (upper 1	2 or more requ	Depth to Free 'ired):	Water:	
WETLAND? ⊠YES [	NO Comments	: All wetland		<u>IINATION</u> iet.				

DEPARTMENT O	F STATE LAN	DS WE	TLAND I	DETERI	MINATION DA	ATA FORI	M - Quick Method	
County: Yamniii		E LANDS WETLAND DETERMINATION DATA FORM – Quick Method Date: 2/28/07   City: Newberg   File #:1985						
	Project/Contact: NewB./CS				Det. By: C. Steinkoenig			
Plant Community: meadow Plot #:25								
Plot Location: south of iso								
Recent Weather: cold/we		. + <del>K - Z</del> !		_				
Do normal environmental				f no, expla				
Has Vegetation	Soil	Hydrol	logy 🗌 🛮 be	en signific	antly disturbed?			
Explain:								
	Free Stratum		VEGET	<u>'ATION</u>	He	erb Stratum		
Total Plot Cover:0 = 50%		Т	= 20%	Total Plot Cover:100   50 = 50%   20 = 20%				
			aw % Cover	TOIA! FIUI	COVELLIOU	30 = 30%		
1.		CTATALO, XC	70 00101	<del></del>	1. Alopecurus prat	lancie .	Status/Raw % Cover	
2.			· · · · · · · · · · · · · · · · · · ·		2.Agrostis stolonif		FAC 80*	
3.					3.		1770 00	
4.					4.			
5.				***************************************	5.			
Sapling/Shrub Stratum					6.			
Total Plot Cover:	= 50%	= 20%	Status/Raw	% Cover	7.			
1.					8.			
2.					9.			
3.					10.	***************************************		
4.					11.			
5. Hydrophytic Vegetation					12.			
Map Unit Name: Amity si On Hydric Soil List?	lt loam I Yes ⊠ No H	Orainage C Ias Hydrid	SOI Class: Somev Inclusions?	vhat poorly	y drained No			
Depth Range of Horizon	Matrix Color		Redox Concentrations		Redox Depletions		Texture	
0-12	10YR3/2		10YR3/6 MFD				SI CL	
12-18	10YR4/2	1	OYR4/6 CF	D			Si CL	
Hydric Soil Indicators:    Histosol								
Criteria wite: 🖂 1 es	□ 140		TIVDDO	TOCY				
Recorded Data:  Recorded Data Available Field Data	Aerial Photos		<u>HYDRO</u> Stream Gau		] Other 🔲 N	lo Recorded Da	ata Available	
Depth of inundation:  Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	ors: S C es C	Gecondary Oxidized Water-sta Local Soi FAC – No	Root Channe tined leaves Il Survey Data cutral Test	ndicators () ls (upper 12	,	ater: 1"		
Criteria Met? XYes	•		DETERMI	-	standing water.		·	
WETLAND? ⊠YES □	INU Comments: We	eciano crit	eria met.					

County: Yambill	OF STATE LAI	NDS WE	TLAND ]	DETERI	MINATION I	DATA FOI	RM – On	ick Method
		Date: 2/2	28/07	City: Ne	wberg	File	#:1985	LIAUGHVU
Project/Contact: NewB./					C. Steinkoenig			
Plant Community: mead	low			Plot #:26	i			
Plot Location: Paired w/sa	impleplot 25							
Recent Weather: cold		_						
Do normal environmenta	conditions exist?		N 🔲 I	f no, expla	in:			
Has Vegetation	Soil	Hydro	ogy 🗍 be	en signific	antly disturbed?			
Explain:			•	•				
			VEGET	<b>TATION</b>				
	Tree Stratum				F	Ierb Stratur	m	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 = 5	004	20 - 000/
			w % Cover	101211100	C0701.100	1 30 - 3		20 = 20% tus/Raw % Cover
1.			<del></del>	·	1. Alopecurus pr	atensis	Sia	FACW 45*
2.					2.Agrostis stolon			FAC 55*
3.					3.	<del></del>		1710 33
4.					4.			
					5.			
Sapling/Shrub Stratum Total Plot Cover:10					6.			
1.Rubus discolor	5= 50% 2.5	= 20%	Status/Raw	% Cover	7.			
2.Malus sp.			FACU 5*		8.			
3.			NOL 5*		9.			
4,		-			10.			
5.					11.			
	Y. 3.				12.			
Hydrophytic Vegetation	indicators:							
> 50% of dominants are Other hydrophytic vegetation	UBL, FACW or FAC	Percent of	Dominant <u>S</u>	pecies that a	re OBL, FACW, F	'AC (not FAC-)	):66	
Map Unit Name: Amity si On Hydric Soil List?		Drainage C Has Hydric	SOI lass: Somev Inclusions?	vhat poorly	drained			
Depth Range of Horizon	Matrix Color		edox Conce		Redox Deple	tions	Texture	
0-12	10YR3/2		lone	71111 (461(7)11)	Redox Depte	tions	Sl L	
12-18	10YR4/2		0YR4/6 CF	m Cr			Si CL	
					····		DI CL	
Hydric Soil Indicators:								
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma cold Redox features within 10"  Criteria Met? Yes	DES	)	□Hi □Oi □Oi □ L □ Si	igh organic rganic streat rganic pan ( isted on Hyd deets hydric upplemental	Nodules (w/in 3", > content in surface ( cing (in Sandy Soils in Sandy Soils) dric Soils List (and soil criteria 3 or 4 indicator (e.g., NF	in Sandy Soils s) soil profile ma (ponded or flo	atches) oded for lon	g duration)
Recorded Data:			<u>HYDRO</u>	<u>LOGY</u>				
Recorded Data Available Field Data	Aerial Photos		]Stream Gau	ge 🔲	Other 🔯	No Recorded I	Data Availab	le
Depth of inundation:  Primary Hydrology Indicate Inundated Saturated in upper 12 inche Water Marks Drift Lines Sediment Deposits  Criteria Met? Yes	ors: Es [	_Oxidized ] _Water-stai	Hydrology In Root Channel ned leaves Survey Data utral Test	idicators (2 ls (upper 12	th to Free Water:5" or more required): ")			
WETLAND? □YES ⊠	NO Comments: So	il did not m	<u>DETERMII</u> et wetland c	NATION riterion.				

DEPARTMENT O	F STATE LAN	NDS WE	TLAND	DETERI	MINATION DA	ATA FORM –	Ouick Method
	1	Date: 2/2	28/07	Uity: Ne	wberg	File #:198:	Zarox Mothod
Project/Contact: NewB./C Plant Community: meade	S				C. Steinkoenig		
Plot Location: Tax lot 1000	)W			Plot #:27	·		
Recent Weather: cold	vei Clinic						
Do normal environmental	nonditions arise	3787		_			
Has Vegetation	Soil		ı 🗖 Kı	f no, expla	in:		
Explain:	3011 <u> </u>	Hydro	logy 🔲 be	en signific	antly disturbed?		
			10 men	ATION			
7	Tree Stratum		YEGE	ATION	He	erb Stratum	
Total Plot Cover:0	= 50%		= 20%	Total Dist	Cover:100		
			aw % Cover	10tal Plot	Cover: 100	50 = 50%	20 = 20%
1.					1.Poa pratenisis		Status/Raw % Cover
2,		·····			2.Agrostis stolonife	era	FAC 45* FAC 50*
3.					3.Rumex crispus		FAC+ trace
<b>4.</b> 5.					4.Chrysanthemum	Leuc.	UPL trace
					5.Trifolium repens		FAC 15
Sapling/Shrub Stratum Total Plot Cover:	<u></u>				6.		
1.	= 50%	= 20%	Status/Raw	% Cover	7.		
2.					8.		
3.		·			9.		
4.					10.		
5.	w			·····	11.		
Hydrophytic Vegetation 3			<u> </u>		12.		
Map Unit Name: Woodbur On Hydric Soil List? Y	n silt loam 0-7% I es ⊠ No I	Orainage C Has Hydric	lass: Moder : Inclusions?	ately well o	drained ☑ No		
	Matrix Color	F	Redox Conce	entrations	Redox Depletion	ons Textu	are
0-16	10YR3/3	l l	lone			SIL	
	***************************************						
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" ( Criteria Met? Yes	rs		Hi   Oi   L   M	gh organic of ganic streak ganic pan (i isted on Hyd deets hydric upplemental	lodules (w/in 3", > 2n content in surface (in king (in Sandy Soils) in Sandy Soils) dric Soils List (and so soil criteria 3 or 4 (p indicator (e.g., NRC	Sandy Soils)  oil profile matches) onded or flooded fo	or long duration)
Recorded Data:			HIDRO	LUGI			
Recorded Data Available Field Data	Acrial Photos		]Stream Gau	ge 🗀	Other No	Recorded Data Av	ailable
Depth of inundation:  Primary Hydrology Indicator  Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits  Criteria Met? Yes	r <u>s:</u> S C S C	_IOxidized	Hydrology In Root Channel ined leaves Survey Data utral Test	dicators (2 s (upper 12'	Depth to Free Water: or more required): ")		
WETLAND? □YES ☒N	NO Comments: No	hydric soi	DETERMII l or wetland	<u>NATION</u> hydrology c	bserved.		

DEPARTMENT ( County: Yamhill	1	Date: 2/	28/07	City: Ne	where	71 // 42-	Quick Meillon
Project/Contact: NewB./	'CS		-0101		C. Steinkoenig	File #:198	5
Plant Community: mea	dow			Plot #:28			
Plot Location: Tax lot 90	0						
Recent Weather: cold							
Do normal environmenta	ıl conditions exist?	' Y⊠	и 🗌 и	f no, expla	in:		
Has Vegetation	Soil 🗌	Hydro			antly disturbed?		
Explain:					,		
	Tree Stratum		VEGET	TATION	H	erb Stratum	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 - 5004	
			w % Cover	701411100	00101,100	50 = 50%	20 = 20% Status/Raw % Cove
1.				1,,	1.Poa pratenisis		FAC 45*
2.					2.Agrostis stoloni	fera	FAC 50*
3. 4.					3.Rumex crispus		FAC+ trace
<del>4.</del> 5.		_			4.Chrysanthemun	Leuc.	UPL trace
					5.Trifolium repens	3	FAC 15
Sapling/Shrub Stratum  Total Plot Cover:			<b></b>	·	6.		
1 otal Plot Cover:	= 50%	= 20%	Status/Raw	% Cover	7.		
2.					8.		
<u>2.                                    </u>		·			9.		
3. 4.	3134.				10.		
<del>4.</del> 5.					11.		
o. Hydrophytic Vegetation					12.		
On Hydric Soil List?		Has Hydric			<u>√</u> 1 1/10		
Depth Range of Horizon 0-17	Matrix Color 10YR3/3		tedox Conce lone	entrations	Redox Depleti		ure
	10110/3	- I	ione			SI L	
, , , , , , , , , , , , , , , , , , ,					1	İ	
Hydric Soil Indicators:							
Histosol							
			По				
_Histic Epipedon			∏Co □ Hi	oncretions/N	lodules (w/in 3", > 2	emm)	
_Histic Epipedon _Sulfidic Odor			∐Hi	igh organic	content in surface (ii	r Sandy Soils)	
Sulfidic Odor Reducing Conditions (test	s positive)		∐Hi □oi	igh organic rganic streak	content in surface (in ting (in Sandy Soils)	r Sandy Soils)	
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col	OLS		□ L	igh organic ( rganic streak rganic pan (i isted on Hyd	content in surface (in cing (in Sandy Soils) in Sandy Soils) dric Soils List (and s	n Sandy Soils) oil profile matches)	
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Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10"	ors '(e.g., concentration	s)	Hi   Oi   Di   L	igh organic rganic streak rganic pan (i isted on Hyd Jeets hydric	content in surface (in cing (in Sandy Soils) in Sandy Soils) dric Soils List (and s	n Sandy Soils)  oil profile matches)  ponded or flooded f	or long duration)
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Appendices Boiler Plate Information References

#### **Boiler Plate Information**

## Wetland Definition and Authority

The U.S. Army Corps of Engineers (COE) regulates the discharge of dredged or fill materials into waters and adjacent wetlands of the United States under authority of Section 404 of the Clean Water Act (*Federal Register*, 1986). For purposes of the Section 404 permitting program, the COE and other federal agencies define wetlands as follows (*Federal Register*, 1980, 1982):

"Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions."

In Oregon, the Department of State Lands (DSL) regulates removal/fill permitting in wetlands under ORS 196.800 to 196.990, and OAR 141-85-005 to OAR 141-85-090, and uses the same definition.

#### Regulatory Context

In 1987, the COE published a manual (Corps of Engineers Wetlands Delineation Manual or 1987 manual), which describes methods for determining the extent of jurisdictional wetlands under Section 404 of the Clean Water Act (Environmental Laboratory, 1987). The Federal Manual for Identifying and Delineating Jurisdictional Wetlands was published two years later as a collaborative effort by the COE, U.S. Fish and Wildlife Service (USFWS), U.S. Environmental Protection Agency (EPA), and U.S. Soil Conservation Service (SCS), revised the 1987 manual (Federal Interagency Committee for Wetland Delineation, or 1989 manual).

Both the COE and DSL used the 1989 manual until 1992 when the 1992 Energy and Water Development Appropriation Act went into effect. The Act limited the COE (federal permitting agency) to using the 1987 manual for determining the extent of wetlands under federal jurisdiction. Oregon continued to use the 1989 manual until March 23, 1993, when the Director of DSL signed a policy statement requiring the agency to use the 1987 manual. The policy statement was the result of the EPA agreement to use the 1987 manual.

#### Vegetation

Plants growing in wetlands must be specifically adapted for life under saturated or anaerobic conditions and are commonly referred to as hydrophytic vegetation. The U.S.F.W.S. in cooperation with the National and Regional Interagency Review Panels publishes regional lists estimating the probability of plant species' occurrence in wetlands (e.g., Fish and Wildlife Service, 1988). Each species is given an *indicator status*, which represents the likelihood that it will be found in a wetland. Categories defined in Table 1

are obligate (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), or upland (UPL). Plants with an indicator status of OBL, FACW, or FAC are considered adapted for life in saturated or anaerobic soil conditions.

The percent coverage of each plant species within the herb, shrub, and tree layers was estimated at each sample plot. Shrubs within a five-foot radius and trees within a 30-foot radius of the center of each plot were identified and recorded. Within the plot, all species were recorded in descending order of coverage, and dominant species were determined. The presence of wetland vegetation was determined according to the indicator status of the dominant species within each vegetative stratum. According to the manual, a sample plot is considered to have wetland vegetation if more than 50% of the number of dominant species present has an indicator status of OBL, FACW, and/or FAC. By 1987 standards, dominant species are chosen by selecting the three most dominant species from each of the four strata (herbs, saplings/shrubs, woody vines, trees). If only one or two strata are represented, then the five most dominant species from each stratum are selected.

FACW Facultative wetland. Species that usually occur in wetlands (estimated probability 67 to 99%), but occasionally are found in non-wetlands.  FAC Facultative. Species that are equally likely to occur in wetlands non-wetlands (estimated probability 34 to 66%).  FACU Facultative upland. Species that usually occur in non-wetlands (estimated probability 67 to 99%), but occasionally are found in wetlands.  UPL Upland. Species that occur in non-wetlands under natural conditions with an estimated probability of greater than 99%  No indicator. Species for which insufficient information was	TABLE 1: DEFINITIONS	OF INDICATOR STATUS
FACW Facultative wetland. Species that usually occur in wetlands (estimated probability 67 to 99%), but occasionally are found in non-wetlands.  FAC Facultative. Species that are equally likely to occur in wetlands non-wetlands (estimated probability 34 to 66%).  FACU Facultative upland. Species that usually occur in non-wetlands (estimated probability 67 to 99%), but occasionally are found in wetlands.  UPL Upland. Species that occur in non-wetlands under natural conditions with an estimated probability of greater than 99%  NI No indicator. Species for which insufficient information was	Indicator Symbol	Definition
(estimated probability 67 to 99%), but occasionally are found in non-wetlands.  FAC  Facultative. Species that are equally likely to occur in wetlands non-wetlands (estimated probability 34 to 66%).  FACU  Facultative upland. Species that usually occur in non-wetlands (estimated probability 67 to 99%), but occasionally are found in wetlands.  UPL  Upland. Species that occur in non-wetlands under natural conditions with an estimated probability of greater than 99%  No indicator. Species for which insufficient information was	OBL	Obligate. Species that occur in wetlands under natural conditions with an estimated probability of greater than 99%
ron-wetlands (estimated probability 34 to 66%).  FACU  Facultative upland. Species that usually occur in non-wetlands (estimated probability 67 to 99%), but occasionally are found in wetlands.  UPL  Upland. Species that occur in non-wetlands under natural conditions with an estimated probability of greater than 99%  No indicator. Species for which insufficient information was	FACW	(estimated probability 67 to 99%), but occasionally are found in
(estimated probability 67 to 99%), but occasionally are found in wetlands.  UPL  Upland. Species that occur in non-wetlands under natural conditions with an estimated probability of greater than 99%  No indicator. Species for which insufficient information was	FAC	Facultative. Species that are equally likely to occur in wetlands or non-wetlands (estimated probability 34 to 66%).
No indicator. Species for which insufficient information was	FACU	Facultative upland. Species that usually occur in non-wetlands (estimated probability 67 to 99%), but occasionally are found in wetlands.
	UPL	• •
available to determine all findicator status.	NI	No indicator. Species for which insufficient information was available to determine an indicator status.
Sources: Federal Interagency Committee for Wetland Delineation, 1989. Environmental Laboratory, 1987. Reed, 1988.		

#### Soils

Hydric soils, defined as soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part of the soil profile, are one characteristic of wetlands (USDA Soil Conservation Service, 1987). A list of hydric soils of the United States was compiled by the Soil Conservation Service (SCS), in cooperation with the National Technical Committee for Hydric Soils (NTCHS). All soils are mapped in county soil surveys. However, the mapped boundaries of SCS soil types are not at a fine enough resolution for delineating boundaries of jurisdictional wetlands. Errors of omission can occur on SCS maps. Inclusions of upland (non-wetland) soil may exist in hydric soils and uplands may have inclusions of hydric soil. Therefore, field examination of soils is important for accurately delineating the extent of hydric soils. Hydric soils exhibit certain characteristics that can be observed in the field. Field indicators include: high organic content, accumulation of sulfidic material (rotten egg odor), greenish or bluish gray color (gley formation), iron and manganese concretions, spots or blotches of color (mottling), and/or dark soil colors (low soil chroma).

A shovel, excavating down to a depth of at least 16 inches, was used to sample soil along the wetland boundary. Soil samples were checked for presence of sulfide gases; organic content was estimated visually and texturally; and soil colors were determined by using a Munsell soil color chart (Kollmorgen 1975). The Munsell soil color chart provides the standard for three attributes of color: hue, value, and chroma.

According to the 1987 manual, hydric soils are required to be inundated or saturated for seven or more consecutive days during the growing season. Soil color is examined in the horizon immediately below the A-horizon, or within 10 inches of the surface, whichever is shallower.

#### Hydrology

Wetlands, by their very name, must have water. Jurisdictional wetlands are characterized as having permanent or periodic inundation, or soil saturation for five percent or more of the growing season. Saturation occurs when the capillary fringe is within the major portion of the root zone (usually within 12 inches of the surface). Areas meeting one of these criteria are considered to have wetland hydrology.

Ponding or soil saturation for five percent or more of the growing season during the growing season is direct evidence of wetland hydrology. Bare soil and dried algae are evidence that a site was previously inundated. Oxidized rhizospheres along live root channels also indicate soil saturation for five percent or more of the growing season. At each sample plot, wetland hydrology was assumed if positive indicators were present.

# Wetland Determination

Presence or absence of wetlands was based on soil, vegetation, and hydrology data collected at sample plots. Following procedures outlined in the 1987 manual, sample plots with homogeneous vegetation were determined to be wetlands if wetland characteristics were present or judged to be normally present (barring human or unusual natural events) for all three parameters.

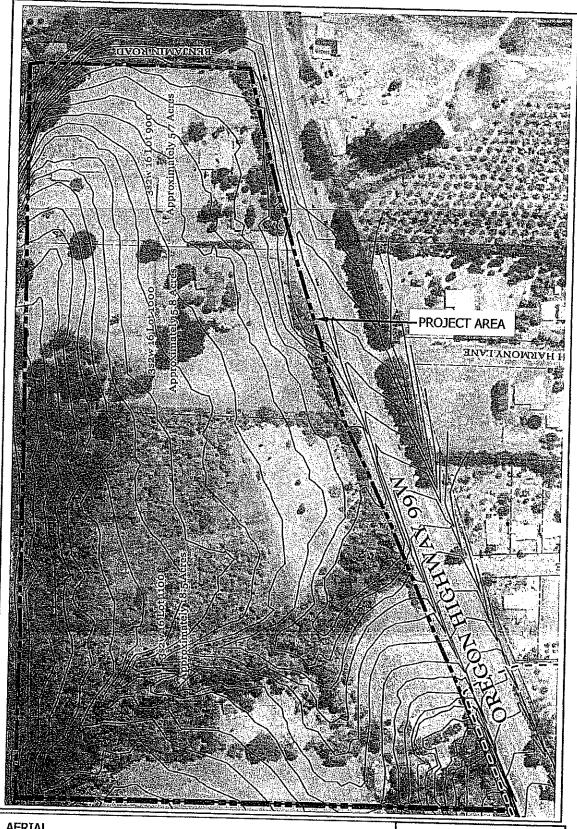
Difficulties in wetland determination can arise because of disturbance or in problem areas. Both human (e.g., clearing vegetation, agriculture, filling, and excavation) and natural (e.g., mudslides, fire, and beaver dams) events have potential for obliterating field indicators of the three wetland parameters. In disturbed sites, both field and offsite data may be used to determine the presence of a wetland. Offsite information such as historical records, aerial photographs, previous soil, and vegetation surveys may indicate the presence of a jurisdictional wetland.

Some sites are difficult to evaluate because field indicators may not be present throughout the year. Field indicators may vary because of changing environmental conditions that occur seasonally and not necessarily the result of human or natural disturbance.

According to the 1987 manual, all three parameters (hydric soils, hydrophytic vegetation, and wetland hydrology) must be present for an area to be determined as wetland. Drumlins, seasonal wetlands, prairie potholes, and vegetated flats exemplify areas that are difficult to evaluate.

# REFERENCES

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AERIAL S&A #1985

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



**Department of State Lands** 

775 Summer Street NE, Suite 100 Salem, OR 97301-1279

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State Land Board

JUL 3 1 2018

Theodore R. Kulongoski Governor

Initial:_____

Bill Bradbury Secretary of State

Re:

Wetland Delineation Report for 4505 E Portland Rd, Newberg; Yamhill

County; T 3S R 2W Sec. 16 Tax Lots 900, 1000 & 1100; WD #07-0345

Randall Edwards State Treasurer

Dear Mr. Speakman:

February 4, 2008

Tim Speakman

New B. Properties, LLC

3401 SW Huber Street Portland, OR 97219

The Department of State Lands has reviewed the wetland delineation report prepared by Schott and Associates for the site referenced above. Based upon the information presented in the report, we concur with the wetland and waterway boundaries as mapped in Wetland Map Pages 1 of 3 and 3 of 3 of the report. Within the study area, three wetlands (totaling approximately 2.24 acres) and two waterways within the mapped wetlands were identified. The wetlands and waterways are subject to the permit requirements of the state Removal-Fill Law. A state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in the wetlands or below the ordinary high water line (OHWL) of a waterway (or the 2 year recurrence interval flood elevation if OHWL cannot be determined).

This concurrence is for purposes of the state Removal-Fill Law only. Federal or local permit requirements may apply as well. The Army Corps of Engineers will review the report and make a determination of jurisdiction for purposes of the Clean Water Act at the time that a permit application is submitted. We recommend that you attach a copy of this concurrence letter to both copies of any subsequent joint permit application to speed application review.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Because measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you work with Department staff on appropriate site design before completing the city or county land use approval process.

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 and procedures for renewal of an expired determination are found in OAR 141-090-0045 (available on our web site or upon request). The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within 60 calendar days of the date of this letter.

Thank you for having the site evaluated. Please phone me at 503-986-5236 if you have any questions.

Sincerely,

Janet C. Morlan, PWS

Lanet C. Morlan

Wetlands Program Manager

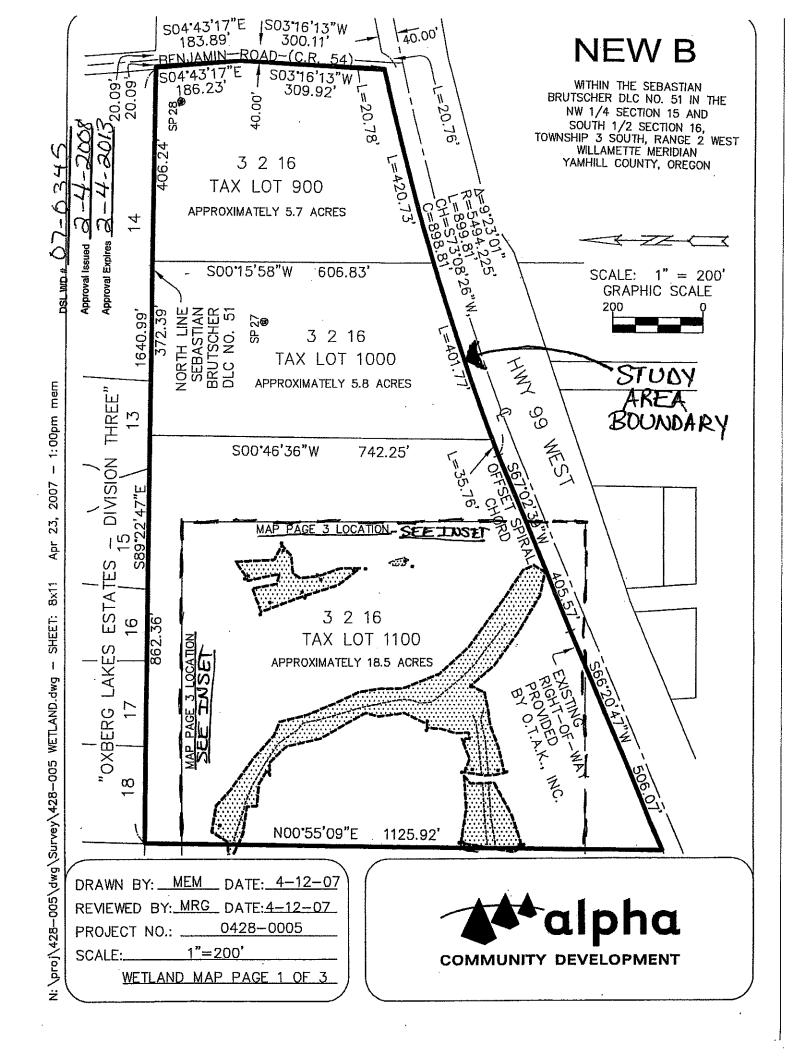
**Enclosures** 

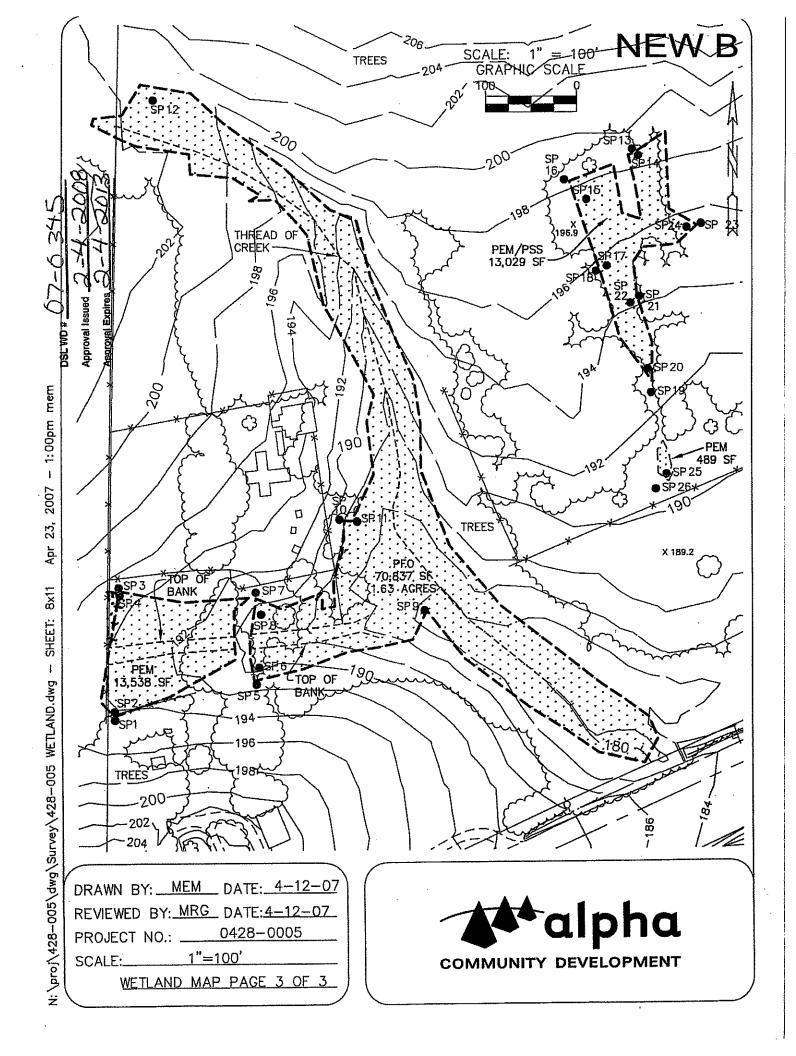
cc: Claudia Steinkoenig, Schott and Associates

City of Newberg, Planning Department

Tina Teed, Corps of Engineers

Carrie Landrum, DSL





Site Data Sheet

Project Name:

New B.

Project Number:

1985

Date of Site Visit:

February 21 & 28, 2007

Applicant:

Tim Speakman

Applicant's Address: 3401 SW Huber Street

Portland, Oregon 97219

Owner(s):

Same

Owner(s) Address:

State:

Oregon

County:

Yamhill

Site Location:

East of Victoria Way, North of 99W

USGS Quadrangle:

Newberg

Latitude/Longitude:

45°18.738'N / 122°55.870'W

Tax Map Information:3S2W Sect.16 TL 1100, 1000, 900

Watershed:

Willamette River

Adjacent Waterbody: Tributary of Spring Brook Creek

In the Floodplain:

Topography:

Gentle to moderate slopes

Site Zoning:

Agriculture/Forestry Small Holding (AF-10)

Proposed Use:

Residential/Commercial

Present/Past Use:

Rural/farmed

Surrounding Usage:

residential to the north and west/rural to the east

Determination:

2 unnamed tributaries of Spring Brook Creek, 0.32 acre PEM

wetland, 1.63 acre PFO wetland, 0.29 acre PEM/PSS

wetland

Days Since Last Rain:0

Mapping accuracy:

Alpha Community Development, PLS

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## (A) Site Description

The 30-acre project area is located on the eastern edge of Newberg in Yamhill County, Oregon (SW1/4,NE1/4 Sec. 16, T3S, R2W TL#900,1000, 1100)(Figure 1) just outside of the city limits. The southern boundary abuts city limits. The study area is west of Benjamin Road and east of Victoria Way. Hwy 99W forms the southern property boundary. The new Providence Hospital (zoned I- Institutional) is to the southwest. The three tax lots that comprise the study area are designated as Agricultural/Forestry Small Holdings (AF-10).

For the purposes of this report, the project area will be described by tax lot. Tax lot 900 is located west of Benjamin Road and north of Highway 99 West. The lot is approximately 5.7 acres and has two homes and two large barns on it. The topography has gentle to moderate slopes to the east. The majority of the property consists of horse pasture comprised of grasses and forbs that include colonial bentgrass (Agrostis stolonifera), Kentucky bluegrass (Poa pratensis), tall fescue (Festuca arundinacea) and white clover (Trifolium repens) as dominants: Ornamental species were observed around the homes.

Tax Lot 1000 is located west of tax lot 900. It is 5.8 acres and has a vet clinic and associated buildings in the center of it. The topography slopes gently to the south, southeast. Fenced pastures are located on the south and north end of the property. Dominant vegetation includes bentgrass, Kentucky bluegrass, tall fescue and orchard grass (Dactylis glomerata). Groupings of Oregon Oak (Quercus garryana) and Douglas fir (Pseudotsuga menziesii) were scattered along the northern and western property perimeter.

Tax lot 1100 is 18.5 acres and located on the west end of the study area. Topography on the west end slopes gently east to two unnamed tributaries. The mid and east section of the tax lot slopes predominantly south. There is an existing residential home on the southwest end of the property and some outbuilding north of the home. A small drainage located behind the home flows to the east and joins a larger tributary of Spring Brook Creek which flows south to the Willamette River. Three meadow communities were identified on site. The first is along the western property boundary. The second is located southeast of the residence and the third is on the south end of the tax lot. The vegetation in the meadow communities consisted of grasses and forbs that included tall fescue, Kentucky bluegrass, bentgrass, orchard grass (Dactylis glomerata), and white clover, queen Anne's lace (Daucus carota) and cat's ear (Hypochoeris radicata) as subdominants. An upland forest community was located on the northern property boundary and included Oregon oak, Douglas fir, and bigleaf maple (Acer macrophyllum).

The dominant species found in the shrub layer included Service berry (Amelanchier alnifolia), Indian plum (Oemleria cerasiformis), beaked hazelnut (Corylus cornuta) and common snowberry (Symphoricarpos albus). Sword fern (Polystichum munitum) and English ivy (Hedera helix) were the dominants in the herbaceous layer.

A forested riparian area was located adjacent to the largest tributary. The tree species in the riparian forest include Oregon ash (Fraxinus latifolia) and willow (Salix sp.) Shrub communities varied from area to area along the drainage. Portions of the shrub layer consisted of a dense layer of Himalayan blackberry interspersed with dense patches of Nookta rose (Rosa nutkana) and Douglas spiraea (Spiraea douglasii). Species identified in the herbaceous layer included slough sedge (Carex obnupta), water parsley (Oenanthe sarmentosa) and bentgrass.

The National Wetland Inventory (NWI) map for Newberg shows a tributary of Spring Brook Creek on the west end of the study area. There is no Local Wetland Inventory (LWI) for the area. The Yamhill County Soil Survey indicated two mapping units on the property that include Woodburn silt loam and Amity silt loam. The topographic map shows a site gently sloping north, northeast.

## Project purpose

The site is proposed for commercial development to service the new hospital across the street and the adjacent residential areas. The developer of the site is currently applying for annexation into the city of Newberg and rezoning designation to Community Commercial.

## (B) Wetland Description

Based on soil, hydrology and vegetation data taken on site two unnamed tributaries of Spring Brook Creek, and four wetlands were delineated. Two of the wetlands are adjacent to the tributaries. A 0.31 acres palustrine emergent/RFT wetland is located along a short portion of the smaller tributary on the west end of the property. The second wetland is 1.63 acres palustrine forested/RFT wetland adjacent to the remaining portion of the smaller tributary and the entire length of the larger tributary. The other two wetlands are isolated and located in the north mid-section of the property. The larger wetland is 0.29 acre and classified as palustrine emergent/scrub-shrub/slope wetland. The smaller one is 0.011 acres classified as a palustrine emergent/slope wetland.

A small seasonal drainage channel enters on the southwest end of tax lot 1100. It is the extension of a drainage located on the adjoining property to the west. The hydrology of the channel is associated with stormwater runoff from the neighborhood to the west. The drainage channel is u-shaped with a varying width of 2 to 3 feet and depth of approximately 3.5 feet. It has a mud and small cobble substrate bottom. The drainage flows east and drains into a larger tributary of Spring Brook Creek. Duckweed (Lemna

*minor*) was observed growing in portions of the drainage. The drainage has a defined channel for approximately 250 feet and then flattens out, draining as surface and subsurface lateral flow into the tributary of Spring Brook Creek.

A larger, unnamed perennial tributary of Spring Brook Creek enters the northwest corner of tax lot 1100 and exits the property on the south side. It flows to the south joining Spring Brook Creek on the south side of Hwy 99W. Portions of the creek are confined to a single channel while other portions of the channel are braided.

Two wetlands were identified adjacent to the two tributaries. The first is a 0.31 acre palustrine emergent (PEM/RFT) wetland. It was located on the west end of the study site where the smaller drainage entered the site. The plant community in this area is a meadow comprised of grasses and forbs. The dominant species are tall fescue and bentgrass. Hydrology for the wetland on the north and south side of the drainage is associated with precipitation, a seasonal high water table and overflow from the drainage during winter high water.

The second wetland is 1.63 acres and forested (PFO/RFT). The dominant tree in the canopy is Oregon ash (Fraxinus latifolia). The shrub layer consists of large dense patches of Douglas spirea (Spiraea douglasii) and nootka rose (Rosa nutkana). The herbaceous layer includes large patches of slough sedge (Carex obnupta) and water parsley (Oenanthe sarmentosa). Hydrology of the wetland is associated with precipitation, a seasonal high water table and overflow from the drainage during winter high water. The southern end of the drainage is fed by a perennial spring.

The other two wetlands are isolated and located in the north mid-section of the property. The larger wetland is 0.29 acres and classified as palustrine emergent/scrub-shrub/slope wetland. The dominant vegetation in the emergent portion is meadow foxtail (Alopecurus pratensis) and bentgrass (Agrostis stolonifera). The shrubs in the scrub shrub communities were nootka rose (Rosa nutkana) with scattered patches of hawthorn (Crataegus sp). The second isolated wetland is immediately below the first. It consists of a small depressional area with colonial bentgrass and meadow foxtail as the dominants.

The analysis of wetlands conducted on this site was based on published methods for implementing Section 404 of the Clean Water Act. The 1987 manual was used to satisfy the requirements of the COE on non-agricultural land. The manual requires three parameters to be examined: vegetation, soils, and hydrology. According to the 1987 manual, independent evidence of hydrophytic vegetation, hydric soils, and wetland hydrology must be present for an area to be declared a wetland. The analysis of wetlands on the project site was conducted by reviewing and analyzing existing site-specific literature and by field investigation.

## (C) Site Analysis

The three tax lots that comprise the study area are designated as Agricultural/Forestry Small Holdings (AF-10). There was no evidence of alterations to the drainages observed onsite. The hydrology associated with the smaller drainage is stormwater runoff from the neighborhood to the west.

## (D) Site Specific Methods

The Routine Onsite Determination Method (1987 manual, pp. 52-69) was used to determine the State of Oregon wetland boundaries and the Federal jurisdictional wetlands. The entire study area was walked and observed for wetland characteristics. Sample plots were dug and placed in areas determined to meet all wetland criteria. Adjacent plots were placed in the upland.

The first area investigated was located on the west end of the study site. A drainage swale located on the adjacent property to the west extended east into the study area. A delineation for the property to the west was conducted a year ago and is pending review by DSL. The area consists of a grazed meadow community with dominant grasses of bentgrass and fescue. Areas with wetland characteristics extend north and south of the drainage by approximately 30-40 feet. The source of hydrology for the wetland on the north and south side of the drainage is associated with precipitation, a seasonal high water table and overflow from the drainage during winter high water. The area had recently received days of heavy rain so that the ground water table was exceptionally high.

Along the north side of the swale the wetland boundary was determined predominantly by soil and hydrology since the vegetation in both wetland and upland were the same. On the south side of the swale the vegetation was the determining factor. The soil matrix color in the wetland varied between 10YR3/1 with redox concentrations of 10YR3/4 in sample plot 2 and 10YR3/2 with redox concentrations of 10YR3/6 in sample plot 4. Both sample plots had a depth to free water between 6 and 8 inches.

The upland area on the south side of the swale was determined by the vegetation. The topography was slightly higher and Himalayan blackberry formed a dense hedge. Some Douglas fir trees were planted in this area as well. On the north side of the swale the upland area did not have hydric soil or wetland hydrology.

Approximately 130 feet east of the property line a small berm built for vehicle access to the back barn area crosses the drainage and wetland area. The berm has been in place on the property well over fifty years. The drainage crosses the berm via a small culvert. It flows an additional 120 feet before it becomes an undefined channel and flows as broad sheet flow into the other tributary.

The wetland continues past the berm and is located adjacent to the tributaries. The plant community on the east side of the berm slowly transitions from a meadow into a forested community that joins the riparian community along the main tributary. Soils in this portion of the wetland (Sample plot, 8, 9 & 11) predominantly have a matrix value of 10YR3/2 with redox concentrations of 10YR3/6.

The upland edge was obvious by topography as well as vegetation and hydrology. The overstory transitioned from Oregon ash into Oregon oak and Douglas fir on the north end. Further south the vegetation in the upland riparian area had Oregon ash mixed with common snowberry (Symphoricarpos alba), beaked hazelnut (Corylus cornuta) and Himalayan blackberry. Upland soils observed along the tributaries included matrix colors of 10YR3/3 (sample plot 5), from 0 to 12 inches, 10YR4/2 (sample plot 7) and (10YR3/2) (sample plot 10). No redox concentration were observed within 10 inches and no evidence of wetland hydrology was observed.

The wetland identified in the middle of tax lot 1100 consists of an emergent and scrub shrub wetland. The majority of it is located in a clearing surrounded by dense thickets of English hawthorn, Himalayan blackberry and various overgrown fruit trees. The vegetation in the northern portion of the wetland consisted of scattered dense thickets of nootka rose (*Rosa nutkana*). Meadow foxtail was the dominant grass. The soil matrix color varied between 10YR3/2 and 10YR4/2 with redox concentrations that varied in color. The hydrology of the wetland was associated with overland sheet flow and a seasonal high water table. The wetland was hummocky with slight shift in topography along the upland edge.

The vegetation in the upland area was similar to the wetland vegetation. The upland area had a predominant soil color of 10YR3/2 with no redox concentrations (sample plot 13, 16, 18, 19, 23, 26) and no wetland hydrology.

## (E) Deviation

No deviations were observed. The National Wetland Inventory (NWI) map for Newberg did not show any wetlands in the project area. It did show the tributary of Spring Brook Creek on the western portion of the study area. There is no Local Wetland Inventory (LWI) for the area.

# (F) Methods of Determining Other Waters of the State

No other waters of the state were observed onsite. The top of bank was defined for the smaller tributary that flow west to east. The larger tributary had the center line mapped for the main branch of the creek, because the mid section is braided.

#### (G) Additional Info

None.

## (H) Statement of Mapping Accuracy

The wetland boundaries were flagged and the flags were surveyed by Alpha Community Development, PLS.

## (I) Date of Investigation

The site was visited on February 21 and 28, 2007.

#### (I) Weather

The weather on the day of the February 21 site visit was cold and rainy. The day before 0.67 inches of rain were recorded at the Forest Grove weather station. 2.48 inches of rain were recorded for the past two weeks.

The weather on the day of the February 28 site visit was cold interspersed with periods of hail, rain and sun. There was 0.26 inches of rain the day prior to the site visit. 3.21 inches of rain were recorded for the past two weeks. This is 52 percent of the average for the entire month. A total of 36.56 inches were recorded since October 1, 2006. This is 115 percent of the water year average.

## (K) Results and Conclusions

The National Wetland Inventory (NWI) map did not show any onsite wetlands however it did show a tributary of Spring Brook Creek on the west end of the site. There is no Local Wetland Inventory for the Newberg area. The Yamhill County Soil Survey mapped two soil series on the subject property: Amity silt loam and Woodburn silt loam 0 to 7 percent slopes and 7 to 12 percent slopes. The Amity series is somewhat poorly drained. This soil series is not listed as hydric however it does have hydric inclusions. Some of the soil observed on site matched the Amity series.

Based on soil, hydrology and vegetation data taken on site two unnamed tributaries of Spring Brook Creek, and four wetlands were delineated. The smaller drainage is seasonal, the larger has recently developed a perennial flow. Two of the wetlands are adjacent to the tributaries. A 0.31 acres palustrine emergent/RFT wetland is located along a short portion of the smaller tributary on the west end of the property. The second wetland is 1.63 acres palustrine forested/RFT wetland adjacent to the tributaries. The other two wetlands are isolated and located in the north mid-section of the property. The larger wetland is 0.29 acre and classified as palustrine emergent/scrub-shrub/slope wetland. The smaller one is 0.011 acres classified as a palustrine emergent/slope wetland.

## (L) Required Disclaimer

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

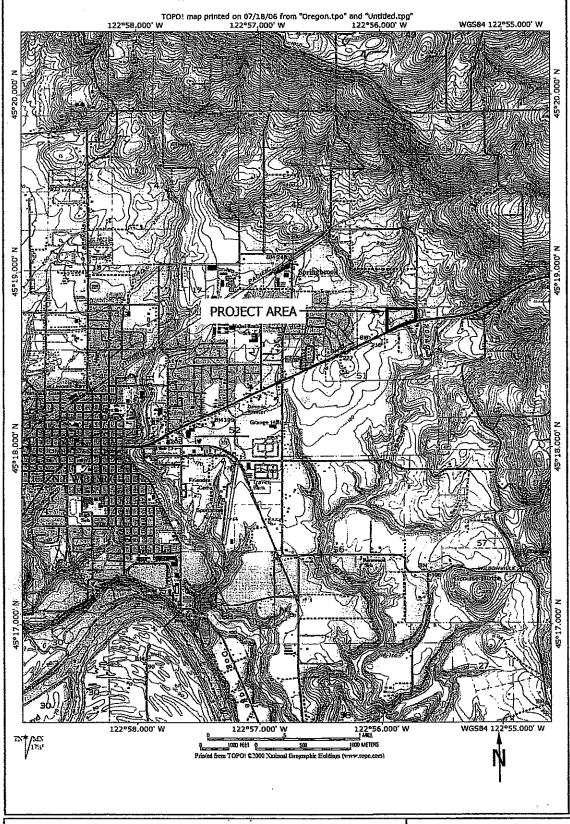


FIGURE 1. SITE VICINITY MAP S&A #1985

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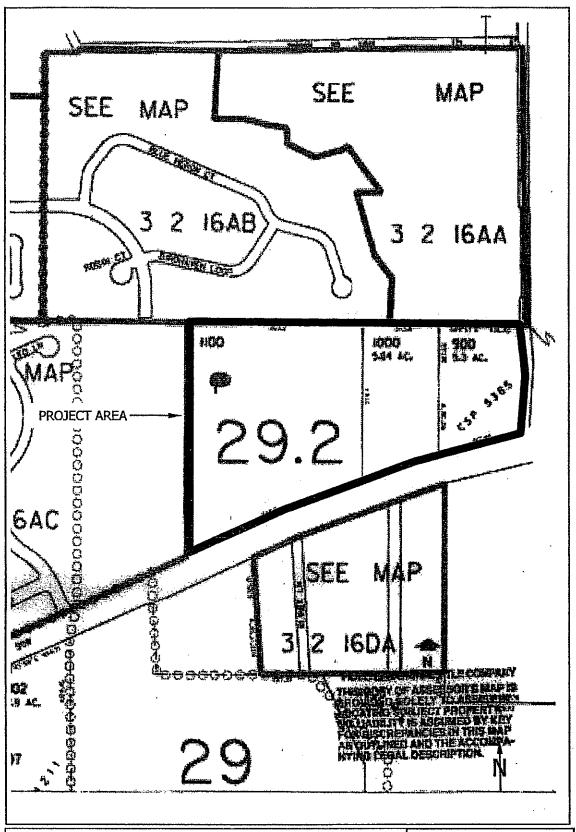


FIGURE 2. TAX MAP S&A #1985 Schott & Associates P.O. Box 589 Aurora, OR. 97002 503.678.6007

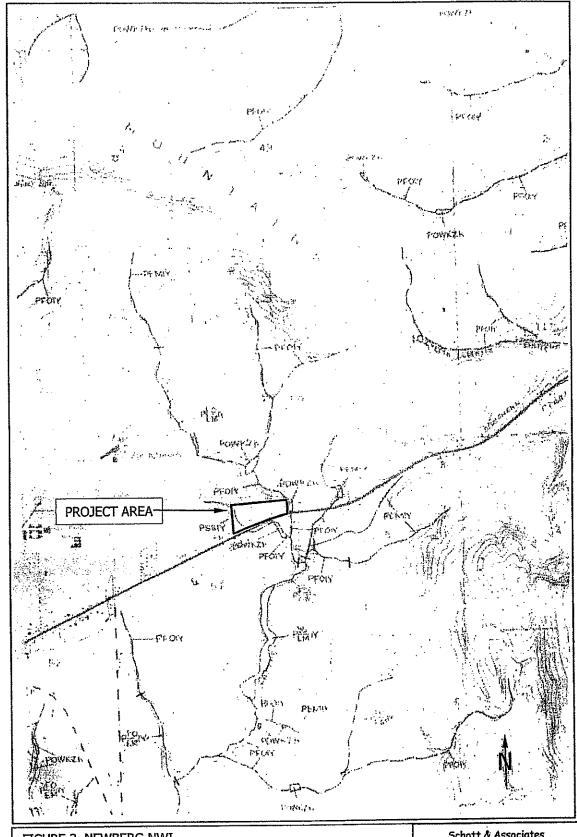
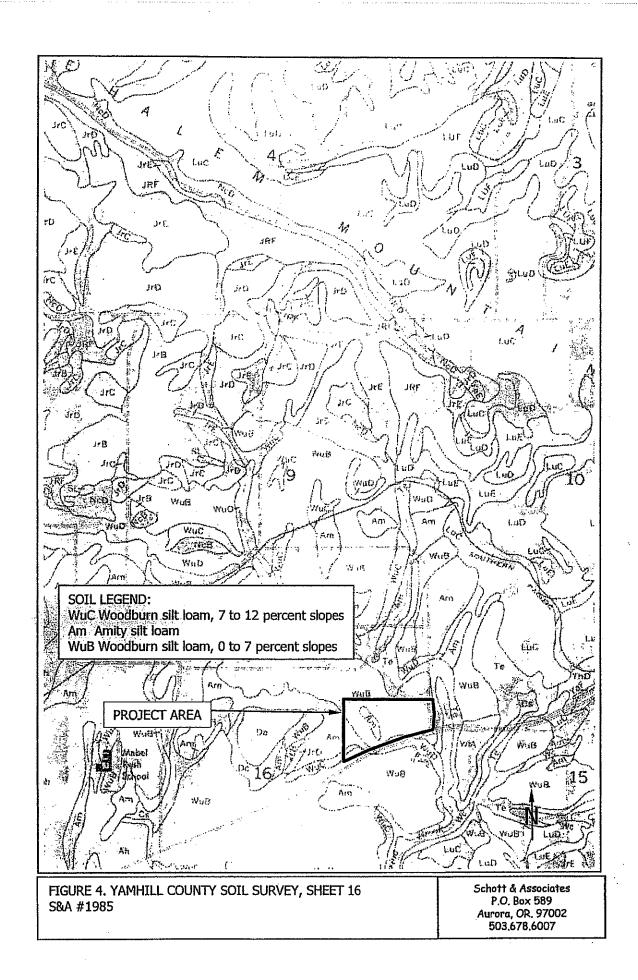


FIGURE 3. NEWBERG NWI S&A #1985

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



Data Forms

County: Yamhill	<del>,</del>	Date:	2/21	City: N	ewhere	T-100 41	Auck Meino
- O COMITACL NEWS	JCS		<del>" "</del>		411001E	File #	:1985
Plant Community: mea	adow			Plot #:1	: C. Steinkoenig		
Plot Location: south side	of swale			1 101 17.1			
Recent Weather: rainy a	ind cold						
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Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -8 -16 Iydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo	INO Comme It loam Yes No Matrix Color 10YR3/1 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig	exceeding LS That poorly Yes	drained No Redox Depletion Odules (w/in 3", > 2mi ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -8 -16 [ydric Soil Indicators: [Histosol [Histic Epipedon [Sulfidic Odor [Reducing Conditions (tests [Gleyed or low chroma colo [Redox features within 10" (INO Comme It loam Yes No Matrix Color 10YR3/1 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Or Or M Lis	exceeding LS what poorly Yes ntrations P ncretions/N gh organic c ganic streak ganic pan (in sted on Hyd eets hydric s	drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (nor	ns Te	exture CL
Ap Unit Name: Amity since the	INO Comme It loam Yes No Matrix Color 10YR3/1 10YR3/1	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Or Or M Lis	exceeding LS what poorly Yes ntrations P ncretions/N gh organic c ganic streak ganic pan (in sted on Hyd eets hydric s	drained No Redox Depletion Odules (w/in 3", > 2mi ontent in surface (in S ing (in Sandy Soils) a Sandy Soils)	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -8 -16 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (riteria Met? Yes	It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentration	ents: Hydroph Drainage Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions? Redox Conce: 10YR3/4 FFI 10YR3/4 CM Co Hig Org Org Su Su	exceeding LS Phat poorly Yes ntrations P ncretions/N gh organic c ganic streaki ganic pan (in sted on Hyd eets hydric s pplemental	drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (nor	ns Te	exture CL
Map Unit Name: Amity since the Property of the	It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentrati	ents: Hydroph Drainage (Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions? Redox Conce: 10YR3/4 FFI 10YR3/4 CM Co Hig Org Cor Su Su HYDROI	exceeding LS Phat poorly Yes Intrations P Incretions/N gh organic c ganic streak ganic pan (in sted on Hyd eets hydric s pplemental LOGY	drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (nor	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -8 -16 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests IGleyed or low chroma colo Redox features within 10" (riteria Met? Ecorded Data: Recorded Data Available	It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentration	ents: Hydroph Drainage (Has Hydri	ytic veg. not e SOI Class: Somew c Inclusions? Redox Conce: 10YR3/4 FFI 10YR3/4 CM Co Hig Org Org Su Su	exceeding LS what poorly Yes ntrations P ncretions/N gh organic c ganic streak ganic pan (in sted on Hyd eets hydric s pplemental	drained No Redox Depletion Redox Depletion odules (w/in 3", > 2m ontent in surface (in S ing (in Sandy Soils) a Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS	ns Te	exture CL es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -8 -16 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (riteria Met? Yes ecorded Data: Recorded Data Recorded Data	It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentrati	ents: Hydroph Drainage Has Hydri ions)	ytic veg. not e SOI Class: Somewood inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Org Co Hig Su Su HYDROI	exceeding LS what poorly Yes ntrations P ncretions/N gh organic c ganic streak ganic pan (in sted on Hyd eets hydric s pplemental	drained No Redox Depletion Redox Depletion odules (w/in 3", > 2m ontent in surface (in S ing (in Sandy Soils) a Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS	ns Te	exture CL es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -816 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (riteria Met? Yes ecorded Data: Recorded Data epth of inundation:	INO Committee It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentration No	otos Depth to Satura	ytic veg. not e SOI Class: Somew c Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Org Cr Su Su HYDROI Stream Gauge ation: 10"	exceeding : LS what poorly Yes [Intrations P Incretions/N Incretions/N Incretions of the contract of	drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS) Other No F	ns Te	exture CL es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -8 -16 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (riteria Met? Yes ecorded Data: Recorded Data Recorded Data	INO Committee It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentration No	ents: Hydroph Drainage (Has Hydri ions) Depth to Satura Secondary 1	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Org Cr Su Su HYDROI Stream Gauge ation: 10" Hydrology Ind	exceeding : LS what poorly Yes [Intrations P Incretions/N Incret	drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS) Other No R h to Free Water:	ns Te	exture CL es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -8 -16 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (riteria Met? Yes ecorded Data: Recorded Data pth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches	It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentrati	onts: Hydroph Drainage (Has Hydri Has Hydri Drainage (Das Hydri Donations)	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Org Cr Suj HYDROI Stream Gauge ation:10" Hydrology Ind Root Channels	exceeding : LS what poorly Yes Intrations P Incretions/N gh organic c ganic streaking ganic pan (in sted on Hydric s pplemental in LOGY Dept Dept Licators (2 o	drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS) Other No R h to Free Water:	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -8 -16 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (riteria Met? Ecorded Data: Recorded Data epth of inundation: imary Hydrology Indicator	It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentrati	ions) Depth to Satura Secondary I Oxidized I Water-stai	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Org Org Su HYDROI Stream Gauge ation:10" Hydrology Ind Root Channels ned leaves	exceeding : LS what poorly Yes Intrations P Incretions/N gh organic c ganic streaking ganic pan (in sted on Hydric s pplemental in LOGY Dept Dept Licators (2 o	drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS) Other No R h to Free Water:	ns Te	exture CL
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -816 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (riteria Met? Yes ecorded Data: Recorded Data cpth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines	It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentrati	ions) Depth to Satura Secondary I Water-stai Local Soil	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Org Co Hig Su HYDROI Stream Gauge ation:10" Hydrology Ind Root Channels ned leaves Survey Data	exceeding : LS what poorly Yes Intrations P Incretions/N gh organic c ganic streaking ganic pan (in sted on Hydric s pplemental in LOGY Dept Dept Licators (2 o	drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS) Other No R h to Free Water:	ns Te	exture CL es) d for long duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -816 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (riteria Met? Yes Recorded Data: Recorded Data pth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	It loam It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentrati	ions) Depth to Satura Secondary I Water-stai Local Soil FAC - Ne	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Org Co Hig Su HYDROI Stream Gauge ation:10" Hydrology Ind Root Channels ned leaves Survey Data	exceeding : LS what poorly Yes Intrations P Incretions/N gh organic c ganic streaking ganic pan (in sted on Hydric s pplemental in LOGY Dept Dept Licators (2 o	drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS) Other No R h to Free Water:	ns Te	exture CL es) if for long duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -816 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (riteria Met? Yes Recorded Data: Recorded Data pth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	It loam It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentrati	ions) Depth to Satura Secondary I Oxidized I Water-stai Local Soil FAC - Nei Other:	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Or Su HYDROI Stream Gauge ation: 10" Hydrology Ind Root Channels ned leaves Survey Data utral Test	exceeding : LS what poorly Yes [Intrations P Incretions/N Incretions/N Incretions treak Incretion the steed on Hydie drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS) Other No F th to Free Water: or more required):	ns Te	exture CL es) if for long duration)	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -8 -16 Lydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests IGleyed or low chroma colo Redox features within 10" (riteria Met? Ecorded Data: Recorded Data Available eld Data pth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	It loam It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentrati	ions) Depth to Satura Secondary I Oxidized I Water-stai Local Soil FAC - Nei Other:	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce 10YR3/4 FFI 10YR3/4 CM Co Hig Or Su HYDROI Stream Gauge ation: 10" Hydrology Ind Root Channels ned leaves Survey Data utral Test	exceeding : LS what poorly Yes [Intrations P Incretions/N Incretions/N Incretions treak Incretion the steed on Hydie drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS) Other No R h to Free Water:	ns Te	exture CL es) d for long duration)	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon -8 -16 Iydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" (riteria Met? Yes Ecorded Data: Recorded Data Available eld Data Epth of inundation: imary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits iteria Met? Yes	It loam Yes No Matrix Color 10YR3/1 10YR3/1 positive) rs (e.g., concentrati	Drainage (Has Hydrinage) Has Hydrinage (Has Hydrinage) Depth to Satura Secondary (Has Hydrinage) Doxidized (Has Hydrinage)	ytic veg. not e SOI Class: Somew ic Inclusions? Redox Conce: 10YR3/4 FFI 10YR3/4 CM Co Hig Org Co; Suj HYDROI Stream Gauge ation: 10" Hydrology Ind Root Channels ned leaves Survey Data utral Test ts: Recent hear	exceeding : LS what poorly Yes [Intrations P Intrations P Incretions/N Incretions/N Incretions are a considered in the constant of	drained No Redox Depletion odules (w/in 3", > 2mm ontent in surface (in S ing (in Sandy Soils) in Sandy Soils) ric Soils List (and soil soil criteria 3 or 4 (por indicator (e.g., NRCS) Other No F th to Free Water: or more required):	ns Te	exture CL es) d for long duration)

County: Yamhill	F SIAIE LA	Date: 2/2					
Project/Contact: NewB./C	25	Date: 2/2	1	City: Ne		File #:	1985
Plant Community: mead				Plot #:2	C. Steinkoenig		
Plot Location: paired with				PIOL#.Z			
Recent Weather: rainy and							
Do normal environmental		VΩ	N I	fno evolo	in.		
Has Vegetation	Soil _	لط ہ Hydrol		f no, expla	an: antly disturbed?		
Explain:	5011	Hydroi	ogy L De	en signine	andy disturbed?		
zapani,			VEGET	ATION			
,	Tree Stratum		YEGEZ	AHON	F	lerb Stratum	l
Total Plot Cover:0	0 = 50%	0 = 20%		Total Plot	Cover:100	50 = 50	
1	· · · · · · · · · · · · · · · · · · ·	Status/Ra	w % Cover				Status/Raw % Cover
1.				····	1.Agrostis stolon	ifera	FAC 25*
3.					2.Poa pratensis		FAC 10
4.		-		1 THE TOTAL PROPERTY.	3.MOSS		65
5.					4.		
Sapling/Shrub Stratum				***************************************	5.		
Total Plot Cover:	= 50%	= 20%	Status/Raw	94 Cover	7.		
1.	- 3076	- ZU78	otatus/Kaw	70 COVET	8.		
2.					9.		
3.						····	
4.					10.		
5.					11.		
Hydrophytic Vegetation	Tadiantaun.		<u> </u>		12.		
Other hydrophytic vegetation Criteria Met? Yes Map Unit Name: Amity si On Hydric Soil List?] No Comments It loam	Drainage (tic veg. exc SOI Class: Somev Inclusions	<u>(LS</u> what poorl	y drained		
Depth Range of Horizon	Matrix Color		Redox Conce		Redox Deple		Texture
0-7	10YR3/1		0YR3/4 FF				Si CL
7-16	10YR3/1	1	0YR3/4 CF	D			CL
			·····				
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes	ors	s)	□H □0 □ □ □ □	ligh organic organic strea organic pan Listed on Hy Meets hydri	Nodules (w/in 3", > content in surface (aking (in Sandy Soils) (in Sandy Soils) ydric Soils List (and c soil criteria 3 or 4 al indicator (e.g., NI	(in Sandy Soils) s) soil profile mat (ponded or floo	tches) oded for long duration)
			HYDRO	<u>DLOGY</u>			
Recorded Data:	☐Aerial Photo	s [∃Stream Gau	ige [Other 🛛	No Recorded D	ata Available
Field Data Depth of inundation: Primary Hydrology Indicated Inundated Saturated in upper 12 inch Water Marks Drift Lines	tors:	⊠Oxidized □Water-sta □Local So □FAC - N	Hydrology I Root Channe ined leaves il Survey Dat	ndicators (els (upper 1	pth to Free Water:6' 2 or more required) 2")		
☐ Sediment Deposits Criteria Met? ☐ Yes ☐] No	Other:	nts: A lot of	moss growi	ing on ground.		
WETLAND? ⊠YES □	NO Comments:	Wetland crit	DETERM eia is met.	<u>INATION</u>			

DEPARTMENT OF ST	ATE LANDS	WETLAND	DETERN	MINATION DATA	TODIA O	
	Date:	2/21	City: Nev	Where	FURM - Q	nck Method
Project/Contact: NewB./CS		2,27		C. Steinkoenig	File #:1985	
Plant Community: meadow			Plot #:3	C. Steinkoenig		
Plot Location: North side of swale	.		1 101 #.5			
Recent Weather: rainy and cold						
Do normal environmental condit	ions exist? VX	ΝП	Ifno ambi			
Has Vegetation So		· · ·	If no, explai			
Explain:		arotoPà 🗀 0	cen aiginne	antly disturbed?		
-		VECE	TATION			
Tree S	tratum	Y EGE.	IATION			
1	uacum			Herb S	Stratum	
Total Plot Cover:0 0 =	= 50% 0 =	20%	6 . 1 51 .			
		15/Raw % Cover	Total Plot	Cover:100	50 = 50%	20 = 20%
1.	- State	13/14ZW /B COVEL	J	1 / //	Str	tus/Raw % Cover
2.				1.Agrostis stolonifera 2.Festuca arundinacea		FAC 80*
3.				3.Trifolium repens		FAC- 15
4.				4.Daucus carota		FACU+ 5
5.		·		5.Geranium richardsoni		NOL trace
Sapling/Shrub Stratum				6.Hypochoeris radical		trace
	50% = 20	% Status/Rav	v % Cover	7.	<u> </u>	trace
1.			7 70 00 701	8.		
2.				9.	<u> </u>	
3.				10.		
4.				11.		
5.				12.		
Hydrophytic Vegetation Indicat	tors:					
≥ 50% of dominants are OBL, FA	ACW or FAC. Perce	nt of Dominant S	naging that a	ODI DICUIDICO	. 5.40 \ 400	
					t FAC-):100	
Criteria Met? XYes No	Comments: Hydro	phytic veg exc	eeds 50 ner	rent		
· ···		SOI		ont,		
Map Unit Name: Amity silt loam	Drainac	ge Class: Somev	what poorly	drained		
On Hydric Soil List? Yes	No Has Hy	dric Inclusions	Ves □	l No		
			. K7 100 [1110		
Depth Range of Horizon Matrix	Color	Redox Conce	entrations	Redox Depletions	Texture	
0-12 10YR	3/2	None		X COUCK D OPTOLIONS	CL L	
12-16 10YR	4/2	10YR4/4 CC	р		SI CI	
		10000	, .		31 (1	
Hydric Soil Indicators:						
Histosol		Пс	oncretions/N	odules (w/in 3", > 2mm)		
Histic Epipedon		ПH	igh organic c	ontent in surface (in Sand	v Soile)	
Sulfidic Odor			rganic streaki	ng (in Sandy Soils)	y bona)	
Reducing Conditions (tests positive	e)	<u></u> □0:	rganic pan (ir	Sandy Soils)		
Gleyed or low chroma colors		□L	isted on Hyd:	ric Soils List (and soil pro	file matches)	
Redox features within 10" (e.g., con	ncentrations)	N	Aeets hydric s	soil criteria 3 or 4 (ponded	l or flooded for lon	g duration)
Criteria Met? Yes No		□ S	upplemental	indicator (e.g., NRCS field	d indicator)	
Criteria Met? Yes No				1		
Recorded Data:		<u>HYDRO</u>	<u>LOGY</u>			
	erial Photos	По: о	-	-		
Field Data	CHAI PHOTOS	Stream Gau	ge ∐(Other 🔲 No Reco	orded Data Availab	le
Depth of inundation:	Depth to Sa	ituration.	Τ.	anth in The 197-		
Primary Hydrology Indicators:			U . C) awatana (2)	epth to Free Water: or more required):		
☐ Inundated	∏Oxidi:	zed Root Channel	s (upper 19"	n more required):		
Saturated in upper 12 inches	Water	-stained leaves	ա (ահերը 17	,		
Water Marks	Local	Soil Survey Data				
Drift Lines	□FAC-	- Neutral Test				
Sediment Deposits	Other:					
Criteria Met? Yes No	Com	ments: .			•	
				•		

DEPARTMENT (<u> OF STATE LA</u>	NDS WE	TLAND	DETER	MINATION	DATA FO)RM _ ∩	nick Mathad
Country. I mining	i i	Date: 2/	21	City: Ne	wberg	Fil	e #:1985	MICK MICERIOR
Project/Contact: NewB./	CS		····		C. Steinkoenig		0 11.1703	****
Plant Community: mean	dow			Plot #:4	.			
Plot Location: Paired with	sample plot 3							
Recent Weather: rainy ar	id cold							
Do normal environmenta				f no, expla	in:			
Has Vegetation	Soil 🗌	Hydro	ology 🔲 🛮 bo	en signific	antly disturbed?	?		
Explain:								
	Tree Stratum	n-7-1	VEGET	ATION		TY 1 CT.		ment <u>range</u>
	1100 Biratum			1		Herb Strati	um	
Total Plot Cover:0	0 = 50%	0 = 20		Total Plot	Cover:100	50=	50%	20 = 20%
1.		Status/R	aw % Cover		-		St	atus/Raw % Cover
2.	·····	 			1 Agrostis stole	nifera		FAC 80*
3.		 		***-	2.Festuca arun	dinacea		FAC- 15
4.		 			3.Moss			NI 20
5.		 	****		4.Daucus carot 5.Geranium ric			NOL trace
Sapling/Shrub Stratum			· · · · · · · · · · · · · · · · · · ·		6.	narasonu		trace
Total Plot Cover:	= 50%	= 20%	Status/Raw	0/ Cover				
1.	5070	- 2070	Status/Kaw	76 Cover	7. 8.			-
2.					9.			
3.			 		10.			ļ
4.					11.			
5.			 	· · · · · · · · · · · · · · · · · · ·	12.			
Hydrophytic Vegetation	Indicatore				1Z.			<u> </u>
	OBL. FACW or FAC	C Percent o	f Dominant &	nacios that c	TACUL	PAC (PAC	3 \ 100	
Map Unit Name: Amity si On Hydric Soil List?			SOI Class: Somey Inclusions?	vhat poorly				
Depth Range of Horizon	Matrix Color	1	Redox Conce	entratione	Redox Depl	otions	Total	Week
0-12	10YR3/2		0YR3/6 FF		Kedox Dehi	CHORS	Texture CL L	
12-18	10YR4/2		0YR4/6 CM				SI CI	
			O TICHO CIT	<u></u>			SI CI	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data	ors (e.g., concentrations No Aerial Photos	. [Hi Oi Di L N S HYDRO	igh organic rganic streat ganic streat ganic pan (isted on Hydicets hydric upplemental LOGY		(in Sandy Soi ils) d soil profile n 4 (ponded or fl RCS field indi	natches) looded for lor icator)	
Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits Criteria Met? Yes WETLAND? YES	<u>ors:</u> es	☐Oxidized ☐Water-sta ☐Local Soi ☐FAC — No ☐Other: Commer	Hydrology In Root Channel ined leaves I Survey Data cutral Test ats: .	idicators (2 is (upper 12	th to Free Water:8 or more required ")	;;):		
CATED [Comments: M	reugna Crit	ci in met.					

DEPARTMENT O	F STATE LAI							ick Method
County: Yamhill		Date: 2/2	.1	City: Nev		File	#:1985	
Project/Contact: NewB./C				•	C. Steinkoenig			
Plant Community: Scrub				Plot #:5				
Plot Location: South side o								
Recent Weather: rainy and		***						
Do normal environmental				f no, explai				
Has Vegetation	Soil	Hydrol	ogy ∐ be	en signific	antly disturbed	7		
Explain:			T TO COM					
	3 0, ,		VEGET	ATION		TT 1 CL .		
j	Tree Stratum					Herb Strati	um	
Total Plot Cover:45	22.5 = 50%	9 = 20%		Total Plot	Cover:100	50 =	50%	20 = 20%
1367			w % Cover		1 2 4		Sta	tus/Raw % Cover
1.Malus sp.		NOL 30* FACU+ 15	·*		1.Agrostis stoi 2.Festuca arui			FAC 25*
2.Crataegus monogyna 3.		PACUT 13) ''		3.Dactylis glo			FAC- 50* FACU 25*
4.			· · · · · · · · · · · · · · · · · · ·		4.	meratu		TACO 25
5.		-		* ****	5.			
Sapling/Shrub Stratum	······				6.			
	10= 50% 4=	20%	Status/Rav	v % Cover	7.			
1.Rubus discolor			FACU- 2		8.			
2.					9.			
3.		······································			10.			
4.			-		11.			
5					12.			
Hydrophytic Vegetation	Indicators:		1					
> 50% of dominants are		C Percent of	f Dominant S	Species that	are OBL, FACW	, FAC (not FA	C-):40	
Other hydrophytic vegetation			_					
Criteria Met? ∐Yes ⊠	No Comments	: Hydrophy	_		d 50%. FEAR	used as FAC	veg.	
				ILS .				
Map Unit Name: Amity si		Drainage (Class: Some	what poorly	drained			
On Hydric Soil List?	Yes 🔀 No	Has Hydri	c Inclusions	? 🔀 Yes [_] No			
Depth Range of Horizon	Matrix Color		Redox Cond	entrations	Redox De	pletions	Texture	
0-12	10YR3/3		None				CLL	
12-16	10YR3/4		. 1000				SI CI	
12.10	10110//							
Hydric Soil Indicators:				······································				
Histosol				Concretions/	Nodules (w/in 3°	'. > 2mm)		
Histic Epipedon					content in surfa		oils)	
Sulfidic Odor					king (in Sandy S			
Reducing Conditions (test				Organic pan	(in Sandy Soils)			
☐Gleyed or low chroma col		•	님	Listed on Hy	dric Soils List (and soil profile	matches)	
Redox features within 10"	(e.g., concentration	is) .	님	Meets hydri	c soil criteria 3 c al indicator (e.g.,	or 4 (ponded or NDCS field in	11000000 101 IC	ong auranon)
Critorio Mat2 Vos	⊠ No		Ц	20ppiement	a morcator (e.g.,	, INCO LEIG III	uicatoi)	
Criteria Met? [Yes	⊠ No		HVDP	OLOGY				
Recorded Data:			HILDR	<u>onog i</u>				
Recorded Data Available	Aerial Photo	os I	☐Stream Ga	uge [Other	No Recorde	ed Data Availa	able
Field Data		~ ,			_	-		
Depth of inundation:	Ε	epth to Satu	ration:		Depth to Free V			
Primary Hydrology Indicat		Secondary	Hydrology		2 or more requir	ed):		
☐Inundated			i Root Chanr	iels (upper 1	2")			
Saturated in upper 12 incl	nes	_	ained leaves	4				
Water Marks			oil Survey Da	ns.		,		
☐Drift Lines ☐Sediment Deposits		☐Other:	leutral Test					
Criteria Met? Yes	ī No		nts. Banth t	n free water	r in pit at 14 inc	hes.		
CHECKIA MEET: TITES N	7 110	Coming	ութ. ռշիւս ւ	o H DO WALC	, pie ne 17 me			
•				INATION				

County: Yamhill	OF STATE LA	NDS W	ETLAND	DETER	MINATION D	ATA FO	ORM – O	nick Method
Project/Contact: NewB.	/CS	Date: 2	/21	CILY. 14	cwoerg	Fi	le #:1985	TARREST TO SECTION
Plant Community: mea	dow			Det. By	: C. Steinkoenig			
Plot Location: Paired wit	UUW			Plot #:6				
Recent Weather: rainy a	n sample plot 5							
Do normal anxione	na cola							
Do normal environmenta			N 🔲 1	lf no, expla	ain:			
Has Vegetation	Soil 🗌	Hydro	ology 🔲 🛮 b	een signifi	cantly disturbed?			
Explain:			-		outrily distill OCU!			
			VEGET	TATION				
	Tree Stratum			7777	TT	1 0	····	
					H	erb Strat	um	
Total Plot Cover:0	= 50%		= 20%	(m) () (m)				
			aw % Cover	Total Plot	Cover:100	50 =	= 50%	20 = 20%
1.		Jiaius/N	aw 76 Cover	<u> </u>			Si	tatus/Raw % Cove
2.	***************************************			· · · · · · · · · · · · · · · · · · ·	1 Agrostis stoloni	fera		FAC 25*
3.				···	2.Festuca arundin	асеа		FAC- 50*
4.					3.Dactylis glomer	ata		FACU 25*
5.					4 . 5 .			
Sapling/Shrub Stratum					6.			
Total Plot Cover:	= 50%	= 20%	Status/Raw	0/ (7				
1.		2070	Juans/Kaw	70 COVET	7.			
2.		· · · · · · · · · · · · · · · · · · ·	 		8.			
3.			 		9.	··		
4.					10.			
5.					11.			
Hydrophytic Vegetation	Indicators		<u> </u>		12.			
> 50% of dominants are	Andicators:	_						
≥ 50% of dominants are Other hydrophytic vegetation	opp, racy of pac	Percent of	l Dominant <u>Sr</u>	oecies that a	re OBL, FACW, FA	C (not FAC	J-):66	
On Hydric Soil List?	res 🔼 No I	Has Hydric	lass: Somew Inclusions?	X Yes	□ No			
Depth Range of Horizon 0-11	Matrix Color		edox Conce		Redox Depletion	ons	Texture	
11.15	10YR4/1	1	0YR4/4 FFL)			Si CL	.
11-13	10YR3/4						SI CI	
TY. 3 I S							10.01	NII
Hydric Soil Indicators:							<u> </u>	<u>-</u>
Histosol			□C ₀	ncretions/N	odules (w/in 3", > 21	ուտ)		•
∐Histic Epipedon ☐Sulfidic Odor			L_Hig	gh organic c	content in surface (in	Sandy Soil	s)	
Reducing Conditions (tests			L.Org	ganic streak	ing (in Sandy Soils)	, 00	٠,	
Gleyed or low chroma colo	positivej		∐Orį	ganic pan (ii	n Sandy Soils)			
Redox features within 10"	(e.g. concentrations)			sted on Hyd	ric Soils List (and so	il profile m	atches)	
	(e.g., concentrations)		M⋅	eets hydric	soil criteria 3 or 4 (pe	onded or flo	onded for lon	g duration)
Criteria Met? 🛛 Yes 🛛	No		☐ 2n	pplemental	indicator (e.g., NRC	S field indi	cator)	- •
			IIVDDAY	000				
Recorded Data:			HYDROL	<u>JOGY</u>				
Recorded Data Available	Aerial Photos	Г	Stream Gauge		O45 157-3		_	
Field Data		<u> </u>	laneatt Qangi	5 <u> </u>	Other 🖾 No	Recorded :	Data Availab	le
Depth of inundation:	Dept	th to Satura	tion:	r	epth to Free Water:7	rii		
Primary Hydrology Indicato	rs: S	econdary E	lydrology Ind	licators (2 d	or more required).			
Inundated		JOXIdized R	Loot Channels	(upper 12")			
Saturated in upper 12 inche ☐Water Marks	S [Water-stair	ed leaves		•			
Drift Lines		Local Soil	Survey Data					
Sediment Deposits		FAC - Net	tral Test					
occument Deposits Priteria Met? ⊠Yes □	No.	Other:						
MIES []	וזט	Comment	s: Wetland h	ydrology ol	bserved.			•.
				1 mmu				
vetland? ⊠yes □n	O Comments: Wes	tland criter	DETERMIN. ia is met.	ATION				

DEPARTMENT OF S							
County: Yamhill		Date: 2/2	21	City: Nev		File #:	1985
Project/Contact: NewB./CS					C. Steinkoenig		
Plant Community: meadow				Plot #:7			
Plot Location: Paired w/8-N side		inage-E. of	berm				
Recent Weather: rainy and col	ď						
Do normal environmental cond				f no, explai			
	Soil	Hydrol	logy 🗌 be	en signific	antly disturbed?		
Explain:			N Zan artenati	A PER CANS			
Tree	Stratum		VEGEI	ATION	Н	erb Stratum	
			1			ao buatam	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 = 50%	
1.		Status/Ra	aw % Cover	<u> </u>	1 		Status/Raw % Cov
2.					1.Poa pratensis		FAC 75*
3.					2.Festuca arundin 3.Trifolium latifoli		FAC- 10
4.					4.Chrysanthemum		FACU+ 15 NI trace
5.					5.	DEU.	NI Bace
Sapling/Shrub Stratum					6.		
Total Plot Cover:	= 50%	= 20%	Status/Raw	≀% Cover	7.		
1.		2070	Diatus/ICAN	70 00 001	8.		
2.					9.		
3.		·······	1		10.		
4.				······································	11.		
5.			-		12.		
Hydrophytic Vegetation Indi	inatava.				12.		
		Percent o	f Dominant S	inociae that a	TE ORT FACIN FA	C (not EAC-)	100
Other hydrophytic vegetation indi	cators	1 GICCIII O	ı Dominanı <u>s</u>	pecies mar a	iic Obb, I ACW, I A	ic (not i Aç-).	100
Criteria Met? ⊠Yes ☐ No	Comments:	FEAR (F.	AC-) used a	s FAC veg.			
				ILS	•		
Map Unit Name: Amity silt loa	ım I	Orainage (Class: Some		/ drained		
On Hydric Soil List? Yes			c Inclusions				
D 4 D CYY 1 1 4							T
	trix Color		Redox Conc	entrations	Redox Depleti		Texture Si CL
	YR4/2		None	15			
12-17 . 10	YR4/2		10YR4/6 FF	P	· · · · · · · · · · · · · · · · · · ·		CL
The July Call Targle Annual							
Hydric Soil Indicators: ☐Histosol				'ananatiana/l	Nodules (w/in 3", > :	?mm)	
Histic Epipedon				John Greenic	content in surface (i	n Sandy Soils)	
Sulfidic Odor					king (in Sandy Soils		
Reducing Conditions (tests pos	itive)				(in Sandy Soils)	,	
Gleyed or low chroma colors	•				dric Soils List (and	soil profile mate	ches)
Redox features within 10" (e.g.	, concentrations))					ded for long duration)
				Supplementa	ıl indicator (e.g., NR	CS field indica	tor)
Criteria Met? 🗌 Yes 🛛 🖂	No						
			HYDRO	DLOGY			
Recorded Data:	-	,			1 A		4 4 49 1 9
	Aerial Photos	ļ	Stream Ga	uge _	Other 🔯 1	No Recorded Da	ata Available
<u>Field Data</u> Depth of inundation:	Da	nth to Catu	ration: 10	Des	oth to Free Water:12	1)	
Primary Hydrology Indicators:		pth to Satur Secondary			2 or more required):	•	
Inundated			i Root Chann				
Saturated in upper 12 inches			ained leaves	(appor 1	- ,		
Water Marks			il Survey Dat	ta			
Drift Lines			leutral Test				
Sediment Deposits	Ì	Other:			•,		
Criteria Met? ⊠Yes ☐ No	•	Comme	ents: Recent	heavy rainf:	all.		
				_			
MATERIAL AND THE STATE AND ADDRESS OF THE PARTY OF THE PA	C	t		UNATION			-h 4
WETLAND? □YES ⊠NO	comments: W	etiand soi	i criterion is	not met. Si	iddominant veg. is i	nbiano ano pis	gner topgrapny.

DEPARTMENT O	F STATE LANI	S WETLAND	DETERN	MINATION I	ATA ROI	RM - On	rick Method
County: Yamhill	ate: 2/21	City: Newberg			File #:1985		
Project/Contact: NewB./C				C. Steinkoenig	1220		
Plant Community: mead	ow		Plot #:8	-			
Plot Location:		,					
Recent Weather: rainy an	d cold						
Do normal environmental conditions exist? YN If no, explain:							
Has Vegetation Soil Hydrology been significantly disturbed?							
Explain:							
	Tree Stratum	<u>VEGET</u>	ATION				
		Herb Stratum					
Total Plot Cover:0	= 50%	= 20%	Total Plot	Cover:100	50 = 5	50%	20 = 20%
		Status/Raw % Cover					atus/Raw % Cover
1.			******	1.Poa pratensis			FAC 85*
2.				2.Rumex crispus			FAC+ 5
3.				3.Gernaium rich	ardsoni		FACU+ 10
4.				4,			
				5.			
Sapling/Shrub Stratum Total Plot Cover:	= 50%	- 000/ 01 / 12	***	6.			
1.	= 30%	= 20% Status/Raw	/ % Cover	7.			
2.				8.			
3.				9.			
4.				10.			'
5.			11.				
				12.			
Hydrophytic Vegetation Indicators: □ > 50% of dominants are OBL, FACW or FAC Percent of Dominant Species that are OBL, FACW, FAC (not FAC-):100							
Other hydrophytic vegetation indicators:							
Criteria Met? XYes							
		SO	ILS				
Map Unit Name: Amity si	lt loam Di	ainage Class: Some	what poorly	drained			
On Hydric Soil List?	Yes 🛛 No 💮 Ha	s Hydric Inclusions	? 🛛 Yes [☐ No			
Depth Range of Horizon Matrix Color		Redox Conc	Redox Concentrations		Redox Depletions Text		
0-12	10YR3/2	10YR3/6 MI		Tedex Depre	ALIONID .	Si CL	
12-17	10YR4/2	10YR4/4 FF			· · · · · ·	CL	
	101111111111111111111111111111111111111	107107777			·	<u> </u>	
Hydric Soil Indicators:	<u> </u>					<u> </u>	
∐Histosol		По	oncretions/	Nodules (w/in 3". >	> 2mm)		
☐ Histosol ☐ Concretions/Nodules (w/in 3", > 2mm) ☐ Histic Epipedon ☐ High organic content in surface (in Sandy Soils)							
Sulfidic Odor Organic streaking (in Sandy Soils)							
Reducing Conditions (tests positive)							
Gleyed or low chroma colors Listed on Hydric Soils List (and soil profile matches)							
☐ Redox features within 10" (e.g., concentrations) ☐ Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration) ☐ Supplemental indicator (e.g., NRCS field indicator)							
Criteria Met? 🛛 Yes	□No	١٠٠٠	ahhicinciira	ii maicator (c.g., 14.	KC9 Held mai	catory	
	L ***	HYDRO	LOGY				
Recorded Data:			<u> </u>				
Recorded Data Available	Aerial Photos	Stream Gau	ige _	Other	No Recorded	Data Availa	ble
Field Data							
Depth of inundation: Depth to Saturation: to Surface Depth to Free Water: I"							
Primary Hydrology Indicat		condary Hydrology I):		
☐Inundated ☐ Oxidized Root Channels (upper 12") ☐Saturated in upper 12 inches ☐ Water-stained leaves							
Water Marks							
Drift Lines							
Sediment Deposits		Other:					
Criteria Met? Yes No Comments: Recent heavy rainfall and high water table.							
			-	_			
<u>DETERMINATION</u> WETLAND? WES NO Comments: Wetland criteia met.							
WETLAND? ⊠YES □	שרונן - comments: We	uang criteia met.					

County: Yamhill		Date: 2/	21	City: Ne	wberg	File #:1985	
Project/Contact: NewB.	/CS		* ****		C. Steinkoenig	1116 #.190)
Plant Community: fore	sted			Plot #:9	C. Diolincochig		
Plot Location: SW side of	f stream			1 101 11,17			
Recent Weather: rainy a	nd cold						
Do normal environmenta	al conditions exist?	YΧ	N 🗌	f no, expla	in.		
Has Vegetation [_]	Soil 🔲				antly disturbed?)	
Explain:				oon aiginiid	anny distribed.	•	
	T. 01		VEGET	CATION			
	Tree Stratum					Herb Stratum	
Total Plot Cover:100	50 = 50%	20 = 20		Total Plot	Cover:70	35 = 50%	14 = 20%
1.Fraxinus latifolia		Status/R:	aw % Cover				Status/Raw % Cover
2.		FACW 10	U*		1.Carex obnup	la	OBL 60*
3.			···		2.0enanthe sar	mentosa	OBL 10
4.					3.		
5.			7/1		4.		
Sapling/Shrub Stratum					5. 6.	· · · · · · · · · · · · · · · · · · ·	
Total Plot Cover:55		= 20%	Status/Raw	06 Carrer			
1.Rosa nutkana			FAC 10	10 COVEL	7. 8.		
2.Crataegus monogyna			FACU+ 5		9.		
3.Spirea douglasii			FACW 40		10.		
4.		, <u>, , , , , , , , , , , , , , , , , , </u>	IACW 40	···	11.		
5.					12.	1444	
Hydrophytic Vegetation	Indicators:						
> 50% of dominants are Other hydrophytic vegetation	OBL. FACW or FAC	Percent of	f Dominant &	nonice that a	ODI TLOTO	D104 . D101 - 00	
Map Unit Name: Amity si On Hydric Soil List?		Has Hydric	lass: Somev Inclusions?	Yes [☐ No		
Depth Range of Horizon	Matrix Color	R	ledox Conce	ntrations	Redox Depl	etions Textu	
0-12	10YR3/2		0YR3/6 MF			Si CL	re
12-17	.10YR4/2	1	OYR4/4 FFI	`			WAR 12 TO 12
Hydric Soil Indicators:	i			<i>)</i>		CL	
	<u> </u>			<u> </u>			WAR 12 TO 12
	<u>- </u>					CL	W. C.
Histosol				oncretions/N	lodules (w/in 3", >	CL	W. C.
			∐Hi	oncretions/N	content in surface	CL > 2mm) (in Sandy Soils)	W. C.
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test	s positive)		∐Hi □Or	oncretions/N gh organic o ganic streak	content in surface ting (in Sandy Soi	CL > 2mm) (in Sandy Soils)	W. C.
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	ors		∐Hi □Or □Or	oncretions/N gh organic o ganic streak ganic pan (i	content in surface ting (in Sandy Soi in Sandy Soils)	CL > 2mm) (in Sandy Soils) ls)	W. C.
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	ors		∐Hi □Or □Or	oncretions/N gh organic o ganic streak ganic pan (i isted on Hyo	content in surface sing (in Sandy Soi in Sandy Soils) Iric Soils List (and	CL > 2mm) (in Sandy Soils) ls)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma cole Redox features within 10"	ors (e.g., concentrations)		∐Hi □Or □Or □ Li □ M	oncretions/N gh organic o ganic streak ganic pan (i sted on Hyo leets hydric	content in surface sing (in Sandy Soi in Sandy Soils) dric Soils List (and soil criteria 3 or 4	CL > 2mm) (in Sandy Soils) ls)	
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test. ☐Gleyed or low chroma cole ☐Redox features within 10" Criteria Met? ☐ Yes	ors		∐Hi □Or □Or □ Li □ M □ St	oncretions/N gh organic o ganic streak ganic pan (i sted on Hyo feets hydric upplemental	content in surface sing (in Sandy Soi in Sandy Soils) dric Soils List (and soil criteria 3 or 4	CL > 2mm) (in Sandy Soils) ls) d soil profile matches)	
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test. ☐Gleyed or low chroma cole ☐Redox features within 10" Criteria Met? ☐ Yes Recorded Data:	ors (e.g., concentrations) No		Hi □ Or □ Cr □ Li □ M □ St HYDRO	oncretions/N gh organic of ganic streak ganic pan (i isted on Hyd deets hydric upplemental	content in surface ting (in Sandy Soi in Sandy Soils) tric Soils List (and soil criteria 3 or 4 indicator (e.g., N	CL > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator)	long duration)
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test. ☐Gleyed or low chroma cole ☐Redox features within 10" Criteria Met? ☐ Yes Recorded Data: ☐Recorded Data Available Field Data	ors (e.g., concentrations) No Aerial Photos		∐Hi □Or □ Li □ M □ St HYDRO	oncretions/N gh organic of ganic streak ganic pan (i sted on Hyo feets hydric applemental LOGY	content in surface ting (in Sandy Soi in Sandy Soils) tric Soils List (and soil criteria 3 or 4 indicator (e.g., N	CL > 2mm) (in Sandy Soils) ls) d soil profile matches)	long duration)
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test. ☐Gleyed or low chroma cole ☐Redox features within 10" Criteria Met? ☐ Yes Recorded Data: ☐Recorded Data Available Field Data Depth of inundation:	ors (e.g., concentrations) No Aerial Photos Dep	oth to Satura	∐Hi □Or □ Li □ M □ St HYDRO] Stream Gaug tion:to Surfac	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils Sandy Soils) dric Soils List (and soil criteria 3 or 4 indicator (e.g., N	CL > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator) No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma cole Redox features within 10" Criteria Met? Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicato	ors (e.g., concentrations) No Aerial Photos Depors:	oth to Satura Secondary F	☐Hi ☐Or ☐ Li ☐ M ☐ St HYDRO] [Stream Gaug tion:to Surfac Hydrology In	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N Other	CL > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator) No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test. Gleyed or low chroma cole Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated	ors (e.g., concentrations) No Aerial Photos Deports:	oth to Satura Secondary F Oxidized F	☐Hi ☐Or ☐ Cor ☐ Li ☐ M ☐ St HYDRO	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N Other	CL > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator) No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test. Gleyed or low chroma cole Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inche	ors (e.g., concentrations) No Aerial Photos Deports:	oth to Satura Secondary I Oxidized F Water-stain	☐Hi ☐Or ☐ Cor ☐ Li ☐ M ☐ St HYDRO Stream Gaug tion:to Surfac Hydrology In Root Channel: ned leaves	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N Other	CL > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator) No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test. Gleyed or low chroma cole Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inche Water Marks □ Drift Lines	ors (e.g., concentrations) No Aerial Photos Deports:	oth to Satura Secondary I Oxidized F Water-stain	☐Hi ☐Or ☐ Cor ☐ Li ☐ M ☐ St HYDRO Stream Gaug tion:to Surfact Hydrology In Root Channel: ned leaves Survey Data	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N Other	CL > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator) No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test. Gleyed or low chroma cole Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inche Water Marks □ Drift Lines	ors (e.g., concentrations) No Aerial Photos Deports:	oth to Satura Secondary F Oxidized F Water-stain Local Soil	☐Hi ☐Or ☐ Cor ☐ Li ☐ M ☐ St HYDRO Stream Gaug tion:to Surfact Hydrology In Root Channel: ned leaves Survey Data	oncretions/Ngh organic organic streak ganic pan (i isted on Hydets hydric applemental LOGY	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N Other	CL > 2mm) (in Sandy Soils) ls) d soil profile matches) (ponded or flooded for RCS field indicator) No Recorded Data Ava	long duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma cole Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inche Water Marks □ Drift Lines Sediment Deposits	ors (e.g., concentrations) No Aerial Photos Depors:	oth to Satura Secondary I Oxidized F Water-stain Local Soil FAC — Net	☐ Hi ☐ Or ☐ Cr ☐ Li ☐ M ☐ St HYDRO Stream Gaug tion:to Surface Hydrology In Root Channels ned leaves Survey Data utral Test	oncretions/N gh organic streak ganic pan (i isted on Hyc leets hydric applemental LOGY ge ce dicators (2 s (upper 12)	content in surface ting (in Sandy Soils) in Sandy Soils) iric Soils List (and soil criteria 3 or 4 indicator (e.g., N Other Depth to Free or more required)	CL > 2mm) (in Sandy Soils) ls) d soil profile matches) d (ponded or flooded for RCS field indicator) No Recorded Data Ava Water:1"	long duration)
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Reducing Conditions (test ☐ Gleyed or low chroma cole ☑ Redox features within 10" Criteria Met? ☒ Yes Recorded Data: ☐ Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicato	ors (e.g., concentrations) No Aerial Photos Depors:	oth to Satura Secondary I Oxidized I Oxidized Soil Local Soil FAC – Net Other:	☐ Hi ☐ Or ☐ Cr ☐ Li ☐ M ☐ St HYDRO Stream Gaug tion:to Surface Hydrology In Root Channels ned leaves Survey Data utral Test	oncretions/N gh organic streak ganic pan (i isted on Hyc feets hydric applemental LOGY se dicators (2 s (upper 12'	content in surface ting (in Sandy Soils) In Sandy Soils) Iric Soils List (and soil criteria 3 or 4 indicator (e.g., N Other	CL > 2mm) (in Sandy Soils) ls) d soil profile matches) d (ponded or flooded for RCS field indicator) No Recorded Data Ava Water:1"	long duration)

DEPARTMENT O	F STA	TE LAN	IDS WE	TLAND	DETERN	MNATIO	N DATA	FORM - O	nick Method
County: Yamhill		****	Date: 2/	21	City: Nev			File #:1985	WICK TITCEROU
Project/Contact: NewB./	CS	***************************************				C. Steinkoen	ie		-
Plant Community: fores					Plot #:10		-0		
Plot Location: West side of									
Recent Weather: rainy ar									
Do normal environmenta					f no, expla				
Has Vegetation	Soil_		Hydro	logy 🔲 be	en signific	antly disturbe	ed?		
Explain:									
				VEGET	ATION				
	Tree Stra	atum					Herb St	tratum	
Total Plot Cover:30	15-	£00/	1 6 - 000	1/	m . 151 .	- 400			
Total Flot Cover.30	15=	20%	6 = 20°	aw % Cover	Total Plot	Cover:100	1.	50 = 50%	20 = 20%
1.Fraxinus latifolia		Т	FACW+3			1.Festuca ai	enndinacea		tatus/Raw % Cover FAC- 15
2.			17,011.3			2.Dactylis g		***************************************	FACU 35*
3.		* -	*****			·3.Poa pratei			FAC 40*
4.			*******		·	4.Taraxacun		* *************************************	NOL 10
5.						5.			
Sapling/Shrub Stratum						6.			
Total Plot Cover:5	2.5= 50%]=:	20%	Status/Raw	/ % Cover	7.			
1.Corylus cornuta				FACU+ 5	*	8.			
2.					•	9.			
3.						10.		***************************************	*****
4.					1	11.			
5.						12.			
Hydrophytic Vegetation	Indicato	rs:							
☐ > 50% of dominants are	OBL, FAC	W or FAC	Percent of	of Dominant S	pecies that	are OBL, FAC	W, FAC (not	FAC-):50	
Other hydrophytic vegetatio									
Criteria Met? Yes	SINO Co	omments:	Does not		-				
BALLET UST A M	· · · ·	,	n ,	<u>SO</u>					
Map Unit Name: Amity s			Drainage	Class: Some	what poorly	y drained			
On Hydric Soil List?	res Mi	NO .	Has Hydri	ic Inclusions	? 🔀 Yes [1 MO			
Depth Range of Horizon	Matrix ([¬] olor		Redox Conc	entrations	Redoy D	epletions	Texture	
0-11	10YR3/			None	Ontiditona	TCGOX D	opiotions	Si CL	,
11-17	10YR3/			None				CL	
	101107	-	+					- 1 22	
Hydric Soil Indicators:	1		<u> </u>	· · · · · · · · · · · · · · · · · · ·			·		
Histosol				Г	'oncretions/	Nodules (w/in	3" > 2mm\		
Histic Epipedon				H.	ligh organic	content in sur	face (in Sand	y Soils)	
Sulfidic Odor						king (in Sandy		,,	
Reducing Conditions (tes						(in Sandy Soil:			
Gleyed or low chroma co						dric Soils List			
Redox features within 10	" (e.g., cond	centrations)					d or flooded for	long duration)
Cuitania Mato III Van	⊠ N-				Supplementa	al indicator (e.	g., NRCS fiel	d indicator)	
Criteria Met? 🗌 Yes	⊠ No			#WDD/	NT OOV				
Recorded Data:				HYDRO	<u>JLUGY</u>				
Recorded Data Available	ΠAe	rial Photos		Stream Gar	ine F	Other	X No Rec	orded Data Avai	lahle
Field Data	F	1141 1 110103	l		-50 1	1 Onio	<u> </u>		iabio
Depth of inundation:		De	pth to Satu	ration:13"	De	epth to Free W	ater:		
Primary Hydrology Indica	tors:					2 or more requ			
Inundated			Oxidize	d Root Channe	els (upper 1	2")	•		
Saturated in upper 12 inc	hes		_	tained leaves					
☐ Water Marks				oil Survey Dat	28.				
Drift Lines				Veutral Test					
Sediment Deposits	7 N -		Other:			** ***		`.	
Criteria Met? Yes	7 1/40		Commo	ents: Recent l	ieavy rainf	all and high w	ater table.		
				ከድሞድወል	INATION				
WETLAND? TVES D	NO Co	mments: C	riteria not		ALVA LIUIY				

County: Yambill	<u>)F STATE LAN</u>	NDS WE	TLAND I	DETERI	MINATION D	ATA FORM -	Onick Method		
Journey. I dillimit	4	Date: 2/2	21	City: Ne	wberg	File #:1985	Anters Merrion		
Project/Contact: NewB./	CS	***			C. Steinkoenig	1			
Plant Community: fores	ted			Plot #:11					
Plot Location: paired with	sample plot 10								
Recent Weather: rainy an	ıd cold								
Do normal environmenta	l conditions exist?	$Y \boxtimes$	$N \square$ I	f no, expla	in:				
Has Vegetation [_]	Soil□		logy 🔲 be	en signific	antly disturbed?				
Explain:	_			. 4.1. D.D.11110	and				
			VECET	ATION					
	Tree Stratum			1111011	H	erb Stratum			
Total Plot Cover:50									
10tal Plot Cover:50	25 = 50%	10 = 20		Total Plot	Cover:100	50 = 50%	20 = 20%		
1.Fraxinus latifolia			w % Cover		···		Status/Raw % Cover		
2.		FACW+ 5	0*		1.Poa pratensis		FAC 50*		
3.					2.Rumex crispus		FAC+ 10		
4.					3.Agrostis stoloni	fera	FAC 40*		
5.					4.				
Sapling/Shrub Stratum				·	5.	1000 1020 1020 1000 1000 1000 1000 1000			
Total Plot Cover:	= 50%	- 000/	T a		6.				
1.	= 30%	= 20%	Status/Raw	% Cover	7.				
2.		······································			8.				
3.					9.				
TOUR					10.				
4.					11.				
5. Hydrophytic Vegetation					12.				
 S > 50% of dominants are Other hydrophytic vegetation Criteria Met? Yes □ Map Unit Name: Amity si On Hydric Soil List? □ 	No Comments: It loam I	Drainage C	SOI lass: Somev Inclusions?	<u>LS</u> vhat poorly	drained				
Depth Range of Horizon	Matrix Color	R	edox Conce	entrations	Redox Depleti	ions Textu	re		
0-11	10YR3/2		0YR3/6 FFI		ACCON DOPIO	Si CL	···		
11-17	10YR4/2		0YR4/6 CF			CL			
			<u> </u>						
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Reducing Conditions (test: ☐ Gleyed or low chroma colo	Hydric Soil Indicators: Histosol Histos Epipedon Sulfidic Odor Reducing Conditions (tests positive) Gleyed or low chroma colors Redox features within 10" (e.g., concentrations) Meets hydric Soil Indicator (e.g., NRCS field indicator) Concretions/Nodules (w/in 3", > 2mm) High organic content in surface (in Sandy Soils) Organic streaking (in Sandy Soils) Organic pan (in Sandy Soils) Listed on Hydric Soils List (and soil profile matches) Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)								
Daggardad Dagga			<u>HYDRO</u>	<u>LOGY</u>					
Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inche Water Marks Drift Lines Sediment Deposits Criteria Met?	ors: S ces	oth to Satura Secondary I Soxidized I Water-stai	Aydrology In Root Channel ned leaves Survey Data utral Test	Depi dicators (2 s (upper 12	th to Free Water:9" or more required):	lo Recorded Data Ava	uilable		
WETLAND? ⊠YES □	NO Comments: We	etland Crite	DETERMH eria is met.	NATION					

DEPARTMENT County: Yamhill	OF STATE L	ANDS W	ETLAND	DETER	MINATION DAT	A FORM - O	ioly Madha 2
		Date: 2	2/21	City: Ne	ewberg	File #:1985	ick Method
Project/Contact: NewB.	/CS	*			C. Steinkoenig	1 111C #.1763	
Plant Community: fore	sted			Plot #: 12			
Plot Location: NW end o	f the property				_		
Recent Weather: rainy a	nd cold						
Do normal environments	al conditions exis	t? Y⊠	N	lf no, expla	ain:		
Has Vegetation	Soil 🗌	Hydr			cantly disturbed?		
Explain:		-		<u></u>	-anny annurous.		
	Tree Stratum	·	VEGE'	<u> </u>			
	Tice Stratum				Herb	Stratum	
Total Plot Cover:95	47.5 = 50%	19 = 2		Total Plot	Cover:	= 50%	= 20%
1 5			Raw % Cover				tus/Raw % Cove
1.Fraxinus latifolia 2.		FACW+	95*		1.		us/Kaw 78 CUVE
3.					2.		
4.					3.		
5.					4.		
Sapling/Shrub Stratum		 			5.		
Total Plot Cover:10		25-0001	10:		6.		
1.Rubus discolor	3-30%	2.5= 20%	Status/Rav		7.		
2.			FACU 10	* 	8.		
3.		·			9.		
4.		· · · · · · · · · · · · · · · · · · ·	<u> </u>		10.		
5.					11.		
	7 7				12.		
Hydrophytic Vegetation	indicators:						
> 50% of dominants are Other hydrophytic vegetation	UBL, FACW or F.	AC Percent	of Dominant S	pecies that a	are OBL, FACW, FAC (no	ot FAC-):50	
Map Unit Name: Amity si On Hydric Soil List?	Yes 🛛 No	Drainage Has Hydri	SO) Class: Somevic Inclusions	vhat poorly	drained No		
Depth Range of Horizon	Matrix Color		Redox Conce	entrations	Redox Depletions	Texture	
0-18	10YR2/1					Si CL	
·							
Hydric Soil Indicators:							
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test ☐Gleyed or low chroma col ☐Redox features within 10" Criteria Met? ☐ Yes	ors	ns)	S D D D H	igh organic rganic streat rganic pan (i isted on Hyd feets hydric upplemental	Nodules (w/in 3", > 2mm) content in surface (in Sancting (in Sandy Soils) in Sandy Soils) dric Soils List (and soil presoil criteria 3 or 4 (ponder indicator (e.g., NRCS fie	offile matches)	g duration)
Recorded Data:			<u>HYDRO</u>	<u>LOGY</u>			
Recorded Data Available	Aerial Phot	os [Stream Gau	ge 🔲	Other No Rec	orded Data Availabl	e
Depth of inundation:	I	Depth to Satur	ration:3"	Dent	th to Free Water:8"		
Primary Hydrology Indicate	ors:			dicators (2	or more required):		
☐Inundated			Root Channel	s (upper 12'	")		
Saturated in upper 12 inch ☐ Water Marks	es	⊠Water-sta					
☐ Water Marks ☐ Drift Lines		LLocal Soi	il Survey Data				
Sediment Deposits		□FAC – N □Other:	cutrai lest				
Criteria Met? Yes	No		-4		·.		
KA105	, a vo	Comme	mes: ,				
WETLAND? ⊠YES □	NO Comments:	Wetland area	DETERMIN a adjacent to	<u>NATION</u> the creek. V	Wetland characteriste ar	e met,	

DEPARTMENT OF	STATE LAN	DS WE	TLAND I	DETERN	MINATION	DATA FO	RM – Ou	ick Method
County: Yamhill		Date: 2/2		City: Nev			e#:1985	TOTAL TOTAL CO.
Project/Contact: NewB./CS					C. Steinkoenig			
Plant Community: scrub-sl	rub/meadow			Plot #:13		,		
Plot Location: northeast side								
Recent Weather: cold and			—	_	_			
Do normal environmental c				f no, expla				
Has Vegetation	Soil 🗌	Hydro	logy 🗌 🛮 be	en signific	antly disturbed	17		
Explain:			Veces	TANTEON I				
Tı	ee Stratum		VEGEI	ATION		Herb Strat	um	
Total Plot Cover:	= 50%		= 20%	Total Plat	Cover:100	50	50%	20 = 20%
100001110100701	3076		aw % Cover	Join Flor	C0701,100	1 30 -		atus/Raw % Cover
1.				<u>, </u>	1.Alopecurus	pratensis		FACW 60*
2.					2.Agrostis sto			FAC 40*
3.					3.			
4.					4.			
5.					5.			
Sapling/Shrub Stratum Total Plot Cover:10 5=	500/	- 200/	I Cut II	84.0	6.			
1.Rubus discolor	= 50% 2.5=	= 20%	Status/Rav		7. 8.			
2.Rosa nutkana			FAC 5*		9.			
3.			FACS		10.			
4.		***************************************			11.			
5.					12.			
Hydrophytic Vegetation In	adicators:				1			<u> </u>
	BL, FACW or FAC	Percent o	of Dominant S	pecies that	are OBL, FACV	, FAC (not FA	C-):75	
Other hydrophytic vegetation i								
Criteria Met? XYes	No Comments:	Exceeds :						
Man I Init Name: Amite vilt	1	Dusinass (ILS	الدوستوريان			
Map Unit Name: Amity silt On Hydric Soil List?			Class: Some c Inclusions					
			O 111010010110	. E3 100				
	Matrix Color		Redox Conc	entrations	Redox De	pletions	Texture	
	10YR3/2		None			·····	Si CL	
13-18	10YR3/2		10YR3/4 FF	F			CL	
Hydric Soil Indicators:			F7/	5	NT- 4-1 6P 2	n - a		
☐Histosol ☐Histic Epipedon					Nodules (w/in 3 content in surfa		sile)	
Sulfidic Odor					king (in Sandy		1113)	
Reducing Conditions (tests	positive)			Organic pan	(in Sandy Soils)	•		
Gleyed or low chroma color					ydric Soils List (
Redox features within 10" (e.g., concentrations)			c soil criteria 3			ong duration)
C-141- 34-49 [] 37 [71 a.⊤_		Ш	Supplement	al indicator (e.g.	, NRCS neid in	dicator)	
Criteria Met? 🗌 Yes	☑ No		HVDD	אר אכי				
Recorded Data:			<u>HYDK</u>	<u>OLOGY</u>				
Recorded Data Available	Aerial Photos	;	Stream Ga	иес Г	Other	No Recorde	ed Data Avail	able
Field Data		,		-8	-			
Depth of inundation:		pth to Satu			pth to Free Wate			
Primary Hydrology Indicator					2 or more requir	red):		
☐Inundated ☐Inundated ☐Inundated in upper 12 inches			l Root Chann ained leaves	eis (upper 1	4)			
Water Marks	3		anicu icaves oil Survey Da	ta			•	
Drift Lines			Neutral Test					
Sediment Deposits		Other:						
Criteria Met? ⊠Yes ☐	No	Commo	ents: Very hi	gh water ta	ble.			
			De Arithmeter	(10k) 1 my ^ > *				
wetland? □yes ⊠i	NO Comments: N	lo hvdric e		<u>IINATION</u> pogrnahy.				
ווא מתודוה יתוניטיהוני	· Ommunities; 1,	or man in the se	oraș a toto tat tit	Late hand				

DEPARTMENT O			A AZZAL VID. J	CTO T TOTAL		DAIATO	KIYI — QU	iick Method
County: Yamhili	ŀ	Date: 2/2	8/07	City: Nev	wberg		#:1985	
Project/Contact: NewB./C					C. Steinkoenig			
Plant Community: scrub-	-shrub/meadow			Plot #:14		•		
Plot Location: paired w/sar	nple plot 13							
Recent Weather: cold and								
Do normal environmental	conditions exist?	$Y \boxtimes$	N □ I	f no, expla	in:			
Has Vegetation 🗌	Soil 🗌	Hydrol			antly disturbed	?		
Explain:				Ū	•			·
			VEGET	TATION		•		
]	Tree Stratum					Herb Strati	ım	
Total Plot Cover:0	= 50%	. =	= 20%	Total Plot	Cover:100	50 =	50%	20 = 20%
		Status/Ra	w % Cover			1		atus/Raw % Cover
1.					1 Alopecurus ;	oratensis		FACW 60*
2.					2.Agrostis stol			FAC 40*
3.	1				3.			
4.					4.			
5.	· · · · · · · · · · · · · · · · · · ·				5.			
Sapling/Shrub Stratum					6.			
	5= 50% 2.5	= 20%	Status/Rav	% Cover	7.			
1.Rubus discolor			FACU 5*		8.			
2.Rosa nutkana		***************************************	FAC 5*		9.			
3.					10.			
4.		····			11.			
5.					12.			
Hydrophytic Vegetation	Indicators:				1			
	OBL, FACW or FAC	Percent of	f Dominant S	pecies that :	are OBL. FACW	FAC (not FAC	2-1-75	
Other hydrophytic vegetation	indicators:		-	<u></u>	022, 1110 (,	,,,,	
Criteria Met? XYes	No Comments	: Exceeds f	ifty percent.					•
			SO	ULS				
Map Unit Name: Amity sil	lt loam	Drainage C	lass: Some		v drained			
On Hydric Soil List?					, armina			
	res 🖾 Mn	Has Hydric	Inclusions'					
				7 ⊠ Yes [No No		1 100	
Depth Range of Horizon	Matrix Color	F	Redox Conc	7 ⊠ Yes [entrations		oletions	Texture	
Depth Range of Horizon 0-12	Matrix Color 10YR4/2	F	Redox Conc 0YR4/6 CF	7 ⊠ Yes [entrations D	No No	oletions	Si CL	
Depth Range of Horizon	Matrix Color	F	Redox Conc	7 ⊠ Yes [entrations D	No No	letions		
Depth Range of Horizon 0-12 12-18	Matrix Color 10YR4/2	F	Redox Conc 0YR4/6 CF	7 ⊠ Yes [entrations D	No No	letions	Si CL	
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators:	Matrix Color 10YR4/2	F	Redox Conc 0YR4/6 CF 0YR4/4 FF	P ⊠ Yes [entrations D F	No Redox Dep		Si CL	
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators:	Matrix Color 10YR4/2	F	Redox Conc 0YR4/6 CF 0YR4/4 FF	P Yes [entrations D F	No Redox Dep	, > 2mm)	Si CL CL	
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon	Matrix Color 10YR4/2	F	Redox Conc 0YR4/6 CF 0YR4/4 FF	Partitions TD F Concretions/I Gigh organic	No Redox Dep Redox Dep Nodules (w/in 3" content in surface	, > 2mm) te (in Sandy So	Si CL CL	
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor	Matrix Color 10YR4/2 10YR4/2	F	Redox Conc 0YR4/6 CF 0YR4/4 FF	entrations D Concretions/I ligh organic organic strea	No Redox Dep Redox Dep Nodules (w/in 3" content in surfacking (in Sandy S	, > 2mm) te (in Sandy So	Si CL CL	
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests	Matrix Color 10YR4/2 10YR4/2	F	Redox Conc 0YR4/6 CF 0YR4/4 FF	entrations D Concretions/I ligh organic organic strea organic pan	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils)	, > 2mm) se (in Sandy So oils)	Si CL CL	
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	Matrix Color 10YR4/2 10YR4/2 s positive)	F 1 1	Redox Conc OYR4/6 CF OYR4/4 FF	entrations D Concretions/I ligh organic organic strea organic pan (Listed on Hy	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) dric Soils List (a	, > 2mm) te (in Sandy So oils) and soil profile	Si CL CL ils)	one duration)
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests	Matrix Color 10YR4/2 10YR4/2 s positive)	F 1 1	Redox Conc 0YR4/6 CF 0YR4/4 FF CC CC CC CC CC CC CC 	entrations D Concretions/I ligh organic organic strea organic pan (Listed on Hy Meets hydric	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) dric Soils List (ac soil criteria 3 o	, > 2mm) se (in Sandy So oils) and soil profile of the first the f	Si CL CL ils)	ong duration)
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10"	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations	F 1 1	Redox Conc 0YR4/6 CF 0YR4/4 FF CC CC CC CC CC CC CC 	entrations D Concretions/I ligh organic organic strea organic pan (Listed on Hy Meets hydric	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) dric Soils List (a	, > 2mm) se (in Sandy So oils) and soil profile of the first the f	Si CL CL ils)	ong duration)
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	Matrix Color 10YR4/2 10YR4/2 s positive)	F 1 1	Redox Conc OYR4/6 CF OYR4/4 FF	entrations ED Concretions/I Gigh organic organic strea organic pan (Listed on Hy Meets hydric Supplementa	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) dric Soils List (ac soil criteria 3 o	, > 2mm) se (in Sandy So oils) and soil profile of the first the f	Si CL CL ils)	ong duration)
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10"	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations	F 1 1	Redox Conc 0YR4/6 CF 0YR4/4 FF CC CC CC CC CC CC CC 	entrations ED Concretions/I Gigh organic organic strea organic pan (Listed on Hy Meets hydric Supplementa	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) dric Soils List (ac soil criteria 3 o	, > 2mm) se (in Sandy So oils) and soil profile of the first the f	Si CL CL ils)	ong duration)
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations	F 1 1	Redox Conc OYR4/6 CF OYR4/4 FF	entrations ED Concretions/I Gigh organic organic strea organic pan (Listed on Hy Meets hydric Supplementa OLOGY	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oal indicator (e.g.,	, > 2mm) se (in Sandy So oils) and soil profile of the first the f	Si CL CL ils) matches) flooded for lo	
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Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks Drift Lines	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations Aerial Photos ors:	epth to Satur Secondary Soxidized Water-sta Local Soi	Redox Conc OYR4/6 CF OYR4/4 FF CO	entrations D Concretions/I ligh organic organic strea organic pan Listed on Hy Meets hydric Supplementa DLOGY age Indicators (els (upper 1)	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oul indicator (e.g., Other Depth to Fre	, > 2mm) te (in Sandy So oils) and soil profile in 4 (ponded or in NRCS field incomments	Si CL CL ils) matches) flooded for lo	
Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests) Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	Matrix Color 10YR4/2 10YR4/2 s positive) ors (e.g., concentrations Aerial Photos ors:	s [epth to Satur Secondary Secondary Oxidized Water-stz Local Soi FAC - No	Redox Conc OYR4/6 CF OYR4/4 FF CO	entrations D F Concretions/I ligh organic organic strea organic pan Listed on Hy Meets hydric Supplementa DLOGY age ace Indicators (els (upper 1: a	No Redox Dep Nodules (w/in 3" content in surfacking (in Sandy Soils) vdric Soils List (ac soil criteria 3 oil indicator (e.g., Other Depth to Fre	, > 2mm) te (in Sandy So oils) and soil profile in 4 (ponded or in NRCS field incomments	Si CL CL ils) matches) flooded for lo	

DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM – Quick Met County: Yamhill Date: 2/28/07 City: Newberg File #:1985 Project/Contact: NewB./CS Det. By: C. Steinkoenig Plant Community: meadow Plot #:15 Plot Location: Northwest end of wetland Recent Weather: cold and wet/hail Do normal environmental conditions exist? Y⊠ N ☐ If no, explain: Has Vegetation ☐ Soil Hydrology ☐ been significantly disturbed? Explain:	
Plant Community: meadow Plot #:15 Plot Location: Northwest end of wetland Recent Weather: cold and wet/hail Do normal environmental conditions exist? YN N If no, explain: Has Vegetation Soil Hydrology been significantly disturbed?	
Plot Location: Northwest end of wetland Recent Weather: cold and wet/hail Do normal environmental conditions exist? YN N If no, explain: Has Vegetation Soil Hydrology been significantly disturbed?	
Recent Weather: cold and wet/hail Do normal environmental conditions exist? Y N I If no, explain: Has Vegetation Soil Hydrology been significantly disturbed?	
Do normal environmental conditions exist? Y N I If no, explain: Has Vegetation Soil Hydrology been significantly disturbed?	
Has Vegetation Soil Hydrology been significantly disturbed?	
Explain:	
VEGETATION	
Tree Stratum Herb Stratum	
Total Plot Cover:0 = 50% = 20% Total Plot Cover:100 50 = 50% 20 = 20%	,
Status/Raw % Cover Status/Raw %	
1. 1. Alopecurus pratensis FACW 6	
2. 2. Agrostis stolonifera FAC 40*	
3.	
4.	
5. 5.	
Sapling/Shrub Stratum 6.	
Total Plot Cover: 10	
1.Rubus discolor FACU 5* 8. 2.Rosa nutkana FAC 5* 9.	
3. 10. 11. 11.	
5.	
Hydrophytic Vegetation Indicators:	
> 50% of dominants are OBL, FACW or FAC Percent of Dominant Species that are OBL, FACW, FAC (not FAC-):75	
Other hydrophytic vegetation indicators:	
Criteria Met? Yes No Comments: Exceeds fifty percent.	
SOILS	
Map Unit Name: Amity silt loam Drainage Class: Somewhat poorly drained	
On Hydric Soil List? Yes No Has Hydric Inclusions? Yes No	
Depth Range of Horizon Matrix Color Redox Concentrations Redox Depletions Texture	
0-12 10YR4/2 10YR4/6 CFD Si CL	
12-18 10YR4/2 10YR4/4 FFF CL	
Hydric Soil Indicators:	
Histosol Concretions/Nodules (w/in 3", > 2mm)	
Histic Epipedon High organic content in surface (in Sandy Soils)	
Sulfidic Odor Organic streaking (in Sandy Soils)	
Sulfidic Odor Organic streaking (in Sandy Soils) Reducing Conditions (tests positive) Organic pan (in Sandy Soils)	
□ Sulfidic Odor □ Organic streaking (in Sandy Soils) □ Reducing Conditions (tests positive) □ Organic pan (in Sandy Soils) □ Gleyed or low chroma colors □ Listed on Hydric Soils List (and soil profile matches)	1)
Sulfidic Odor Organic streaking (in Sandy Soils) Reducing Conditions (tests positive) Organic pan (in Sandy Soils)	1)
Sulfidic Odor □ Organic streaking (in Sandy Soils) □ Reducing Conditions (tests positive) □ Organic pan (in Sandy Soils) □ Gleyed or low chroma colors □ Listed on Hydric Soils List (and soil profile matches) □ Redox features within 10" (e.g., concentrations) □ Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration)	1)
Sulfidic Odor □ Organic streaking (in Sandy Soils) □ Reducing Conditions (tests positive) □ Organic pan (in Sandy Soils) □ Gleyed or low chroma colors □ Listed on Hydric Soils List (and soil profile matches) □ Redox features within 10" (e.g., concentrations) □ Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration) □ Supplemental indicator (e.g., NRCS field indicator)	1)
Sulfidic Odor Reducing Conditions (tests positive) Gleyed or low chroma colors Redox features within 10" (e.g., concentrations) Criteria Met? Yes □ No Organic streaking (in Sandy Soils) □ Organic pan (in Sandy Soils) □ Listed on Hydric Soils List (and soil profile matches) □ Meets hydric soil criteria 3 or 4 (ponded or flooded for long duratio □ Supplemental indicator (e.g., NRCS field indicator) HYDROLOGY Recorded Data:	1)
Sulfidic Odor Reducing Conditions (tests positive) Gleyed or low chroma colors Redox features within 10" (e.g., concentrations) Criteria Met? Yes No HYDROLOGY Recorded Data: Recorded Data Available	1)
Sulfidic Odor Reducing Conditions (tests positive) Gleyed or low chroma colors Redox features within 10" (e.g., concentrations) Criteria Met? Yes No HYDROLOGY Recorded Data: Recorded Data Recorded Data Supplemental indicator (e.g., NRCS field indicator) Stream Gauge Other No Recorded Data Available Field Data	1)
Sulfidic Odor	1)
Sulfidic Odor	1)
Sulfidic Odor	1)
Sulfidic Odor Organic streaking (in Sandy Soils) Reducing Conditions (tests positive) Organic pan (in Sandy Soils) Gleyed or low chroma colors Listed on Hydric Soils List (and soil profile matches) Redox features within 10" (e.g., concentrations) Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration Supplemental indicator (e.g., NRCS field indicator) Criteria Met? Yes No HYDROLOGY Recorded Data: Recorded Data Available Aerial Photos Stream Gauge Other No Recorded Data Available Field Data Depth of inundation: Depth to Saturation:to surface Depth to Free Water:0.5" Primary Hydrology Indicators: Secondary Hydrology Indicators (2 or more required): Inundated Oxidized Root Channels (upper 12") Saturated in upper 12 inches Water-stained leaves Water Marks Local Soil Survey Data	1)
Sulfidic Odor	n)

DELANTMENT OF	STALE	JANDS W	LILAND	DETEKN	MINATION I	JAIAFUL	UVI – Qu	ick Method
County: Yamhill	- I.	Date: 2	2/28/07	City: Nev		File	#:1985	
Project/Contact: NewB./CS	3			Det. By:	C. Steinkoenig			
Plant Community: meado		b		Plot #:16	i			
Plot Location: Paired with s								
Recent Weather: cold and								
Do normal environmental				f no, expla				
Has Vegetation 🗌	Soil	Hyd	rology 🔲 🛮 b	een signific	antly disturbed?			
Explain:								
			VEGE	<u> </u>				·
Т	ree Stratum	1			I	Herb Stratu	m	•
Total Plot Cover:15	7.5 = 50%	3 = 2	20%	Total Plot	Cover:100	50 = 5	50%	20 = 20%
MARINE TO A CONTROL OF THE CONTROL O			/Raw % Cover			•	Sta	atus/Raw % Cover
1.Quercus garryana		UPL 5*			1. Alopecurus pi			FACW 40*
2.Malus sp.		NOL 5*	· · · · · · · · · · · · · · · · · · ·		2.Agrostis stolo			FAC 40*
3.					3.Dactylis glome			FACU 15
4.					4.Chrysanthemu			NOL 5
5.					5.Hypocheris ra	aicaia		FACU trace
Sapling/Shrub Stratum		1 2001	10	n - m	6.			
	7.5= 50%	3= 20%	Status/Ray		7.			
1.Rubus discolor			FACU 10		8.			
2.Crataegus sp.			FAC/FAC	CU+ 5*	9.			
3.	****				10.			
4.					11.			<u> </u>
5.					12.			
Hydrophytic Vegetation								
≥ 50% of dominants are 0		r FAC Percer	nt of Dominant	Species that	are OBL, FACW,	FAC (not FAC	-):66	
Other hydrophytic vegetation	indicators:		J. 66	Cumdomi	nanta ara unland			
Criteria Met? ⊠Yes ☐	No Comm	ients: Exceed		i. Sundomi ILS	nams are upland			
Non I Init Names Amits oil			<u>80</u>	פבעני				
	t laams	Drainaa	ra Clarer Come		u drained			
Map Unit Name: Amity sil			ge Class: Some	what poorl				
On Hydric Soil List?			ge Class: Some dric Inclusions	what poorl				
On Hydric Soil List?	es ⊠No	Has Hy		what poorl ? X Yes		etions	Texture	And a second second
On Hydric Soil List? \(\sumsymbol{\subset} \) Depth Range of Horizon		Has Hy	dric Inclusions	what poorl ? X Yes	□ No	etions	Texture Si CL	
On Hydric Soil List? \(\bigcap \) Depth Range of Horizon \(0-12 \)	res ⊠ No Matrix Colo	Has Hy	dric Inclusions Redox Con	what poorl ? X Yes	□ No	etions		
On Hydric Soil List? \(\sumsymbol{\subset} \) Depth Range of Horizon	Yes ⊠ No Matrix Colo 10YR3/2	Has Hy	Redox Cone	what poorl ? X Yes	□ No	etions	Si CL	
On Hydric Soil List? \(\bigcap \) Depth Range of Horizon \(\text{0-12} \) 12-18	Yes ⊠ No Matrix Colo 10YR3/2	Has Hy	Redox Cone	what poorl ? X Yes	□ No	etions	Si CL	
On Hydric Soil List? \[\begin{aligned} \text{Y} \\ \text{Depth Range of Horizon} \\ \text{0-12} \\ \text{12-18} \\ \text{Hydric Soil Indicators:} \end{aligned}	Yes ⊠ No Matrix Colo 10YR3/2	Has Hy	Redox Cone None None	what poorl	□ No		Si CL	
On Hydric Soil List? \(\bigcap \) Depth Range of Horizon \(\text{0-12} \) 12-18	Yes ⊠ No Matrix Colo 10YR3/2	Has Hy	Redox Cone None None	what poorl s? Yes centrations Concretions	No Redox Depl	> 2mm)	Si CL CL	
On Hydric Soil List? \[\] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes ⊠ No Matrix Colo 10YR3/2	Has Hy	Redox Cone None None	ewhat poorl s? Yes centrations Concretions High organic Organic stre	Redox Depl Redox Dipl	> 2mm) s (in Sandy Soi	Si CL CL	
On Hydric Soil List? \[\] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Matrix Color 10YR3/2 10YR4/2 s positive)	Has Hy	Redox Cone None None	centrations Concretions. High organic organic stre Organic pan	Redox Depl Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils)	> 2mm) (in Sandy Soi ils)	Si CL CL	
On Hydric Soil List? \[\] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Matrix Color 10YR3/2 10YR4/2 s positive)	Has Hy	Redox Cone None None	centrations Concretions. High organic stre Organic stre Organic pan Listed on H	No Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar	> 2mm) (in Sandy Soi ils) d soil profile r	Si CL CL	· ·
On Hydric Soil List? \[\] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Matrix Color 10YR3/2 10YR4/2 s positive)	Has Hy	Redox Cone None None	centrations Concretions. High organic stre Organic stre Organic pan Listed on H Meets hydr	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or	> 2mm) (in Sandy Soi ils) d soil profile r 4 (ponded or f	Si CL CL ls)	ong duration)
On Hydric Soil List? \[\] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr	Has Hy	Redox Cone None None	centrations Concretions. High organic stre Organic stre Organic pan Listed on H Meets hydr	No Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar	> 2mm) (in Sandy Soi ils) d soil profile r 4 (ponded or f	Si CL CL ls)	ong duration)
On Hydric Soil List? \[\] \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Matrix Color 10YR3/2 10YR4/2 s positive)	Has Hy	Redox Con None None	Concretions High organic Organic stre Organic pan Listed on H Meets hydr Supplement	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or	> 2mm) (in Sandy Soi ils) d soil profile r 4 (ponded or f	Si CL CL ls)	ong duration)
On Hydric Soil List? \[\] Yes Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10" Criteria Met? \[\] Yes	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr	Has Hy	Redox Con None None	centrations Concretions. High organic stre Organic stre Organic pan Listed on H Meets hydr	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or	> 2mm) (in Sandy Soi ils) d soil profile r 4 (ponded or f	Si CL CL ls)	ong duration)
On Hydric Soil List? \[\] Y Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma cold Redox features within 10" Criteria Met? \[\] Yes Recorded Data:	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr	Has Hy	Redox Con None None	Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., 1)	> 2mm) (in Sandy Soi ils) d soil profile r 4 (ponded or f	Si CL CL ls)	
On Hydric Soil List? \[\] Yes Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10" Criteria Met? \[\] Yes	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr	Has Hy	Redox Con None None HYDR	Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy So (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g., 1)	> 2mm) (in Sandy Soi ils) id soil profile r 4 (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[\] \\ \] Depth Range of Horizon \[0-12 \] 12-18 Hydric Soil Indicators: \[\] Histosol \[\] Histic Epipedon \[\] Sulfidic Odor \[\] Reducing Conditions (test: \[\] Gleyed or low chroma cold \[\] Redox features within 10" Criteria Met? \[\] Yes Recorded Data: \[\] Recorded Data Available \[\] Field Data \[\] Depth of inundation:	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr	Has Hyrations) Photos Depth to S	Redox Cone None None HYDR Stream Graturation:6"	Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge De	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g.,) Other	> 2mm) (in Sandy Soi ils) Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[\] \\ \] Depth Range of Horizon \[0-12 \] 12-18 Hydric Soil Indicators: \[\] Histosol \[\] Histic Epipedon \[\] Sulfidic Odor \[\] Reducing Conditions (test: \[\] Gleyed or low chroma cold \[\] Redox features within 10" Criteria Met? \[\] Yes Recorded Data: \[\] Recorded Data Available \[\] Field Data Depth of inundation: \[\] Primary Hydrology Indicat	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr	Has Hyrations) Photos Depth to S Second	Redox Cone None None HYDR Stream Graturation:6"	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g.,) Other Other opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils) Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[\] \\ \] \\ \] \\ \] Depth Range of Horizon \[\] \\ \	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr No Aerial I	Has Hydra Hydra Hydra Has Hydra Hydr	Redox Cone None None None HYDR Stream Generation:6" ary Hydrology ized Root Change	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper)	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g.,) Other Other opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils) Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[\] \] Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10" Criteria Met? \[\] Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr No Aerial I	Has Hydra Hydra Hydra Has Hydra Hydra Has Hydra Hydra Hydra Hydra Has Hydra	Redox Cone None None None HYDR Stream Graturation:6" ary Hydrology ized Root Chan- r-stained leaves	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g.,) Other Other opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils) Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[\] \\ \] \\ \] \\ \] Depth Range of Horizon \[\] \\ \	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr No Aerial I	Has Hydra Has Hydra Has Hydra Has Hydra Hydra Has Has Hydra Hydra Has Hydra Hydra Has Hydra Has Hydra Hydra Hydra Has Hydra Hydra Hydra Hydra Has Hydra Hydr	Redox Cone None None None HYDR Stream Generaturation:6" ary Hydrology ized Root Changer-stained leaves Soil Survey Denote the stained leaves Soil Survey Denote the stained leaves	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g.,) Other Other opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils) Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[\] \] Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10" Criteria Met? \[\] Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr No Aerial I	Has Hyrr ations) Photos Depth to S Second Oxidi Wate Local	Redox Cone None None None HYDR Stream Graturation:6" ary Hydrology ized Root Changer-stained leaves Soil Survey Down Neutral Test	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g.,) Other Other opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils) Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[\] \] Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10" Criteria Met? \[\] Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr No Aerial I	Has Hydra Hy	Redox Cone None None None HYDR Stream Generaturation:6" ary Hydrology ized Root Changer-stained leaves is Soil Survey Denomination:	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g.,) Other Other opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils) Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[\] \] Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10" Criteria Met? \[\] Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr No Aerial I	Has Hydra Hy	Redox Cone None None None HYDR Stream Graturation:6" ary Hydrology ized Root Changer-stained leaves Soil Survey Down Neutral Test	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g.,) Other Other opth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils) Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	
On Hydric Soil List? \[\] \] Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10" Criteria Met? \[\] Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	Matrix Color 10YR3/2 10YR4/2 s positive) ors (e.g., concentr No Aerial I	Has Hydra Hy	Redox Cone None None None HYDR Stream Generaturation:6" ary Hydrology ized Root Changer-stained leaves i Soil Survey Denomination: "" The stained leaves is so	Concretions Concretions High organic organic stre Organic pan Listed on H Meets hydr Supplement OLOGY auge Indicators nels (upper	Redox Depl /Nodules (w/in 3", c content in surface aking (in Sandy Soils) ydric Soils List (ar ic soil criteria 3 or tal indicator (e.g.,) Other Other pth to Free Water: (2 or more required	> 2mm) (in Sandy Soi ils) Id soil profile r (ponded or f NRCS field ind	Si CL CL ls)	

DEPARTMENT OF	F STATE I					DATA FORM	M – Quick Method
County: Yamhill		Date:	2/28/07	City: Nev		File #;	1985
Project/Contact: NewB./C				•	C. Steinkoeni	5	
Plant Community: meado		כ		Plot #:17			
Plot Location: west side of							
Recent Weather: cold/wet		-40 1/57	N \square	fno evole	in.		
Do normal environmental		ST? Y		if no, expla	m. antly disturbe	d?	
Has Vegetation	Soil [пу	diology [_] of	cen giginne	antry distuice	u.	,
Explain:			VEGET	TATION			
7	Tree Stratun	<u> </u>	7 13 (31)			Herb Stratum	
Total Plot Cover:	= 5	0%.	= 20%	Total Plot	Cover:100	50 = 509	% 20 = 20%
Total Flot Covas.			us/Raw % Cover				Status/Raw % Cover
1.					1. Alopecuru		FACW 30*
2.					2. Agrostis st		FAC 55*
3.					3. Juncus pat		FACW 15 trace
4.					5.	<u>ıcana</u>	LIACC
5.	****				6.		
Sapling/Shrub Stratum Total Plot Cover:15	7.5= 50%	3= 20%	Status/Des	w % Cover	7.		
1.Rosa nutkana	7.5= 50%	3-20%	FAC 15*		8.		
			172013		9.		
2.				·w··	10.		
4.					11.		
5.					12.		
Hydrophytic Vegetation	Indicators:						
	OBL, FACW	r FAC Pero	ent of Dominant	Species that	are OBL, FAC	W, FAC (not FAC-)	:100
Other hydrophytic vegetation	n indicators:						1
Criteria Met? ⊠Yes □	No Comn	nents: Mets	wetland vegeta	ition criteri	a.		
	94. 1	D	age Class: Some	<u>)ILS</u>	by drained		
Map Unit Name: Amity si On Hydric Soil List?	iit ioam Voc. ⊠ No.	Drain Uac L	age Class, Som Lydric Inclusion	s? X Yes	∏ No		
On Hydric Soil List?	ies Mino	1145 1	tyuric iliciasion	.a. <u>E</u> 100			
Depth Range of Horizon	Matrix Colo	or	Redox Con		Redox I	Depletions	Texture CL L
0-11	10YR3/2		10YR4/6 F				Si CL
11-16	10YR4/1		10YR4/6 C	FD			8) CL
Hydric Soil Indicators:				10	s/Nodules (w/in	3" > 3mm)	
Histosol			1	Concretions High organi	ic content in SII	rface (in Sandy Soils	3)
☐Histic Epipedon ☐Sulfidic Odor			<u> -</u>	Organic str	eaking (in Sand	y Soils)	•
Reducing Conditions (tes	sts positive)		Ë	Organic par	in Sandy Soil	is)	
Gleyed or low chroma co	lors			Listed on I	Ivdric Soils Lis	t (and soil profile ma	atches)
Redox features within 10	" (e.g., concent	rations)		Meets hyd	ric soil criteria	3 or 4 (ponded or flo	ooded for long duration)
			L] Supplemen	ital indicator (e.	g., NRCS field indic	cator)
Criteria Met? 🛚 Yes	No		YYYZENY	OT OCV			
			HYDI	ROLOGY			
Recorded Data:	. ∏ A nerical	Dhotos	Stream C	Sance	Other	No Recorded	Data Available
Recorded Data Available	: ∐Aerial	rnotos		ander.	_ 0		
Field Data Depth of inundation:		Depth to	Saturation:1.5"		Depth to Free		
Primary Hydrology Indica	itors:	Seco	ndary Hydrolog	y Indicators	(2 or more req	uired):	
☐Inundated			idized Root Cha		12")		
Saturated in upper 12 inc	ches		ater-stained leave				
☐ Water Marks			cal Soil Survey I AC – Neutral Test				
Drift Lines				=	_		
☐ Sediment Deposits Criteria Met? ☑ Yes [No		omments: .				
Citteria met: Mies [^ 1 V	`					·
	_			MINATIO	<u>N</u>	-	
WETLAND? ⊠YES	□NO Comn	rents: Wetl:	and criteria met.				

DEPARTMENT OF	F STATE LA	NDS WE	TLAND I	DETERN	IINATION	DATA FO	RM – Qu	ick Method
County: Yamhill		Date: 2/2	8/07	City: Nev			e#:1985	
Project/Contact: NewB./CS					C. Steinkoenig	g		
Plant Community: meado	w/scrub-shrub			Plot #:18				
Plot Location: Paired w/17								
Recent Weather: cold/wet		3 r 🔽		C				
Do normal environmental of				f no, explai		40		
Has Vegetation Evaluing	Soil	нуаго	logy 🔲 be	en signilica	antly disturbed	11		
Explain:			VECET	TATION				
Т	ree Stratum		7150131	MITO,		Herb Strat	um	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 =	= 50% Sta	20 = 20% stus/Raw % Cover
1		Status/R	aw % Cover	<u> </u>	1. Alopecuru	e neglancie	215	FACW 30*
1.					2. Agrostis sto			FAC 55*
3.					3.Juncus pate			FACW 15
4.					4. Vicia amer			trace
5.					5.			
Sapling/Shrub Stratum					6.			
	7.5= 50% 3	= 20%	Status/Ray	v % Cover	7.			
1.Rosa nutkana			FAC 15*		8.			
2.					9.			
3.					10.		·····	
4.					11.	·		
Hydrophytic Vegetation	Indiantora				1 12.			
✓ > 50% of dominants are	DBL FACW or FA	AC Percent of	of Dominant 8	Species that	are OBL, FAC	W, FAC (not FA	.C-):100	
Other hydrophytic vegetation					•	,	•	
Criteria Met? XYes	No Commen	ts: Mets wet			. .			
				<u>ILS</u>				
Map Unit Name: Amity sil			Class: Some					
On Hydric Soil List?	es 🔀 No	Has Hyon	ic Inclusions	S7 ⊠ xes				
Depth Range of Horizon	Matrix Color		Redox Cone	centrations	Redox D	epletions	Texture	
0-13	10YR3/2		None				Sl L	
13-18	10YR4/2		10YR4/6 C	FD			Si CL	
Hydric Soil Indicators:								
∐Histosol				Concretions/	Nodules (w/in	3", > 2mm)	- '7-'	
Histic Epipedon			브	High organic	content in sur	face (in Sandy S	Oils)	
Sulfidic Odor	a manitista)				aking (in Sandy (in Sandy Soils			
☐Reducing Conditions (test ☐Gleyed or low chroma cold			H	Listed on H	vdric Soils List	(and soil profile	e matches)	
Redox features within 10"	(e.g., concentration	ons)	П	Meets hydr	ic soil criteria 3	or 4 (ponded or	r flooded for l	ong duration)
	· •.	•		Supplement	tal indicator (e.į	g., NRCS field in	ndicator)	
Criteria Met? 🔲 Yes	⊠ No							
			<u>HYDR</u>	<u>OLOGY</u>				
Recorded Data:	MA Direct	t ~~	☐Stream G	е Г	Other	☑ No Record	ed Data Avail	able
☐Recorded Data Available Field Data	Aerial Pho	105		augo L	7 08101	23110110		
Depth of inundation:		Depth to Sati	uration:4"	De	epth to Free Wa	ter:4"		
Primary Hydrology Indicat		Secondar	y Hydrology		(2 or more requ	rired):		
☐ Inundated			d Root Chan		12")			
Saturated in upper 12 inch	ies		tained leaves oil Survey D					
☐Water Marks ☐Drift Lines			Neutral Test					
Sediment Deposits		Other:						
Criteria Met? ⊠Yes □] No	Comm	ients: .				•	
					•			
	7NO - 0	. Climbe - 1-10	<u>DETERI</u>	MINATION	ria sail inideata	re observed		
WETLAND? □YES ≥	NO Comments	s, ought shif	r m rohodryi	my, no nyai	te son minest	,, o odaci yeu,		

DEPARTMENT OF S	TATE LANDS	S WET	LAND I	DETER	MINATION			ick Method
County: Yamhill	Da Da	te: 2/28	3/07	City: Ne	wberg		#:1985	
Project/Contact: NewB./CS					C. Steinkoenig	5		
Plant Community: meadow/s Plot Location: South end of wes	crub-shrub			Plot #:19	•			
Recent Weather: cold/wet	lland							
	dialogo ark	71 .						
Do normal environmental con Has Vegetation				f no, expla		1_		
Explain:	Soil	Hydrolo	gy [be	en signific	antly disturbed	!?		
тэхрганг.			VEGET	ATION				
Tree	Stratum					Herb Stratu	ım	
Total Plot Cover:0	= 50%		20%	Total Plot	Cover:55	27.5	= 50%	11 = 20%
1.	S	status/Rav	v % Cover		1 + 41		Sta	atus/Raw % Cover
2.		***************************************			1. Alopecurus 2. Agrostis sto			FACW 20*
3.				***************************************	3.	<i>ionyera</i>		FAC 35*
4.				***************************************	4.			
5.					5.			
Sapling/Shrub Stratum					6.			
Total Plot Cover:60 30=	50% 6= 20%	<u>′</u>	Status/Raw	% Cover	7.			
1.Rubus discolor	3070 10 2070		FACU 45		8.			
2.Quercus garryana			UPL 5	*	9.		•	
3.Crataegus sp.			FAC/FAC	115	10.			
4.Malus sp.	· · · · · · · · · · · · · · · · · · ·		NOL 5	0.3	11.			
5.			HODJ		12.			
Hydrophytic Vegetation Ind	icatore	<u></u>			12.			L
	FACWORFAC P	ercent of	Dominant C	nacion that	ore ODI EACH	ያ ፑለር (ቱል፥ ፑለር	1.66	
Other hydrophytic vegetation indi	icators	GICCHI OI	ການແນລນະ ວັ	heries mar	arc ODL, I'AC N	, I'AC (BOLI'AC	-9.00	
Criteria Met? ⊠Yes ☐ No	Comments: Me	ets wetla	nd vegetati	ion criteria				
			SO		•			
Map Unit Name: Amity silt loa	am Dra	inage Cl	ass: Some		v drained			
On Hydric Soil List? Tyes			Inclusions'					
D-4 D	· · · · · · · · · · · · · · · · · · ·		1		1515	7 .1	l m	
	trix Color YR3/2		edox Conc	entrations	Redox De	pletions	Texture	
I	YR4/2		one				SIL	
13-16	Y R4/2	10	YR4/6 CI	עיּ			Si CL	
		l						
Hydric Soil Indicators:								
☐Histosol ☐Histic Epipedon					Nodules (w/in 3'		!t=\	
Sulfidic Odor					content in surfa		ils)	
Reducing Conditions (tests pos	ritizal				ıking (in Sandy S (in Sandy Soils)	sons)		•
Gleyed or low chroma colors	nti voj				dric Soils List (and soil profile r	natches	
Redox features within 10" (e.g.	concentrations)				c soil criteria 3 c			ng duration)
	,,				al indicator (e.g.,			
Criteria Met? 🗌 Yes 🔀	No						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
			HYDRO	LOGY				
Recorded Data:				, <u>200 x</u>				
Recorded Data Available	Acrial Photos		Stream Gau	ige [Other	No Recorded	l Data Availa	ible
Field Data		<u></u>			•			
Depth of inundation:	Depth	to Satura	tion:4"	Dej	oth to Free Wate	r;6"		•
Primary Hydrology Indicators:	Sec	ondary F	Iydrology I	ndicators (2 or more requir	ed):		
Inundated			Root Channe	els (upper 1	2")			
Saturated in upper 12 inches			ned leaves					
☐Water Marks			Survey Dat	a				
Drift Lines		AC – Nei	utral Test					•
Sediment Deposits		Other:						•
Criteria Met? Yes No	•	Comment	ts: .					
•			Thereses a	INI A TELONI				
WETLAND? □YES ⊠NO	Comments: Sligi		<u>DETERM</u> topograph		e soil inideator	observed.		
	~~	331	h Pi whi	.,,, us				

County: Yamhill		ANDS WI Date: 2/	ETLAND	DETER	MINATION	DATA FO	RM – Q	uick Method
Project/Contact: NewB.	/CS	~~~. Z/	#BI U I	LOTY: Ne	wberg	Fil-	e#:1985	
Plant Community: mea	idow/scrub-shrub				C. Steinkoenig			
Plot Location: paired w/1	19			Plot #:20	,			
Recent Weather: cold/v	wet							
Do normal environment	al conditions exist	2 V [∇]	NICT I		•			
Has Vegetation	Soil _			lf no, expla				
Explain:	30II]	Hydro	ology 🗌 be	een signific	antly disturbed?	•		
<u> </u>			VEGET	CATION				
	Tree Stratum					Herb Strati	3220	
Total Plot Cover:0					•	ricio ottati	HII)	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 =	50%	20 = 20%
1.		Status/R	aw % Cover	<u> </u>	1 + 4.		St	atus/Raw % Cover
2.	·····				1. Alopecurus p	ratensis		FACW 20*
3.		 			2.Agrostis stolo	nijera		FAC 80*
4.			·	~	4.			·
5.					5.	· · · · · · · · · · · · · · · · · · ·		
Sapling/Shrub Stratum			***	,	6.			<u> </u>
Total Plot Cover:15	7.5= 50% 3	= 20%	Status/Raw	% Cover	7.			
1.Crataegus sp.			FAC or FA		8.			
2.		11			9.			
3.					10.			
4.					11.			
5.		· · · · · · · · · · · · · · · · · · ·			12.			
Hydrophytic Vegetation	Indicators:		J					<u> </u>
> 50% of dominants are	OBL, FACW or FA	C Percent o	f Dominant Si	necies that a	re OBL. FACW. I	FAC (not EAC	·)•100	
Other hydrophytic vegetatio Criteria Met? Xes					, ,	(7.240	
Map Unit Name: Amity s On Hydric Soil List? Depth Range of Horizon	Yes No Matrix Color	Has Hydric	Class: Somew : Inclusions?	Yes [□ No		1	
0-12	10YR3/2		Redox Conce 0YR3/6 MF		Redox Deple	etions	Texture	
12-18	10YR4/2		01R3/6 MF 0YR4/6 CF			· · · · · · · · · · · · · · · · · · ·	SICL	
	10 11(4/2		UIK4/6 CF	עי			Si CL	
Hydric Soil Indicators:	1		<u> </u>					
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes	ors	s)	□Hi □Or □Or □ Li □ M □ St	gh organic of ganic streak ganic pan (i sted on Hyd deets hydric upplemental	content in surface of the content in surface of the content in surface of the content in Sandy Soils of the content in Sandy Soils List (and soil criteria 3 or 4 indicator (e.g., NI	(in Sandy Soil is) I soil profile m (ponded or flo	atches)	ng duration)
Recorded Data:			HYDRO	LOGY				
Recorded Data Available Field Data	☐Aerial Photo	s []Stream Gaug	ge 🔲	Other 🛛	No Recorded 1	Data Availat	ole
Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits Criteria Met? Yes	<u>ors:</u> es	Secondary I Oxidized) Water-stai Local Soil FAC - Ne Other:	Root Channels ned leaves Survey Data utral Test	dicators (2 s (upper 12"	Depth to Free V or more required): ') tanding water.	Vater: 1"		
Weti and Man	No. c		DETERMIN					
WETLAND? ⊠YES □	NO Comments: V	Vetland crite	ria met.					

County: Yamhill		Da	ate: 2/28/07	City: No	wberg	E	ile #:1985	inck Method
Project/Contact: NewB.	/CS	-			C. Steinkoen	<u> </u>	216 π.1763	
Plant Community: mea	idow/scrub-sl	hrub		Plot #:2		ъ		
Plot Location: east side in	f isolated wetla	and			•			
Recent Weather: cold								
Do normal environment	al conditions	exist? Y	⊠ n □	If no, expla	in.			
Has Vegetation	Soil 🗌			been signific	cantly disturbe	.do		
Explain:			,	occa nemi	ominy distance	u?		
			VEGE	ETATION				
	Tree Strat	นทา		22.22.10.1		TT 1 G:		
						Herb Stra	tum	
Total Plot Cover:0	-	= 50%	= 20%	Total Plot	Cover:55	1.05		
		S	Status/Raw % Cover	r	Cover.55	27.	5 = 50%	11 = 20%
1.				<u> </u>	1. Alopecuru			tatus/Raw % Cove
2.			······································		2.Agrostis sto	s praiensis		FACW 20*
3.			·····		3.Festuca ari	minacea	· · · · · · · · · · · · · · · · · · ·	FAC 60*
4.				*****	4.	·······································		FAC- 20*
5.					5.			
Sapling/Shrub Stratum				*****	6.			
Total Plot Cover:50	25= 50%	10= 20	% Status/Ra	w % Cover	7.			
1.Rubus discolor			FACU 5		8.			
2.				<u> </u>				
3.					9.	·		
4.					10.			
5.					11.			
Hydrophytic Vegetation	Indicators				12.			
	ODI EXCUIS.	E40 P						
Map Unit Name: Amity si	ilt loam	Drai	inage Class: Some	tion criteria. <u>OILS</u> what poorly	drained			
Map Unit Name: Amity si On Hydric Soil List?	ilt loam	Drai	SC	tion criteria. <u>OILS</u> what poorly	drained		·	
Map Unit Name: Amity si On Hydric Soil List?	ilt loam Yes ⊠ No Matrix Col	Drai Has	SC inage Class: Some	tion criteria. OILS what poorly Yes [drained No			
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13	ilt loam Yes 🔯 No Matrix Col 10YR3/2	Drai Has	nage Class: Some	tion criteria. OILS what poorly Yes [drained		Texture	
Map Unit Name: Amity so On Hydric Soil List? Depth Range of Horizon 0-13	ilt loam Yes ⊠ No Matrix Col	Drai Has	nage Class: Some	tion criteria. DILS what poorly s? Yes [centrations	drained No		Texture Sl CL	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18	ilt loam Yes 🔯 No Matrix Col 10YR3/2	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None	tion criteria. DILS what poorly s? Yes [centrations	drained No		Texture	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators:	ilt loam Yes 🔯 No Matrix Col 10YR3/2	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None	tion criteria. DILS what poorly s? Yes [centrations	drained No		Texture Sl CL	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosoi	ilt loam Yes 🔯 No Matrix Col 10YR3/2	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly ? Yes [centrations FD	drained No Redox De	pletions	Texture Sl CL	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon	ilt loam Yes 🔯 No Matrix Col 10YR3/2	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes [centrations FD Concretions/N High organic	drained No Redox De	pletions 2, > 2mm) 3ce (in Sandy So	Texture Sl CL Si CL	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes [centrations FD Concretions/N High organic organic streak	drained No Redox De Redox De Jodules (w/in 3' content in surfacting (in Sandy S	pletions 2, > 2mm) 3ce (in Sandy So	Texture Sl CL Si CL	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes [centrations FD Concretions/N High organic streat Organic pan (i	drained No Redox De Noulles (w/in 3' content in surfacting (in Sandy Soils)	pletions 2, > 2mm) ce (in Sandy So	Texture Sl CL Si CL	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes [Centrations FD Concretions/N High organic streat Organic streat Organic pan (i Listed on Hyo	drained No Redox De Noules (w/in 3' content in surfacting (in Sandy Soils) dric Soils List (a	pletions 2, > 2mm) ce (in Sandy So foils) and soil profile	Texture Sl CL Si CL ils)	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes [Centrations FD Concretions/N High organic streat Organic streat Organic pan (i Listed on Hyd Meets hydric	drained No Redox De Noulles (w/in 3' content in surfacting (in Sandy Soils) dric Soils List (a soil criteria 3 o	pletions 2, > 2mm) the (in Sandy Soloils) and soil profile or 4 (ponded or	Texture Sl CL Si CL ils) matches)	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10"	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes [Centrations FD Concretions/N High organic streat Organic streat Organic pan (i Listed on Hyd Meets hydric	drained No Redox De Noules (w/in 3' content in surfacting (in Sandy Soils) dric Soils List (a	pletions 2, > 2mm) the (in Sandy Soloils) and soil profile or 4 (ponded or	Texture Sl CL Si CL ils) matches)	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10"	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes Centrations FD Concretions/N High organic streak Organic streak Organic pan (i Listed on Hyd Meets hydric Supplemental	drained No Redox De Noulles (w/in 3' content in surfacting (in Sandy Soils) dric Soils List (a soil criteria 3 o	pletions 2, > 2mm) the (in Sandy Soloils) and soil profile or 4 (ponded or	Texture Sl CL Si CL ils) matches)	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data:	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes [Centrations FD Concretions/N High organic streat Organic streat Organic pan (i Listed on Hyd Meets hydric	drained No Redox De Noulles (w/in 3' content in surfacting (in Sandy Soils) dric Soils List (a soil criteria 3 o	pletions 2, > 2mm) the (in Sandy Soloils) and soil profile or 4 (ponded or	Texture Sl CL Si CL ils) matches)	
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent	Drai Has or	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes Centrations FD Concretions/N-ligh organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental	Redox De Re	pletions 7, > 2mm) the (in Sandy Soloils) and soil profile of the	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Field Data	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent	Drai Has or	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes Centrations FD Concretions/N-ligh organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental	Redox De Re	pletions 2, > 2mm) the (in Sandy Soloils) and soil profile or 4 (ponded or	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Depth of inundation:	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent No	Drai Has	inage Class: Some Hydric Inclusions Redox Cone None 10YR4/6 F	tion criteria. DILS what poorly Yes Centrations FD Concretions/N-ligh organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental DLOGY uge	Redox De Re	pletions 7, > 2mm) the (in Sandy Soloils) and soil profile or 4 (ponded or 1) NRCS field income.	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent No	Drai Has or rations) Photos Depth to Seco	inage Class: Some Hydric Inclusions Redox Cond None 10YR4/6 F	tion criteria. DILS what poorly ? Yes [centrations FD Concretions/N High organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental DLOGY Indicators (2	V drained No Redox De	pletions 7, > 2mm) ce (in Sandy So foils) and soil profile r 4 (ponded or i NRCS field inc X No Recorded	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent No Aerial	Drai Has or rations) Photos Depth to Seco	inage Class: Some Hydric Inclusions Redox Cond None 10YR4/6 F	tion criteria. DILS what poorly ? Yes [centrations FD Concretions/N High organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental DLOGY Indicators (2	V drained No Redox De	pletions 7, > 2mm) ce (in Sandy So foils) and soil profile r 4 (ponded or i NRCS field inc X No Recorded	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent No Aerial	Drai Has or rations) Photos Depth to Seco	inage Class: Some Hydric Inclusions Redox Cond None 10YR4/6 F	tion criteria. DILS what poorly ? Yes [centrations FD Concretions/N High organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental DLOGY uge [Indicators (2 els (upper 12)	V drained No Redox De	pletions 7, > 2mm) ce (in Sandy So foils) and soil profile r 4 (ponded or i NRCS field inc X No Recorded	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Junudated Saturated in upper 12 inch Water Marks	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent No Aerial	Drai Has Or Trations) Photos Depth to Seco Ox Ux	inage Class: Some Hydric Inclusions Redox Cond None 10YR4/6 F	tion criteria. DILS what poorly ? Yes [centrations FD Concretions/N High organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental DLOGY uge [Indicators (2 els (upper 12)	V drained No Redox De	pletions 7, > 2mm) ce (in Sandy So foils) and soil profile r 4 (ponded or i NRCS field inc X No Recorded	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks Drift Lines	ilt loam Yes No No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent No Aerial	Drai Has Or Photos Depth to Seco Ox Lo FA	inage Class: Some Hydric Inclusions Redox Cond None 10YR4/6 F Cond Cond	tion criteria. DILS what poorly ? Yes [centrations FD Concretions/N High organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental DLOGY uge [Indicators (2 els (upper 12)	V drained No Redox De	pletions 7, > 2mm) ce (in Sandy So foils) and soil profile r 4 (ponded or i NRCS field inc X No Recorded	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	ilt loam Yes No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent No Aerial	Drai Has Or Photos Depth to Seco Ox Drai Has	inage Class: Some Hydric Inclusions Redox Cond None 10YR4/6 F Cond Cond	tion criteria. DILS what poorly ? Yes [centrations FD Concretions/N High organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental DLOGY uge [Indicators (2 els (upper 12)	V drained No Redox De	pletions 7, > 2mm) ce (in Sandy So foils) and soil profile r 4 (ponded or i NRCS field inc X No Recorded	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	ilt loam Yes No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent No Aerial	Drai Has Or Photos Depth to Seco Ox Drai Has	inage Class: Some Hydric Inclusions Redox Cond None 10YR4/6 F Cond Cond	tion criteria. DILS what poorly ? Yes [centrations FD Concretions/N High organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental DLOGY uge [Indicators (2 els (upper 12)	V drained No Redox De	pletions 7, > 2mm) ce (in Sandy So foils) and soil profile r 4 (ponded or i NRCS field inc X No Recorded	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)
Map Unit Name: Amity si On Hydric Soil List? Depth Range of Horizon 0-13 13-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate	ilt loam Yes No Matrix Col 10YR3/2 10YR4/2 s positive) ors (e.g., concent No Aerial	Drai Has Or Photos Depth to Seco Ox Drai Has	inage Class: Some Hydric Inclusions Redox Cond None 10YR4/6 F Cond Cond	tion criteria. DILS what poorly Yes Centrations FD Concretions/N- High organic streak Organic streak Organic pan (i Listed on Hyo Meets hydric Supplemental DLOGY uge Indicators (2 els (upper 12*)	V drained No Redox De	pletions 7, > 2mm) ce (in Sandy So foils) and soil profile r 4 (ponded or i NRCS field inc X No Recorded	Texture Sl CL Si CL ils) ils) matches) flooded for lo	ong duration)

DEPARTMENT (County: Yamhill		NDS WETLAN Date: 2/28/07	D DETER City: Ne	MINATION DA	ATA FORM	- Quick Method
Project/Contact: NewB.	'CS	Dato. 2/20/01			File #:19	85
Plant Community: mea	dow/scrub-shrub		Plot #:2:	C. Steinkoenig		
Plot Location: Paired w/	Sample plot 21		F101 #:2.	Z		
Recent Weather: cold/w	ret					
Do normal environmenta	d conditions exist?	Y⊠ N□	7.C 1			
Has Vegetation	Soil		If no, expla	lin;		
Explain:	2011	Hydrology 🗍	been signific	cantly disturbed?		
		VEC	ETATION			
	Tree Stratum		ZIMITON.	He	rb Stratum	
Total Plot Cover:0					o Sudidin	
Total Tiol Covol.0	= 50%	= 20% Status/Raw % Cov	Total Plot	Cover:100	50 = 50%	20 = 20%
1.				1. Alopecurus prat		Status/Raw % Cove
2.				2. Agrostis stolonife		FACW 50*
3.				3.Moss	ii u	FAC 45*
4.				4.		5
5.				5.		
Sapling/Shrub Stratum				6.		
Total Plot Cover:5	2.5= 50% I=	20% Status/I	Raw % Cover	7.		
1.Rubus discolor		FACU		8.		
2.				9.	4	
3.				10.		
4.				11.		
5.						
Hydrophytic Vegetation	Indicators	<u> </u>		12.		
☑ > 50% of dominants are	OBL. FACW or FAC	Percent of Dominer	et Conneine that	ODI ELOVI DA		
Other hydrophytic vegetation	indicators	Leacent of Dominar	it <u>Species</u> that a	are OBL, FACW, FA	C (not FAC-):100	
Criteria Met? ∑Yes ☐	No Commente	Vegetation oritorie	i	,		
Map Unit Name: Amity si On Hydric Soil List?		Drainage Class: Sor Has Hydric Inclusio	ns? Yes [□ No		
0-12	10YR3/2	10YR3/6		Redox Depletio		
12-18	10YR4/2	10YR4/6			SIL	
	1011(1)2	101K4/0	MLD		Si C	<u>L</u>
Hydric Soil Indicators:						
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test ☐Gleyed or low chroma cole ☐Redox features within 10" Criteria Met? ☐ Yes	ors	 - - - - - -]High organic]Organic streal]Organic pan (] Listed on Hyd] Meets hydric	Nodules (w/in 3", > 2n content in surface (in king (in Sandy Soils) in Sandy Soils) dric Soils List (and so soil criteria 3 or 4 (put l indicator (e.g., NRC)	Sandy Soils) il profile matches) onded or flooded f	or long duration)
Recorded Data:		<u>HYD1</u>	ROLOGY			
Recorded Data Available Field Data	Aerial Photos	☐Stream C	Bauge 🔲	Other No	Recorded Data A	vailable
Depth of inundation: Primary Hydrology Indicate	Dep	oth to Saturation:Satur	ated to the surf	face Dept	h to Free Water:	
☐ Inundated Saturated in upper 12 inch Water Marks ☐ Drift Lines ☐ Sediment Deposits Criteria Met? ☑ Yes ☐	es C	Secondary Hydrolog Oxidized Root Char Water-stained leave Local Soil Survey D FAC – Neutral Test Other:	inels (upper 12) s	or more required):		
WETLAND? ⊠YES □	NO Comments: All	<u>DETER</u> wetland criteria is i	MINATION net.			

County: Yambill	UF STATE LA	NDS WE	TLAND	DETER	MINATION	DATA FO	RM – Ou	ick Method
County: Yamhill Project/Contact: NewB./	1	Date: 2/2	28/07	City: Ne	wberg	File	#:1985	
Plant Community: mea					C. Steinkoenig	3	······································	
Plot Location:	dow/scrub-snrub			Plot #:23	3			
Recent Weather: cold								
Do normal environmenta	l conditions	1.7 × 7			_			
Has Vegetation	Soil			f no, expla				
Explain:	2011	Hydro	logy 🗌 be	een signific	cantly disturbed	1?		
			Mincipa	n i my cany				
	Tree Stratum		YEGE	TATION		Herb Stratu	ım	-
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	1.50	500/	
			aw % Cover	10tai 110t	COVELLIOO	50 = :		20 = 20%
1.				1	1. Alopecurus	nratensis	Sta	tus/Raw % Cover
2.	ı			···	2.Agrostis sto	lonifera		FACW 20* FAC 50*
3.					3.Dactylis glo			FACU 20*
4.					4.Chrysanther	num ;euc.		NOL 5
5.					5.Aster sp.	· · · · · · · · · · · · · · · · · · ·		Unknown 5
Sapling/Shrub Stratum					6.			7111 2
Total Piot Cover:35	17.5= 50% 7=	20%	Status/Raw		7.			
1.Rubus discolor		···	FACU- 10		8.	****		
2.Rubus laciniatus			FACU+ tr	ace	9.			
3.Rhamnus purshiana			FAC- 5		10.			
4.Crataegus sp			FAC/FAC	U 20*	11.			
5. Hydrophytic Vegetation					12.	*****		*****
Criteria Met? Yes Map Unit Name: Amity si On Hydric Soil List?	lt loam	: Hawthron Drainage C Has Hydric	<u>SOI</u> lass: Somew	<u>LS</u> vhat poorly	drained No			
Depth Range of Horizon	Matrix Color	R	tedox Conce	ntrations	Redox Dep	letions	Texture	
0-13	10YR3/2		lone				SIL	
13-18	10YR4/2	1	0YR4/6 MI	FD			Si CL	
TT to a second								
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests positive) Gleyed or low chroma colors Redox features within 10" (e.g., concentrations) Criteria Met? Concretions/Nodules (w/in 3", > 2mm) High organic content in surface (in Sandy Soils) Organic streaking (in Sandy Soils) Organic pan (in Sandy Soils) Listed on Hydric Soils List (and soil profile matches) Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration) Supplemental indicator (e.g., NRCS field indicator)								
Recorded Data:			HYDRO	<u>LOGY</u>				
Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicate Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits Criteria Met? Yes	ors: es	epth to Satura Secondary F Oxidized I Water-stain	Hydrology In Root Channel ned leaves Survey Data utral Test	dicators (2	Depth to Free Wa	☑ No Recorded I ater:10" i):	Data Availab	le
WETLAND? □YES 🏻	NO Comments: V	egetation an	<u>DETERMIN</u> d soil did not	NATION t met wetla	nd criteria.			

DEPARTMENT O	F STATE LA			· · · · · · · · · · · · · · · · · · ·				ick Method
County: Yamhill		Date: 2/2	28/07	City: Nev			#:1985	
Project/Contact: NewB./C				-	C. Steinkoeni	g		
Plant Community: meadow/scrub-shrub Plot #:24								
Plot Location: Paired w/ sa	mple plot 23							
	Recent Weather: cold							
Do normal environmental conditions exist? YN N If no, explain: Has Vegetation Soil Hydrology been significantly disturbed?								
Explain:	2011	Tiyato	rogy [] oc	cu agunc	anny disturbe	u :		
Dybur.			VEGET	TATION				
	Tree Stratum Herb Stratum							
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50=5		20 = 20%
		Status/R	aw % Cover	<u>L</u>	1 4 25		Sta	atus/Raw % Cover
2.					1. Alopecuru 2.Agrostis ste			FACW 50* FAC 45*
3.					3.Moss	жинует и		5
4.					4.			
5.					5.			
Sapling/Shrub Stratum					6.			
Total Piot Cover:30	15= 50% 6	= 20%	Status/Rav	v % Cover	7.			
1.Rosa nutkana			FAC 30*		8.			
2.	·				9.			
3.			<u> </u>		10.			
4.			1		11.		······································	
5. Hydrophytic Vegetation			1		12.			
Criteria Met? ⊠Yes ☐ Map Unit Name: Amity s: On Hydric Soil List? ☐	lt loam	Drainage (<u>ILS</u> what poorly				
Depth Range of Horizon	Matrix Color		Redox Conc		Redox De	epletions	Texture	
0-10	10YR3/2		10YR3/6 M				SlL	
10-16	10YR4/2		10YR4/6 M	IFD			Si CL	
				·				
Hydric Soil Indicators: Histosol								
HYDROLOGY Recorded Data:								
Recorded Data Available Field Data	Aerial Pho	tos	☐Stream Ga	wge [Other	⊠ No Recorded	Data Avail	able
Depth of inundation: Primary Hydrology Indica Inundated Saturated in upper 12 inc Water Marks Drift Lines Sediment Deposits Criteria Met?	hes	□Oxidize □Water-s □Local S	y Hydrology d Root Chant tained leaves oil Survey Da Neutral Test	Indicators (nels (upper 1	2 or more requ	Depth to Free 'ired'):	Water:	
WETLAND? ⊠YES [NO Comments	: All wetland		<u>IINATION</u> iet.				

DEPARTMENT O	F STATE LAN	DS WE	TLAND I	DETERI	MINATION DA	ATA FORI	M – Quick Method
County: Yamniii	1	Date: 2/2	28/07	City: Ne	wberg	File #:	1985
Project/Contact: NewB./C				Det. By:	C. Steinkoenig		
Plant Community: mead				Plot #:25	5		
Plot Location: south of iso							
Recent Weather: cold/we		+K-21		_			
Do normal environmental				f no, expla			
Has Vegetation	Soil	Hydrol	logy 🗌 🛮 be	en signific	cantly disturbed?		
Explain:							
	Free Stratum		VEGET	ATION	He	erb Stratum	
Total Plot Cover:0	= 50%		= 20%	Total Diet	Cover:100	50 500	0/ 100 000/
			aw % Cover	TOIAI FIOI	COVELLOO	50 = 50	
1.		O CALCOVACI	211 70 00101	<u> </u>	1. Alopecurus prai	lancie .	Status/Raw % Cover
2.			· · · · · · · · · · · · · · · · · · ·		2.Agrostis stolonif		FAC 80*
3.					3.		1710 00
4.				***************************************	4.		
5.				***************************************	5.		
Sapling/Shrub Stratum					6.		
Total Plot Cover:	= 50%	= 20%	Status/Raw	% Cover	7.		
1.					8.	100110	
2.					9.		
3.					10.		
4.					11.		
5. Hydrophytic Vegetation					12.	***************************************	
Map Unit Name: Amity si On Hydric Soil List?	lt loam I Yes ⊠ No H	Orainage C Ias Hydrid	SOI Class: Somev Inclusions?	what poorly	y drained No		
Depth Range of Horizon	Matrix Color	F	Redox Conce	ntrations	Redox Depleti	ons	Texture
0-12	10YR3/2	1	0YR3/6 MF	D T		1	SI CL
12-18	10YR4/2	1	0YR4/6 CF	D			Si CL
					:		
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test: Gleyed or low chroma colo Redox features within 10" Criteria Met? Yes	ors		□ v □ c □ c □ h	igh organic rganic strea rganic pan isted on Hy Jeets hydri	Nodules (w/in 3", > 2 content in surface (ir king (in Sandy Soils) (in Sandy Soils) dric Soils List (and so soil criteria 3 or 4 (al indicator (e.g., NRC)	n Sandy Soils) oil profile mate ponded or floor	ded for long duration)
CHECHA MICE. M. 165	□ 140		TIVDDO	TOCV			
Recorded Data: Recorded Data Available Field Data	☐Aerial Photos		<u>HYDRO</u> Stream Gau] Other 🔲 N	lo Recorded Da	ata Available
Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	o <u>rs:</u> S C es C	Secondary Oxidized Water-sta Local Soi FAC – No	Root Channe ined leaves I Survey Data cutral Test	ndicators () ls (upper 12	,	ater: I " .	,
Criteria Met? XYes	•		DETERMI	_	standing water.		•
WETLAND? ⊠YES □	PIO Comments: We	euand crit	eria met.				

County: Yambill	OF STATE LA	NDS WE	TLAND	DETERI	MINATION 1	DATA FOI	RM – On	ick Method
		Date: 2/	28/07	City: Ne	wberg	File	#:1985	LIAUGHOU
Project/Contact: NewB./					C. Steinkoenig			
Plant Community: mead	dow			Plot #:26	5			
Plot Location: Paired w/sa	ampleplot 25							
Recent Weather: cold	•	_						
Do normal environmenta	d conditions exist?		N □ I	lf no, expla	in:			
Has Vegetation	Soil	Hydro	logy 🗍 🛮 be	een signific	antly disturbed?			
Explain:					-			
	Tree Stratum		VEGET	TATION		TL Ct		
]	j	Herb Stratur	m	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 = 5	0%	20 = 20%
1.		Status/R	aw % Cover	<u> </u>			Stat	tus/Raw % Cover
2.		<u> </u>			1. Alopecurus p			FACW 45*
3.					2.Agrostis stolo	nifera		FAC 55*
4.					3.			
5.					4. 5.			- <u>-</u>
Sapling/Shrub Stratum		<u> </u>			6.			
Total Plot Cover:10		5= 20%	Status/Raw	% Cover	7.			
1.Rubus discolor		<u></u>	FACU 5*		8.			
2.Malus sp.			NOL 5*		9.			
3.				****	10.			
4,					11.			
5.			1		12.			
Hydrophytic Vegetation	Indicators:				1			
> 50% of dominants are	OBL, FACW or FAC	C Percent of	f Dominant S	pecies that a	are OBL, FACW, F	FAC (not FAC-)·66	
Outor injurophytic regelation	i muncauns:					(,,,,,	
Criteria Met? ⊠Yes □		· MICIS WELL	and vegetan SOI		•			
Map Unit Name: Amity si		Drainage C	lass: Somev	what poorly	drained			
On Hydric Soil List?	Yes 🛛 No	Has Hydric	Inclusions?	Yes [□ No			
Depth Range of Horizon	Matrix Color	l i	Redox Conce		n-J n-1-	T		
0-12	10YR3/2		Vone	ann anons	Redox Deple	tions	Texture	
12-18	10YR4/2	~~	OYR4/6 CF	717			SIL	
	1011(1)2		VIN4/U CI	יני.			Si CL	
Hydric Soil Indicators:			·					
☐Histosol			Пс	oncretions/N	lodules (w/in 3", >	2mm)		
Histic Epipedon			⊟н	igh organic	content in surface	(in Sandy Soils	١	
Sulfidic Odor			Oı	rganic streal	king (in Sandy Soil	ls)	,	
Reducing Conditions (test	s positive)		O ₁	rganic pan (in Sandy Soils)			
☐Gleyed or low chroma cold ☐Redox features within 10"		S .	۲	isted on Hy	dric Soils List (and	l soil profile ma	itches)	
Elicotox toutales within 10	(e.g., concentrations	9)			soil criteria 3 or 4			g duration)
Criteria Met? 🔲 Yes	⊠ No		□ 3	uppiementa	l indicator (e.g., N	RCS neld indic	ator)	
	<u></u>		HYDRO	LOGV				
Recorded Data:	_		HIDRO	<u>LOG1</u>				
Recorded Data Available	Aerial Photos	· []Stream Gau	ge 🔲	Other 🛛	No Recorded I	Data Availabl	le
Field Data								
Depth of inundation:	De	pth to Satura		Dep	th to Free Water:5'	II.		
Primary Hydrology Indicate Inundated		Secondary]	Hydrology In	ndicators (2	or more required)	:		
Saturated in upper 12 inch	es	∐Uxidized	Root Channel	is (upper 12	···)			
Water Marks			ned leaves Survey Data					
Drift Lines		FAC - Ne						
Sediment Deposits		Other:						
Criteria Met? ⊠Yes ☐	No	Commen	ts: .		•			
WETLAND? □YES ⊠	NO Comments: S	ail did nat	DETERMI	NATION Siturios		-		
	Comments: 9	on ulu 119T N	ier Meriado C	a Aerion.				

DEPARTMENT O	F STATE LAN	NDS WE	TLAND	DETERI	MINATION DA	ATA FORM –	Ouick Method
	1	Date: 2/2	28/07	Uity: Ne	wberg	File #:1985	Zarew Marting
Project/Contact: NewB./C Plant Community: mead	S				C. Steinkoenig		
Plot Location: Tax lot 1000)W			Plot #:27	•		
Recent Weather: cold	Vei Clinic						
Do normal environmental	aandisiaaa aatan	3787		_			
Has Vegetation	Soil		I. 🗖 K.	f no, expla	in:		
Explain:	3011	Hydro	logy 🔲 be	en signific	antly disturbed?		
			10 men	ATION			
J	Tree Stratum		YEGE	ATION	He	erb Stratum	
Total Plot Cover:0	= 50%		= 20%	Total Dist	Cover:100		
			aw % Cover	10tal Plot	Cover: 100	50 = 50%	20 = 20%
1.					1.Poa pratenisis		Status/Raw % Cover
2,					2.Agrostis stolonife	era	FAC 45* FAC 50*
3.					3.Rumex crispus		FAC+ trace
4. 5.					4.Chrysanthemum.	Leuc.	UPL trace
					5.Trifolium repens		FAC 15
Sapling/Shrub Stratum Total Plot Cover:	<u></u>	****			6.		
1.	= 50%	= 20%	Status/Raw	% Cover	7.		
2.					8.		
3.		·			9.		
4.					10.		
5.				·····	11.		
Hydrophytic Vegetation			<u> </u>		12.		
Map Unit Name: Woodbur On Hydric Soil List? Y	n silt loam 0-7% I es ⊠ No I	Orainage C Has Hydric	lass: Moder : Inclusions?	ately well o	drained ☑ No		
	Matrix Color	F	Redox Conce	entrations	Redox Depletion	ons Textu	re
0-16	10YR3/3	1	lone	,		SIL	
	····			· ,,,,,,,,,,			
Hydric Soil Indicators:							
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (rs		□Hi □Oi □ I □ L □ Si	gh organic organic streak rganic streak rganic pan (i isted on Hyd deets hydric upplemental	lodules (w/in 3", > 2r content in surface (in ting (in Sandy Soils) in Sandy Soils) dric Soils List (and so soil criteria 3 or 4 (p indicator (e.g., NRC	Sandy Soils) il profile matches) onded or flooded fo	r long duration)
Recorded Data:			<u>HYDRO</u>	LUGI			
Recorded Data Available Field Data	Acrial Photos]Stream Gau	ge 🗀	Other No	Recorded Data Av	ailable
Depth of inundation: Primary Hydrology Indicato Inundated Saturated in upper 12 inche Water Marks Drift Lines Sediment Deposits Criteria Met? Yes	r <u>s:</u> S C S C	_IOxidized	Hydrology In Root Channel ined leaves Survey Data utral Test	dicators (2 s (upper 12'	Depth to Free Water: or more required): ")		
WETLAND? □YES ☒N	NO Comments: No	hydric soi	DETERMII l or wetland	<u>NATION</u> hydrology c	bserved.		

DEPARTMENT (County: Yamhill	1	Date: 2/	28/07	City: Ne	where	701 //	- Quick Method
Project/Contact: NewB./	CS				C. Steinkoenig	File #:191	55
Plant Community: mea	dow			Plot #:28			
Plot Location: Tax lot 90	J						
Recent Weather: cold							
Do normal environmenta	ıl conditions exist?	' Y⊠	N 🗌 I	f no, expla	in:		
Has Vegetation	Soil 🗌	Hydro			antly disturbed?		
Explain:					,		
	Tree Stratum		VEGET	ATION	Н	erb Stratum	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 500/	
			aw % Cover	70141 7 101	00101,100	50 = 50%	20 = 20% Status/Raw % Cove
1.				I.,	1.Poa pratenisis		FAC 45*
2.					2.Agrostis stoloni	fera	FAC 50*
3. 4.					3.Rumex crispus		FAC+ trace
4. 5.					4.Chrysanthemun	Leuc.	UPL trace
		 			5.Trifolium repen	5	FAC 15
Sapling/Shrub Stratum Total Plot Cover:					6.		
1 otal Plot Cover:	= 50%	= 20%	Status/Raw	% Cover	7.		
2.		W	<u> </u>		8.		
<u>2. </u>	 -				9.		
3. 4.					10.		
4. 5.					11.		
o. Hydrophytic Vegetation					12.		
On Hydric Soil List?		Has Hydric			₹ 1 1/10		
Depth Range of Horizon 0-17	Matrix Color 10YR3/3		ledox Conce lone	entrations	Redox Deplet		
	10110/3	- I	ione			SI L	
, , , , , , , , , , , , , , , , , , ,					1		
Hydric Soil Indicators:							
Histosol							
			Пс				
一年れないと でもわなののひ			Co	oncretions/N	lodules (w/in 3", > 2	2mm)	
Sulfidic Odor			∐Hi	igh organic (content in surface (i	n Sandy Soils)	
Sulfidic Odor Reducing Conditions (test	s positive)		∐Hi □oi	igh organic (rganic streak	content in surface (i ting (in Sandy Soils	n Sandy Soils)	
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col	OLS		□ L	igh organic o rganic streak rganic pan (i isted on Hyo	content in surface (i cing (in Sandy Soils in Sandy Soils) dric Soils List (and s	n Sandy Soils)) soil profile matches'	
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col	OLS	s)	Hi Oi Oi L	igh organic o rganic streak rganic pan (i isted on Hyd Jeets hydric	content in surface (ix cing (in Sandy Soils) in Sandy Soils) dric Soils List (and so soil criteria 3 or 4 (n Sandy Soils) soil profile matches ponded or flooded) for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10"	ors '(e.g., concentration	s)	Hi Oi Oi L	igh organic o rganic streak rganic pan (i isted on Hyd Jeets hydric	content in surface (i cing (in Sandy Soils in Sandy Soils) dric Soils List (and s	n Sandy Soils) soil profile matches ponded or flooded) for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10"	OLS	s)	□Hi □Oi □Oi □ L □ Si	igh organic organic organic streak organic pan (i isted on Hyo deets hydric upplemental	content in surface (ix cing (in Sandy Soils) in Sandy Soils) dric Soils List (and so soil criteria 3 or 4 (n Sandy Soils) soil profile matches ponded or flooded) for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes	ors '(e.g., concentration	s)	Hi Oi Oi L	igh organic organic organic streak organic pan (i isted on Hyo deets hydric upplemental	content in surface (ix cing (in Sandy Soils) in Sandy Soils) dric Soils List (and so soil criteria 3 or 4 (n Sandy Soils) soil profile matches ponded or flooded) for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes	ors (e.g., concentration	_	Hi Oo Oo L N So HYDRO	igh organic organic streak rganic streak rganic pan (i isted on Hyd feets hydric upplemental	content in surface (icting (in Sandy Soils) in Sandy Soils) dric Soils List (and soil criteria 3 or 4 (indicator (e.g., NR)	n Sandy Soils)) soil profile matches ponded or flooded CS field indicator)	for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available	ors '(e.g., concentration	_	□Hi □Oi □Oi □ L □ Si	igh organic organic streak rganic streak rganic pan (i isted on Hyd feets hydric upplemental	content in surface (icting (in Sandy Soils) in Sandy Soils) dric Soils List (and soil criteria 3 or 4 (indicator (e.g., NR)	n Sandy Soils) soil profile matches ponded or flooded	for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation:	ors (e.g., concentration No Aerial Photo	s	Hi Oo Oo L M So HYDRO Stream Gaug	igh organic organic streak rganic pan (i isted on Hyd feets hydric upplemental LOGY	content in surface (ixing (in Sandy Soils in Sandy Soils) dric Soils List (and soil criteria 3 or 4 (landicator (e.g., NR)) Other	n Sandy Soils)) soil profile matches ponded or flooded CS field indicator) lo Recorded Data A	for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Crimary Hydrology Indicat	ors (e.g., concentration No Aerial Photo	s Eepth to Satura	Hi Oi Oi L M Si HYDRO Stream Gaug Ition: Hydrology In	igh organic organic streak rganic pan (i isted on Hyd feets hydric upplemental LOGY ge I adicators (2	content in surface (icting (in Sandy Soils in Sandy Soils) dric Soils List (and soil criteria 3 or 4 (la indicator (e.g., NR)) Other Note Nater or more required):	n Sandy Soils)) soil profile matches ponded or flooded CS field indicator) lo Recorded Data A	for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Crimary Hydrology Indicat	ors (e.g., concentration No Aerial Photo ors:	septh to Satura Secondary I	Hi On On L M St HYDRO Stream Gaug tion: Hydrology In Root Channel	igh organic organic streak rganic pan (i isted on Hyd feets hydric upplemental LOGY ge I adicators (2	content in surface (icting (in Sandy Soils in Sandy Soils) dric Soils List (and soil criteria 3 or 4 (la indicator (e.g., NR)) Other Note Nater or more required):	n Sandy Soils)) soil profile matches ponded or flooded CS field indicator) lo Recorded Data A	for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Crimary Hydrology Indicat Inundated Saturated in upper 12 inch	ors (e.g., concentration No Aerial Photo ors:	s epth to Satura Secondary I Oxidized I Water-stai	☐Hi ☐Oi ☐ C ☐ L ☐ N ☐ S ☐ ☐ S ☐ ☐ HYDRO ☐ ☐ Stream Gaug Ition: ☐ Hydrology In ☐ Root Channel ☐ ned leaves	igh organic organic streak rganic pan (i isted on Hyd feets hydric upplemental LOGY ge I dicators (2 is (upper 12)	content in surface (icting (in Sandy Soils in Sandy Soils) dric Soils List (and soil criteria 3 or 4 (la indicator (e.g., NR)) Other Note Nater or more required):	n Sandy Soils)) soil profile matches ponded or flooded CS field indicator) lo Recorded Data A	for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Crimary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks	ors (e.g., concentration No Aerial Photo ors:	s	Hill On	igh organic organic streak rganic pan (i isted on Hyd feets hydric upplemental LOGY ge I dicators (2 is (upper 12)	content in surface (icting (in Sandy Soils in Sandy Soils) dric Soils List (and soil criteria 3 or 4 (la indicator (e.g., NR)) Other Note Nater or more required):	n Sandy Soils)) soil profile matches ponded or flooded CS field indicator) lo Recorded Data A	for long duration)
Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Crimary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines	ors (e.g., concentration No Aerial Photo ors:	s	Hill On	igh organic organic streak rganic pan (i isted on Hyd feets hydric upplemental LOGY ge I dicators (2 is (upper 12)	content in surface (icting (in Sandy Soils in Sandy Soils) dric Soils List (and soil criteria 3 or 4 (la indicator (e.g., NR)) Other Note Nater or more required):	n Sandy Soils)) soil profile matches ponded or flooded CS field indicator) lo Recorded Data A	for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Crimary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	ors (e.g., concentration No Aerial Photo ors:	s	Hill On	igh organic organic streak rganic pan (i isted on Hyd feets hydric upplemental LOGY ge I dicators (2 is (upper 12)	content in surface (icting (in Sandy Soils in Sandy Soils) dric Soils List (and soil criteria 3 or 4 (la indicator (e.g., NR)) Other Note Nater or more required):	n Sandy Soils)) soil profile matches ponded or flooded CS field indicator) lo Recorded Data A	for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Crimary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits	ors (e.g., concentration No Aerial Photo ors:	epth to Satura Secondary I Oxidized I Water-stai Local Soil FAC - Ne	Hill On	igh organic organic streak rganic pan (i isted on Hyd feets hydric upplemental LOGY ge I dicators (2 is (upper 12)	content in surface (icting (in Sandy Soils in Sandy Soils) dric Soils List (and soil criteria 3 or 4 (la indicator (e.g., NR)) Other Note Nater or more required):	n Sandy Soils)) soil profile matches ponded or flooded CS field indicator) lo Recorded Data A	for long duration)
Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch	ors (e.g., concentration No Aerial Photo ors:	s epth to Satura Secondary IOxidized IWater-staiLocal SoilFAC - NeOther:Commen	Hill On	igh organic organic streak rganic pan (i isted on Hyd feets hydric upplemental LOGY ge I adicators (2 is (upper 12)	content in surface (ixing (in Sandy Soils in Sandy Soils) dric Soils List (and soil soil criteria 3 or 4 (indicator (e.g., NR)) Other Note to Free Water or more required):	n Sandy Soils)) soil profile matches ponded or flooded CS field indicator) lo Recorded Data A	for long duration)

Appendices Boiler Plate Information References

Boiler Plate Information

Wetland Definition and Authority

The U.S. Army Corps of Engineers (COE) regulates the discharge of dredged or fill materials into waters and adjacent wetlands of the United States under authority of Section 404 of the Clean Water Act (*Federal Register*, 1986). For purposes of the Section 404 permitting program, the COE and other federal agencies define wetlands as follows (*Federal Register*, 1980, 1982):

"Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions."

In Oregon, the Department of State Lands (DSL) regulates removal/fill permitting in wetlands under ORS 196.800 to 196.990, and OAR 141-85-005 to OAR 141-85-090, and uses the same definition.

Regulatory Context

In 1987, the COE published a manual (Corps of Engineers Wetlands Delineation Manual or 1987 manual), which describes methods for determining the extent of jurisdictional wetlands under Section 404 of the Clean Water Act (Environmental Laboratory, 1987). The Federal Manual for Identifying and Delineating Jurisdictional Wetlands was published two years later as a collaborative effort by the COE, U.S. Fish and Wildlife Service (USFWS), U.S. Environmental Protection Agency (EPA), and U.S. Soil Conservation Service (SCS), revised the 1987 manual (Federal Interagency Committee for Wetland Delineation, or 1989 manual).

Both the COE and DSL used the 1989 manual until 1992 when the 1992 Energy and Water Development Appropriation Act went into effect. The Act limited the COE (federal permitting agency) to using the 1987 manual for determining the extent of wetlands under federal jurisdiction. Oregon continued to use the 1989 manual until March 23, 1993, when the Director of DSL signed a policy statement requiring the agency to use the 1987 manual. The policy statement was the result of the EPA agreement to use the 1987 manual.

Vegetation

Plants growing in wetlands must be specifically adapted for life under saturated or anaerobic conditions and are commonly referred to as hydrophytic vegetation. The U.S.F.W.S. in cooperation with the National and Regional Interagency Review Panels publishes regional lists estimating the probability of plant species' occurrence in wetlands (e.g., Fish and Wildlife Service, 1988). Each species is given an *indicator status*, which represents the likelihood that it will be found in a wetland. Categories defined in Table 1

are obligate (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), or upland (UPL). Plants with an indicator status of OBL, FACW, or FAC are considered adapted for life in saturated or anaerobic soil conditions.

The percent coverage of each plant species within the herb, shrub, and tree layers was estimated at each sample plot. Shrubs within a five-foot radius and trees within a 30-foot radius of the center of each plot were identified and recorded. Within the plot, all species were recorded in descending order of coverage, and dominant species were determined. The presence of wetland vegetation was determined according to the indicator status of the dominant species within each vegetative stratum. According to the manual, a sample plot is considered to have wetland vegetation if more than 50% of the number of dominant species present has an indicator status of OBL, FACW, and/or FAC. By 1987 standards, dominant species are chosen by selecting the three most dominant species from each of the four strata (herbs, saplings/shrubs, woody vines, trees). If only one or two strata are represented, then the five most dominant species from each stratum are selected.

TABLE 1: DEFINITIONS OF	Indicator Status
Indicator Symbol	Definition
OBL	Obligate. Species that occur in wetlands under natural conditions with an estimated probability of greater than 99%
FACW	Facultative wetland. Species that usually occur in wetlands (estimated probability 67 to 99%), but occasionally are found in non-wetlands.
FAC	Facultative. Species that are equally likely to occur in wetlands or non-wetlands (estimated probability 34 to 66%).
FACU	Facultative upland. Species that usually occur in non-wetlands (estimated probability 67 to 99%), but occasionally are found in wetlands.
UPL	Upland. Species that occur in non-wetlands under natural conditions with an estimated probability of greater than 99%
NI	No indicator. Species for which insufficient information was available to determine an indicator status.
Sources: Federal Interage Laboratory, 1987, Reed.	ency Committee for Wetland Delineation, 1989. Environmental

Soils

Hydric soils, defined as soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part of the soil profile, are one characteristic of wetlands (USDA Soil Conservation Service, 1987). A list of hydric soils of the United States was compiled by the Soil Conservation Service (SCS), in cooperation with the National Technical Committee for Hydric Soils (NTCHS). All soils are mapped in county soil surveys. However, the mapped boundaries of SCS soil types are not at a fine enough resolution for delineating boundaries of jurisdictional wetlands. Errors of omission can occur on SCS maps. Inclusions of upland (non-wetland) soil may exist in hydric soils and uplands may have inclusions of hydric soil. Therefore, field examination of soils is important for accurately delineating the extent of hydric soils. Hydric soils exhibit certain characteristics that can be observed in the field. Field indicators include: high organic content, accumulation of sulfidic material (rotten egg odor), greenish or bluish gray color (gley formation), iron and manganese concretions, spots or blotches of color (mottling), and/or dark soil colors (low soil chroma).

A shovel, excavating down to a depth of at least 16 inches, was used to sample soil along the wetland boundary. Soil samples were checked for presence of sulfide gases; organic content was estimated visually and texturally; and soil colors were determined by using a Munsell soil color chart (Kollmorgen 1975). The Munsell soil color chart provides the standard for three attributes of color: hue, value, and chroma.

According to the 1987 manual, hydric soils are required to be inundated or saturated for seven or more consecutive days during the growing season. Soil color is examined in the horizon immediately below the A-horizon, or within 10 inches of the surface, whichever is shallower.

Hydrology

Wetlands, by their very name, must have water. Jurisdictional wetlands are characterized as having permanent or periodic inundation, or soil saturation for five percent or more of the growing season. Saturation occurs when the capillary fringe is within the major portion of the root zone (usually within 12 inches of the surface). Areas meeting one of these criteria are considered to have wetland hydrology.

Ponding or soil saturation for five percent or more of the growing season during the growing season is direct evidence of wetland hydrology. Bare soil and dried algae are evidence that a site was previously inundated. Oxidized rhizospheres along live root channels also indicate soil saturation for five percent or more of the growing season. At each sample plot, wetland hydrology was assumed if positive indicators were present.

Wetland Determination

Presence or absence of wetlands was based on soil, vegetation, and hydrology data collected at sample plots. Following procedures outlined in the 1987 manual, sample plots with homogeneous vegetation were determined to be wetlands if wetland characteristics were present or judged to be normally present (barring human or unusual natural events) for all three parameters.

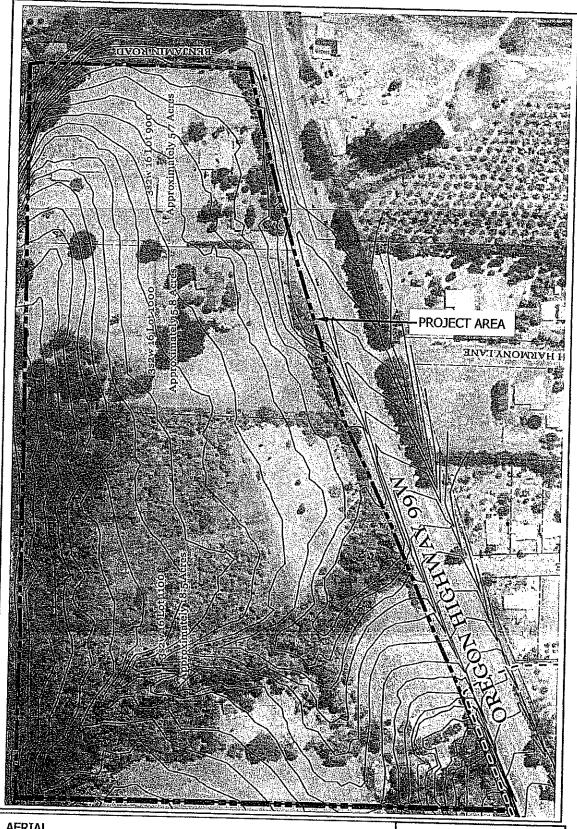
Difficulties in wetland determination can arise because of disturbance or in problem areas. Both human (e.g., clearing vegetation, agriculture, filling, and excavation) and natural (e.g., mudslides, fire, and beaver dams) events have potential for obliterating field indicators of the three wetland parameters. In disturbed sites, both field and offsite data may be used to determine the presence of a wetland. Offsite information such as historical records, aerial photographs, previous soil, and vegetation surveys may indicate the presence of a jurisdictional wetland.

Some sites are difficult to evaluate because field indicators may not be present throughout the year. Field indicators may vary because of changing environmental conditions that occur seasonally and not necessarily the result of human or natural disturbance.

According to the 1987 manual, all three parameters (hydric soils, hydrophytic vegetation, and wetland hydrology) must be present for an area to be determined as wetland. Drumlins, seasonal wetlands, prairie potholes, and vegetated flats exemplify areas that are difficult to evaluate.

REFERENCES

- Environmental Laboratory, 1987. Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1, U.S. Army Engineers Waterways Experiment Station, Vicksburg, MS.
- Federal Interagency Committee for Wetland Delineation, 1989. Federal Manual for Identifying and Delineating Jurisdictional Wetlands, U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, U.S. Fish and Wildlife Service, and U.S.D.A. Soil Conservation Service, Washington, D.C. Cooperative technical publication. 138 pp.
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- Federal Register, 1982. Title 33, Navigation and Navigable Waters; Chapter II,
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- Kollmorgen Corporation, 1975. *Munsell Soil Color Charts*. Macbeth Division of Kollmorgen Corporation, Baltimore, MD.
- Reed, P. B., Jr., 1988. National List of Plant Species that Occur in Wetlands: Northwest (Region 9), U.S. Fish and Wildlife Service, Biological Report 88 (26.9) 89 pp.
- Reed, P. B., Jr., et al., 1993. Supplement to List of Plant Species That Occur in Wetlands: Northwest (Region 9), U.S. Fish and Wildlife Service. Washington D.C. 10p.
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- U.S. Department of Agriculture, Soil Conservation Service, 1982. Soil Survey of Yamhill County, Oregon. U.S.D.A. Soil Conservation Service, Washington, D.C., 138 pp.



AERIAL S&A #1985

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

August 30, 2018

City of Newberg Community Development Department PO Box 970 Newberg, OR 97132

Written Comments: File No. PUD18-0001/CUP18-0004

Crestview Crossing

To the Planning Commission:

We have owned and occupied the adjacent property at 4410 NE Birdhaven Loop since 2008. We moved here expecting the neighboring properties to be annexed and developed – with the development following a specific set of rules agreed to by the parties involved.

New development can still be a positive addition to the area if it proceeds following the same rules established in 2006-2008:

- The development is appropriate for its location and the neighborhood.
- Effective water management protects the aquifer from which the Oxberg community gets
- Proper traffic calming maintains the collector-route properties intended for Crestview Drive.
- A sound wall separates the new development and existing neighborhoods.

Therefore, we support the efforts of the Oxberg Lake Homeowners Association to resolve these and other development provisions, as expressed in the correspondence from attorney Jeffrey Kleinman.

Regards,

Steve and Joanne Goodfellow 4410 NE Birdhaven Loop

Stalfher Journe Goodfellru

Newberg, OR 97132

503-538-8031

sjgoodfellow@gmail.com

RECEIVED

SEP 04 2018

Initial:

cc: Oxberg Lake Homeowners Association Board of Directors

RECEIVED

Beth Bernier 1811 Leo Lane Newberg, OR 97132

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Illita	Name and Address of the Owner, which the	

September 1, 2018

City of Newberg Community Development Department P.O. Box 970 Newberg, Oregon 97123

Re:

File No. MISC 318-0001

To Whom It May Concern:

I am writing to make you aware of my strong objections with regard to the proposed development of what is being referenced as Crestview Crossing and is currently a greenspace. I am a local resident living adjacent to the site of the proposed development and I am of the view that the proposed developments will have a serious negative impact on my standard and quality of living.

My backyard faces the current greenspace and wetlands that have been undisturbed for years. I enjoy the wildlife that the greenspace is home to. The greenspace permits me peace and tranquility of enjoying my backyard and balcony in privacy. The trees that make up the greenspace are a natural noise barrier to the traffic on 99W and keep it from being a noise nuisance.

From 99W the area may look like just an empty lot but it backs up to the greenspace and wetlands that touches established neighborhoods. I work in a high stressful field and I have come to rely on the solitude and tranquility of being in my backyard facing the greenspace to permit me to decompress and relax it has become my safe haven and an important part of my quality of life.

Impact on highway and residential streets

Highway 99W is already heavily congested during peak times and weekends due to commuter traffic. The proposed development would have a negative effect on the operation of the main intersection of 99W and Springbrook due to congestion which is already congested during peak hours.

Springbrook has become a heavily traveled street giving the earmarks of a highway almost to a capacity it was not designed to handle. Commuters have been trying to locate side streets to eliminate having to travel on either of these streets which have impacted neighborhoods into becoming bypass streets.

The development proposed will increase traffic on our already heavily traveled roads proving that their allege traffic study is inaccurate. Anyone who travels on 99W and/or Springbrook will tell you the traffic into and out of Newberg is almost equivalent to traffic in the bigger cities and just about as unbearable. Adding additional development of apartments and row houses will cause gridlock and increase accidents within this overburdened area.

The development will have an adverse effect on surrounding neighborhoods as they become congested with the overflow of additional vehicles that 99W, Springbrook, and adjoining neighborhoods cannot accommodate.

Conservation of the natural environment

The current greenspace and wetlands earmarked to be leveled is host to different species of birds, bats, deer, fox, and a huge array of other wildlife that will perish and/or be displaced as a result of the proposed development.

The current greenspace acts as a natural noise and ventilation barrier from traffic on 99W. Clear cutting the trees and developing the property with row houses will permit the sound of the traffic and pollution from 99W and destroy all the adjacent residence's quality of living.

If this development is approved, the developer should be required to have a substantial buffer and setback between the proposed development and the preexisting neighborhoods to protect the current neighborhoods from the large row houses and keep them from being built directly behind existing homes and impeding on the homeowners right to privacy and visual quality. I have been told by others who have lived in the neighborhood longer than I have that this was the original agreement on developing this parcel of land.

Visually Unappealing

The developers are not vested in Newberg or care about the appearance, needs, of our town or the residents that reside in Newberg and how the development will affect anyone.

The proposed development does not integrate with the neighborhood character. These row houses are planned to be built up to established single family homes that are single or double level and the proposed row houses are expected to be half the size of a normal home and three stories which is visually unacceptable and intrudes upon the expected privacy of the existing homes. The row houses conflicts with that of the adjacent and surrounding properties and will disturb contextual flow.

The greenspace has old growth trees that should be protected and used as a barrier between the unsightly row houses being planned by the developer and in consideration of the established homes where the home owners have come to expect a level of privacy and qualify of living that this developer wants to impede on.

The visual impact of the row houses will significantly impact the character of the area. The developer refers to the buildings as "gingerbread houses" in an attempt to make them sound more appealing but they are row houses built to minimize the amount of space needed and to permit the developer to build more houses, close together, for higher financial gain. Consideration was not taken into account the existing greenspace and what they could do to incorporate the greenspace and taking into account the living quality of the homeowners.

The development plan is for row housing to overlook adjoining residences which will create a loss of privacy in private personal spaces. The use of balconies overlooking my home will also result in unacceptable noise levels.

The density of the development is excessive. If this high density living is approved, the increase in residential capacity will be dramatic. This will have a significant impact on residential noise volumes affecting the adjacent properties.

A proper study needs to be done on the development that has already been submitted and a more accurate study of the number of buildings for sale/lease/rent currently on the market. The same is true for the housing and rental market in Newberg. The rental market is higher than what it should be but, unfortunately that is everywhere. New apartments are not going to force the market to be affordable unless rental controls are put into place and adhere to. Renters face a rent increase yearly and renters are usually forced out due to the rent increase which causes constant turnovers and/or empty apartments. Adding additional apartments, even if you call them or any other building affordable does not make them affordable. It does add to a problem that already exists if people are price out of a place to call home.

Not a Value Solution

The row houses are being marketed by the developer as being affordable new homes ranging from the mid to upper 300k even though they are only half the size of a normal home. This does not translate into "affordable" new housing. A quick search produces 56 homes for sale, in just Newberg not counting surrounding areas, which are full size homes in the 200k to 400k price range. This does not include homes that are in the process of foreclosure.

An example of row houses can be seen when traveling on 99W through Sherwood. They are an unsightly in appearance and give a bad impression of Sherwood. The row houses stand-out and look out of place as if it was just thrown in without any thought or planning. The parking lot is poorly designed and not sufficient to accommodate the residents or visitors.

Shortly after they were originally built, we took a tour through a couple of them to get an idea of the layout. They are as poorly designed inside as they are outside with the only individuals benefitting from these monstrosity are the developers. The row houses are rented out and it is apparent with the lack of pride and responsibility for upkeep and care.

The greenspace and wetlands behind my home has permitted me to have a tranquil and peaceful area that is can enjoy along with privacy when I am in my home or backyard. The canopy of trees helps with providing me with my privacy, noise reduction from the highway, and an array of wildlife that have been living among the greenspace.

The development will not alleviate any of the problems that Newberg might be thinking this is addressing but it will leave in time, if permitted to be constructed, a large negative impact on Newberg. The only thing this development will do is leave a black eye on our town for everyone to see as people enter and leave Newberg.

Tearing down the greenspace and permitting the development of the area will not enhance the surrounding neighborhoods or the city of Newberg. Newberg is losing the greenspaces it was previously known for very quickly to development and is beginning to have the feel of another overdeveloped city instead of a family friendly town.

DEVELOPMENT AGREEMENT

This Development Agreement ("DEVELOPMENT AGREEMENT") is made and executed this 16th day of June 2008, by and between GC Commercial, an Oregon Limited Liability Company ("GC"), and Terry Coss, Amelia Coss, Charles Alex Miller, Daniel Peek and Rebecca Peek the "Homeowners") GC and the Homeowners are collectively referred to herein as, the "Parties".

RECITALS:

- A. GC owns and plans to develop the real property located in the City of Newberg, Yamhill County, Oregon, shown on the attached Exhibit "A" (the "GC Development").
- B. GC, with respect to the GC Development, intends to develop the Property into one mixed-use commercial and residential development (collectively, the "Project"). A map of the Project is attached as Exhibit "B."
- C. The Homeowners are owners of those certain parcels of residential real property located in the Oxberg Lakes Subdivision, Yamhill County, Oregon, the southern boundaries of which abut and are adjacent to the northern boundary of the GC Development (individually, each a "Homeowner Parcel" and collectively, the "Homeowners' Parcels").
- D. The Homeowners anticipate significant negative impacts from the GC Development, including reduced security, increased noise, light pollution, increased traffic, and may experience problems with storm drainage and the Oxberg Lake Estates water system and aquifer.
- E. GC desires to help mitigate any potential negative impacts to which the Project and the GC Development might subject the Homeowners.

AGREEMENT:

In consideration of the foregoing and of the mutual agreements, promises, covenants and restrictions set forth herein, GC and the Homeowners agree as follows:

1. Incorporation of Recitals. The parties agree that the foregoing Recitals are true and correct and that the Recitals are incorporated herein as if set forth in full.

2. Construction of the Sound Wall.

a. GC shall construct or cause to be constructed, at its sole cost and expense, a pre-cast concrete wall approximately six (6) feet in height along the boundary shared by the GC Development and the Homeowners' Parcels (the "Sound Wall). The approximate location and length of the Sound Wall are more particularly illustrated on the attached Exhibit "B." However, the exact location and length of the Sound Wall shall be determined by GC in compliance with applicable plans approved by the City of Newberg, or

any other governmental agency having jurisdiction. The design style of the Sound Wall and its construction type shall be consistent with Exhibit "C" attached hereto.

- b. GC shall construct and install the Sound Wall in such a manner as to preserve, to the best of GC's ability, those trees with trunks greater than twelve (12) inches in diameter that are located along the boundary shared by the GC Development and the Homeowners' Parcels.
- c. GC shall provide the Homeowners with copies of any proposed designs and drawings of the Sound Wall, and consider, in good faith, all timely comments GC receives from the Homeowners with respect to the Sound Wall. However, the final design and specifications of the Sound Wall shall be in accordance with plans approved by the City of Newberg, or any other governmental agency having jurisdiction.
- d. GC shall include a ten-foot (10') wide landscape buffer zone along the boundary shared by the GC Development and the Homeowners' Parcels (the "Landscape Buffer Zone"), and a 30-foot (30') setback (the "Setback Zone") between the Sound Wall and any buildings in any subdivision plat maps for its respective parcels submitted for approval to any governmental entity with jurisdiction over the GC Development. The Landscape Buffer Zone and Setback Zone shall be negative easements, binding GC and its successors in interest by encumbering the lots along the boundary shared by the GC Development and the Homeowners' Parcels.
- e. GC shall complete the construction and installation of the Sound Wall on or before the date of final lift of asphalt concrete within the GC Development.

3. Construction of the Storm Water Drainage System

- a. GC shall construct and install, at its sole cost and expense a storm water and surface water drainage system on a portion of the Homeowners' Parcels adjacent to the GC Development (the "Storm Water Drainage System").
- b. GC shall provide the Homeowners with copies of any proposed designs and drawings of the Storm Water Drainage System and consider, in good faith, all timely comments GC receives from the Homeowners with respect to the Storm Water Drainage System. However, the final design and specifications of the Storm Water Drainage System shall be in accordance with plans approved by the City of Newberg, or any other governmental agency having jurisdiction.
- c. GC shall complete the construction and installation of the Storm Water Drainage System on or before the date installation of the Sound Wall begins.

5. Easements.

- a. The Homeowners shall grant to GC temporary easements across their respective Homeowner Parcels for the construction of the Storm Water Drainage System and the Sound Wall, and;
- b. The Homeowners shall grant permanent easements to GC and its successors and assigns, where necessary pursuant to the approved design specifications, to permit encroachments of the Sound Wall onto the Homeowners' Parcels and placement of the Storm Water Drainage system and any catch basins or drain lines appurtenant thereto;
- 6. Permitting. GC shall begin construction of the Sound Wall and the Storm Water Drainage System after it has received all site design approvals, land use permits, entitlements and other permits required for the development of the Project, and has begun construction of the Project. If GC does not receive the aforementioned permits and entitlements it shall not be obligated to build either the Sound Wall or the Storm Water Drainage System.
- 7. Maintenance. The parties shall share in all costs and expenses related to the maintenance and general upkeep of the Sound Wall and Storm Water Drainage System after their respective completion. This maintenance obligation shall bind the Parties and their respective successors in interest and shall be made a part of any permanent easement granted by the Homeowners pursuant to paragraph 5.b., above. In addition to the encumbrances referenced in paragraph 2.d., above, GC shall encumber the lots along the boundary shared by the GC Development and the Homeowners' Parcels to the extent of the maintenance obligation contained herein.
- 8. Assignability. This DEVELOPMENT AGREEMENT is assignable and/or delegable with respect to the rights and duties of GC and the Homeowners, both jointly and severally, to any transferee or other successor in interest to the GC Development or the Project.
- 9. Severability. Should any provision of this DEVELOPMENT AGREEMENT be declared or determined by any forum of competent jurisdiction to be illegal, invalid, or unenforceable, the legality, validity and enforceability of the remaining parts, terms, or provisions shall not be affected thereby, and said illegal, unenforceable or invalid part, term or provision shall be deemed not to be part of this DEVELOPMENT AGREEMENT.
- 10. Counterparts. This DEVELOPMENT AGREEMENT may be executed in any number of counterparts and by each party on a separate counterpart page, each of which when so executed shall be deemed an original.
- 11. Waiver. No waiver of any provision of this DEVELOPMENT AGREEMENT shall be deemed, or shall constitute, a waiver of any other provisions, whether or not similar, not shall any waiver constitute a continuing waiver. No waiver shall be binding unless executed in writing by the party making the waiver.
- 12. Binding Effect. All rights, remedies and liabilities herein given to or imposed upon the parties shall extend to, inure to the benefit of and bind, as the circumstances may

require, the parties and their respective heirs, personal representatives, administrators, successors and permitted assigns and designees.

13. Notices. Any notice or other communication required or permitted under this DEVELOPMENT AGREEMENT shall be in writing and shall be deemed given on the date of transmission when sent by telex or facsimile transmission, or on the third business date after the date of mailing when mailed by certified mail, postage prepaid, return receipt requested, from within the United States, or on the date of actual delivery, whichever is the earliest, and shall be sent to the parties at the addresses shown provided below, or at such other address as either party may hereafter designate by written notice to the other.

To GC:

Jeffrey D. Smith

4386 SW Macadam Avenue

Suite 305

Portland, OR 97239

With a copy to:

Jessica S. Cain Gunn & Cain, LLP P.O. Box 1046

Newberg, Oregon 97132

To Terry Coss and Amelia Coss:

Terry Coss and Amelia Coss

4304 Robin Court Newberg, OR 97132

To Alex Miller:

Alex Miller Natrula + Warren Stone

4308 E. Robin Court Newberg, OR 97132

To Dan Peek and Rebecca Peek:

Dan Peek and Rebecca Peek

4402 Birdhaven Loop Newberg, OR 97132

- 14. Amendment. No supplement, modification or amendment of this DEVELOPMENT AGREEMENT shall be valid unless the same if in writing and signed by all of the Parties.
- 15. Attorney's Fees. In the event any suit, action or other legal proceeding shall be instituted to declare or enforce any right created by this DEVELOPMENT AGREEMENT, or by reason on any breach of this DEVELOPMENT AGREEMENT, both parties shall be individually responsible for their respective legal fees.

- 16. Governing Law and Venue. This DEVELOPMENT AGREEMENT and the rights of the parties hereunder shall be governed, construed and enforced in accordance with the law of the State of Oregon, without regard to its conflict of law principles. Venue for any such suit, action or other legal proceeding regarding this DEVELOPMENT AGREEMENT or the Real Property shall be brought in Yamhill County Circuit Court.
- 17. Interpretation. This DEVELOPMENT AGREEMENT shall be deemed to have been drafted jointly by the parties and shall be interpreted in accordance with the plain meaning of its terms and not strictly for or against any of the parties hereto.
- 18. Indemnification. GC hereby agrees to indemnify the Homeowners and hold them harmless from and against any and all claims, demands, liabilities, costs, expenses, penalties, damages and losses, including, without limitation, reasonable attorneys' fees before or at trial, on appeal, and on any petition for review, resulting from any injuries made by contractors performing work to satisfy this DEVELOPMENT AGREEMENT.
- 19. Third-Party Beneficiaries. Nothing in this DEVELOPMENT AGREEMENT, express or implied, is intended to confer on any person, other than the parties to this DEVELOPMENT AGREEMENT, any right or remedy of any nature whatsoever.
- 20. Advice of Counsel. Each of the parties also represent that they have read this DEVELOPMENT AGREEMENT and discussed it with an attorney of their choosing, that they understand each of the terms of this Agreement, and that they enter into and execute this DEVELOPMENT AGREEMENT voluntarily and willingly.
- 21. Preparation by Gunn & Cain. The Homeowners acknowledge that this DEVELOPMENT AGREEMENT has been prepared by Gunn & Cain LLP, attorneys for GC, and that the Homeowners have been advised to consult with their own respective legal counsel should they have any questions regarding the matter.

DEVELOPERS:

GC Commercial LLC, an Oregon Limited Liability Company

By: Name: Jeffery D. Smith

Title: Manager Date:

On this	ler who acknowleed.	Notary Public for Oregon My commission expires: 6/29/2010
STATE OF OREGON)	
STATE OF OREGON) ss.	
County of Yamhill)	
voluntary act and deed.		Notary Public for Oregon My commission expires:
State Of Oregon)) ss.	
County of Yamhill)	
		Tune, 2008, personally appeared before me the above- ged the execution of the foregoing instrument to be her
		Notary Public for Oregon
•		My commission expires:

THE H	OMEOWNERS:
TERRY	COSS
AMEL	IA COSS
Date:	· .
	Property Address: 4304 Robin Court Newberg, OR 97132
	LES ALEX MILLER, a single man
Date:	July 1, 2008
	Property Address: 4308 E. Robin Court Newberg, OR 97132
DANI	EL PEEK
REBE	CCA PEEK
Date:	
	Property Address: 4402 Birdhaven Loop Newberg, OR 97132



Department of State Lands

775 Summer Street NE, Suite 100 Salem, OR 97301-1279 (503) 378-3805 FAX (503) 378-4844 www.oregonstatelands.us.

State Land Board

Theodore R. Kulongoski Governor

> Bill Bradbury Secretary of State

3401 SW Huber Street Portland, OR 97219

New B. Properties, LLC

February 4, 2008

Tim Speakman

Re: Wetland Delineation Report for 4505 E Portland Rd, Newberg; Yamhill

County; T 3S R 2W Sec. 16 Tax Lots 900, 1000 & 1100; WD #07-0345

Randall Edwards State Treasurer

Dear Mr. Speakman:

The Department of State Lands has reviewed the wetland delineation report prepared by Schott and Associates for the site referenced above. Based upon the information presented in the report, we concur with the wetland and waterway boundaries as mapped in Wetland Map Pages 1 of 3 and 3 of 3 of the report. Within the study area, three wetlands (totaling approximately 2.24 acres) and two waterways within the mapped wetlands were identified. The wetlands and waterways are subject to the permit requirements of the state Removal-Fill Law. A state permit is required for cumulative fill or annual excavation of 50 cubic yards or more in the wetlands or below the ordinary high water line (OHWL) of a waterway (or the 2 year recurrence interval flood elevation if OHWL cannot be determined).

This concurrence is for purposes of the state Removal-Fill Law only. Federal or local permit requirements may apply as well. The Army Corps of Engineers will review the report and make a determination of jurisdiction for purposes of the Clean Water Act at the time that a permit application is submitted. We recommend that you attach a copy of this concurrence letter to both copies of any subsequent joint permit application to speed application review.

Please be advised that state law establishes a preference for avoidance of wetland impacts. Because measures to avoid and minimize wetland impacts may include reconfiguring parcel layout and size or development design, we recommend that you work with Department staff on appropriate site design before completing the city or county land use approval process.

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 and procedures for renewal of an expired determination are found in OAR 141-090-0045 (available on our web site or upon request). The applicant, landowner, or agent may submit a request for reconsideration of this determination in writing within 60 calendar days of the date of this letter.

Thank you for having the site evaluated. Please phone me at 503-986-5236 if you have any questions.

Sincerely,

Janet C. Morlan, PWS

Wetlands Program Manager

Lanet C. Morlan

Enclosures

cc: Claudia Steinkoenig, Schott and Associates

City of Newberg, Planning Department

Tina Teed, Corps of Engineers

Carrie Landrum, DSL

Site Data Sheet

Project Name:

New B.

Project Number:

1985

Date of Site Visit:

February 21 & 28, 2007

Applicant:

Tim Speakman

Applicant's Address: 3401 SW Huber Street

Portland, Oregon 97219

Owner(s):

Same

Owner(s) Address:

State:

Oregon

County:

Yamhill

Site Location:

East of Victoria Way, North of 99W

USGS Quadrangle:

Newberg

Latitude/Longitude:

45°18.738'N / 122°55.870'W

Tax Map Information:3S2W Sect.16 TL 1100, 1000, 900

Watershed:

Willamette River

Adjacent Waterbody: Tributary of Spring Brook Creek

In the Floodplain:

Topography:

Gentle to moderate slopes

Site Zoning:

Agriculture/Forestry Small Holding (AF-10)

Proposed Use:

Residential/Commercial

Present/Past Use:

Rural/farmed

Surrounding Usage:

residential to the north and west/ rural to the east

Determination:

2 unnamed tributaries of Spring Brook Creek, 0.32 acre PEM

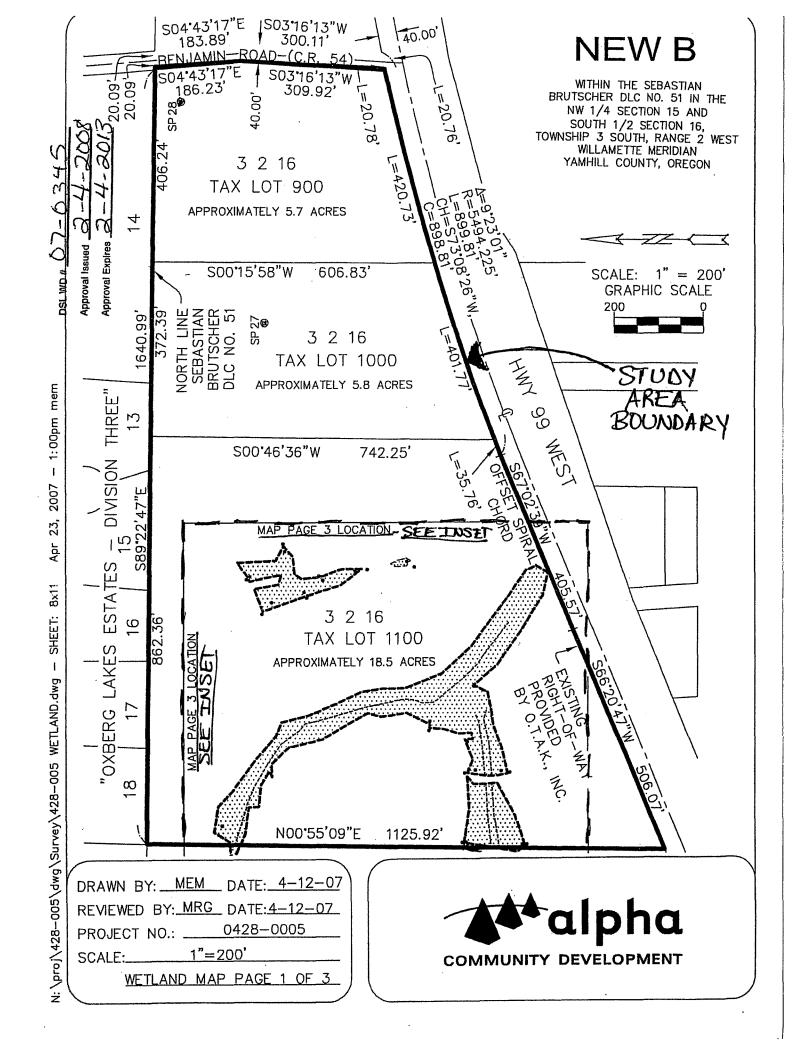
wetland, 1.63 acre PFO wetland, 0.29 acre PEM/PSS

wetland

Days Since Last Rain:0

Mapping accuracy:

Alpha Community Development, PLS



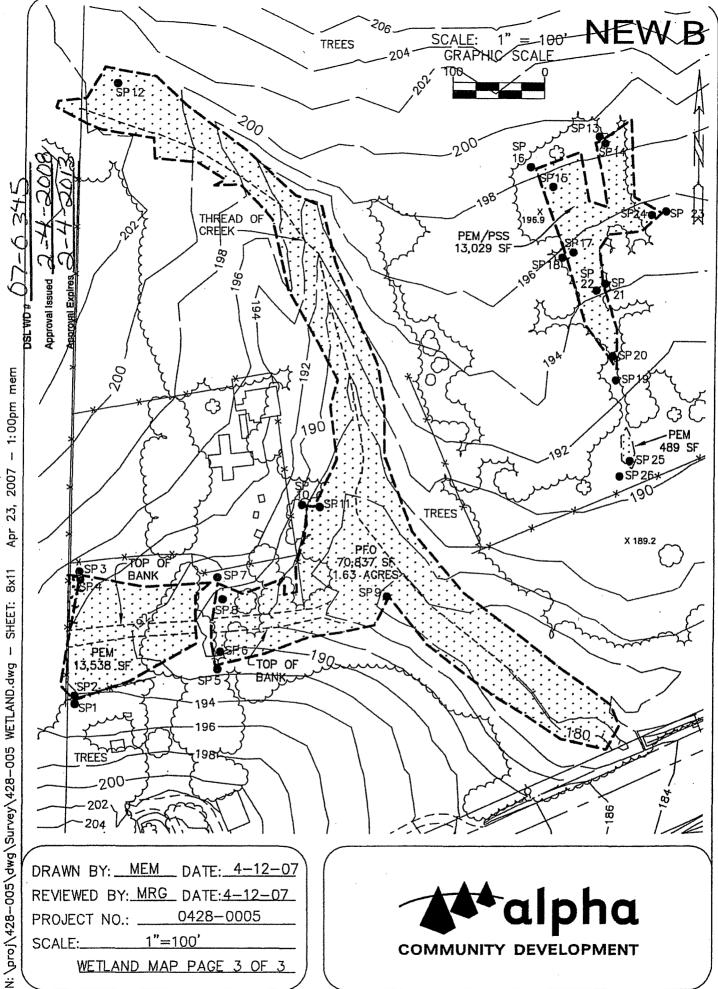


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(A) Site Description

The 30-acre project area is located on the eastern edge of Newberg in Yamhill County, Oregon (SW1/4,NE1/4 Sec. 16, T3S, R2W TL#900,1000, 1100)(Figure 1) just outside of the city limits. The southern boundary abuts city limits. The study area is west of Benjamin Road and east of Victoria Way. Hwy 99W forms the southern property boundary. The new Providence Hospital (zoned I- Institutional) is to the southwest. The three tax lots that comprise the study area are designated as Agricultural/Forestry Small Holdings (AF-10).

For the purposes of this report, the project area will be described by tax lot. Tax lot 900 is located west of Benjamin Road and north of Highway 99 West. The lot is approximately 5.7 acres and has two homes and two large barns on it. The topography has gentle to moderate slopes to the east. The majority of the property consists of horse pasture comprised of grasses and forbs that include colonial bentgrass (Agrostis stolonifera), Kentucky bluegrass (Poa pratensis), tall fescue (Festuca arundinacea) and white clover (Trifolium repens) as dominants. Ornamental species were observed around the homes.

Tax Lot 1000 is located west of tax lot 900. It is 5.8 acres and has a vet clinic and associated buildings in the center of it. The topography slopes gently to the south, southeast. Fenced pastures are located on the south and north end of the property. Dominant vegetation includes bentgrass, Kentucky bluegrass, tall fescue and orchard grass (Dactylis glomerata). Groupings of Oregon Oak (Quercus garryana) and Douglas fir (Pseudotsuga menziesii) were scattered along the northern and western property perimeter.

Tax lot 1100 is 18.5 acres and located on the west end of the study area. Topography on the west end slopes gently east to two unnamed tributaries. The mid and east section of the tax lot slopes predominantly south. There is an existing residential home on the southwest end of the property and some outbuilding north of the home. A small drainage located behind the home flows to the east and joins a larger tributary of Spring Brook Creek which flows south to the Willamette River. Three meadow communities were identified on site. The first is along the western property boundary. The second is located southeast of the residence and the third is on the south end of the tax lot. The vegetation in the meadow communities consisted of grasses and forbs that included tall fescue, Kentucky bluegrass, bentgrass, orchard grass (Dactylis glomerata), and white clover, queen Anne's lace (Daucus carota) and cat's ear (Hypochoeris radicata) as subdominants. An upland forest community was located on the northern property boundary and included Oregon oak, Douglas fir, and bigleaf maple (Acer macrophyllum).

The dominant species found in the shrub layer included Service berry (Amelanchier alnifolia), Indian plum (Oemleria cerasiformis), beaked hazelnut (Corylus cornuta) and common snowberry (Symphoricarpos albus). Sword fern (Polystichum munitum) and English ivy (Hedera helix) were the dominants in the herbaceous layer.

A forested riparian area was located adjacent to the largest tributary. The tree species in the riparian forest include Oregon ash (Fraxinus latifolia) and willow (Salix sp.) Shrub communities varied from area to area along the drainage. Portions of the shrub layer consisted of a dense layer of Himalayan blackberry interspersed with dense patches of Nookta rose (Rosa nutkana) and Douglas spiraea (Spiraea douglasii). Species identified in the herbaceous layer included slough sedge (Carex obnupta), water parsley (Oenanthe sarmentosa) and bentgrass.

The National Wetland Inventory (NWI) map for Newberg shows a tributary of Spring Brook Creek on the west end of the study area. There is no Local Wetland Inventory (LWI) for the area. The Yamhill County Soil Survey indicated two mapping units on the property that include Woodburn silt loam and Amity silt loam. The topographic map shows a site gently sloping north, northeast.

Project purpose

The site is proposed for commercial development to service the new hospital across the street and the adjacent residential areas. The developer of the site is currently applying for annexation into the city of Newberg and rezoning designation to Community Commercial.

(B) Wetland Description

Based on soil, hydrology and vegetation data taken on site two unnamed tributaries of Spring Brook Creek, and four wetlands were delineated. Two of the wetlands are adjacent to the tributaries. A 0.31 acres palustrine emergent/RFT wetland is located along a short portion of the smaller tributary on the west end of the property. The second wetland is 1.63 acres palustrine forested/RFT wetland adjacent to the remaining portion of the smaller tributary and the entire length of the larger tributary. The other two wetlands are isolated and located in the north mid-section of the property. The larger wetland is 0.29 acre and classified as palustrine emergent/scrub-shrub/slope wetland. The smaller one is 0.011 acres classified as a palustrine emergent/slope wetland.

A small seasonal drainage channel enters on the southwest end of tax lot 1100. It is the extension of a drainage located on the adjoining property to the west. The hydrology of the channel is associated with stormwater runoff from the neighborhood to the west. The drainage channel is u-shaped with a varying width of 2 to 3 feet and depth of approximately 3.5 feet. It has a mud and small cobble substrate bottom. The drainage flows east and drains into a larger tributary of Spring Brook Creek. Duckweed (Lemna

minor) was observed growing in portions of the drainage. The drainage has a defined channel for approximately 250 feet and then flattens out, draining as surface and subsurface lateral flow into the tributary of Spring Brook Creek.

A larger, unnamed perennial tributary of Spring Brook Creek enters the northwest corner of tax lot 1100 and exits the property on the south side. It flows to the south joining Spring Brook Creek on the south side of Hwy 99W. Portions of the creek are confined to a single channel while other portions of the channel are braided.

Two wetlands were identified adjacent to the two tributaries. The first is a 0.31 acre palustrine emergent (PEM/RFT) wetland. It was located on the west end of the study site where the smaller drainage entered the site. The plant community in this area is a meadow comprised of grasses and forbs. The dominant species are tall fescue and bentgrass. Hydrology for the wetland on the north and south side of the drainage is associated with precipitation, a seasonal high water table and overflow from the drainage during winter high water.

The second wetland is 1.63 acres and forested (PFO/RFT). The dominant tree in the canopy is Oregon ash (Fraxinus latifolia). The shrub layer consists of large dense patches of Douglas spirea (Spiraea douglasii) and nootka rose (Rosa nutkana). The herbaceous layer includes large patches of slough sedge (Carex obnupta) and water parsley (Oenanthe sarmentosa). Hydrology of the wetland is associated with precipitation, a seasonal high water table and overflow from the drainage during winter high water. The southern end of the drainage is fed by a perennial spring.

The other two wetlands are isolated and located in the north mid-section of the property. The larger wetland is 0.29 acres and classified as palustrine emergent/scrub-shrub/slope wetland. The dominant vegetation in the emergent portion is meadow foxtail (Alopecurus pratensis) and bentgrass (Agrostis stolonifera). The shrubs in the scrub shrub communities were nootka rose (Rosa nutkana) with scattered patches of hawthorn (Crataegus sp). The second isolated wetland is immediately below the first. It consists of a small depressional area with colonial bentgrass and meadow foxtail as the dominants.

The analysis of wetlands conducted on this site was based on published methods for implementing Section 404 of the Clean Water Act. The 1987 manual was used to satisfy the requirements of the COE on non-agricultural land. The manual requires three parameters to be examined: vegetation, soils, and hydrology. According to the 1987 manual, independent evidence of hydrophytic vegetation, hydric soils, and wetland hydrology must be present for an area to be declared a wetland. The analysis of wetlands on the project site was conducted by reviewing and analyzing existing site-specific literature and by field investigation.

(C) Site Analysis

The three tax lots that comprise the study area are designated as Agricultural/Forestry Small Holdings (AF-10). There was no evidence of alterations to the drainages observed onsite. The hydrology associated with the smaller drainage is stormwater runoff from the neighborhood to the west.

(D) Site Specific Methods

The Routine Onsite Determination Method (1987 manual, pp. 52-69) was used to determine the State of Oregon wetland boundaries and the Federal jurisdictional wetlands. The entire study area was walked and observed for wetland characteristics. Sample plots were dug and placed in areas determined to meet all wetland criteria. Adjacent plots were placed in the upland.

The first area investigated was located on the west end of the study site. A drainage swale located on the adjacent property to the west extended east into the study area. A delineation for the property to the west was conducted a year ago and is pending review by DSL. The area consists of a grazed meadow community with dominant grasses of bentgrass and fescue. Areas with wetland characteristics extend north and south of the drainage by approximately 30-40 feet. The source of hydrology for the wetland on the north and south side of the drainage is associated with precipitation, a seasonal high water table and overflow from the drainage during winter high water. The area had recently received days of heavy rain so that the ground water table was exceptionally high.

Along the north side of the swale the wetland boundary was determined predominantly by soil and hydrology since the vegetation in both wetland and upland were the same. On the south side of the swale the vegetation was the determining factor. The soil matrix color in the wetland varied between 10YR3/1 with redox concentrations of 10YR3/4 in sample plot 2 and 10YR3/2 with redox concentrations of 10YR3/6 in sample plot 4. Both sample plots had a depth to free water between 6 and 8 inches.

The upland area on the south side of the swale was determined by the vegetation. The topography was slightly higher and Himalayan blackberry formed a dense hedge. Some Douglas fir trees were planted in this area as well. On the north side of the swale the upland area did not have hydric soil or wetland hydrology.

Approximately 130 feet east of the property line a small berm built for vehicle access to the back barn area crosses the drainage and wetland area. The berm has been in place on the property well over fifty years. The drainage crosses the berm via a small culvert. It flows an additional 120 feet before it becomes an undefined channel and flows as broad sheet flow into the other tributary.

The wetland continues past the berm and is located adjacent to the tributaries. The plant community on the east side of the berm slowly transitions from a meadow into a forested community that joins the riparian community along the main tributary. Soils in this portion of the wetland (Sample plot, 8, 9 & 11) predominantly have a matrix value of 10YR3/2 with redox concentrations of 10YR3/6.

The upland edge was obvious by topography as well as vegetation and hydrology. The overstory transitioned from Oregon ash into Oregon oak and Douglas fir on the north end. Further south the vegetation in the upland riparian area had Oregon ash mixed with common snowberry (Symphoricarpos alba), beaked hazelnut (Corylus cornuta) and Himalayan blackberry. Upland soils observed along the tributaries included matrix colors of 10YR3/3 (sample plot 5), from 0 to 12 inches, 10YR4/2 (sample plot 7) and (10YR3/2) (sample plot 10). No redox concentration were observed within 10 inches and no evidence of wetland hydrology was observed.

The wetland identified in the middle of tax lot 1100 consists of an emergent and scrub shrub wetland. The majority of it is located in a clearing surrounded by dense thickets of English hawthorn, Himalayan blackberry and various overgrown fruit trees. The vegetation in the northern portion of the wetland consisted of scattered dense thickets of nootka rose (*Rosa nutkana*). Meadow foxtail was the dominant grass. The soil matrix color varied between 10YR3/2 and 10YR4/2 with redox concentrations that varied in color. The hydrology of the wetland was associated with overland sheet flow and a seasonal high water table. The wetland was hummocky with slight shift in topography along the upland edge.

The vegetation in the upland area was similar to the wetland vegetation. The upland area had a predominant soil color of 10YR3/2 with no redox concentrations (sample plot 13, 16, 18, 19, 23, 26) and no wetland hydrology.

(E) Deviation

No deviations were observed. The National Wetland Inventory (NWI) map for Newberg did not show any wetlands in the project area. It did show the tributary of Spring Brook Creek on the western portion of the study area. There is no Local Wetland Inventory (LWI) for the area.

(F) Methods of Determining Other Waters of the State

No other waters of the state were observed onsite. The top of bank was defined for the smaller tributary that flow west to east. The larger tributary had the center line mapped for the main branch of the creek, because the mid section is braided.

(G) Additional Info

None.

(H) Statement of Mapping Accuracy

The wetland boundaries were flagged and the flags were surveyed by Alpha Community Development, PLS.

(I) Date of Investigation

The site was visited on February 21 and 28, 2007.

(I) Weather

The weather on the day of the February 21 site visit was cold and rainy. The day before 0.67 inches of rain were recorded at the Forest Grove weather station. 2.48 inches of rain were recorded for the past two weeks.

The weather on the day of the February 28 site visit was cold interspersed with periods of hail, rain and sun. There was 0.26 inches of rain the day prior to the site visit. 3.21 inches of rain were recorded for the past two weeks. This is 52 percent of the average for the entire month. A total of 36.56 inches were recorded since October 1, 2006. This is 115 percent of the water year average.

(K) Results and Conclusions

The National Wetland Inventory (NWI) map did not show any onsite wetlands however it did show a tributary of Spring Brook Creek on the west end of the site. There is no Local Wetland Inventory for the Newberg area. The Yamhill County Soil Survey mapped two soil series on the subject property: Amity silt loam and Woodburn silt loam 0 to 7 percent slopes and 7 to 12 percent slopes. The Amity series is somewhat poorly drained. This soil series is not listed as hydric however it does have hydric inclusions. Some of the soil observed on site matched the Amity series.

Based on soil, hydrology and vegetation data taken on site two unnamed tributaries of Spring Brook Creek, and four wetlands were delineated. The smaller drainage is seasonal, the larger has recently developed a perennial flow. Two of the wetlands are adjacent to the tributaries. A 0.31 acres palustrine emergent/RFT wetland is located along a short portion of the smaller tributary on the west end of the property. The second wetland is 1.63 acres palustrine forested/RFT wetland adjacent to the tributaries. The other two wetlands are isolated and located in the north mid-section of the property. The larger wetland is 0.29 acre and classified as palustrine emergent/scrub-shrub/slope wetland. The smaller one is 0.011 acres classified as a palustrine emergent/slope wetland.

(L) Required Disclaimer

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

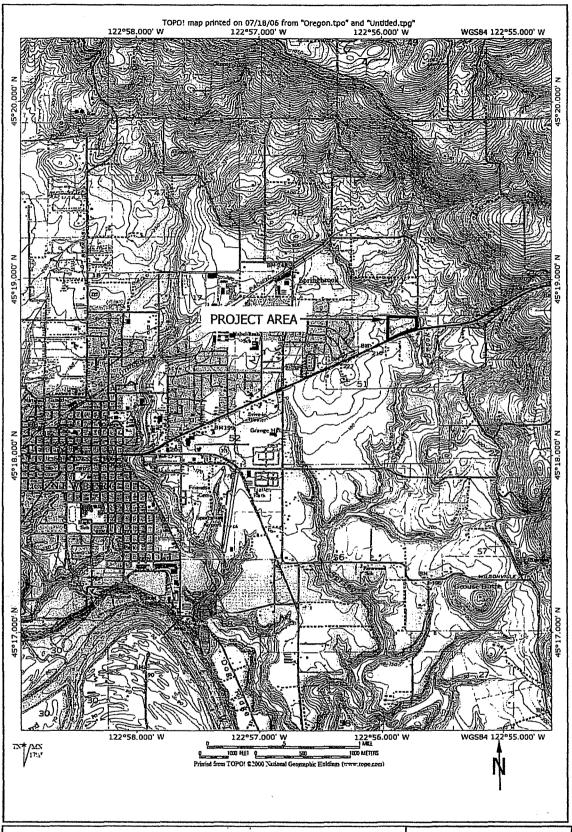


FIGURE 1. SITE VICINITY MAP S&A #1985 Schott & Associates P.O. Box 589 Aurora, OR. 97002 503.678.6007

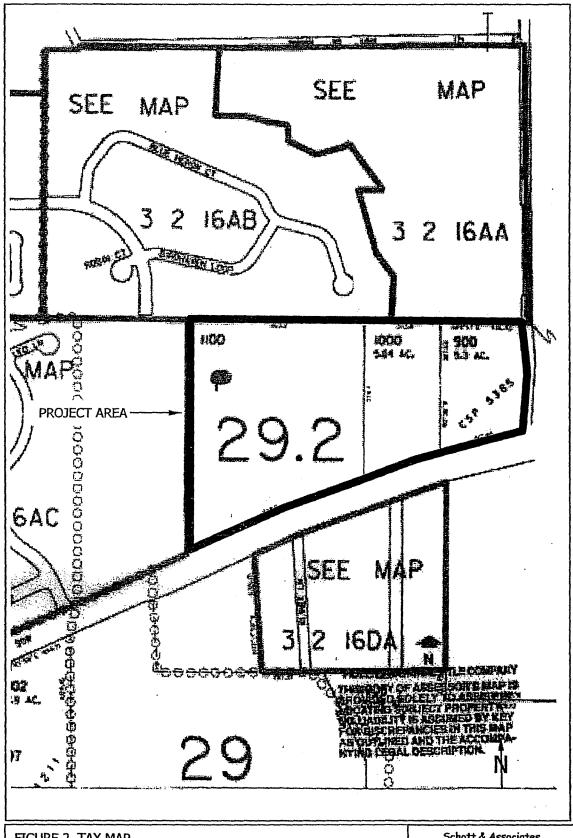


FIGURE 2. TAX MAP S&A #1985

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

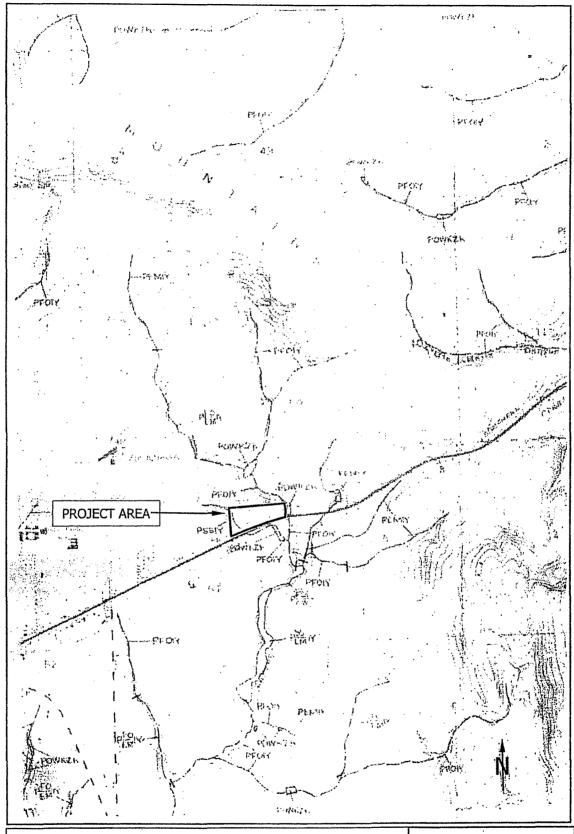
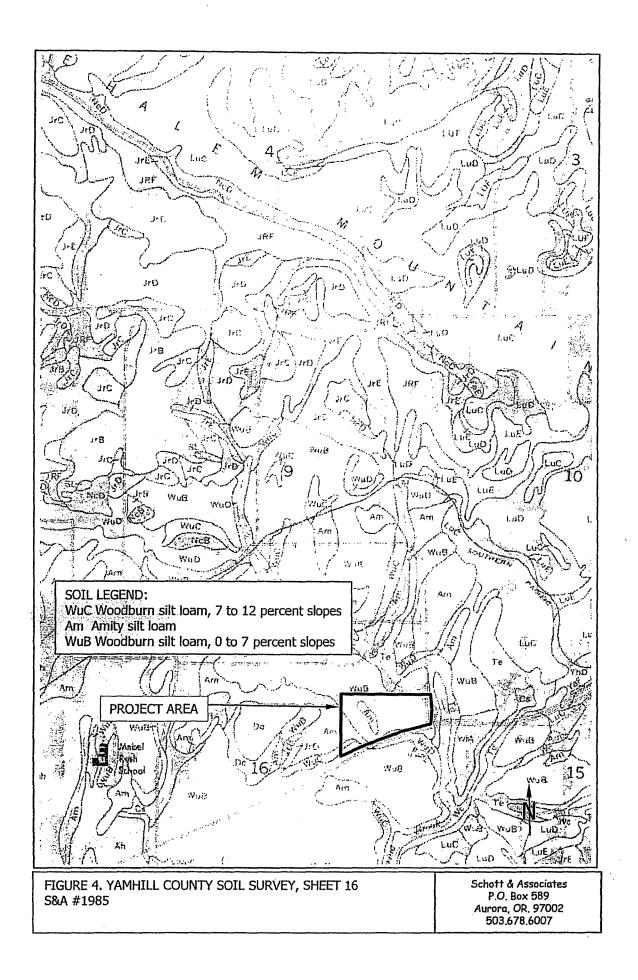


FIGURE 3. NEWBERG NWI S&A #1985

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



Data Forms

DEPARTMENT OF ST	ATE LAND	S WETLANI	DETERN	MINATION	DATA FOR	M – Qu	ick Method
County: Yamhill		ate: 2/21	City: Nev			#:1985	
Project/Contact: NewB./CS			Det. By:	C. Steinkoenig	7		
Plant Community: meadow			Plot #:1				
Plot Location: south side of swale	3						
Recent Weather: rainy and cold	tions svinta V		If1-	· •			
Do normal environmental condi Has Vegetation Se	uons exist? Y∣ oil□	⊠ N □ Hydrology □	If no, expla	ın: antly disturbed	10		
Explain:	,11	Hydrology [_]	been signific	antiy disturbet	11		
Explain.		VEG	ETATION				
Tree	Stratum				Herb Stratur	n	
Total Plot Cover:5 2	.5 = 50%	1. = 20%	Total Plot	Cover:100	50 = 5	0%	20 = 20%
		Status/Raw % Cove	er			Sta	tus/Raw % Cover
1.Pseudotsuga menziesii	F	ACU 5*		1.Festuca aru	ndinacea		FAC- 100*
2.				2.			
3.				3. 4.			
5.		70.0.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1		5.			
Sapling/Shrub Stratum		····		6.			
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1.Rubus discolor		FACU-		8.		***************************************	
2.	***************************************			9.			
3.				10.			
4.				11.			
5.				12.			<u> </u>
Hydrophytic Vegetation Indic	ators:					\ 50	
\square > 50% of dominants are OBL,		Percent of Domina	it Species that	are OBL, FACV	v, FAC (not FAC-	-):30	
Other hydrophytic vegetation indic Criteria Met? Yes No	Commenter F	Judrophytic yea	not evceeding	50 percent			
Cinteria Met. Lites Mino	Comments. 1		SOILS	, so percent.			
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On Hydric Soil List? Yes		as Hydric Inclusio					
_						T 65 /	
	rix Color		ncentrations	Redox De	epletions	Texture	
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8-16 107	R3/1	10YR3/4	CMP			CL	
						<u> </u>	
Hydric Soil Indicators:			Concretions	/Nodules (w/in 3	l" > 2mm)		
☐Histosol ☐Histic Epipedon			High organic	content in surf	ace (in Sandy Soil	s)	
Sulfidic Odor				aking (in Sandy		•	
Reducing Conditions (tests posi	tive)		Organic pan	(in Sandy Soils)		
☐Gleyed or low chroma colors		<u> </u>	Listed on H	ydric Soils List	(and soil profile m	natches)	
Redox features within 10" (e.g.,	concentrations)		Meets hydr	ic soil criteria 3	or 4 (ponded or fl	icator)	ong duration)
C	7 _	, 1	Supplement	al indicator (e.g	., NRCS field indi	icator)	
Criteria Met? X Yes \(\square\)	40	HVT	DOI OCV				
Decorded Date:		HIL	ROLOGY				
Recorded Data: Recorded Data Available	Aerial Photos	☐Stream	Gauge [Other	No Recorded	Data Avail	able
Field Data				•••			
Depth of inundation:		th to Saturation:10"		epth to Free Wa			
Primary Hydrology Indicators:		econdary Hydrolo			ired):		
Inundated		Oxidized Root Ch		12")			
Saturated in upper 12 inches		Water-stained leav					
☐Water Marks]Local Soil Survey]FAC – Neutral Te				•	
☐Drift Lines ☐Sediment Deposits]Other:	J.				
Criteria Met? Yes No	t	Comments: Reco	nt heavy rain	s and high wate	er table.		
			-				
	_	DETE	RMINATION				
WETLAND? □YES ⊠NO	Comments: Ar	ea adjacent black	berry thicket :	and higher topo	graphy.		

County: Yamhill	r	Date: 2/2		City: Nev	· · · · · · · · · · · · · · · · · · ·	File#	IVI — Quick Ivietnod
Project/Contact: NewB./C		rate, ZIZ	1		C. Steinkoenig		.170J
Plant Community: meado				Plot #:2	o. ownkothig		
Plot Location: paired with s				1 101 11.2			
Recent Weather: rainy and							
Do normal environmental			N□ II	f no, explai	n:	•	
Has Vegetation	Soil _	Hydrol			antly disturbed?		
Explain:			~ <i>6,</i> ~~	0.0			
			VEGET	ATION			
7	Tree Stratum				I	Herb Stratum	n
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2.				——————————————————————————————————————	2.Poa pratensis	- y	FAC 10
3.					3.MOSS		65
4.		***************************************			4.		
5.					5.		
Sapling/Shrub Stratum					6.		
Total Plot Cover:	= 50%	= 20%	Status/Raw	% Cover	7.		
1.					8.		
2.					9.		
3.					10.		
4.					11.		
5.					12.		
Hydrophytic Vegetation	Indicators:	·			***************************************		
> 50% of dominants are Other hydrophytic vegetation		Percent of	f Dominant S	pecies that	are OBL, FACW,	FAC (not FAC-)	:100
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On Hydric Soil List?			c Inclusions'				
On Trydric bon bist:	105 23 110	140 11) 411	o mioradione	. 23 100 1			
Depth Range of Horizon	Matrix Color						•
	Man X Color	I	Redox Conc	entrations	Redox Depl	etions	Texture
0-7	10YR3/1		Redox Conc 10YR3/4 FF		Redox Depl	etions	Si CL
7-16]		F	Redox Depl	etions	
	10YR3/1]	10YR3/4 FF	F	Redox Depl	etions	Si CL
7-16 Hydric Soil Indicators:	10YR3/1]	10YR3/4 FF 10YR3/4 CF	F FD			Si CL
7-16	10YR3/1]	0YR3/4 FF 10YR3/4 CF □0	FD Concretions/	Nodules (w/in 3",	> 2mm)	Si CL CL
7-16 Hydric Soil Indicators:	10YR3/1]	0YR3/4 FF 10YR3/4 CF □C	F Concretions/	Nodules (w/in 3", content in surface	> 2mm) (in Sandy Soils	Si CL CL
7-16 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor	10YR3/1 10YR3/1]	0YR3/4 FF 10YR3/4 CF □C □F	FD Concretions/ High organic Organic strea	Nodules (w/in 3", content in surface king (in Sandy So	> 2mm) (in Sandy Soils	Si CL CL
Hydric Soil Indicators: ☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test	10YR3/1 10YR3/1]	OYR3/4 FF OYR3/4 CF OYR3/4 CF O	FD Concretions/ High organic Organic streat Organic pan	Nodules (w/in 3", content in surface king (in Sandy So (in Sandy Soils)	> 2mm) (in Sandy Soils ils)	Si CL CL
Hydric Soil Indicators: ☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test ☐Gleyed or low chroma col	10YR3/1 10YR3/1 ts positive)		OYR3/4 FF OYR3/4 CF OYR3/4 CF O O	FD Concretions/ High organic Organic streat Organic pan Listed on Hy	Nodules (w/in 3", content in surface king (in Sandy So (in Sandy Soils) ydric Soils List (an	> 2mm) (in Sandy Soils ils) d soil profile ma	Si CL CL)
Hydric Soil Indicators: ☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test	10YR3/1 10YR3/1 ts positive)		OYR3/4 FF OYR3/4 CF OYR3/4 CF OC OC OC OC OC OC OC OC	Concretions/ Eigh organic Organic streat Organic pan Listed on Hy Meets hydri	Nodules (w/in 3", content in surface king (in Sandy So (in Sandy Soils) ydric Soils List (an c soil criteria 3 or	> 2mm) (in Sandy Soils ils) d soil profile ma (ponded or flo	Si CL CL) atches) oded for long duration)
Hydric Soil Indicators: ☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test ☐Gleyed or low chroma col ☐Redox features within 10'	10YR3/1 10YR3/1 ts positive)		OYR3/4 FF OYR3/4 CF OYR3/4 CF OC OC OC OC OC OC OC OC	Concretions/ Eigh organic Organic streat Organic pan Listed on Hy Meets hydri	Nodules (w/in 3", content in surface king (in Sandy So (in Sandy Soils) ydric Soils List (an	> 2mm) (in Sandy Soils ils) d soil profile ma (ponded or flo	Si CL CL) atches) oded for long duration)
Hydric Soil Indicators: ☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (test ☐Gleyed or low chroma col	10YR3/1 10YR3/1 is positive) ors '(e.g., concentrations)		OYR3/4 FF OYR3/4 CF OYR3/4 CF OC OC OC OC OC OC OC OC	Concretions/ Eigh organic Organic strea Organic pan Listed on Hy Meets hydri Supplementa	Nodules (w/in 3", content in surface king (in Sandy So (in Sandy Soils) ydric Soils List (an c soil criteria 3 or	> 2mm) (in Sandy Soils ils) d soil profile ma (ponded or flo	Si CL CL) atches) oded for long duration)
7-16 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10° Criteria Met? Yes Recorded Data:	10YR3/1 10YR3/1 ts positive) ors '(e.g., concentrations) No		OYR3/4 FF OYR3/4 CF	Concretions/ Eigh organic Organic strea Organic pan Listed on Hy Meets hydri Supplements	Nodules (w/in 3", content in surface king (in Sandy So (in Sandy Soils) ydric Soils List (an c soil criteria 3 or al indicator (e.g.,)	> 2mm) (in Sandy Soils ils) Id soil profile ma (ponded or flo	Si CL CL) atches) oded for long duration) ator)
7-16 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10' Criteria Met? Yes Recorded Data: Recorded Data Available	10YR3/1 10YR3/1 is positive) ors '(e.g., concentrations)		OYR3/4 FF OYR3/4 CF OYR3/4 CF O O O O	Concretions/ Eigh organic Organic strea Organic pan Listed on Hy Meets hydri Supplements	Nodules (w/in 3", content in surface king (in Sandy So (in Sandy Soils) ydric Soils List (an c soil criteria 3 or al indicator (e.g., 1	> 2mm) (in Sandy Soils ils) d soil profile ma (ponded or flo	Si CL CL) atches) oded for long duration) ator)
7-16 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10° Criteria Met? Yes Recorded Data: Recorded Data Available Field Data	10YR3/1 10YR3/1 ts positive) ors '(e.g., concentrations) No		OYR3/4 FF OYR3/4 CF	Concretions/ Figh organic Organic strea Organic pan Listed on Hy Meets hydri Supplementa OLOGY uge	Nodules (w/in 3", content in surface king (in Sandy Soils) ydric Soils List (and c soil criteria 3 or al indicator (e.g.,)	> 2mm) (in Sandy Soils ils) Id soil profile ma (ponded or flo NRCS field indic	Si CL CL) atches) oded for long duration) ator)
7-16 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10° Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation:	10YR3/1 10YR3/1 ts positive) ors '(e.g., concentrations) No Aerial Photos Der	oth to Satu	OYR3/4 FF OYR3/4 CF	Concretions/ High organic organic streat Organic pan Listed on Hy Meets hydri Supplementa DLOGY uge De	Nodules (w/in 3", content in surface king (in Sandy Soils) ydric Soils List (and c soil criteria 3 or al indicator (e.g.,) Other	> 2mm) (in Sandy Soils ils) Id soil profile made or flood on the soil profile made or flood on the soil profile indicate of the soil of th	Si CL CL) atches) oded for long duration) ator)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10' Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indica	10YR3/1 10YR3/1 ts positive) ors '(e.g., concentrations) No Aerial Photos Deptors:	oth to Satu	OYR3/4 FF OYR3/4 CF OC OF OCCOO	Concretions/ High organic Organic strea Organic pan Listed on Hy Meets hydri Supplementa OLOGY uge De Indicators (Nodules (w/in 3", content in surface king (in Sandy Soils) ydric Soils List (and c soil criteria 3 or al indicator (e.g., f) Other Other or more required	> 2mm) (in Sandy Soils ils) Id soil profile made or flood on the soil profile made or flood on the soil profile indicate of the soil of th	Si CL CL) atches) oded for long duration) ator)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10° Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indication	10YR3/1 10YR3/1 ts positive) ors '(e.g., concentrations) No Aerial Photos Depletors:	oth to Satur	OYR3/4 FF OYR3/4 CF	Concretions/ High organic Organic strea Organic pan Listed on Hy Meets hydri Supplementa OLOGY uge De Indicators (Nodules (w/in 3", content in surface king (in Sandy Soils) ydric Soils List (and c soil criteria 3 or al indicator (e.g., f) Other Other or more required	> 2mm) (in Sandy Soils ils) Id soil profile made or flood on the soil profile made or flood on the soil profile indicate of the soil of th	Si CL CL) atches) oded for long duration) ator)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10' Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indica	10YR3/1 10YR3/1 10YR3/1 is positive) ors '(e.g., concentrations) No Aerial Photos tors:	oth to Satur Secondary ☑Oxidizec ☐Water-st	OYR3/4 FF OYR3/4 CF OYR3/4 CF OYR3/4 CF OYR3/4 FF OYR	Concretions/ ligh organic organic strea organic pan Listed on Hy Meets hydri Supplementa DLOGY uge De Indicators (els (upper 1)	Nodules (w/in 3", content in surface king (in Sandy Soils) ydric Soils List (and c soil criteria 3 or al indicator (e.g., f) Other Other or more required	> 2mm) (in Sandy Soils ils) Id soil profile made or flood on the soil profile made or flood on the soil profile indicate of the soil of th	Si CL CL) atches) oded for long duration) ator)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10' Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl	10YR3/1 10YR3/1 10YR3/1 is positive) ors '(e.g., concentrations) No Aerial Photos tors: ters:	oth to Satur Secondary Oxidized Water-st	OYR3/4 FF OYR3/4 CF O O O H O Stream Ga ration:2" Hydrology I Root Chann	Concretions/ ligh organic organic strea organic pan Listed on Hy Meets hydri Supplementa DLOGY uge De Indicators (els (upper 1)	Nodules (w/in 3", content in surface king (in Sandy Soils) ydric Soils List (and c soil criteria 3 or al indicator (e.g., f) Other Other or more required	> 2mm) (in Sandy Soils ils) Id soil profile made or flood on the soil profile made or flood on the soil profile indicate of the soil of th	Si CL CL) atches) oded for long duration) ator)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10' Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl Water Marks	10YR3/1 10YR3/1 10YR3/1 is positive) ors '(e.g., concentrations) No Aerial Photos tors: ters:	oth to Satur Secondary Oxidized Water-st	OYR3/4 FF OYR3/4 CF OYR3/4 CF OYR3/4 CF OYR3/4 CF OYR3/4 FF OYR3/4 CF OYR3/4	Concretions/ ligh organic organic strea organic pan Listed on Hy Meets hydri Supplementa DLOGY uge De Indicators (els (upper 1)	Nodules (w/in 3", content in surface king (in Sandy Soils) ydric Soils List (and c soil criteria 3 or al indicator (e.g., f) Other Other or more required	> 2mm) (in Sandy Soils ils) Id soil profile made or flood on the soil profile made or flood on the soil profile indicate of the soil of th	Si CL CL) atches) oded for long duration) ator)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10' Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl Water Marks Drift Lines	10YR3/1 10YR3/1 10YR3/1 Is positive) ors '(e.g., concentrations) No Aerial Photos tors: ters: E	oth to Satur Secondary Oxidized Water-st Local So FAC - N	OYR3/4 FF OYR3/4 CF OYR3/4 CF OYR3/4 CF OYR3/4 FF OYR3/4 CF OYR3/4	Concretions/ High organic Organic strea Organic pan Listed on Hy Meets hydri Supplementa OLOGY uge De Indicators (els (upper 1	Nodules (w/in 3", content in surface king (in Sandy Soils) ydric Soils List (and c soil criteria 3 or al indicator (e.g., f) Other Other or more required	> 2mm) (in Sandy Soils ils) Id soil profile made or flood on the soil profile made or flood on the soil profile indicate of the soil of th	Si CL CL) atches) oded for long duration) ator)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10' Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl Water Marks Drift Lines Sediment Deposits	10YR3/1 10YR3/1 10YR3/1 Is positive) ors '(e.g., concentrations) No Aerial Photos tors: ters: E	oth to Satur Secondary Oxidized Water-st Local So FAC - N	OYR3/4 FF OYR3/4 CF OYR3/4 CF OYR3/4 CF OYR3/4 FF OYR3/4 CF OYR3/4	Concretions/ High organic Organic strea Organic pan Listed on Hy Meets hydri Supplements OLOGY uge De Indicators (els (upper I ta	Nodules (w/in 3", content in surface king (in Sandy Soils) ydric Soils List (and c soil criteria 3 or al indicator (e.g.,) Other Other pth to Free Water: 2 or more required 2")	> 2mm) (in Sandy Soils ils) Id soil profile made or flood on the soil profile made or flood on the soil profile indicate of the soil of th	Si CL CL) atches) oded for long duration) ator)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10' Criteria Met? Yes Recorded Data: Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl Water Marks Drift Lines Sediment Deposits	10YR3/1 10YR3/1 10YR3/1 Is positive) ors '(e.g., concentrations) No Aerial Photos Deptors: Solution: No No No	oth to Satur Secondary Oxidized Water-st Local So FAC - N Other:	OYR3/4 FF OYR3/4 CF OYR3/4 CF OYR3/4 CF OYR3/4 CF OYR3/4 FF OYR3/4 CF OYR3/4	Concretions/ High organic Organic strea Organic pan Listed on Hy Meets hydri Supplementa OLOGY uge De Indicators (els (upper 1	Nodules (w/in 3", content in surface king (in Sandy Soils) ydric Soils List (and c soil criteria 3 or al indicator (e.g.,) Other Other pth to Free Water: 2 or more required 2")	> 2mm) (in Sandy Soils ils) Id soil profile made or flood on the soil profile made or flood on the soil profile indicate of the soil of th	Si CL CL) atches) oded for long duration) ator)

DEPARTMENT O	F STATE LAN	IDS WE	TLAND I	ETERN	MINATION	DATA FOR	M – Qui	ick Method	
County: Yamhill		Date: 2/2		City: Nev	wberg		:1985		
Project/Contact: NewB./C					C. Steinkoenig				
Plant Community: meado				Plot #:3					
Plot Location: North side of									
Recent Weather: rainy and cold									
Do normal environmental conditions exist? Y N I If no, explain:									
Has Vegetation	Soil□	Hydrol	ogy 📙 be	en signific	antly disturbed	?			
Explain:									
<u>VEGETATION</u>									
	Tree Stratum		:			Herb Stratur	n		
Total Plot Cover:0	0 = 50%	0 = 20%		Total Plot	Cover:100	50 = 50	0%	20 = 20%	
		Status/Ra	w % Cover				Sta	tus/Raw % Cover	
1.					1.Agrostis stol			FAC 80*	
2.				····	2.Festuca arui			FAC- 15	
3.					3.Trifolium rej			FACU+ 5	
4. 5.					4.Daucus card 5.Geranium ri			NOL trace	
								trace	
Sapling/Shrub Stratum	500/	000/	1 a	W 0	6.Hypochoer	is radicata		trace	
Total Plot Cover:	= 50%	= 20%	Status/Raw	% Cover	7.				
1.			<u> </u>		8.	•			
2.		<u> </u>	ļ		9.				
3.					10.				
4.					11.				
5.	Y		<u> </u>		12.				
Hydrophytic Vegetation	Indicators:	Document of	fD: 6		ODI EACU	PAC (==+ PAC	\.100		
Other hydrophytic vegetation		. Percent o	Dominant 3	pecies man	are odl, fac w	, FAC (HOLFAC-):100		
Criteria Met? Yes		Hydrophy	tic veg exc	eeds 50 ne	rcent				
Criteria Met. Marca	J110 Comments			ILS	100111.				
Map Unit Name: Amity si	lt loam	Drainage (Class: Some		v drained				
On Hydric Soil List?			c Inclusions						
Depth Range of Horizon	Matrix Color		Redox Conc	entrations	Redox De	pletions	Texture		
0-12	10YR3/2		Vone				CL L		
12-16	10YR4/2		10YR4/4 CO	CP			SI CI		
							L		
Hydric Soil Indicators:									
☐Histosol					Nodules (w/in 3'				
Histic Epipedon						ce (in Sandy Soil:	5)		
Sulfidic Odor					aking (in Sandy S	Soils)			
Reducing Conditions (test			님!	organic pan	(in Sandy Soils)	and soil profile m	atchec)		
☐Gleyed or low chroma col ☐Redox features within 10"		-)				or 4 (ponded or flo		ng duration)	
	(c.g., concontrations	•)				NRCS field indi			
Criteria Met? Yes	⊠ No			oupp.oo	<i>,,,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Cittoria litet.			HYDRO	DLOGY	•				
Recorded Data:				-					
Recorded Data Available	Aerial Photo	s [∃Stream Ga	uge [Other	No Recorded	Data Availa	ible	
Field Data									
Depth of inundation:	D	epth to Satu			Depth to Free V				
Primary Hydrology Indicat	tors:				(2 or more requir	ed):			
☐Inundated			Root Chann	els (upper 1	2")				
Saturated in upper 12 inch	nes		ained leaves	ta					
☐ Water Marks ☐ Drift Lines			il Survey Da leutral Test	ıa					
Sediment Deposits		Other:	ounai 163t						
Criteria Met? Yes	l No	Comme	ents: .				•		
Cinteria liter: [13 c3 [2	7 1 V	Commit				•			
	_			UNATION		•			
WETLAND? □YES ☒	NO Comments:]	No wetland	soils or hydi	ology.					

DEPARTMENT O	F STATE LAI							ick Method
County: Yamhill		Date: 2/2	1	City: Nev			e #:1985	
Project/Contact: NewB./C					C. Steinkoen	ig		
Plant Community: meado				Plot #:4				
Plot Location: Paired with								
Recent Weather: rainy and	1 COIO	V/52		c 1.				
Do normal environmental				f no, explai		10		
Has Vegetation	Soil	Hydrol	ogy 🔲 be	en signific	antly disturbe	ed?		
Explain:			MORE	AMMAN				
	n o		VEGET	ATION			···········	
]	Tree Stratum					Herb Strat	um	
			 					
Total Plot Cover:0	0 = 50%	0 = 20%		Total Plot	Cover:100	50 =	= 50%	20 = 20%
<u> </u>		Status/Ra	w % Cover	<u> </u>	T 1 4	4.1 :C	Sta	atus/Raw % Cover
1. 2.					1 Agrostis si 2.Festuca ai			FAC 80*
3.					3.Moss	<u>ипатасеа</u>		FAC- 15 NI 20
4.		<u> </u>			4.Daucus ca	rota		NOL trace
5.						richardsonii		trace
Sapling/Shrub Stratum		l			6.			
Total Plot Cover:	= 50%	= 20%	Status/Ray	% Cover	7.		·····	
1.	3070		- Ctatob/2tav	70 00101	8.			
2.					9.			
3.					10.			
4.					11.		*	
5.					12.			
Hydrophytic Vegetation	Indicators	J#-######	J		1 12.	······································		
> 50% of dominants are		C Percent o	f Dominant S	neries that	are OBL FAC	W FAC (not FA	C-)·100	
Other hydrophytic vegetation	indicators:	C I CICOTI O		pecies that	mo ODD, 1710	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Criteria Met? ∑Yes ☐	No Comments	: Hydrophy	tic veg. exc	eeds 50 pe	rcent.			
	•		-	ILS [^]				
Map Unit Name: Amity si	lt loam	Drainage C	Class: Some		y drained			
On Hydric Soil List? 🔲			c Inclusions					
•		-						
Depth Range of Horizon	Matrix Color)	Redox Conc	entrations	Redox D	Depletions	Texture	
0-12	10YR3/2		10YR3/6 FF				CLL	
12-18	10YR4/2		10YR4/6 CI	VID			SI CI	
Hydric Soil Indicators:								
Histosol					Nodules (w/in			
☐Histic Epipedon						face (in Sandy So	oils)	
Sulfidic Odor					king (in Sand			
Reducing Conditions (test					(in Sandy Soil	s) t (and soil profile	- motobao)	
☐Gleyed or low chroma col ☐Redox features within 10'		ic)				or 4 (ponded or		one duration)
Medox features within 10	(e.g., concentration	13)				g., NRCS field in		ong daranon,
Criteria Met? 🛛 Yes	No	•	٠ لسا	опррими	ar maioaio, (o.	6.,		
OTTOTIM HITOET NA 100	L. 10		HVDR	OLOGY				
Recorded Data:			2112/11	<u>JDUUX</u>				
Recorded Data Available	Aerial Photo	os I	Stream Ga	uge [Other	No Recorde	ed Data Avail	able
Field Data				_				
Depth of inundation:	D	epth to Satu			pth to Free Wa			
Primary Hydrology Indicat	tors:	Secondary	Hydrology	Indicators (2 or more requ	iired):		
☐Inundated			l Root Chann	els (upper 1	2")			
Saturated in upper 12 incl	nes	=	ained leaves					
Water Marks			oil Survey Da	ta				
Drift Lines		==	leutral Test					
Sediment Deposits	7 m.	Other:	4					
Criteria Met? ⊠Yes [T 140	Comme	ents: .					
			DETERM	<u>IINATION</u>				
WETLAND? ⊠YES [NO Comments:	Wetland Cr				•		

Date: 2/21 City, Newberg	DEPARTMENT O	F STATE LAI							ick Method		
Plant Cormunity: Serub-shrub Plot #.5	County: Yamhill		Date: 2/2	1				#:1985			
Plot Location: South side of tributary. Recent Weather: miny and cold						C. Steinkoen	ig				
Recent Weather: rainy and cold Do normal environmental conditions exist? Y N If no, explain: Bay Vegetation Soil Soil Hydrology been significantly disturbed?					Plot #:5						
Do normal environmental conditions exist? Y											
Has Vegetation Soil											
Tree Stratum											
Tree Stratum											
Total Plot Cover.45	•										
Malus sp.]	Tree Stratum			,		Herb Stratu	m			
Molt. 30° Lagrantis statentifera FAC 25°	Total Plot Cover:45	22.5 = 50%			Total Plot	Cover:100	50 = 5				
PACU+ 15* 2. Festurea arundinacea PAC- 50*	1.16-1			w % Cover		1 4 7		Sta			
3. Declytis glomerata				*							
4. 4. 5. 5. 5. 5. 5. 5.			FACUT IS	· · · · · · · · · · · · · · · · · · ·							
5. 5.							ioniei aiu		TACU ZJ		
Sapling/Shrub Stratum					······						
Total Piet Cover.20 10=50% 4=20% Status/Raw % Cover 7.	Sapling/Shrub Stratum										
Rabus discolor		10= 50% 4=	20%	Status/Raw	% Cover						
2.)·····································	······································									
10. 11. 12.	l										
11. 12. 12. 12. 12.											
12. Hydrophytic Vegetation Indicators:		***************************************	· · · · · · · · · · · · · · · · · · ·	1	······································						
Hydrophytic Vegetation Indicators: S0% of dominants are OBL, FACW or FAC Percent of Dominant Species that are OBL, FACW, FAC (not FAC-):40 Other hydrophytic vegetation indicators: Criteria Met? Yes No Comments: Hydrophytic veg does not exceed 50%. FEAR used as FAC veg.											
S 50% of dominants are OBL, FACW or FAC Percent of Dominant Species that are OBL, FACW, FAC (not FAC-):40 Other hydrophytic vegetation indicators: Criteria Met? Yes No Comments: Hydrophytic veg does not exceed 50%. FEAR used as FAC veg. SOLS Map Unit Name: Arnity silt loam Drainage Class: Somewhat poorly drained On Hydric Soil List? Yes No Has Hydric Inclusions? Yes No Depth Range of Horizon Matrix Color Redox Concentrations Redox Depletions Texture 0-12 10YR3/3 None CL L 12-16 10YR3/4 Sl C Hydric Soil Indicators: Concretions/Nodules (w/in 3", > 2mm) Histosol High organic content in surface (in Sandy Soils) Reducing Conditions (tests positive) Organic streaking (in Sandy Soils) Redox features within 10" (e.g., concentrations) Meets hydric soil Stift (and soil profile matches) Recorded Data Available Aerial Photos Stream Gauge Other No Recorded Data Available Field Data Depth to finundation: Depth to Saturation: Depth to Free Water: 14" Saturated in upper 12 inches Mater-stained leaves Water Marks Dirif Lines Godon: Secondary Hydrology Indicators (2 or more required): Oxidized Root Channels (upper 12") Water-stained leaves Godon: Comments: Depth to free water in pit at 14 inches. DETERMINATION	Hydrophytic Vegetation	Indicators:				, <u> </u>			3		
Criteria Met?	☐ > 50% of dominants are	OBL, FACW or FAC	C Percent of	f Dominant S	pecies that	are OBL, FAC	W, FAC (not FAC	-):40			
Map Unit Name: Amity silt loam On Hydric Soil List?	Other hydrophytic vegetation	indicators:									
Map Unit Name: Amity silt loam On Hydric Soil List?	Criteria Met? ∐Yes ⊠	No Comments	: Hydrophy	tic veg does	not excee	d 50%. FEAI	R used as FAC ve	eg.			
Depth Range of Horizon Matrix Color Redox Concentrations Redox Depletions Texture 0-12 10 YR3/3 None CL L 12-16 10 YR3/4 SI Cl Hydric Soil Indicators: Histosol Concretions/Nodules (w/in 3", > 2mm) Histic Epipedon High organic content in surface (in Sandy Soils) Gleyed or low chroma colors Corganic streaking (in Sandy Soils) Gleyed or low chroma colors Metric Hydric Soil Listed on Hydric Soil List (and soil profile matches) Grecorded Data: Recorded Data Available Aerial Photos Stream Gauge Other No Recorded Data Available Recorded Data in upper 12 inches Water-stained leaves Dufft Lines PFAC - Neutral Test Comments: Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches. Determinations Depth to free water in pit at 14 inches.											
Depth Range of Horizon Matrix Color Redox Concentrations Redox Depletions Texture 0-12 10YR3/3 None CL L 12-16 10YR3/4 SI CI Hydric Soil Indicators: Histosol											
D-12	On Hydric Soil List?	Yes 🔀 No	Has Hydric	inclusions	Yes I	1/10					
Hydric Soil Indicators: Histosol	Depth Range of Horizon	Matrix Color	F	Redox Conc	entrations	Redox D	epletions				
Hydric Soil Indicators: Histosol	0-12	10YR3/3	1	Vone							
Histosol	12-16	10YR3/4						SI CI			
Histosol											
Histic Epipedon	Hydric Soil Indicators:										
Sulfidic Odor							•				
Reducing Conditions (tests positive)								ls)			
Gleyed or low chroma colors											
Redox features within 10" (e.g., concentrations)		•		H	rganic pan	(III Salidy Soli	s) (and soil profile r	natches)			
Supplemental indicator (e.g., NRCS field indicator) Criteria Met? Yes No HYDROLOGY Recorded Data: Recorded Data Available			s)						ng duration)		
Recorded Data: Recorded Data Available Aerial Photos Stream Gauge Other No Recorded Data Available Field Data Depth of inundation: Depth to Saturation: Depth to Free Water:14" Primary Hydrology Indicators: Secondary Hydrology Indicators (2 or more required): Inundated Oxidized Root Channels (upper 12") Saturated in upper 12 inches Water-stained leaves Water Marks I Local Soil Survey Data Drift Lines FAC – Neutral Test Sediment Deposits Other: Criteria Met? Yes No Comments: Depth to free water in pit at 14 inches.		(0.6., 0000	٠, .						,		
Recorded Data: Recorded Data Available Aerial Photos Stream Gauge Other No Recorded Data Available Field Data Depth of inundation: Depth to Saturation: Depth to Free Water:14" Primary Hydrology Indicators: Secondary Hydrology Indicators (2 or more required): Inundated Oxidized Root Channels (upper 12") Saturated in upper 12 inches Water-stained leaves Water Marks I Local Soil Survey Data Drift Lines FAC – Neutral Test Sediment Deposits Other: Criteria Met? Yes No Comments: Depth to free water in pit at 14 inches.	Criteria Met? Yes	⊠ No				•	-	•			
Recorded Data Available				HYDRO	DLOGY						
Field Data Depth of inundation: Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Criteria Met? Yes No Depth to Saturation: Depth to Free Water:14" Secondary Hydrology Indicators (2 or more required): Water-stained leaves Water-stained leaves Local Soil Survey Data FAC - Neutral Test Other: Comments: Depth to free water in pit at 14 inches.				٦		٠	K71 31 . 5	170-4- 4 W	1.1.		
Depth of inundation: Primary Hydrology Indicators: Inundated Secondary Hydrology Indicators (2 or more required): Oxidized Root Channels (upper 12") Saturated in upper 12 inches Water Marks Local Soil Survey Data Drift Lines FAC - Neutral Test Sediment Deposits Criteria Met? Yes No Depth to Free Water:14" Secondary Hydrology Indicators (2 or more required): Secondary Hydrology Indicators (2 or more required): Sediment Sequired Oxidized Root Channels (upper 12") Water-stained leaves Local Soil Survey Data Other: Comments: Depth to free water in pit at 14 inches.		Aerial Photo	s L	_ Stream Gar	ige L	_] Other	No Recorded	Data Availa	pic		
Primary Hydrology Indicators: Secondary Hydrology Indicators (2 or more required): □Inundated □Oxidized Root Channels (upper 12") □Saturated in upper 12 inches □Water-stained leaves □Local Soil Survey Data □Drift Lines □Drift Lines □FAC − Neutral Test □Sediment Deposits □Other: Criteria Met? □Yes ☒ No Comments: Depth to free water in pit at 14 inches. DETERMINATION	*************************************	ח	enth to Satur	ation		Denth to Free	Water-14"				
□ Inundated □ Oxidized Root Channels (upper 12") □ Saturated in upper 12 inches □ Water-stained leaves □ Water Marks □ Local Soil Survey Data □ Drift Lines □ FAC – Neutral Test □ Sediment Deposits □ Other: Criteria Met? □ Yes □ No Comments: Depth to free water in pit at 14 inches. DETERMINATION					ndicators (
Saturated in upper 12 inches Water Marks □Local Soil Survey Data □Drift Lines □FAC - Neutral Test □Sediment Deposits □Other: Criteria Met? □Yes ☑ No DETERMINATION		.013.									
Water Marks □ Local Soil Survey Data □ Drift Lines □ FAC – Neutral Test □ Sediment Deposits □ Other: Criteria Met? □ Yes □ No Comments: Depth to free water in pit at 14 inches. DETERMINATION	*********	ies			- California	,					
Sediment Deposits □Other: Criteria Met? □Yes ☒ No Comments: Depth to free water in pit at 14 inches. DETERMINATION		•			a						
Criteria Met? Yes No Comments: Depth to free water in pit at 14 inches. DETERMINATION	☐Drift Lines		☐FAC-N								
<u>DETERMINATION</u>			_				•				
	Criteria Met? LYes	J No	Comme	nts: Depth t	free water	r in pit at 14 ii	nches.				
	,			אנמתיינת	INATION						
	WETTANDS THE	NO Comments:	Wetland crit	-			•				

DEPARTMENT OF	STATE LANI	DS WETLAND	DETERM	IINATION DATA	FORM – Qu	ick Method
County: Yamhill		Date: 2/21	City: Nev		File #:1985	
Project/Contact: NewB./CS				C. Steinkoenig	· · · · · · · · · · · · · · · · · · ·	
Plant Community: meadow			Plot #:6			
Plot Location: Paired with san						
Recent Weather: rainy and c						
Do normal environmental co		'⊠ N 🗆	If no, explai	n:		
Has Vegetation	Soil			antly disturbed?		
Explain:	**************************************	, ,,	J	,		
•		VEGE'	FATION			
Tre	ee Stratum			Herb S	Stratum	
Total Plot Cover:0	= 50%	= 20%	Total Plot	Cover:100	50 = 50%	20 = 20%
	<u> </u>	Status/Raw % Cover				atus/Raw % Cover
1.				1 Agrostis stolonifera		FAC 25*
2.				2.Festuca arundinacea		FAC- 50*
3.				3.Dactylis glomerata		FACU 25*
4.				4.		
5.				5.		
Sapling/Shrub Stratum				6.		
Total Plot Cover:	= 50%	= 20% Status/Ray	w % Cover	7.		
1.			× •••••••••• ••••••	8.		
2.				9.		
3.				10.		
4.				11.		
5.				12.		
Hydrophytic Vegetation In	dicators:	D 4 CD	0	. ODI	FAC \-CC	
≥ 50% of dominants are OI	3L, FACW or FAC	Percent of Dominant	Species that a	are OBL, FACW, FAC (n	ot FAC-):66	
Other hydrophytic vegetation in	idicators:	TT-ul-a-bretia van arra		CEAD wood on EAC was	_	
Criteria Met? Xes 1	vo Comments:			FEAR used as FAC VE	5 .	
B. C. S. T. La B. T	1		<u>OLS</u>	. dualmod		
Map Unit Name: Amity silt		Orainage Class: Some				
On Hydric Soil List? TYe	s M No F	las Hydric Inclusion	s: Mrest] 1/10		
Depth Range of Horizon 1	Matrix Color	Redox Con	centrations	Redox Depletions	Texture	
	10YR4/1	10YR4/4 F		Redex Depictions	Si CL	
	10 TR4/1 10 YR3/4	1011(4/41)	עיו		SI CI	· · · · · · · · · · · · · · · · · · ·
11-15	:01ICJ/4					
YIndaia Cail Indiantana						
Hydric Soil Indicators: ☐Histosol		П	Concretions	Nodules (w/in 3", > 2mm	١	•
Histic Epipedon				content in surface (in Sa		
Sulfidic Odor				king (in Sandy Soils)	,	
Reducing Conditions (tests)	oositive)			(in Sandy Soils)		
Gleyed or low chroma colors				dric Soils List (and soil p	orofile matches)	
Redox features within 10" (6				c soil criteria 3 or 4 (pond		ong duration)
			Supplementa	al indicator (e.g., NRCS f	ield indicator)	
Criteria Met? 🛛 Yes 🗌	_] No					
		<u>HYDR</u>	<u>OLOGY</u>			•
Recorded Data:		ГПо	r-	7 Out 177 N - D	Ind Data Aviati	I=1-1-
Recorded Data Available	☐Aerial Photos	Stream G	auge [_] Other 🔲 No R	ecorded Data Avail	IADIC
Field Data Depth of inundation:	Dei	oth to Saturation:		Depth to Free Water:7"		
Primary Hydrology Indicator		Secondary Hydrology	Indicators (
Inundated		Oxidized Root Chan				
Saturated in upper 12 inches		Water-stained leaves		•		
☐ Water Marks		Local Soil Survey D				
Drift Lines		FAC - Neutral Test				
Sediment Deposits	Ī	Other:				
Criteria Met? XYes	No	Comments: Wetlan	id hydrology	observed.		
WETLAND? MVES IN	IO Commonte II	***************************************	<u>MINATION</u>	÷		

DEPARTMENT O	<u>FSTATE LAI</u>							ick Method	
County: Yamhill		Date: 2/2	1	City: Nev			#:1985		
Project/Contact: NewB./C					C. Steinkoeni	g			
Plant Community: meado		*		Plot #:7					
Plot Location: Paired w/8-N		ainage-E. of	berm						
Recent Weather: rainy and									
Do normal environmental				f no, explai					
Has Vegetation	Soil 🗌	Hydrol	ogy 🔲 🛮 be	en significa	antly disturbe	:d?			
Explain:									
<u>VEGETATION</u>									
Γ	Tree Stratum					Herb Strati	um		
Total Plot Cover:0	= 50%		20%	Total Plot	Cover:100	50 =	50%	20 = 20%	
		Status/Ra	w % Cover				Sta	tus/Raw % Cover	
1.					1.Poa prater			FAC 75*	
2.		<u> </u>			2.Festuca ar 3.Trifolium l			FAC- 10 FACU+ 15	
3. 4.					4.Chrysanth			NI trace	
5.					5.	етит Бей.		IVI HACE	
Sapling/Shrub Stratum					6.				
Total Plot Cover:	= 50%	= 20%	Status/Raw	. O/ Cours	7.				
1.	- 3078	- 2070	Status/Itan	70 COVEL	8.				
2.					9.				
3.			<u> </u>		10.				
4.				,,, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	11.				
5.					12.				
Hydrophytic Vegetation	Indicators		<u> </u>		1 12.				
> 50% of dominants are		C. Percent of	f Dominant S	necies that	are OBL, FAC	W. FAC (not FA	C-):100		
Other hydrophytic vegetation			<u> </u>		,	,	. ,		
Criteria Met? ⊠Yes □		: FEAR (FA	AC-) used a	s FAC veg.					
	-	•		ILS					
Map Unit Name: Amity si	lt loam		Class: Some						
On Hydric Soil List?	Yes 🛛 No	Has Hydrid	: Inclusions	? 🛛 Yes [☐ No				
							T #		
Depth Range of Horizon	Matrix Color		Redox Conc	entrations	Redox D	epletions	Texture		
0-12	10YR4/2		Vone				Si CL		
12-17	10YR4/2		0YR4/6 FF	P			CL		
					L				
Hydric Soil Indicators:									
Histosol			Ц.	Concretions/	Nodules (w/in	3", > 2mm)	.:1-1		
Histic Epipedon					content in sur. iking (in Sandy	face (in Sandy Sc	ous)		
Sulfidic Odor	n monitiva)				(in Sandy Soil:				
☐Reducing Conditions (test ☐Gleyed or low chroma col			H	Jiganic pan Listed on Hi	odric Soils List	s) t (and soil profile	matches)		
Redox features within 10"		s)				or 4 (ponded or		ng duration)	
	(8-,	-,				g., NRCS field in			
Criteria Met? 🔲 Yes	⊠ No								
			HYDRO	OLOGY					
Recorded Data:		_							
Recorded Data Available	Aerial Photo	os [Stream Ga	uge [Other	No Recorde	ed Data Availa	ible	
Field Data	_			-	4 A . To	1011			
Depth of inundation:		epth to Satur			pth to Free Wa				
Primary Hydrology Indicat	ors:		Root Chann		2 or more requ	mea).			
Saturated in upper 12 incl	nec		ained leaves	cis (apper 1	<i>2</i>)				
Water Marks	103		il Survey Da	ta					
Drift Lines		-	eutral Test						
Sediment Deposits		Other:				•			
Criteria Met? ⊠Yes □] No	Comme	nts: Recent	heavy rainf	all.				
	71.vo -	***	DETERM	INATION			1 biob4	wanhy	
WETLAND? □YES □	NO Comments:	Wetland soi	I criterion is	not met. S	ubdominant v	eg. is upland and	ı nıgner topg	гирпу.	

DEPARTMENT OF	STATE LANDS	WETLAND	DETERN	INATION I	DATA FOR	M – Quick Me	thod	
County: Yamhill		2/21	City: Nev	vberg	File #			
Project/Contact: NewB./CS			Det. By:	C. Steinkoenig				
Plant Community: meadow			Plot #:8					
Plot Location: Recent Weather: rainy and co	_1.4							
Do normal environmental co		N□	If no, explai	in.				
Has Vegetation				antly disturbed?				
Explain:		, aronogy []	con aiginno	antily disturbed:				
		VEGE'	TATION					
Tre	ee Stratum			I	Herb Stratum	1		
Total Plot Cover:0	= 50%	= 20%	Total Plot	Cover:100	50 = 50)% 20 = 20	1%	
	Sta	tus/Raw % Cover				Status/Raw 9		
1.				1.Poa pratensis	· · · · · · · · · · · · · · · · · · ·	FAC 85		
2. 3.				2.Rumex crispus 3.Gernaium rich		FAC+5		
4.			· ····································	4.	iarasoni	TACOT	10	
5.				5.				
Sapling/Shrub Stratum			***************************************	6.				
Total Plot Cover:	= 50% = 2	0% Status/Ra	w % Cover	7.				
1.			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8.				
2.				9.				
3.			- 	10.			•	
4.				11.				
Hydrophytic Vegetation In	diantarr			12.				
Map Unit Name: Amity silt l On Hydric Soil List? ☐ Ye		age Class: Some Hydric Inclusion						
Depth Range of Horizon N	Matrix Color	Redox Con	centrations	Redox Depl	etions	Texture		
	0YR3/2	10YR3/6 N				Si CL		
12-17 1	0YR4/2	10YR4/4 F	FD			CL		
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests positive) Gleyed or low chroma colors Redox features within 10" (e.g., concentrations) Concretions/Nodules (w/in 3", > 2mm) High organic content in surface (in Sandy Soils) Organic streaking (in Sandy Soils) Organic pan (in Sandy Soils) Listed on Hydric Soils List (and soil profile matches) Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration) Supplemental indicator (e.g., NRCS field indicator)								
Criteria Met? ⊠ Yes ☐] No		OLOGY			•		
Recorded Data: Recorded Data Available	Aerial Photos	☐Stream G		Other 🗵	No Recorded l	Data Available		
Field Data Depth of inundation: Primary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Criteria Met? Yes	<u>s:</u> Seco ⊠Ox □ Wa □ Lo □ FA □ Otl	idized Root Chan ater-stained leaves cal Soil Survey D C – Neutral Test her:	ndicators (nels (upper 1 s ata	Depth to Free (2 or more required 2")	i):			
wetland? ⊠yes □n	O Comments: Wetla		MINATION		•			

DEPARTMENT OF	STATE LAN	DS WET	TLAND I	DETERN	INATIO!	N DATA FO	RM – Qu	ick Method
County: Yamhill		Date: 2/2		City: Nev			#:1985	
Project/Contact: NewB./CS				Det. By:	C. Steinkoeni	g		
Plant Community: forested				Plot #:9				
Plot Location: SW side of str								
Recent Weather: rainy and		V[2]	א רווא	F111	·			
Do normal environmental c Has Vegetation	Soil	Hydrole		f no, explai	m: antly disturbe	v40		
Explain:	30II[_]	riyulok	ygy ∐ oc	cu signinc	antiy disturbe	su t		
Бирішіі.			VEGET	ATION				
Tı	ree Stratum					Herb Stratt	um	
Total Plot Cover:100	50 = 50%	20 = 209	%	Total Plot	Cover:70	35 =	50%	14 = 20%
			w % Cover		T		St	atus/Raw % Cover
1.Fraxinus latifolia		FACW 100)*		1.Carex obn			OBL 60*
2. 3.					2.Oenanthe	sarmeniosa		OBL 10
4.					4.			
5.					5.			
Sapling/Shrub Stratum					6.			
	7.5= 50% 11=	- 20%	Status/Rav	v % Cover	7.			
1.Rosa nutkana			FAC 10		8.			
2.Crataegus monogyna			FACU+ 5		9.			
3.Spirea douglasii			FACW 40)*	10.		,	
4.			<u> </u>		11.			
5.			<u> </u>		12.]
Hydrophytic Vegetation I	ndicators:	Dercent of	f Dominant 9	Inaciae that	are ORI FAC	W FAC (not FA	C-1·100	
Other hydrophytic vegetation i		i Ciocii o	Dominant	opecies and	alo ODD, 1710	W, 1710 (not 171	o	
Criteria Met? ⊠Yes □		: .						
				<u>ILS</u>				
Map Unit Name: Amity silt		Drainage C						
On Hydric Soil List? \[\] Y	es 🗵 No	Has Hydrid	Inclusions	7 ⊠ Yes	No			
Depth Range of Horizon	Matrix Color	1	Redox Cond	entrations	Redox F	epletions	Texture	
	10YR3/2		0YR3/6 M		1200012	<u> </u>	Si CL	
12-17	10YR4/2		0YR4/4 FI				CL	
Hydric Soil Indicators:								
∐Histosol					Nodules (w/in			
Histic Epipedon					content in sur aking (in Sand)	face (in Sandy So	oils)	
Sulfidic Odor Reducing Conditions (tests	nocitive				in Sandy Soil			
Gleyed or low chroma colo			H	Listed on H	ydric Soils Lis	t (and soil profile	matches)	
Redox features within 10"		5)		Meets hydri	ic soil criteria 3	3 or 4 (ponded or	flooded for l	ong duration)
				Supplement	al indicator (e.	g., NRCS field in	dicator)	
Criteria Met? X Yes	No No		77775	OT OCT				
Decorded Date:			HYDR	<u>OLOGY</u>				
Recorded Data: Recorded Data Available	Aerial Photo	s [☐Stream Ga	wee [Other	No Recorde	d Data Avai	lable
Field Data	L_1. 201141 1 11010							
Depth of inundation:	D	epth to Satur				Free Water:1"		
Primary Hydrology Indicato	ors:				(2 or more requ	iired):		
☐Inundated	ac		l Root Chani ained leaves	icis (upper l	2)			
Saturated in upper 12 inche ☐ Water Marks	<i>-</i> 0		amed leaves il Survey Da	ıta				
Drift Lines			leutral Test	-				
Sediment Deposits		Other:			,			
Criteria Met? ⊠Yes □	No	Comme	nts: Recent	heavy raint	fall and high v	vater table.		
			Danisana a	ለፕ ኬ፣ ል ጥነታ <i>ና</i> ነች፣				
wetland? ⊠yes □	NO Comments: \	Wetland cri		<u> </u>		•		

DEPARTMENT O	F STATE LAI			DETERM	MINATION	V DATA FOR	M' – Quick Method
County: Yamhill		Date: 2/2	1	City: Ne	wberg	File #	#:1985
Project/Contact: NewB./C	S			Det. By:	C. Steinkoeni	g	
Plant Community: forest	ed			Plot #:10		-	
Plot Location: West side of	stream						
Recent Weather: rainy and							
Do normal environmental	conditions exist?	YΧ	N 🗌 I	f no, expla	in:		
Has Vegetation 🗌	Soil 🗌	Hydrolo	ogy 🔲 be	en signific	antly disturbe	d?	
Explain:							
			VEGET	ATION			
] }	Tree Stratum					Herb Stratur	n
Total Plot Cover:30	15 = 50%	6 = 20%)	Total Plot	Cover:100	50 = 50	0% 20 = 20%
			w % Cover				Status/Raw % Cover
1.Fraxinus latifolia		FACW+30	* 		1.Festuca art		FAC- 15
2.		ļ			2.Dactylis gl		FACU 35*
3.		<u> </u>	··········		3.Poa praten		FAC 40*
4.					4.Taraxacum	officinale	NOL 10
5.		ļ			5.		
Sapling/Shrub Stratum	25 500	2004	- Cu	-0/-0	6.		
<u> </u>	2.5= 50% 1=	20%	Status/Rav		7.		
1.Corylus cornuta			FACU+ 5	, T	8.		
2.	·			·	9.		
3.					10.		
4.	 		ļ		11.		
5.					12.		
Hydrophytic Vegetation		0.5			OD1 - E4-O	N EAC / A EAC	3.50
> 50% of dominants are		C Percent of	Dominant §	pecies that	are OBL, FAC	w, fac (not fac-	-):50
Other hydrophytic vegetation Criteria Met? Yes	i indicators:	. Doon not	wood fift	noroont			
Criteria Met:	7140 Comments	: Does not		-			
Nam I Init Names Amite of	lt laam	Drainage C		ILS	u decined		
Map Unit Name: Amity si On Hydric Soil List?		Has Hydric					
On Hydric Son List:	162 M 140	mas myum	, menusions	: [A] 1 cs	L 140		
Depth Range of Horizon	Matrix Color	F	Redox Conc	entrations	Redox D	epletions	Texture
0-11	10YR3/2		Vone				Si CL
11-17	10YR3/3						CL
11-17	10110/3						
Hydric Soil Indicators:	L			······			<u> </u>
Histosol			\Box	Concretions	Nodules (w/in i	3". > 2mm)	
Histic Epipedon			Hì.	Tigh organi	content in surf	ace (in Sandy Soils	s)
Sulfidic Odor					aking (in Sandy		•
Reducing Conditions (tes	ts positive)			Organic pan	(in Sandy Soils	;)	
Gleyed or low chroma col	ors			Listed on H	ydric Soils List	(and soil profile m	natches)
Redox features within 10'	' (e.g., concentration	ıs)		Meets hydr	ic soil criteria 3	or 4 (ponded or fle	ooded for long duration)
-	-			Supplement	tal indicator (e.g	, NRCS field indi	cator)
Criteria Met? 🔲 Yes	⊠ No			O* C ==:			
			HYDR	<u>OLOGY</u>			
Recorded Data:	March 1 Direct			г	7 Other	☑ No Recorded	Data Available
Recorded Data Available	Aerial Photo	os t	Stream Ga	uge L	Other	M Mo Vecolged	Data Available
Field Data	Г	epth to Satur	ation:13"	т	epth to Free W	ater:	
Depth of inundation: Primary Hydrology Indica					(2 or more requ		
Inundated	.v. 0:		Root Chanr			· - /-	
Saturated in upper 12 incl	hes	-	ained leaves	- \-FF-	,		
Water Marks	=		il Survey Da	ta			•
Drift Lines			eutral Test				
Sediment Deposits		Other:					
Criteria Met? Yes	☑ No	Comme	nts: Recent	heavy rain	fall and high w	ater table.	
	71.10			<u>IINATION</u>	L	•	
ו סקועו פרונא וידיקועו	NO Comments:	Criteria not	met.				

DEPARTMENT O	F STATE LAN	DS WE	TLAND I	DETERN	MINATION	DATA FOR	RM - Q	uick Method
County: Yamhill		Date: 2/2		City: Nev			#:1985	
Project/Contact: NewB./C				Det. By:	C. Steinkoenig) 2		
Plant Community: foreste				Plot #:11	•			
Plot Location: paired with s								
Recent Weather: rainy and								
Do normal environmental				f no, expla				
Has Vegetation	Soil	Hydrol	ogy 🔲 🛮 be	en signific	antly disturbed	1 ?		
Explain:								
			VEGET	ATION				
T	Tree Stratum	-				Herb Stratu	m .	
Total Plot Cover:50	25 = 50%	10 = 20		Total Plot	Cover:100	50 = 5	50%	20 = 20%
			w % Cover				S	tatus/Raw % Cover
1.Fraxinus latifolia		FACW+ 5	0*		1.Poa praten			FAC 50*
2.		· · · · · · · · · · · · · · · · · · ·		<u> </u>	2.Rumex cris			FAC+ 10
4.			 		3.Agrostis sto	lonijera		FAC 40*
5.					4 . 5.			1
Sapling/Shrub Stratum				· · · · · · · · · · · · · · · · · · ·	6.	·····		
Total Plot Cover:	= 50%	= 20%	Status/Raw	% Cover	7.			
1.	30/0	2070	Diamorikaw	70 00 701	8.			1
2.			 	<i></i>	9.			1
3.					10.		<u> </u>	
4.					11.			
5.					12.			
Hydrophytic Vegetation	Indicators:				1 2-2-			
Map Unit Name: Amity sil On Hydric Soil List?			SO: Class: Some Classions	what poorl				
Depth Range of Horizon	Matrix Color		Redox Conc		Redox De	epletions	Texture)
0-11	10YR3/2		10YR3/6 FF				Si CL	**************************************
11-17	10YR4/2		10YR4/6 CF	<u> </u>			CL	
							<u> </u>	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests positive) Gleyed or low chroma colors Redox features within 10" (e.g., concentrations) Criteria Met? Yes Concretions/Nodules (w/in 3", > 2mm) High organic content in surface (in Sandy Soils) Organic streaking (in Sandy Soils) Organic pan (in Sandy Soils) Listed on Hydric Soils List (and soil profile matches) Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration) Supplemental indicator (e.g., NRCS field indicator)								
Recorded Data:			HYDRO	<u>DLOGY</u>				
Recorded Data Available Field Data	Aerial Photos		Stream Gar		Other	No Recorded	Data Ava	ilable
Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 inch Water Marks Drift Lines Sediment Deposits Criteria Met? Yes	ors: nes	⊠Oxidized	Hydrology I I Root Chann ained leaves il Survey Dat leutral Test	Indicators (els (upper l	pth to Free Wat (2 or more requi 2")			·,
WETLAND? ⊠YES □	NO Comments: V	Vetland Cr		INATION				

						N DATA FO		
County: Yamhill		Date: 2/2	1	City: Nev			le #:1985	
Project/Contact: NewB./CS					C. Steinkoen	ig		
Plant Community: forested				Plot #:12				
Plot Location: NW end of the p								
Recent Weather: rainy and co								
Do normal environmental con				f no, explai				
	Soil 🗌	Hydrol	ogy 📗 be	en signific	antly disturb	ed?		
Explain:								
			<u>VEGET</u>	ATION				
Tree	e Stratum					Herb Stra	tum	
Total Plot Cover:95	47.5 = 50%	19 = 20	%	Total Plot	Cover:		= 50%	= 20%
		Status/Ra	w % Cover				Stat	us/Raw % Cover
1.Fraxinus latifolia		FACW+ 9	5*		1.			
2.					2.			
3.					3.			
4.		ļ			4.			
5.	······	 			5.			
Sapling/Shrub Stratum]			6.			
Total Plot Cover:10 5= 5	50% 2.5	5= 20%	Status/Rav		7.			
1.Rubus discolor			FACU 10	*	8.			
2.					9.			
3.			<u> </u>		10.			
4.					11.			
5.					12.			
Hydrophytic Vegetation Inc								
> 50% of dominants are OBI		C Percent o	f Dominant S	pecies that	are OBL, FAC	W, FAC (not FA	AC-):50	
Other hydrophytic vegetation inc	licators:							
Criteria Met? ⊠Yes ☐ N	o Comments	s: BPJ. Blac			imple plot.	Dominant cover	r is ash	
				<u>ILS</u>				
Map Unit Name: Amity silt lo			Class: Some					
On Hydric Soil List? Yes	⊠ No	Has Hydri	c Inclusions	? ⊠ Yes∣] No			
Depth Range of Horizon M	atrix Color		Redox Conc	entrations	Redox I	Depletions	Texture	
)YR2/1						LEXIME	
0-10	711071							
)					Si CL	
Truduia Cail Indiantama								
Hydric Soil Indicators:				Concretions/		3" > 2mm)		
∐Histosol				Concretions/	Nodules (w/in	3", > 2mm) rface (in Sandy S	Si CL	
☐Histosol ☐Histic Epipedon				ligh organic	Nodules (w/in	rface (in Sandy S	Si CL	
∐Histosol	ositive)			High organic Organic strea Organic pan	Nodules (w/in content in su sking (in Sand (in Sandy Soi	rface (in Sandy S y Soils) ls)	Si CL Soils)	
	·			High organic Organic strea Organic pan Listed on Hy	Nodules (w/in content in su aking (in Sand (in Sandy Soi ydric Soils Lis	rface (in Sandy S y Soils) ls) t (and soil profil	Si CL Soils) c matches)	
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (tests po	·	ns)		High organic Organic strea Organic pan Listed on H Meets hydri	Nodules (w/in content in su aking (in Sand (in Sandy Soi ydric Soils Lis c soil criteria	rface (in Sandy S y Soils) ls) it (and soil profil 3 or 4 (ponded o	Si CL Soils) e matches) r flooded for lor	ng duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests po Gleyed or low chroma colors Redox features within 10" (e.	g., concentration	ns)		High organic Organic strea Organic pan Listed on H Meets hydri	Nodules (w/in content in su aking (in Sand (in Sandy Soi ydric Soils Lis c soil criteria	rface (in Sandy S y Soils) ls) t (and soil profil	Si CL Soils) e matches) r flooded for lor	ng duration)
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (tests po ☐Gleyed or low chroma colors ☐Redox features within 10" (e.	·	ns)		High organic Organic strea Organic pan Listed on Hi Meets hydri Supplement	Nodules (w/in content in su aking (in Sand (in Sandy Soi ydric Soils Lis c soil criteria	rface (in Sandy S y Soils) ls) it (and soil profil 3 or 4 (ponded o	Si CL Soils) e matches) r flooded for lor	ng duration)
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests po Gleyed or low chroma colors Redox features within 10" (e.,	g., concentration	ns)		High organic Organic strea Organic pan Listed on H Meets hydri	Nodules (w/in content in su aking (in Sand (in Sandy Soi ydric Soils Lis c soil criteria	rface (in Sandy S y Soils) ls) it (and soil profil 3 or 4 (ponded o	Si CL Soils) e matches) r flooded for lor	ng duration)
☐Histosol ☐Histic Epipedon ☐Sulfidic Odor ☐Reducing Conditions (tests po ☐Gleyed or low chroma colors ☐Redox features within 10" (e., Criteria Met? ☐ Yes ☐	g., concentration		HYDR	High organic organic streat Organic streat Organic pan Listed on High Meets hydri Supplement OLOGY	Nodules (w/in content in su aking (in Sand (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e	rface (in Sandy S y Soils) ls) it (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor ndicator)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests po Gleyed or low chroma colors Redox features within 10" (e., Criteria Met? ☐ Yes Recorded Data: Recorded Data Available	g., concentration			High organic organic streat Organic streat Organic pan Listed on High Meets hydri Supplement OLOGY	Nodules (w/in content in su aking (in Sand (in Sandy Soi ydric Soils Lis c soil criteria	rface (in Sandy S y Soils) ls) it (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests po Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? Yes Recorded Data: Recorded Data Available Field Data	g., concentration No □Aerial Photo	os	☐i ☐G ☐ ☐ ☐ ☐ HYDRe	High organic organic streat Drganic streat Drganic pan Listed on High Meets hydri Supplement DLOGY	Nodules (w/in content in su aking (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e	rface (in Sandy S y Soils) ls) t (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor ndicator)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests po Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? ☐ Yes Recorded Data: Recorded Data Available Field Data Depth of inundation:	g., concentration No Aerial Photo	os	HYDRO Stream Ga	High organic organic streat Drganic streat Drganic pan Listed on High Meets hydri Supplement DLOGY uge [Nodules (w/in content in su aking (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e	rface (in Sandy S y Soils) ls) t (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor ndicator)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests po Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? ✓ Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators	g., concentration No Aerial Photo	os Depth to Satu Secondary	HYDRO Stream Ga ration:3"	High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge De Indicators (Nodules (w/in content in su aking (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e	rface (in Sandy S y Soils) ls) t (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor ndicator)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests por Sulfidic Odor) Reducing Conditions (tests por Sulfidic Odor) Redox features within 10" (e.g.) Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated	g., concentration No Aerial Photo	os Depth to Satu Secondary	HYDRO Stream Ga ration:3" Hydrology I Root Chann	High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge De Indicators (Nodules (w/in content in su aking (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e	rface (in Sandy S y Soils) ls) t (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor ndicator)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests po Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? ✓ Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators	g., concentration No Aerial Photo	os Depth to Satu Secondary Oxidized Water-st	HYDRO Stream Ga ration:3" Hydrology I Root Chanrained leaves	High organic organic streators (panic pan Listed on Homets hydri Supplement OLOGY uge De Indicators (palic (upper 1)	Nodules (w/in content in su aking (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e	rface (in Sandy S y Soils) ls) t (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor ndicator)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests por Signeyed or low chroma colors Redox features within 10" (e.g.) Criteria Met? ✓ Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches	g., concentration No Aerial Photo	Depth to Satu Secondary Oxidized Water-st	HYDRO Stream Ga ration:3" Hydrology I Root Chann	High organic organic streators (panic pan Listed on Homets hydri Supplement OLOGY uge De Indicators (palic (upper 1)	Nodules (w/in content in su aking (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e	rface (in Sandy S y Soils) ls) t (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor ndicator)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests por Gleyed or low chroma colors Redox features within 10" (e.g.) Criteria Met? ✓ Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches Water Marks	g., concentration No Aerial Photo	Depth to Satu Secondary Oxidized Water-st	HYDRO Stream Ga ration:3" Hydrology I Root Chanrained leaves oil Survey Da	High organic organic streators (panic pan Listed on Homets hydri Supplement OLOGY uge De Indicators (palic (upper 1)	Nodules (w/in content in su aking (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e	rface (in Sandy S y Soils) ls) t (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor ndicator)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests por Gleyed or low chroma colors Redox features within 10" (e.g.) Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches Water Marks □Drift Lines	g., concentration No Aerial Photo	Depth to Sature Secondary Oxidized Water-st Docal So	HYDRO Stream Ga ration:3" Hydrology d Root Chanrained leaves oil Survey Da Neutral Test	High organic organic streators (panic pan Listed on Homets hydri Supplement OLOGY uge De Indicators (palic (upper 1)	Nodules (w/in content in su aking (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e	rface (in Sandy S y Soils) ls) t (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor ndicator)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests por Gleyed or low chroma colors Redox features within 10" (e.g.) Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	g., concentration No Aerial Photo	Depth to Satur Secondary Oxidized Water-st DLocal So DFAC - N	HYDRO HYDRO Stream Garation:3" Hydrology Root Chanrained leaves Soil Survey Da Jeutral Test ents: .	High organic Streat Organic streat Organic pan Listed on High Meets hydri Supplement OLOGY Uge De Indicators (all seles (upper 1 ta)	Nodules (w/in content in su aking (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e	rface (in Sandy S y Soils) ls) t (and soil profil 3 or 4 (ponded o g., NRCS field i	Si CL Soils) e matches) r flooded for lor ndicator)	
Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests por Gleyed or low chroma colors Redox features within 10" (e.g.) Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	g., concentration No Aerial Photo I	Depth to Sature Secondary Oxidized Water-st Local So FAC - N Other: Commo	HYDRO HYDRO HYDRO Stream Ga ration:3" Hydrology Root Chanrained leaves oil Survey Da leutral Test ents: . DETERM	High organic Streat Organic streat Organic pan Listed on High Meets hydring Supplement OLOGY Under The Color of the Color	Nodules (w/in content in su aking (in Sandy Soi ydric Soils Lis c soil criteria al indicator (e Other pth to Free W (2 or more req 2")	rface (in Sandy S y Soils) ls) it (and soil profil 3 or 4 (ponded o g., NRCS field i No Record ater:8" uired):	Si CL Soils) e matches) r flooded for lor ndicator)	

DEPARTMENT O	F STATE LA	NDS WE	TLAND I	DETERN	MINATION	DATA FOR	RM – Qu	ick Method		
County: Yamhill		Date: 2/2		City: Nev			#:1985			
Project/Contact: NewB./C					C. Steinkoenig	7				
Plant Community: scrub-				Plot #:13						
Plot Location: northeast side		j								
Recent Weather: cold and		~ _K		_	_					
Do normal environmental				f no, expla						
Has Vegetation	Soil	Hydrol	ogy 🗌 be	een signific	antly disturbed	1?				
Explain:										
	<u>VEGETATION</u>									
1	ree Stratum					Herb Stratu	m			
Total Plot Cover:	= 50%		= 20%	Total Plot	Cover:100	50 = 5	50%	20 = 20%		
		Status/Ra	aw % Cover				Sta	tus/Raw % Cover		
1.		ļ			1 Alopecurus			FACW 60*		
2.		ļ			2.Agrostis sto	olonifera		FAC 40*		
3.		ļ			3.					
4.		 			4. 5.					
		 			6.		,	-		
Sapling/Shrub Stratum Total Plot Cover:10	5= 50% 2.	5= 20%	Status/Rav	. 9/ C	7.					
1.Rubus discolor	5-30% 2.	3- 20%	FACU 5*		8.			 		
2.Rosa nutkana		 	FACU 5*		9.			 		
			FACS							
3.			<u> </u>		10.			 		
4.					11.					
5.	Y. 3: /		<u> </u>		12.			L		
Hydrophytic Vegetation		C Dargant o	fDominant (Ennaign that	oro ODI EACY	V EAC (not EAC	-1.75			
Other hydrophytic vegetation		C reitein o	i Dominant s	opecies mai	ale ODL, FAC	Y, I'AC (HOLI AC	-).73			
Criteria Met? Yes		s: Exceeds i	fifty nercent							
Criteria Met. Extes	1110 Commone	01 25/1000db /		ILS						
Map Unit Name: Amity sil	t loam	Drainage (Class: Some		v drained					
On Hydric Soil List?			c Inclusions							
Depth Range of Horizon	Matrix Color		Redox Cond	centrations	Redox De	epletions	Texture			
0-13	10YR3/2		None				Si CL			
13-18	10YR3/2		10YR3/4 FI	FF			CL			
							<u> </u>			
Hydric Soil Indicators:										
∐Histosol					Nodules (w/in 3		• •			
Histic Epipedon						ace (in Sandy Soi	is)			
Sulfidic Odor	mtate - N				aking (in Sandy					
Reducing Conditions (test					(in Sandy Soils) (and soil profile r	natches)			
☐ Gleyed or low chroma colo ☐ Redox features within 10"	JIS Jeig concentration	121	H	Meets hade	jurio ouns List ic soil criteria ?	or 4 (ponded or f	looded for l	ong duration)		
TIVEGOY ICERTICS MIRRIE IO	(c.g., concentration	10]				, NRCS field ind				
Criteria Met? 🔲 Yes	⊠ No		لبا				,			
			HYDR	OLOGY						
Recorded Data:			- 100 - 100							
Recorded Data Available	Aerial Phot	os	Stream Ga	iuge [Other	No Recorded	l Data Avail	able		
Field Data										
Depth of inundation:		Depth to Satu			pth to Free Wat					
Primary Hydrology Indicat	ors:				(2 or more requi	red):				
Inundated			d Root Chanr		12")					
Saturated in upper 12 inch	ies		tained leaves							
☐Water Marks ☐Drift Lines			oil Survey Da Veutral Test	na						
Sediment Deposits		Other:	TOURUS I VOL					•		
Criteria Met? Yes	No.		ents: Very h	igh water t	ıble.					
OTHER MITTEL KATES	,	-0111111		- O			,			
				MINATION	! •					
WETLAND? □YES 🏻	NO Comments:	No hydric s	oil, rise in to	pogrpahy.						

County: Yamhill		Date: 2/2		City MI	IINATIO	TO:	10 4.1005			
Project/Contact: NewB./C		Date: 2/2	0/0/	City: Nev	voerg C. Steinkoen		ile #:1985			
Plant Community: scrub-				Plot #:14		g .				
Plot Location: paired w/san			•	1 101 11.14						
Recent Weather: cold and										
Do normal environmental		YΧ	NП II	fno, explai	n:					
Has Vegetation	Soil	Hydrol			antly disturbe	ed?				
Explain:	h-para-	,	-6,							
•			VEGET	ATION		•				
Tree Stratum Herb Stratum										
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50	= 50%	20 = 20%		
		Status/Ra	w % Cover				St	atus/Raw % Cover		
1.					1.Alopecuru			FACW 60*		
2.					2.Agrostis s	olonifera		FAC 40*		
3.					3.					
4.	······································		······································		4. 5.					
Sapling/Shrub Stratum					6.		 	 		
	5= 50% 2.5	<u> </u> 5= 20%	Status/Raw	Of Cours	7.			 		
1.Rubus discolor	J- JU/0 Z.3	J- 2070	FACU 5*	/0 COACI	8.					
2.Rosa nutkana			FAC 5*		9.			 		
3.			IACS		10.			 		
4.			 		11.					
5.					12.					
Hydrophytic Vegetation	Indicators		1		12.					
Other hydrophytic vegetation	indicators:	> 50% of dominants are OBL, FACW or FAC Percent of Dominant Species that are OBL, FACW, FAC (not FAC-):75 Other hydrophytic vegetation indicators: Criteria Met? Yes No Comments: Exceeds fifty percent.								
			~~`							
Man I Init Name: Amity si	lt Ioam	Drainage (SO: Class: Some	<u>ILS</u>	v drained					
Map Unit Name: Amity si			Class: Some	<u>ULS</u> what poorly						
Map Unit Name: Amity si On Hydric Soil List?				<u>ULS</u> what poorly						
		Has Hydrid	Class: Some c Inclusions Redox Conc	<u>ULS</u> what poorly ? ⊠ Yes [entrations	□ No	epletions -	Texture			
On Hydric Soil List?	Yes 🛭 No	Has Hydrid	Class: Some c Inclusions Redox Conc 10YR4/6 CF	<u>ULS</u> what poorly ? ⊠ Yes [entrations	□ No	Pepletions	Si CL			
On Hydric Soil List? Depth Range of Horizon	Yes ⊠ No Matrix Color	Has Hydrid	Class: Some c Inclusions Redox Conc	<u>ULS</u> what poorly ? ⊠ Yes [entrations	□ No	Depletions		,		
On Hydric Soil List? The Depth Range of Horizon 0-12	Yes ⊠ No Matrix Color 10YR4/2	Has Hydrid	Class: Some c Inclusions Redox Conc 10YR4/6 CF	<u>ULS</u> what poorly ? ⊠ Yes [entrations	□ No	epletions	Si CL			
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators:	Yes ⊠ No Matrix Color 10YR4/2	Has Hydrid	Class: Some c Inclusions Redox Conc 10YR4/6 CR 10YR4/4 FF	ULS what poorly ? ⊠ Yes [entrations FD F	No Redox I		Si CL			
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol	Yes ⊠ No Matrix Color 10YR4/2	Has Hydrid	Class: Some c Inclusions Redox Conc 10YR4/6 CF 10YR4/4 FF	ULS what poorly ? ⊠ Yes [entrations PD F Concretions/	No Redox I	3", > 2mm)	Si CL CL			
On Hydric Soil List?	Yes ⊠ No Matrix Color 10YR4/2	Has Hydrid	Class: Some Class: Some Class: Some Class: Some Class: Redox Conc Class:	ULS what poorly Yes [entrations D F Concretions/ High organic	No Redox I Nodules (w/in	3", > 2mm) face (in Sandy	Si CL CL			
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor	Yes ⊠ No Matrix Color 10YR4/2 10YR4/2	Has Hydrid	Class: Some Class: Some Class: Some Class: Some Class: Redox Conc Class:	What poorly What poorly Yes [entrations D F Concretions/ High organic Organic stream	No Redox I Nodules (w/in content in sur	3", > 2mm) face (in Sandy y Soils)	Si CL CL			
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	Yes No Matrix Color 10YR4/2 10YR4/2	Has Hydrid	Class: Some Class: Some Class: Some Class: Some Class: Redox Conc Class:	What poorly What poorly Yes [entrations FD Concretions/ High organic Organic streat Organic pan	No Redox I Nodules (w/in content in sur aking (in Sand) (in Sandy Soil	3", > 2mm) face (in Sandy y Soils) s)	Si CL CL Soils)			
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	Yes No Matrix Color 10YR4/2 10YR4/2 is positive) ors	Has Hydrid	Class: Some Class: Some Class: Some Class: Some Class: Redox Conc Class:	What poorly What poorly Yes [entrations D Concretions/ High organic Organic streat Organic pan Listed on Hy	No Redox I Nodules (w/in content in sur aking (in Sandy (in Sandy Soil ydric Soils Lis	3", > 2mm) face (in Sandy y Soils)	Si CL CL Soils)			
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10"	Yes No Matrix Color 10YR4/2 10YR4/2 is positive) ors	Has Hydrid	Class: Some Class:	What poorly What poorly Yes [entrations FD Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri	No Redox I Nodules (w/in content in sur aking (in Sandy (in Sandy Soil ydric Soils Lis ic soil criteria	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi	Si CL CL Soils)			
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test	Yes No Matrix Color 10YR4/2 10YR4/2 is positive) ors	Has Hydrid	Class: Some Class:	What poorly What poorly Yes Entrations FD Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement	No Redox I Nodules (w/in content in sur aking (in Sandy (in Sandy Soil ydric Soils Lis ic soil criteria	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi	Si CL CL Soils)			
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes	Yes No Matrix Color 10YR4/2 10YR4/2 is positive) ors '(e.g., concentration	Has Hydrid	Class: Some Class:	What poorly What poorly Yes [entrations FD Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri	No Redox I Nodules (w/in content in sur aking (in Sandy (in Sandy Soil ydric Soils Lis ic soil criteria	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi	Si CL CL Soils)			
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Xes Recorded Data:	Yes ⊠ No Matrix Color 10YR4/2 10YR4/2 is positive) ors '(e.g., concentration No	Has Hydrid	Class: Some Concurrence Inclusions Redox Concurrence Inclusions Redox Concurrence Inclusions Redox Concurrence Inclusions Redox Concurrence Inclusions Inc	What poorly What poorly Yes Concretions Gigh organic Organic strea Organic pan Listed on Hy Meets hydri Supplement	No Redox I Nodules (w/in content in sur aking (in Sandy (in Sandy Soil ydric Soils Lis c soil criteria al indicator (e.	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded of g., NRCS field	Si CL CL Soils) le matches) or flooded for indicator)	long duration)		
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10° Criteria Met? Yes Recorded Data: Recorded Data Available	Yes No Matrix Color 10YR4/2 10YR4/2 is positive) ors '(e.g., concentration	Has Hydrid	Class: Some Class:	What poorly What poorly Yes Internations Concretions High organic Organic strea Organic pan Listed on Hy Meets hydri Supplement	No Redox I Nodules (w/in content in sur aking (in Sandy (in Sandy Soil ydric Soils Lis ic soil criteria	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded of g., NRCS field	Si CL CL Soils)	long duration)		
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Recorded Data	Yes ⊠ No Matrix Color 10YR4/2 10YR4/2 is positive) ors ' (e.g., concentration □ No	Has Hydrid	Class: Some Class:	What poorly What poorly Yes Entrations FD Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge	No Redox I Nodules (w/in content in suraking (in Sandy Soil ydric Soils Lis c soil criteria al indicator (e.	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded o g., NRCS field	Si CL CL Soils) le matches) or flooded for indicator)	long duration)		
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation:	Yes ⊠ No Matrix Color 10YR4/2 10YR4/2 is positive) ors ' (e.g., concentration □ No □ Aerial Photo	Has Hydric	Class: Some Class:	What poorly What poorly Yes Entrations FD Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge	No Redox I Nodules (w/in content in suraking (in Sandy Soil ydric Soils Lis c soil criteria al indicator (e. Other	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded of g., NRCS field No Recon	Si CL CL Soils) le matches) or flooded for indicator)	long duration)		
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data	Yes ⊠ No Matrix Color 10YR4/2 10YR4/2 is positive) ors ' (e.g., concentration □ No □ Aerial Photo	Has Hydric I I I I I I I I I I I I I	Class: Some Class:	What poorly What poorly Yes Internations Concretions Granic streat Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge Indicators (No Redox I Nodules (w/in content in sur aking (in Sandy Gin Sandy Soil ydric Soils Lis c soil criteria al indicator (e. Other Depth to (2 or more req	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded of g., NRCS field No Recon	Si CL CL Soils) le matches) or flooded for indicator)	long duration)		
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Xes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl	Yes ⊠ No Matrix Color 10YR4/2 10YR4/2 is positive) ors ' (e.g., concentration □ No □ Aerial Photo tors:	Has Hydric 1	Class: Some conclusions Redox C	What poorly What poorly Yes Internations Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge Indicators (lels (upper 1)	No Redox I Nodules (w/in content in sur aking (in Sandy Gin Sandy Soil ydric Soils Lis c soil criteria al indicator (e. Other Depth to (2 or more req	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded of g., NRCS field No Recon	Si CL CL Soils) le matches) or flooded for indicator)	long duration)		
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl Water Marks	Yes ⊠ No Matrix Color 10YR4/2 10YR4/2 is positive) ors ' (e.g., concentration □ No □ Aerial Photo tors:	Has Hydric 1	Class: Some conclusions Redox C	What poorly What poorly Yes Internations Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge Indicators (lels (upper 1)	No Redox I Nodules (w/in content in sur aking (in Sandy Gin Sandy Soil ydric Soils Lis c soil criteria al indicator (e. Other Depth to (2 or more req	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded of g., NRCS field No Recon	Si CL CL Soils) le matches) or flooded for indicator)	long duration)		
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl Water Marks Drift Lines	Yes ⊠ No Matrix Color 10YR4/2 10YR4/2 is positive) ors ' (e.g., concentration □ No □ Aerial Photo tors:	Has Hydric 1	Class: Some conclusions Redox C	What poorly What poorly Yes Internations Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge Indicators (lels (upper 1)	No Redox I Nodules (w/in content in sur aking (in Sandy Gin Sandy Soil ydric Soils Lis c soil criteria al indicator (e. Other Depth to (2 or more req	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded of g., NRCS field No Recon	Si CL CL Soils) le matches) or flooded for indicator)	long duration)		
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl Water Marks Drift Lines Sediment Deposits	Matrix Color 10YR4/2 10YR4/2 is positive) ors '(e.g., concentration ☐ No ☐ Aerial Photo tors: thes	Depth to Satu Secondary Mater-st Local So FAC - N Other:	Class: Some Class: Stream Class:	What poorly What poorly Yes Internations Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge Indicators (lels (upper 1)	No Redox I Nodules (w/in content in sur aking (in Sandy Gin Sandy Soil ydric Soils Lis c soil criteria al indicator (e. Other Depth to (2 or more req	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded of g., NRCS field No Recon	Si CL CL Soils) le matches) or flooded for indicator)	long duration)		
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl Water Marks Drift Lines	Matrix Color 10YR4/2 10YR4/2 is positive) ors '(e.g., concentration ☐ No ☐ Aerial Photo tors: thes	Has Hydric 1	Class: Some Class: Stream Class:	What poorly What poorly Yes Internations Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge Indicators (lels (upper 1)	No Redox I Nodules (w/in content in sur aking (in Sandy Gin Sandy Soil ydric Soils Lis c soil criteria al indicator (e. Other Depth to (2 or more req	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded of g., NRCS field No Recon	Si CL CL Soils) le matches) or flooded for indicator)	long duration)		
On Hydric Soil List? Depth Range of Horizon 0-12 12-18 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10" Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl Water Marks Drift Lines Sediment Deposits	Matrix Color 10YR4/2 10YR4/2 is positive) ors '(e.g., concentration ☐ No ☐ Aerial Photo tors: thes	Depth to Satu Secondary Mater-st Local So FAC - N Other:	Class: Some conclusions Redox Conclusions Hydrology I Root Channal ained leaves oil Survey David Survey	What poorly What poorly Yes Internations Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri Supplement OLOGY uge Indicators (lels (upper 1)	No Redox I Nodules (w/in content in sur aking (in Sandy Gin Sandy Soil ydric Soils Lis c soil criteria al indicator (e. Other Depth to (2 or more req 2")	3", > 2mm) face (in Sandy y Soils) s) t (and soil profi 3 or 4 (ponded of g., NRCS field No Recon	Si CL CL Soils) le matches) or flooded for indicator)	long duration)		

DEPARTMENT OF	STATE LAI	NDS WE	TLAND I	DETERN	MINATIO	N DATA FO	RM – O	uick Method
County: Yamhill		Date: 2/2		City: Nev			e #:1985	
Project/Contact: NewB./CS					C. Steinkoeni	g		
Plant Community: meadov				Plot #:15				
Plot Location: Northwest end								
Recent Weather: cold and v Do normal environmental c	· · · - · · · · · · · · · · · · · · · ·	VM	ND t	£1	•			
Has Vegetation	Soil			f no, expla	ın: antly disturbe	42		
Explain:	501I	Hydro	logy [_] oc	on argumo	antiy disturbe	ou :		
<u>.</u>			VEGET	TATION				
Tı	ee Stratum					Herb Strat	um	- WP-1 11 - 1-1-
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 =	= 50%	20 = 20%
·		Status/R	aw % Cover					tatus/Raw % Cover
1.					1.Alopecuru.			FACW 60*
2.					2.Agrostis st	olonifera		FAC 40*
4.				····	3.			
5.				***************************************	5.			
Sapling/Shrub Stratum			***************************************		6.		,	
Total Plot Cover:10 5	= 50% 2.5	= 20%	Status/Rav		7.			
1.Rubus discolor			FACU 5*		8.			
2.Rosa nutkana			FAC 5*	***************************************	9.		···	
3.			_		10.			
4.					11.		· · · · · · · · · · · · · · · · · · ·	
5.		····			12.			
Hydrophytic Vegetation I	ndicators:						~	
	BL, FACW or FAC	C Percent of	of Dominant S	pecies that	are OBL, FAC	W, FAC (not FA	.C-):75	
Other hydrophytic vegetation i Criteria Met? XYes		· Evenede	fifty percent					
Citteria Met: Mics	110 Comments	. Exceeds		ILS				
Map Unit Name: Amity silt	loam	Drainage	Class: Some		v drained			
On Hydric Soil List? Y			ic Inclusions					
		-						
	Matrix Color		Redox Conc		Redox D	epletions	Texture)
	10YR4/2		10YR4/6 CI				Si CL	
12-18	10YR4/2		10YR4/4 FF	T,			CL	
			······································					
Hydric Soil Indicators:			г .	`	NIadulas (sulim	3" > 3		
∐Histosol ∐Histic Epipedon		•			Nodules (w/in	face (in Sandy S	nile)	
Sulfidic Odor					king (in Sandy		J.1.0)	
Reducing Conditions (tests	positive)				(in Sandy Soils			
Gleyed or low chroma color				Listed on Hy	ydric Soils List	(and soil profile		
⊠Redox features within 10" (e.g., concentration	s)				or 4 (ponded or		long duration)
				Supplement	al indicator (e.g	g., NRCS field in	idicator)	
Criteria Met? 🛛 Yes 🛚	No		YTT.TT.	N OOV				
Decembed Date:			HYDR	DLOGY				
Recorded Data: Recorded Data Available	Merial Photo	ıc	Stream Ga	пое. Г	Other	⊠ No Record	ed Data Avai	ilable
Field Data			Попоши оп	ugo [7 0 11101	23 710 1100074		
Depth of inundation:	D		iration:to surf			ree Water:0.5"		
Primary Hydrology Indicato		Secondar	y Hydrology	Indicators (2 or more requ	ired):		
Inundated			d Root Chann	els (upper 1	2")			
Saturated in upper 12 inche	S		tained leaves	ta				
☐Water Marks ☐Drift Lines			oil Survey Da Neutral Test	ıa				
Sediment Deposits		Other:	Touriai 165t					
Criteria Met? XYes	No	Comm	ents: .					
OTTOOL TITOES KAYON FT	- · -	~J.111111						
				<u>INATION</u>				
WETLAND? ⊠YES □	NO Comments:	All wetland	l criteria met	,				

DEPARTMENT O	F STATE L	ANDS WE	TLAND I	DETERN	MINATION	DATA FO	RM – Qu	ick Method
County: Yamhill		Date: 2/	28/07	City: Nev	wberg	File	#:1985	
Project/Contact: NewB./C				Det. By:	C. Steinkoenig	3		***************************************
Plant Community: meado				Plot #:16				
Plot Location: Paired with s								
Recent Weather: cold and		 			_			
Do normal environmental				f no, expla				
Has Vegetation	Soil 🗌	Hydro	ology 🔲 be	en signific	antly disturbed	1?		
Explain:			T/ID/CID/I	T A MYCORY				
Т	Tree Stratum		VEGE	ATION		Herb Stratu	ım	•
Total Plot Cover:15	7.5 = 50%	3 = 20		Total Plot	Cover:100	50=		20 = 20%
10			law % Cover	<u> </u>	T = 41		Sta	tus/Raw % Cover
1.Quercus garryana		UPL 5* NOL 5*			1. Alopecurus			FACW 40*
2.Malus sp. 3.		NOL 3"	· · · · · · · · · · · · · · · · · · ·		2.Agrostis sto 3.Dactylis glo		····	FAC 40* FACU 15
4.				***************************************	4.Chrysanthe			NOL 5
5.					5.Hypocheris			FACU trace
Sapling/Shrub Stratum					6.			
	7.5= 50%	3= 20%	Status/Rav	v % Cover	7.		***************************************	
1.Rubus discolor			FACU 10	*	8.			
2.Crataegus sp.			FAC/FAC	CU+ 5*	9.			
3.					10.			
4.					11.			
5.					12.			<u> </u>
Hydrophytic Vegetation Indicators:								
Depth Range of Horizon	Matrix Color		Redox Cond	entrations	Redox Do	epletions	Texture	
0-12	10YR3/2		None				Si CL	
12-18	10YR4/2		None				CL	

Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests positive) Gleyed or low chroma colors Redox features within 10" (e.g., concentrations) Criteria Met? Hydric Soil Indicators: Concretions/Nodules (w/in 3", > 2mm) High organic content in surface (in Sandy Soils) Organic streaking (in Sandy Soils) Organic pan (in Sandy Soils) Listed on Hydric Soils List (and soil profile matches) Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration) Supplemental indicator (e.g., NRCS field indicator)								
Recorded Data:			HYDR	<u>OLOGY</u>				
☐ Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicat ☐ Inundated ☐ Saturated in upper 12 inch		Depth to Sat Secondar Oxidize		De Indicators	Other opth to Free Wat (2 or more requi		d Data Avail	able
☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits Criteria Met? ☑ Yes ☐	_	□Local S □FAC – □Other:	oil Survey Da Neutral Test	ta				÷
WETLAND? □YES ☑	NO Commen	ts: Wetland s		IINATION s not met.				

DEPARTMENT OF S County: Yamhill	TATE LA							ick Method
Project/Contact: NewB./CS		Date: 2/	28/0/	City: Nev			#:1985	
Plant Community: meadow/s	crub_chrub			Plot #:17	C. Steinkoeni	R		
Plot Location: west side of wetl				P101#:17				
Recent Weather: cold/wet	and .	•						
Do normal environmental con	ditions exist?	γXI	N 🗌 I	f no, explai	in·			
	Soil 🗌				antly disturbe	ed?		
Explain:		,	о _б , С	017 016111110	uniony andicares			
			VEGET	ATION				
Tree	Stratum					Herb Stratur	m	
Total Plot Cover:	= 50% .		= 20%	Total Plot	Cover:100	50 = 5		20 = 20%
		Status/I	Raw % Cover				Sta	tus/Raw % Cover
1.					1. Alopecuri			FACW 30*
2.	·····	 			2.Agrostis st		····	FAC 55*
3.	····	 			3. Juncus par		······································	FACW 15
5.		 			5.	icuna		trace
Sapling/Shrub Stratum					6.			
	50% 3=	20%	Status/Raw	% Cover	7.			
1.Rosa nutkana	30,0 3	~470	FAC 15*	74 00701	8.			
2.	· · · · · · · · · · · · · · · · · · ·		1		9.			
3.					10.			
4.					11.			
5.					12.			
Hydrophytic Vegetation Ind	icators:			···	·			
	, FACW or FA	C Percent	of Dominant S	pecies that	are OBL, FAC	W, FAC (not FAC	-):100	
Other hydrophytic vegetation ind								
Criteria Met? XYes No	o Comment	s: Mets we			l .			
				<u>ILS</u>				
Map Unit Name: Amity silt lo		Drainage	Class: Some	what poor!	y drained			
On Hydric Soil List? Yes	⊠ No	Has Hyd	ric Inclusions	? 🔀 Yes i	∐ No			
Depth Range of Horizon M	atrix Color	1	Redox Conc	entrations	Redox D	epletions	Texture	
<u> </u>	YR3/2		10YR4/6 FF	F			CLL	
	YR4/1		10YR4/6 CI	7D			Si CL	
	<u> </u>				The state of the s			
Hydric Soil Indicators:								
∐Histosol					Nodules (w/in			
☐Histic Epipedon						face (in Sandy Soil	s)	
Sulfidic Odor					aking (in Sandy			
Reducing Conditions (tests po	sitive)				(in Sandy Soil udric Soils List	s) : (and soil profile m	natches)	
Gleyed or low chroma colors Redox features within 10" (e.	z concentration	ns)	H.	Meets hydri	ic soil criteria 3	or 4 (ponded or fl	ooded for lo	ong duration)
Micros regards within 10 (c.)	s., concontinue	13)	T _i	Supplement	al indicator (e.	g., NRCS field indi	icator)	,
Criteria Met? X Yes	No		السا		- *-"		•	
			HYDR	DLOGY				
Recorded Data:						K-71 s.s	.	* •
Recorded Data Available	Aerial Photo	os	☐Stream Ga	uge L	Other	No Recorded	Data Availa	able
Field Data		South to Co	humation 1 En	r	Depth to Free V	Vater:15"		
Depth of inundation:		Secondar Secondar	turation:1.5" ry Hydrology					
Primary Hydrology Indicators: Inundated	<u>.</u>		ed Root Chann					•
Saturated in upper 12 inches			stained leaves	\ \ \ \ \ \ \	,			
☐ Water Marks			Soil Survey Da	ta				
Drift Lines			Neutral Test					
Sediment Deposits		Other:			,			
Criteria Met? ⊠Yes ☐ N	0	Com	nents: .					
			אנסמינימת	INATION				
WETLAND? ⊠YES □NO	Comments:	Wetland		<u> </u>		•		

DEPARTMENT O	F STATE LA				HIMMIN			AL ITACHAOU
County: Yamhill		Date: 2/2	8/07	City: Nev			4 :1985	
Project/Contact: NewB./C				Det. By:	C. Steinkoeni	g		
Plant Community: meado				Plot #:18				
Plot Location: Paired w/17								
Recent Weather: cold/we		_						
Do normal environmental	conditions exist?	$Y \boxtimes$	N 🔲 🛚 I	f no, explai	n:			
Has Vegetation	Soil 🗌	Hydrol	ogy 🔲 🛮 be	en signific	antly disturbe	d?		
Explain:			VEGET	ATION	·			
]	Γree Stratum		, LUGA	711107		Herb Stratur	n	
Total Plot Cover:0	= 50%		20%	Total Plot	Cover:100	50 = 5	0%	20 = 20%
		Status/Ra	w % Cover				Statu	s/Raw % Cover
1.					1. Alopecuru	s pratensis		FACW 30*
2.					2.Agrostis st	olonifera		FAC 55*
3.					3 Juncus pat			FACW 15
4.					4.Vicia amer	icana		trace
5.					5.			·
Sapling/Shrub Stratum					6.			
	7.5= 50% 3=	20%	Status/Raw	% Cover	7.			
1.Rosa nutkana			FAC 15*	·········	8.			
2.					9.			
3.					10.			
4.					11.			
5.					12.			
Hydrophytic Vegetation								
		C Percent of	f Dominant <u>S</u>	pecies that	are OBL, FAC	W, FAC (not FAC-	·):100	
Other hydrophytic vegetation	indicators:							
Criteria Met? ⊠Yes □	No Comments	s: Mets wetl			•			
			<u>so</u>					
Map Unit Name: Amity si			Class: Some					
On Hydric Soil List?	Yes ⊠ No	Has Hydric	Inclusions'	Y X Yes [_] No			
Depth Range of Horizon	Matrix Color		Redox Conc	entrations	Redox D	enletions	Texture	
0-13	10YR3/2		Vone				SI L	
13-18	10YR4/2		0YR4/6 C	FD			Si CL	
	10244							
Hydric Soil Indicators:	l							***************************************
THistosol			По	Concretions/	Nodules (w/in :	3". > 2mm)		
Histic Epipedon			-			ace (in Sandy Soil	s)	
Sulfidic Odor					iking (in Sandy			
Reducing Conditions (test	ts positive)			rganic pan	(in Sandy Soils)		
Gleyed or low chroma col				Listed on Hy	ydric Soils List	(and soil profile m	atches)	
Redox features within 10"	' (e.g., concentration	ıs)				or 4 (ponded or fl		g duration)
	K-21 ***		LI:	Supplement	al indicator (e.g	,, NRCS field indi	cator)	
Criteria Met? Yes	⊠ No		mm	NI ACY				
Pagardad Datas			HYDRO	JLUG Y				
Recorded Data: Recorded Data Available	Aerial Photo	_{2S} [☐Stream Gar	ige T	Other	No Recorded	Data Availab	
Field Data		L		-o- L				le
Depth of inundation:	Acriai Filoto							le
	_	epth to Satur	ation:4"	De	pth to Free Wa	ter:4"		le
Primary Hydrology Indicat								le
□Inundated	tors:	Secondary Oxidized	Hydrology I Root Chann	Indicators (pth to Free War 2 or more requ			le
☐Inundated ☑Saturated in upper 12 incl	tors:	Secondary Oxidized Water-sta	Hydrology l Root Chann ained leaves	Indicators (els (upper 1	pth to Free War 2 or more requ			le
☐Inundated Saturated in upper 12 incl Water Marks	tors:	Secondary Oxidized Water-sta Local So	Hydrology l Root Chann ained leaves il Survey Dat	Indicators (els (upper 1	pth to Free War 2 or more requ			le
☐Inundated ☑Saturated in upper 12 incl ☐Water Marks ☐Drift Lines	tors:	Secondary Oxidized Water-sta Local So FAC - N	Hydrology l Root Chann ained leaves	Indicators (els (upper 1	pth to Free War 2 or more requ			le
☐Inundated ☐Saturated in upper 12 incl ☐Water Marks ☐Drift Lines ☐Sediment Deposits	t <u>ors:</u> hes	Secondary Oxidized Water-sta Local So FAC - N Other:	Hydrology I Root Chann ained leaves il Survey Dat eutral Test	Indicators (els (upper 1	pth to Free War 2 or more requ			le
☐Inundated ☑Saturated in upper 12 incl ☐Water Marks ☐Drift Lines	t <u>ors:</u> hes	Secondary Oxidized Water-sta Local So FAC - N	Hydrology I Root Chann ained leaves il Survey Dat eutral Test	Indicators (els (upper 1	pth to Free War 2 or more requ			le
☐Inundated ☐Saturated in upper 12 incl ☐Water Marks ☐Drift Lines ☐Sediment Deposits	t <u>ors:</u> hes	Secondary Oxidized Water-sta Local So FAC - N Other:	Hydrology I Root Chann ained leaves il Survey Dat eutral Test nts: .	Indicators (els (upper 1	pth to Free War 2 or more requ			le

DEPARTMENT OF STA	ATE LANDS V	VETLAND	DETERN	MINATION	N DATA FO	RM – Qı	uick Method
County: Yamhill		2/28/07	City: Nev			#:1985	
Project/Contact: NewB./CS				C. Steinkoeni	g		
Plant Community: meadow/scru	ıb-shrub		Plot #:19		•		
Plot Location: South end of wetlan	ď						
Recent Weather: cold/wet							
Do normal environmental condit	ions exist? Y🛛	N □ 1	f no, expla	in:			
Has Vegetation Soi	il□ Hy	drology 🔲 🛮 b	een signific	antly disturbe	d?		
Explain:							
P. T. C.		VEGET	<u> TATION</u>			,	
Tree S	tratum				Herb Strati	um	
Total Plot Cover:0	= 50%	= 20%	Total Plot	Cover:55	27.5	= 50%	11 = 20%
	Stati	ıs/Raw % Cover				S	tatus/Raw % Cover
1.				1. Alopecuru			FACW 20*
2.				2.Agrostis st	olonifera		FAC 35*
3.				3.			
4.				4.			
5.				5.			
Sapling/Shrub Stratum				6.			
Total Plot Cover:60 30= 50	% 6= 20%		w % Cover	7.			
1.Rubus discolor		FACU 45)*	8.			
2.Quercus garryana		UPL 5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	9.			
3.Crataegus sp.		FAC/FAC	JU 5	10.			
4.Malus sp.		NOL 5		11.			
5.				12.			
Hydrophytic Vegetation Indica				ODI . T. (O)	UL EACH (==+EA	0.566	
≥ > 50% of dominants are OBL, F		ent of Dominant	Species that	are OBL, FAC	W, FAC (not FA	C-):00	
Other hydrophytic vegetation indica Criteria Met? XYes No		watland waasta	tion oritoria	•			
Citteria Met. Mies Mito	Comments. Mets	_	ILS	••			
Map Unit Name: Amity silt loam	Draina	ge Class: Some		y drained			
On Hydric Soil List? Yes		ydric Inclusions			*		
		, 41.70 1.1101.1101.11					
Depth Range of Horizon Matr	ix Color	Redox Con	centrations	Redox D	epletions	Texture	;
0-13 10YF	R3/2	None				SIL	
13-18 10YI	24/2	10YR4/6 C	FD	·		Si CL	
Hydric Soil Indicators:							
∐Histosol			Concretions/	Nodules (w/in	3", > 2mm)		
Histic Epipedon					face (in Sandy So	oils)	
□Sulfidic Odor				aking (in Sandy			
Reducing Conditions (tests positi	ve)			(in Sandy Soils			
Gleyed or low chroma colors		片	Listed on H	ydric Soils List	(and soil profile	matches)	long duration)
Redox features within 10" (e.g., o	concentrations)	님	Cumplement	ol indicator (a c	or 4 (ponded or g., NRCS field in	ricator)	iong duration)
Cuitania Maria II Van III Na	_	Ц	Supplement	ai muicatoi (e.	g., MACO neid in	idicator)	
Criteria Met? Tyes No	,	מתעש	OLOGY				
Recorded Data:	•	HIDK	OLUGI				
	Aerial Photos	Stream G	moe [Other	⊠ No Records	ed Data Avai	ilable
Field Data	1/40/14/ / 110/03		-u50 E	_ O	<u></u>		
Depth of inundation:	Depth to	Saturation:4"	De	pth to Free Wa	ter:6"		,
Primary Hydrology Indicators:	Secon	dary Hydrology	Indicators	(2 or more requ	ired):		
☐Inundated		dized Root Cham		2")			•
Saturated in upper 12 inches		er-stained leaves					
☐ Water Marks		al Soil Survey Da	ata				
Drift Lines		- Neutral Test					•
Sediment Deposits	□Oth		•				•
Criteria Met? XYes No	Со	mments: .					
•		DETERN	MINATION				
WETLAND? □YES ⊠NO	Comments: Slight:				ors observed.		
	_	•	•				

DEPARTMENT O	F STATE LAI							ick Method
County: Yamhill		Date: 2/	28/07	City: Nev			e #:1985	
Project/Contact: NewB./C				-	C. Steinkoeni	g		
Plant Community: meado Plot Location: paired w/19	ow/scrub-snrub			Plot #:20				
Recent Weather: cold/wes	· •							
Do normal environmental		VXI	иП п	f no, explai	n•.			
Has Vegetation	Soil				antly disturbe	ed?		
Explain:	DOM	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	nogy oc	7011 31 5 1111101	anciy dibidi be	, a :		
			VEGET	ATION				
	Tree Stratum					Herb Strat	um	
Total Plot Cover:0	= 50%	. 1	= 20%	Total Plot	Cover:100	50 =	50%	20 = 20%
		Status/	Raw % Cover				Sta	tus/Raw % Cover
1.		<u> </u>			1. Alopecuri			FACW 20*
2.					2.Agrostis st	tolonifera		FAC 80*
3.					3.			·
4.		 			5.			
Sapling/Shrub Stratum					6.			
	7.5= 50% 3=	20%	Status/Rav	y % Cover	7.			
1.Crataegus sp.	7.5 5070 5	2070	FAC or F		8.			
2.			1110 011	1100 - 15	9.		······································	
3.			_		10.			
4.			_		11.			
5.					12.			
Hydrophytic Vegetation	Indicators:				<u> </u>			
	OBL, FACW or FA	C Percent	of Dominant S	Species that	are OBL, FAC	W, FAC (not FA	C-):100	
Other hydrophytic vegetation			_					
Criteria Met? XYes	No Comments	: Did not	include hawt	horn.				
				<u>ILS</u>				
Map Unit Name: Amity si		Drainage	Class: Some	what poorl	y drained			
On Hydric Soil List?	Yes 🔀 No	Has Hyd	ric Inclusions	? 🔀 Yes [No			
Depth Range of Horizon	Matrix Color		Redox Cond	entrations	Redox D	epletions	Texture	
0-12	10YR3/2		10YR3/6 M		1000012	<u> </u>	SICL	
12-18	10YR4/2		10YR4/6 C				Si CL	
12.10	10110112		1011110		_			
Hydric Soil Indicators:								· · · · · · · · · · · · · · · · · · ·
[]Histosol				Concretions/	Nodules (w/in	3", > 2mm)		
Histic Epipedon						face (in Sandy So	oils)	
☐Sulfidic Odor					iking (in Sand)			
Reducing Conditions (test					(in Sandy Soil		\\	
Gleyed or low chroma col		د.	님	Listed on Hy	yarıc Sons Lisi	t (and soil profile 3 or 4 (ponded or	matches;	ong duration)
Redox features within 10'	(e.g., concentration	15)	님	Supplement	al indicator (e.	g., NRCS field in	dicator)	ong duranon,
Criteria Met? 🛛 Yes	No		L-J	Dappionione		6.,	,	
CHICKIN WICE. KN 100	L-1 - 10		HYDR	OLOGY				
Recorded Data:			======					
Recorded Data Available	☐Aerial Photo	os	☐Stream Ga	uge [Other	☒ No Recorde	ed Data Avail	able
Field Data								
Depth of inundation:			turation:to surf			Free Water:1"		
Primary Hydrology Indica	tors:		ry Hydrology			mea):		
☐Inundated ☑Saturated in upper 12 incl	hes		ed Root Chanr stained leaves	iera (nhbet i	<i>-</i>)			
Water Marks	1103		Soil Survey Da	ıta				
Drift Lines			Neutral Test	-				
Sediment Deposits		Other:				• .		
Criteria Met? ∑Yes [] No		nents: Area h	as patches o	f standing wa	ter.		
	7			<u>IINATION</u>				
WETLAND? YES	NO Comments:	Wetland c	riteria met.					

DEPARTMENT OF	STATE LAI						
County: Yamhill		Date: 2/2	28/07	City: Nev		File #	1:1985
Project/Contact: NewB./CS Plant Community: meadow	:/a.am.la_all-				C. Steinkoen	ig	
Plot Location: east side if iso				Plot #:21			
Recent Weather: cold	iated Welland						
Do normal environmental co	onditions exist?	γ⊠	иП п	f no, explai	in·		
Has Vegetation	Soil		-		antly disturbe	ed?	
Explain:		,	· ·				
			VEGET	ATION			
Tr	ee Stratum					Herb Stratun	n
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:55	27.5 =	
1.		Status/R	aw % Cover		1 1/2	un mundamain	Status/Raw % Cov FACW 20*
2.			·		1. Alopecuri 2. Agrostis si		FAC 60*
3.	·				3. Festuca at		FAC- 20*
4.					4.		
5.					5.		
Sapling/Shrub Stratum					6.		
the state of the s	5= 50% 10	= 20%	Status/Raw		7.		
1.Rubus discolor			FACU 50	* 	8.		
2.		····	<u> </u>		9.		
3.	•				10.		
4.	·				11.		
5.	- 31 - 4				12.		
Hydrophytic Vegetation In	NOICATOFS: RI FACW or FAG	Percent (of Dominant S	necies that	are OBL. FAC	W FAC (not FAC-)	·75
Other hydrophytic vegetation i		o i diconi (or Dominant <u>c</u>	pecies unat	art ODE, 1710	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<i></i>
Criteria Met? ⊠Yes □		: Mets wet	tland vegetat	ion criteria			
				<u>ILS</u>			
Map Unit Name: Amity silt			Class: Some				•
On Hydric Soil List? Y	es 🔀 No	Has Hydr	ic Inclusions	? X Yes] No		
Depth Range of Horizon	Matrix Color		Redox Conc	entrations	Redox I	Depletions	Texture
	10YR3/2		None				SI CL
13-18	10YR4/2		10YR4/6 F	FD			Si CL
Hydric Soil Indicators:				Tamanatiana	Nodules (w/in	2" > 2mm)	
☐Histosol ☐Histic Epipedon						face (in Sandy Soils	5)
Sulfidic Odor					aking (in Sand		•
Reducing Conditions (tests	positive)			Organic pan	(in Sandy Soil	s)	
☐Gleyed or low chroma color				Listed on H	ydric Soils Lis	t (and soil profile m	atches)
Redox features within 10" (e.g., concentration	s)					ooded for long duration)
Criteria Met? Tyes	⊠ No		L	sappiement	ai muicator (e.	g., NRCS field indic	outor)
Cincila Mici: [] I es [77 110		HYDR	<u>OLOGY</u>			
Recorded Data:	Fla-dates :		Пе	,, ₂₂ r	7 Other	No Recorded	Data Availahla
Recorded Data Available	Aerial Photo	DS	Stream Ga	uge L	Other	M INO RECORDED	Data Available
Field Data Depth of inundation:	П	epth to Sati	uration:		Depth to Free	e Water:	
Primary Hydrology Indicato				Indicators	(2 or more requ		
☐Inundated			d Root Chann	els (upper l	2")		
Saturated in upper 12 inche	s		tained leaves	to			
☐Water Marks			oil Survey Da Neutral Test	ld			
☐Drift Lines ☐Sediment Deposits		Other:	riculiai 153l				
Criteria Met? Yes	No	Comm	ents: .				·.
Citotia Mater Citos KA	- 14	20					
WETLAND? □YES ⊠	NO Comments:	No wetland	<u>DETERM</u> I hydrology o	IINATION		•	

	DATE DE LOCALINA	ING AND IT	LANDI	DETERM	IINATION	DAIAFUL	KM – Qu	ick Method
County: Yamhill		Date: 2/28/	07	City: Nev			#:1985	
Project/Contact: NewB./CS					C. Steinkoenig	•		
Plant Community: meadov				Plot #:22				
Plot Location: Paired w/ sam Recent Weather: cold/wet	ple plot 21							
Do normal environmental co	anditions evict?	v⊠ N	[] I	fna avalai	n .			
Has Vegetation	Soil Soil	Hydrolog		f no, explai	n. antly disturbed	19		
Explain:	0011[_]	119010108	5 L_1 0C	en aigmne	mily disturbed	1.5		
			VEGET	ATION				
Tr	ree Stratum					Herb Stratu	m	
Total Plot Cover:0	= 50%	= 2	20%	Total Plot	Cover:100	50 = 5	50%	20 = 20%
		Status/Raw						tus/Raw % Cover
1.					1. Alopecurus			FACW 50*
2.					2.Agrostis sto	lonifera		FAC 45*
3. 4.					3.Moss			5
5.					4. 5.			
Sapling/Shrub Stratum					6.			
	5= 50% 1= 3	20%	Status/Raw	% Cover	7.			
1.Rubus discolor			FACU 5 *		8.			
2.					9.			
3.					10.			
4.					11.		····	
5.				- 	12.			
Hydrophytic Vegetation In			,					
		Percent of E	Dominant <u>S</u>	pecies that a	re OBL, FACV	I, FAC (not FAC	-):100	
Other hydrophytic vegetation i	ndicators:	37			·			
Criteria Met? ⊠Yes ☐	No Comments:	: vegetation						
Map Unit Name: Amity silt	loam	Drainage Cla	<u>SO</u>		drained			
On Hydric Soil List? Ye		Has Hydric I						
On Hydric bon Dist. [] 1	22 63110	1145 117 4110 1	11010010110	. 57 . 00 [
Depth Range of Horizon	Matrix Color	175-						
0-12	*******	Ke	dox Conc	entrations	Redox De	pletions	Texture	
0-12	10YR3/2	10	YR3/6 CF	F	Redox De	pletions	SIL	
		10		F	Redox De	pletions		
12-18	10YR3/2	10	YR3/6 CF	F	Redox De	pletions	SIL	
12-18 Hydric Soil Indicators:	10YR3/2	10	YR3/6 CF YR4/6 M	FD			SIL	
Hydric Soil Indicators:	10YR3/2	10	YR3/6 CF YR4/6 M	FD Concretions/	Nodules (w/in 3	", > 2mm)	SI L Si CL	
Hydric Soil Indicators: Histosol Histic Epipedon	10YR3/2	10	YR3/6 CF YR4/6 M	FD Concretions/I	Nodules (w/in 3 content in surfa	", > 2mm) ace (in Sandy Soi	SI L Si CL	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor	10YR3/2 10YR4/2	10	YR3/6 CF YR4/6 M □C	FD Concretions/ligh organic strea	Nodules (w/in 3 content in surfaking (in Sandy	", > 2mm) ice (in Sandy Soi Soils)	SI L Si CL	
Hydric Soil Indicators: Histosol Histic Epipedon	10YR3/2 10YR4/2 positive)	10	YR3/6 CF YR4/6 M	FD Concretions/ligh organic Organic strea Organic pan (Custed on Hy	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (", > 2mm) ace (in Sandy Soi Soils) and soil profile n	SI L Si CL	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests	10YR3/2 10YR4/2 positive)	10	YR3/6 CF YR4/6 M	Concretions/A Ligh organic Organic streat Organic pan (Listed on Hy Meets hydri	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (a soil criteria 3	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or f	SI L Si CL is)	ong duration)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (10YR3/2 10YR4/2 positive)	10	YR3/6 CF YR4/6 M	Concretions/A Ligh organic Organic streat Organic pan (Listed on Hy Meets hydri	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (a soil criteria 3	", > 2mm) ace (in Sandy Soi Soils) and soil profile n	SI L Si CL is)	ong duration)
Hydric Soil Indicators: Histosol	10YR3/2 10YR4/2 positive)	10	YR3/6 CF YR4/6 M	Concretions/Aigh organic streatorganic pan (Listed on Hy Meets hydric Supplementa	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (a soil criteria 3	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or f	SI L Si CL is)	ong duration)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes	10YR3/2 10YR4/2 positive)	10	YR3/6 CF YR4/6 M	Concretions/Aigh organic streatorganic pan (Listed on Hy Meets hydric Supplementa	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or f	SI L Si CL is)	ong duration)
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data:	10YR3/2 10YR4/2 positive) rs e.g., concentrations	10 10	YR3/6 CF YR4/6 M	Concretions/Aigh organic streating on Hy Meets hydric Supplements	Nodules (w/in 3 content in surfaking (in Sandy (in Sandy Soils) dric Soils List (c soil criteria 3 al indicator (e.g.	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or fi , NRCS field ind	SI L Si CL Is) natches) looded for loicator)	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data: Recorded Data Available	10YR3/2 10YR4/2 positive)	10 10	YR3/6 CF YR4/6 M	Concretions/Aigh organic streating on Hy Meets hydric Supplements	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or f	SI L Si CL Is) natches) looded for loicator)	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data: Recorded Data Available Field Data	positive) se.g., concentrations No	10 10	YR3/6 CF YR4/6 M	Concretions/I Iigh organic strea Organic pan o Listed on Hy Meets hydri Supplementa OLOGY uge	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3 al indicator (e.g.	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or fi , NRCS field ind	SI L Si CL Is) Inatches) Iooded for locator)	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicator	10YR3/2 10YR4/2 positive) rs e.g., concentrations No	s) spepth to Saturat Secondary H	YR3/6 CF YR4/6 M CO	Concretions/I Iigh organic strea Organic pan o Listed on Hy Meets hydri Supplementa DLOGY uge Led to the sur Indicators (Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3 al indicator (e.g.	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or fl , NRCS field ind NRCS field ind	SI L Si CL Is) Inatches) Iooded for locator)	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicator Inundated	positive) se.g., concentrations No Aerial Photos	s) septh to Saturat Secondary H Oxidized R	YR3/6 CF YR4/6 M CO	Concretions/I Iigh organic strea Organic pan o Listed on Hy Meets hydri Supplementa DLOGY uge Led to the sur Indicators (Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3 al indicator (e.g.	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or fl , NRCS field ind NRCS field ind	SI L Si CL Is) Inatches) Iooded for locator)	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicator Inundated Saturated in upper 12 inche	positive) se.g., concentrations No Aerial Photos	s) septh to Saturat Secondary H Oxidized R Water-stain	YR3/6 CF YR4/6 M CO	Concretions/I Iigh organic organic strea Organic pan Listed on Hy Meets hydri Supplementa DLOGY uge Led to the sur Indicators (els (upper 1)	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3 al indicator (e.g.	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or fl , NRCS field ind NRCS field ind	SI L Si CL Is) Inatches) Iooded for locator)	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicator Inundated Saturated in upper 12 inche Water Marks	positive) se.g., concentrations No Aerial Photos	epth to Saturat Secondary H Oxidized R Water-stair Local Soil	YR3/6 CF YR4/6 M CO	Concretions/I Iigh organic organic strea Organic pan Listed on Hy Meets hydri Supplementa DLOGY uge Led to the sur Indicators (els (upper 1)	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3 al indicator (e.g.	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or fl , NRCS field ind NRCS field ind	SI L Si CL Is) Inatches) Iooded for locator)	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicator Inundated Saturated in upper 12 inche	positive) se.g., concentrations No Aerial Photos	s) septh to Saturat Secondary H Oxidized R Water-stain	YR3/6 CF YR4/6 M CO	Concretions/I Iigh organic organic strea Organic pan Listed on Hy Meets hydri Supplementa DLOGY uge Led to the sur Indicators (els (upper 1)	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3 al indicator (e.g.	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or fl , NRCS field ind NRCS field ind	SI L Si CL Is) Inatches) Iooded for locator)	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicator Inundated Saturated in upper 12 inche Water Marks Drift Lines	positive) se.g., concentrations No Aerial Photos rs:	epth to Saturat Secondary H Oxidized R Water-stair Local Soil	YR3/6 CF YR4/6 M CO	Concretions/I Iigh organic organic strea Organic pan Listed on Hy Meets hydri Supplementa DLOGY uge Led to the sur Indicators (els (upper 1)	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3 al indicator (e.g.	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or fl , NRCS field ind NRCS field ind	SI L Si CL Is) Inatches) Iooded for locator)	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicator Inundated Saturated in upper 12 inche Water Marks Drift Lines Sediment Deposits	positive) se.g., concentrations No Aerial Photos rs:	epth to Saturat Secondary H Oxidized R Water-stair Local Soil FAC - Net Other: Comment	YR3/6 CF YR4/6 M CO	Concretions/I Iigh organic strea Organic pan Constituted on Hy Meets hydric Supplementa DLOGY uge ed to the sur Indicators (els (upper 1)	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3 al indicator (e.g.	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or fl , NRCS field ind NRCS field ind	SI L Si CL Is) Inatches) Iooded for locator)	
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicator Inundated Saturated in upper 12 inche Water Marks Drift Lines Sediment Deposits	positive) rs e.g., concentrations No Aerial Photos De rs:	epth to Saturat Secondary H Oxidized R Water-stair Local Soil FAC - Net Other: Comment	YR3/6 CF YR4/6 M CO	Concretions/I Iigh organic strea Organic pan o Listed on Hy Meets hydri Supplementa DLOGY uge ed to the sur Indicators (els (upper 1)	Nodules (w/in 3 content in surfaking (in Sandy Soils) dric Soils List (c soil criteria 3 al indicator (e.g.	", > 2mm) ice (in Sandy Soi Soils) and soil profile n or 4 (ponded or fl , NRCS field ind NRCS field ind	SI L Si CL Is) Inatches) Iooded for locator)	

DEPARTMENT OF	~ ~ ~ ~ ~ ~ ~ ~ ~			AND A BURNEY	TTI ITT TOI	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TOTAL CE	HCW IATCHROR
County: Yamhill		Date: 2/2	8/07	City: Nev	vberg		File #:1985	
Project/Contact: NewB./CS					C. Steinkoeni	3		
Plant Community: meadow/	scrub-shrub			Plot #:23		-		
Plot Location:								
Recent Weather: cold								
Do normal environmental con	nditions exist?	YΧ	N 🗌 I	f no, explai	in:			
Has Vegetation	Soil	Hydrolo			antly disturbe	d?		
Explain:		•	<i></i>	J				
•			VEGET	ATION				v.
Tre	e Stratum	····			· · · · · · · · · · · · · · · · · · ·	Herb S	tratum	
Total Plot Cover:0	= 50%		20% w % Cover	Total Plot	Cover:100		50 = 50%	20 = 20%
		Status/Ra	w % Cover	L	1 dlappan		21	atus/Raw % Cover
2.					1. Alopecuru. 2. Agrostis sto			FACW 20* FAC 50*
3.			•		3.Dactylis gl			FACU 20*
4.					4.Chrysanthe			NOL 5
5.					5.Aster sp.	mum, euc.		Unknown 5
					6.			Ulkilowii 5
Sapling/Shrub Stratum	5 500/ 7- /	2007	C+-+/D	n/ O	<u> </u>			
	5= 50% 7= 2	20%	Status/Raw		7.			
1.Rubus discolor			FACU- 10		8.			-
2.Rubus laciniatus			FACU+ to	ace	9.			
3.Rhamnus purshiana			FAC- 5		10.			
4.Crataegus sp			FAC/FAC	U 20*	11.			
5.					12.			
Hydrophytic Vegetation In-	dicators:							
> 50% of dominants are OB	L, FACW or FAC	Percent of	Dominant S	pecies that	are OBL, FAC\	V, FAC (по	t FAC-):50	
Other hydrophytic vegetation in	dicators:							
Criteria Met? Yes 🛛 N	lo Comments:	Hawthron	species not	included.				
			SO	<u>ILS</u>				
Map Unit Name: Amity silt le	oam .	Drainage C	lass: Some	what poorly	y drained			
On Hydric Soil List? TYes		Has Hydric	. T., . 1.,	- K I				
		i ius i i jui ic	inclusions	? ⊠Yes [□No			
	Walish Company of Walls						T	
	Matrix Color	F	Redox Conc		No Redox Do	pletions	Texture	
0-13 1	0YR3/2	F	Redox Conc Vone	entrations		pletions	SIL	
0-13		F	Redox Conc	entrations		epletions		
0-13 1	0YR3/2	F	Redox Conc Vone	entrations		epletions	SI L Si CL	
0-13 1	0YR3/2	F	Redox Conc Vone	entrations		epletions	SI L Si CL	
0-13 1 13-18 1	0YR3/2	F	Redox Conc None 0YR4/6 M	entrations IFD Concretions/	Redox Do	3", > 2mm)	SI L Si CL	
0-13 1 1 13-18 1 Hydric Soil Indicators:	0YR3/2	F	Redox Conc None 0YR4/6 M	Entrations (FD Concretions/ High organic	Redox Do	3", > 2mm) ace (in Sand	SI L Si CL	
O-I3 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor	0YR3/2 0YR4/2	F	Redox Conc None 0YR4/6 M	Entrations (FD) Concretions/ High organic stream	Redox Do Nodules (w/in 3	3", > 2mm) ace (in Sand Soils)	SI L Si CL	
O-I3 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p	0YR3/2 0YR4/2 ositive)	F N	Redox Conc None 0YR4/6 M	entrations (FD Concretions/ High organic organic stream) Organic stream) Organic pan	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils	3", > 2mm) ace (in Sand Soils)	SI L Si CL dy Soils)	
O-I3 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors	0YR3/2 0YR4/2 ositive)	F	Redox Conc None 0YR4/6 M	Concretions/ High organic organic streat	Nodules (w/in 3 content in surfaking (in Sandy Soils ydric Soils List	i", > 2mm) ace (in Sand Soils)) (and soil pr	SI L Si CL dy Soils) ofile matches)	
O-I3 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p	0YR3/2 0YR4/2 ositive)	F	Redox Conc None OYR4/6 M	entrations (FD Concretions/ High organic Organic stress Organic pan Listed on Hy Meets hydri	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3	i", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde	SI L Si CL dy Soils) ofile matches) ed or flooded for l	
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e.	0YR3/2 0YR4/2 ositive) .g., concentrations	F	Redox Conc None OYR4/6 M	entrations (FD Concretions/ High organic Organic stress Organic pan Listed on Hy Meets hydri	Nodules (w/in 3 content in surfaking (in Sandy Soils ydric Soils List	i", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde	SI L Si CL dy Soils) ofile matches) ed or flooded for l	
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e.	0YR3/2 0YR4/2 ositive)	F	Redox Conc None OYR4/6 M	Concretions/ High organic Organic streat Organic pan Listed on Hy Meets hydri Supplementa	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3	i", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde	SI L Si CL dy Soils) ofile matches) ed or flooded for l	
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e.	0YR3/2 0YR4/2 ositive) .g., concentrations	F	Redox Conc None OYR4/6 M	entrations (FD Concretions/ High organic Organic stress Organic pan Listed on Hy Meets hydri	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3	i", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde	SI L Si CL dy Soils) ofile matches) ed or flooded for l	
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? Yes Recorded Data:	OYR3/2 OYR4/2 ositive) .g., concentrations	F T T T T T T T T T	Redox Conc None 0YR4/6 M	Concretions/ High organic organic streating on Hymeets hydris Supplements	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e Criteria Met? Yes Recorded Data: Recorded Data Available	0YR3/2 0YR4/2 ositive) .g., concentrations	F T T T T T T T T T	Redox Conc None OYR4/6 M	Concretions/ High organic organic streating on Hymeets hydris Supplements	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for l	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e Criteria Met? Yes Recorded Data: Recorded Data Available Field Data	OYR3/2 OYR4/2 ositive) g., concentrations No) F	Redox Conc None OYR4/6 M OH	Concretions/ High organic organic streating on Hymeets hydris Supplements	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation:	OYR3/2 OYR4/2 ositive) .g., concentrations No Aerial Photos	Find the second of the second	Redox Conc None OYR4/6 M G G G G G G G G G G G G G G G G G G	Concretions/ High organic organic streating on Hymeets hydris Supplements DLOGY uge	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators	OYR3/2 OYR4/2 ositive) g., concentrations No Aerial Photos De	pth to Satur Secondary	Redox Conc None OYR4/6 M OR OF THE STREET CAN HYDRO Stream Ga ration: Hydrology	Concretions/ High organic organic streating on Hymeets hydris Supplements DLOGY uge Indicators (Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g Other Depth to Free 2 or more requi	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated	OYR3/2 OYR4/2 ositive) g., concentrations No Aerial Photos De	pth to Satur Secondary	Redox Conc None OYR4/6 M GRANGE GRANGE GRANGE HYDRO Stream Ga ation: Hydrology Root Chann	Concretions/ High organic organic streating on Hymeets hydris Supplements DLOGY uge Indicators (Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g Other Depth to Free 2 or more requi	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches	OYR3/2 OYR4/2 ositive) g., concentrations No Aerial Photos De	pth to Satur Secondary	Redox Conc None OYR4/6 M OYR4/6 M OH	Concretions/ ligh organic organic streators (and in the control of	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g Other Depth to Free 2 or more requi	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches Water Marks	OYR3/2 OYR4/2 ositive) g., concentrations No Aerial Photos De	pth to Satur Secondary Oxidized Water-sta	Redox Conc None OYR4/6 M OYR4/6 M OH	Concretions/ ligh organic organic streators (and in the control of	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g Other Depth to Free 2 or more requi	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches Water Marks Drift Lines	OYR3/2 OYR4/2 ositive) g., concentrations No Aerial Photos De	pth to Satur Secondary Oxidized Water-sta	Redox Conc None OYR4/6 M OYR4/6 M OH	Concretions/ ligh organic organic streators (and in the control of	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g Other Depth to Free 2 or more requi	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	OYR3/2 OYR4/2 ositive) .g., concentrations No Aerial Photos De	pth to Satur Secondary Oxidized Water-sta	Redox Conc None OYR4/6 M OYR4/6 M OH	Concretions/ ligh organic organic streators (and in the control of	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g Other Depth to Free 2 or more requi	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches Water Marks Drift Lines	OYR3/2 OYR4/2 ositive) .g., concentrations No Aerial Photos De	pth to Satur Secondary Oxidized Water-sta	Redox Conc None OYR4/6 M OYR4/6 M OH	Concretions/ ligh organic organic streators (and in the control of	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g Other Depth to Free 2 or more requi	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)
O-13 1 13-18 1 Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests p Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? Yes Recorded Data: Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits	OYR3/2 OYR4/2 ositive) .g., concentrations No Aerial Photos De	pth to Satur Secondary Oxidized Water-sta	Redox Conc None OYR4/6 M OYR4/6 M OH	Concretions/ ligh organic organic streators (and in the control of	Redox Do Nodules (w/in 3 content in surf aking (in Sandy (in Sandy Soils ydric Soils List c soil criteria 3 al indicator (e.g Other Depth to Free 2 or more requi	3", > 2mm) ace (in Sand Soils)) (and soil pr or 4 (ponde ., NRCS fie	SI L Si CL dy Soils) ofile matches) ed or flooded for leld indicator)	long duration)

Project/Contact: NewBJ.CS Det. By: C. Steinkoenig	DEPARTMENT OF	STATE LAI			DETERI	MINATIO	N DATA FOR	RM – Qu	ick Method
Plant Coardion's Paired with Sample plot 23 Recent Weather: cold Do normal environmental conditions exist? Soul	County: Yamhill				City: Ne	wberg	File		
Plot Location: Paired wt sample plot 23 Recent Weather: cold Do normal environmental conditions exist? Y							g		
Recent Weather: cold Do normal environmental conditions exist? Y N If no, explain: Hydrology been significantly disturbed?					Plot #:24	ļ			
Do normal environmental conditions exist? Y		ple plot 23							
Has Vegetation Soil		****	K-71	[]					
Tree Stratum									
Tree Stratum		Soil	Hydr	ology 📙 be	en signific	antly disturbe	d?		
Tree Stratum	Explain:								
Total Plot Cover-9	Г. Т.	ran Stratum		VEGET	ATION		TI Ctt		
Status/Raw % Cover		ee Straittii					Helo suatu		
	Total Plot Cover:0	= 50%			Total Plot	Cover:100	50 = 5		
2. de	-		Status/	Raw % Cover	L	1 11		Sta	
3. 3. 3. 3. 5 5			ļ						
4.			ļ				otonijera	···	~ _
5. 5.			 						<u> </u>
Sapling/Shrub Stratum			 						
Total Plot Cover:30 15=50% 6=20% Status/Raw % Cover 7.			 						
J.Rosa mukana		5= 50% 6=	20%	Status/Ray	v % Cover				
2.					. 70 00701		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
3.				111000					
4.				 					
12. Hydrophytic Vegetation Indicators:	The same of the sa								
Hydrophytic Vegetation Indicators: S 50% of dominants are OBL, FACW or FAC Percent of Dominant Species that are OBL, FACW, FAC (not FAC-):100 Other hydrophytic vegetation indicators: Criteria Met?									
Signature Sig		ndicators				1 12.			.!
Other hydrophytic vegetation indicators: Criteria Met? Yes No Comments: Vegetation criterion is met. SOULS Map Unit Name: Amity silt loam Drainage Class: Somewhat poorly drained Has Hydric Inclusions? Yes No No Has Hydric Inclusions? Yes No Has Hydric Inclusions? Yes No Has Hydric Soil List (and soil profile matches) No Hydric Soil Indicators: Histosol			C Percent	of Dominant S	Species that	are OBL, FAC	W. FAC (not FAC	-):100	
Map Unit Name: Amity silt loam On Hydric Soil List?			.						
Map Unit Name: Amity silt loam On Hydric Soil List?	Criteria Met? XYes	No Comments	s: Vegetat			x			
Depth Range of Horizon		_							
Depth Range of Horizon Matrix Color Redox Concentrations Redox Depletions Texture 0-10 10YR3/2 10YR3/6 MMF S1 L 10-16 10YR4/2 10YR4/6 MFD Si CL Hydric Soil Indicators: Histosol									
10YR3/2	On Hydric Soil List? Y	es 🗵 No	Has Hyd	ric Inclusions	Y X Yes	□ No			
O-10	Depth Range of Horizon	Matrix Color		Redox Cond	entrations	Redox D	epletions	Texture	
10-16								SIL	
Hydric Soil Indicators: Histosol								Si CL	
Histosol	10.10	10111112							
Histosol	Hydric Soil Indicators:				· · · · · · · · · · · · · · · · · · ·				<u> </u>
Histic Epipedon					Concretions/	Nodules (w/in	3", > 2mm)		
Sulfidic Odor								s)	
Gleyed or low chroma colors									
Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration) Supplemental indicator (e.g., NRCS field indicator)	Reducing Conditions (tests	positive)			Organic pan	(in Sandy Soils	i)		
Supplemental indicator (e.g., NRCS field indicator) Supplemental indicator (e.g., NRCS field indicator)	Gleyed or low chroma color	rs			Listed on H	ydric Soils List	(and soil profile n	natches)	*** -4* >
Criteria Met?		e.g., concentration	ıs)	님	Meets hydr	ic soil criteria 3	or 4 (ponded or II	ooded for it	ong duration)
Recorded Data: Recorded Data Available	6 1 1 2 10 NAV F	¬1 ът			Supplement	al indicator (e.g	g., NRCS field indi	icator)	
Recorded Data: Recorded Data Available Recorded Data Available Field Data Depth of inundation: Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Dirift Lines Sediment Deposits Criteria Met? Stream Gauge Other Other: Other O	Criteria Met? X Yes	[─] 140		IIVAN	OI OCV				•
☐ Recorded Data Available ☐ Aerial Photos ☐ Stream Gauge ☐ Other ☐ No Recorded Data Available Field Data ☐ Depth of inundation: ☐ Depth to Saturation: Saturated to the surface ☐ Depth to Free Water: Primary Hydrology Indicators: ☐ Secondary Hydrology Indicators (2 or more required): ☐ Inundated ☐ Oxidized Root Channels (upper 12") ☐ Saturated in upper 12 inches ☐ Water-stained leaves ☐ Water Marks ☐ Local Soil Survey Data ☐ Drift Lines ☐ FAC - Neutral Test ☐ Sediment Deposits ☐ Other: Criteria Met? ☐ Yes ☐ No Comments: DETERMINATION	Decorded Date:			HYDK	OLUGI				
Field Data Depth of inundation: Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Criteria Met? Depth to Saturation: Saturated to the surface Depth to Free Water: Secondary Hydrology Indicators (2 or more required): Oxidized Root Channels (upper 12") Water stained leaves Local Soil Survey Data FAC - Neutral Test Other: Comments:		Aerial Photo	ne	Stream Ga	uige [Other	No Recorded	Data Avail	able
Depth of inundation: Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Criteria Met? Depth to Saturation: Saturated to the surface Depth to Free Water: Secondary Hydrology Indicators (2 or more required): Water Saturated in tupper 12") Water-stained leaves Local Soil Survey Data FAC - Neutral Test Other: Comments: DETERMINATION		LIAGIAI FIIOR	,,,	Liberali Oa	<u>6</u> - L				
Primary Hydrology Indicators: Secondary Hydrology Indicators (2 or more required): □ Inundated □ Oxidized Root Channels (upper 12") □ Saturated in upper 12 inches □ Water-stained leaves □ Water Marks □ Local Soil Survey Data □ Drift Lines □ FAC − Neutral Test □ Sediment Deposits □ Other: Criteria Met? □ Yes □ No DETERMINATION		D	epth to Sa	turation:Satura	ted to the su	rface	Depth to Free \	Water:	
□Inundated □Oxidized Root Channels (upper 12") □Saturated in upper 12 inches □Water-stained leaves □Water Marks □Local Soil Survey Data □Drift Lines □FAC – Neutral Test □Sediment Deposits □Other: Criteria Met? □Yes □ No Comments: DETERMINATION									
Saturated in upper 12 inches □ Water-stained leaves □ Water Marks □ Local Soil Survey Data □ Drift Lines □ FAC - Neutral Test □ Sediment Deposits □ Other: Criteria Met? ☑ Yes ☐ No DETERMINATION							-		
□ Water Marks □ Local Soil Survey Data □ Drift Lines □ FAC – Neutral Test □ Sediment Deposits □ Other: Criteria Met? ☑ Yes □ No Comments: DETERMINATION		S	the same of the sa						
Sediment Deposits □Other: Criteria Met? ☑Yes □ No Comments: . DETERMINATION	☐Water Marks				ıta				
Criteria Met? XYes No Comments: . DETERMINATION									
<u>DETERMINATION</u>		•							
	Criteria Met? ∐Yes ∐	No	Com	nents: .				•	
				DETEDL	INATION		,		
	WETLAND? ⊠YES □	NO Comments:	All wetlan	,					

DEPARTMENT O	F STATE LAN			DETERN	MNATION	N DATA FOR	<u> RM – Q</u> u	ick Method
County: Yamhill		Date: 2/2	8/07	City: Nev			#:1985	
Project/Contact: NewB./C				Det. By:	C. Steinkoeni	g		
Plant Community: meado	w			Plot #:25				
Plot Location: south of isola	ated wetland							
Recent Weather: cold/wet								
Do normal environmental	conditions exist?	$Y \boxtimes$	N 🔲 I	f no, explai	in:			
Has Vegetation	Soil	Hydrol	ogy 🔲 be	en signific	antly disturbe	d?		
Explain:		•		•	-			
•			VEGET	ATION				
Т	ree Stratum					Herb Stratu	m	
Total Plot Cover:0	= 50%	=	= 20%	Total Plot	Cover:100	50 = 5	i0%	20 = 20%
		Status/Ra	w % Cover				Sta	tus/Raw % Cover
1.	······································				1. Alopecuru	s pratensis		FACW 20*
2.					2.Agrostis st	olonifera		FAC 80*
3.		<u> </u>			3.			
4.					4.			
5.					5.			
Sapling/Shrub Stratum				· · · · · · · · · · · · · · · · · · ·	6.			
Total Plot Cover:	= 50%	= 20%	Status/Raw	% Cover	7			
1.					8.	<u> </u>		
2.					9.			
3.					10.			
4.					11.			
5.			<u> </u>		12.			<u> </u>
Hydrophytic Vegetation	Indicators:							
		C Percent of	f Dominant <u>S</u>	pecies that	are OBL, FAC	W, FAC (not FAC	-):100	
Other hydrophytic vegetation	indicators:							
Criteria Met? ⊠Yes □	No Comments	: Did not in						
	•		<u>so</u>	<u>ils</u>		•		
Map Unit Name: Amity sil		Drainage (Class: Some	what poor!	y drained			
On Hydric Soil List?	res ⊠ No	Has Hydri	c Inclusions	? X Yes	☐ No			
Depth Range of Horizon	Matrix Color]	Redox Conc	entrations	Redox D	epletions	Texture	
0-12	10YR3/2		10YR3/6 M	FD			SI CL	
12-18	10YR4/2		10YR4/6 C	FD			Si CL	
Hydric Soil Indicators:	······································							
∏Histosol				Concretions/	Nodules (w/in	3", > 2mm)		
Histic Epipedon						face (in Sandy Soil	ls)	
☐Sulfidic Odor					aking (in Sandy			
Reducing Conditions (test					(in Sandy Soils			
Gleyed or low chroma colo			片.	Listed on Hy	ydric Soils List	(and soil profile n or 4 (ponded or fl	natches) Londed for Lo	na duration)
Redox features within 10"	(e.g., concentration	is)				or 4 (ponded or n g., NRCS field ind		nig duration)
Criteria Met? 🛛 Yes	□No		Ļ!	Supplement	ai ilidicator (c.)	s., MCCo nod mu	icator)	
Chteria Met: M 163	□ 140		HYDR	OLOGY				
Recorded Data:		1			7 044	☑ No Recorded	Data Asiali	ahle
Recorded Data Available	Aerial Photo	OS	Stream Ga	uge L	Other	⊠ No Kecolded	Data Availa	1010
Field Data Depth of inundation:	г	epth to Satu	ration:to surf	are	Depth to F	ree Water:1"		
Primary Hydrology Indicat					(2 or more requ			
Inundated	<u></u>		Root Chann					
Saturated in upper 12 inch	ies		ained leaves	· · · · · ·	•			
☐Water Marks			il Survey Da	ta				
Drift Lines		And the second s	leutral Test					
Sediment Deposits	_	Other:						
Criteria Met? ⊠Yes □] No	Comme	ents: Area ha	is patches o	f standing wat	ter.		·
			AP ASIGNATION	**************************************				
WETLAND? ⊠YES □	NO Comments:	Wetland ori		<u>IINATION</u>		•		
METINIAN: KAIRO [7140 Comments:	Trumilu CI						

DEPARTMENT OF	STATE I	ANDS WI	ETLAND I	DETERN	INATION	DATA FOR	RM – Qu	ick Method
County: Yamhill		Date: 2/	28/07	City: Nev	vberg	File	#:1985	
Project/Contact: NewB./CS					C. Steinkoenig			
Plant Community: meadow				Plot #:26				
Plot Location: Paired w/samp	leplot 25							
Recent Weather: cold		40 3252	., -					
Do normal environmental co				f no, explai		n		
Has Vegetation Explain:	Soil	Hydro	ology 🔲 be	en signific	antly disturbed	?		
Ехрівії.			VECET	TATION				
Tr	ee Stratum		VEGE	ATION		Herb Stratur	m	
Total Plot Cover:0	= 50	19%	= 20%	Total Plot	Cover:100	50 = 5	0%	20 = 20%
			Raw % Cover	7010.7701	00.00.700			atus/Raw % Cover
1.				<u> </u>	1. Alopecurus	pratensis		FACW 45*
2.					2.Agrostis sto	lonifera		FAC 55*
3.					3.			
4.					4.			ļ
5.					5.			
Sapling/Shrub Stratum Total Plot Cover:10 5=	= 50%	2.5= 20%	Status/Rav	. 9/ Cours	7.			<u> </u>
1.Rubus discolor	- 3076	2.3-2076	FACU 5*		8.			
2.Malus sp.		· · · · · · · · · · · · · · · · · · ·	NOL 5*		9.		······································	
3.			NOLS		10.			
4.					11.		····	
5.					12.			
Hydrophytic Vegetation In	ndicators:				J			
	BL. FACW or	FAC Percent	of Dominant S	Species that	are OBL, FACW	, FAC (not FAC	-):66	
Other hydrophytic vegetation in					•	, ,	•	
Criteria Met? XYes	No Comm	ents: Mets we	tland vegetat	tion criteria				
•				<u>ILS</u>				
Map Unit Name: Amity silt			Class: Some					
On Hydric Soil List? Ye	es 🛛 No	Has Hyd:	ric Inclusions	? ⊠ Yes	No			
Depth Range of Horizon	Matrix Color		Redox Cond	centrations	Redox De	nletions	Texture	
	10YR3/2		None	Sellu attolia	Redox De	pictions	SIL	
L	101R3/2 10YR4/2		10YR4/6 C	תפי			Si CL	
12-18	10110472		1011(4/0 C	110			10.00	
Hydric Soil Indicators:	·····						1	
Histosol				Concretions/	Nodules (w/in 3	", > 2mm)		
Histic Epipedon				High organic	content in surfa	ice (in Sandy Soil	ls)	
Sulfidic Odor					aking (in Sandy			
Reducing Conditions (tests			닏	Organic pan	(in Sandy Soils)	i 'and sail meafile m	antohan)	
Gleyed or low chroma color		rtions)	片	Meets bydr	yarıc sons Lisi (ic soil criteria 3 :	and soil profile n or 4 (ponded or fl	natches)	ong duration)
Redox features within 10" (e.g., concentra	100115)	片	Supplement	al indicator (e.g.	, NRCS field ind	icator)	ong daranon,
Criteria Met? Yes	⊠ No			отррини		,	•	
Cittoria Motor E 100 E			HYDR	<u>OLOGY</u>				
Recorded Data:								
Recorded Data Available	☐Aerial P	'hotos	Stream G	iuge [Other	No Recorded	Data Avail	able
Field Data				_				
Depth of inundation:		Depth to Sa			pth to Free Wate			
Primary Hydrology Indicator	rs:		ry Hydrology ed Root Chani		(2 or more requi	reu):		
☐Inundated ☑Saturated in upper 12 inche	·e		stained leaves		2)			
Water Marks		-	Soil Survey Da					
Drift Lines			Neutral Test	-				
Sediment Deposits		Other:						
Criteria Met? ⊠Yes □	No	Com	nents: .					
			Mr. Art resident day on	## A # TO Y # TO Y				
WETLAND? □YES ⊠	NO Commo	nts: Soil did n		AINATION				
WETLAND? \square YES \boxtimes !	to comine	וונס. ביטוו מוט ווי	or mer mensun					

DEPARTMENT O	<u>F STATE LAI</u>							ick internog
County: Yamhill		Date: 2/2	8/07	City: Nev			#:1985	
Project/Contact: NewB./C					C. Steinkoenig	ş		
Plant Community: meade				Plot #:27				
Plot Location: Tax lot 1000) Vet Clinic							
Recent Weather: cold								
Do normal environmental	conditions exist?	$Y \boxtimes$	N 🔲 I	f no, explai	n:			
Has Vegetation 🗌	Soil 🗌	Hydrol	logy 🔲 be	en signific	antly disturbed	1 ?		
Explain:		•		_	•			
			VEGET	ATION				
	Tree Stratum					Herb Stratu	ım	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50 =		20 = 20%
		Status/R	aw % Cover				Sta	atus/Raw % Cover
1.					1.Poa praten			FAC 45*
2.					2.Agrostis sto			FAC 50*
3.					3.Rumex cris			FAC+ trace UPL trace
4.					4.Chrysanthe			
5.		<u> </u>			5.Trifolium r	epens		FAC 15
Sapling/Shrub Stratum		L <u> </u>			6.			
Total Plot Cover:	= 50%	= 20%	Status/Raw	у % Сочег	7.			ļ
1.			<u> </u>		8.			-
2.					9.			
3.					10.			
4.					11.			
5.					12.			
Hydrophytic Vegetation ⊠ > 50% of dominants are	OBL, FACW or FA	C Percent o	of Dominant S	Species that	are OBL, FAC\	V, FAC (not FAC	C-):100	
Other hydrophytic vegetation								
Criteria Met? XYes	No Comments	: .						
			<u>so</u>	<u>ILS</u>				
Map Unit Name: Woodbu		Drainage (Class: Mode	rately well	drained			
On Hydric Soil List?	Yes 🛚 No	Has Hydri	c Inclusions	? [Yes]	XJ No			
Depth Range of Horizon	Matrix Color		Redox Cond	entrations	Redox D	epletions	Texture	
0-16	10YR3/3		None				SIL	
Hydric Soil Indicators:								
∐Histosol				Concretions/	Nodules (w/in 3	3", > 2mm)		
Histic Epipedon						ace (in Sandy So	ils)	
☐Sulfidic Odor					aking (in Sandy			
Reducing Conditions (tes			닏	Organic pan	(in Sandy Soils) 		
Gleyed or low chroma co			님	Listed on Hy	ydric Soils List	(and soil profile	matches)	ong duration)
Redox features within 10	" (e.g., concentration	is)	님	Meets nyari	c son criteria 3	or 4 (ponded or ;	dicator)	ong duration)
College May Co.	[7] N.		L	ouppiement	ai muicator (e.g	" IAIVOO HEIU IIK	arcator)	
Criteria Met? Tyes	⊠ No		mon	OI OCY				
Decembed Dates			HYDR	<u>OLOGY</u>				
Recorded Data:	☐Aerial Photo	ne	Stream Ga	mge F	Other	No Recorde	d Data Avai	labla
Recorded Data Available Field Data	Then at Line	7.0	LJourani Ua	5~ L		said 1 to 10001100		ladie
Depth of inundation:								INDIE
	r	enth to Sati	ration:		Depth to Free	Water:		able
		epth to Sati Secondar		Indicators (Depth to Free (2 or more requ			aole
Primary Hydrology Indica		Secondar			(2 or more requ			ladie .
Primary Hydrology Indica	tors:	Secondar Oxidize	y Hydrology		(2 or more requ			labie .
Primary Hydrology Indica Inundated Saturated in upper 12 inc Water Marks	tors:	Secondar Oxidize Water-s	y Hydrology d Root Chanr	nels (upper 1	(2 or more requ			labie .
Primary Hydrology Indica Inundated Saturated in upper 12 inc	tors:	Secondar Oxidize Water-s Local S FAC - 1	y Hydrology d Root Chanr tained leaves	nels (upper 1	(2 or more requ			labie .
Primary Hydrology Indica Inundated Saturated in upper 12 inc Water Marks Drift Lines Sediment Deposits	<u>tors:</u> hes	Secondar Oxidize Water-s Local S	y Hydrology d Root Chanr tained leaves oil Survey Da	nels (upper 1	(2 or more requ			labie .
Primary Hydrology Indica Inundated Saturated in upper 12 inc Water Marks Drift Lines	<u>tors:</u> hes	Secondar Oxidize Water-s Local S FAC - 1	y Hydrology d Root Chanr tained leaves oil Survey Da Neutral Test	nels (upper 1	(2 or more requ			abie .
Primary Hydrology Indica Inundated Saturated in upper 12 inc Water Marks Drift Lines Sediment Deposits	<u>tors:</u> hes	Secondar Oxidize Water-s Local S FAC -1	y Hydrology d Root Chanr tained leaves oil Survey Da Neutral Test ents:	nels (upper 1	(2 or more requ 2")			abie .
Primary Hydrology Indica Inundated Saturated in upper 12 inc Water Marks Drift Lines Sediment Deposits Criteria Met? Yes	<u>tors:</u> hes	Secondar Oxidize Water-s Local S FAC -1 Other: Comm	y Hydrology d Root Chanr tained leaves oil Survey Da Neutral Test ents: DETERN	nels (upper la	(2 or more requ 2")			abie .

DEPARTMENT O	F STATE LA	NDS WE	TLAND I	DETERM	IINATION	N DATA FOR	RM – Ouic	k Method
County: Yamhill		Date: 2/2		City: Nev			#:1985	
Project/Contact: NewB./C					C. Steinkoeni			
Plant Community: meado)W			Plot #:28		_		
Plot Location: Tax lot 900								
Recent Weather: cold								
Do normal environmental				f no, explai		••		
Has Vegetation	Soil 🗌	Hydrol	ogy 📋 be	en signific	antly disturbe	d?		
Explain:			Wedne	A MINANT				
Г	Tree Stratum		VEGEI	ATION		Herb Stratu	m	
Total Plot Cover:0	= 50%		= 20%	Total Plot	Cover:100	50-5	00/	20 = 20%
TOTAL FIOR COVEL.U	- 30%		w % Cover	TOTAL FIOL	Cover.100	50 = 5		s/Raw % Cover
1.	······································	Dialos/10	- 70 COTO	L	1.Poa prater	isis		AC 45*
2.		 			2.Agrostis st			AC 50*
3.					3.Rumex cris]	AC+ trace
4.			~~~		4.Chrysanth			JPL trace
5.	· · · · · · · · · · · · · · · · · · ·	ļ			5.Trifolium 1	epens		FAC 15
Sapling/Shrub Stratum					6.			
Total Plot Cover:	= 50%	= 20%	Status/Rav	v % Cover	7.			
1.					8.			
2.			 		9.			
3.	······································		ļ		10.			
4.			ļ		11.			
5. Hydrophytic Vegetation	T. Y.		<u> </u>		12.			
Criteria Met?	rn silt loam 0-7%	Drainage (ILS trately well ? ☐ Yes [drained ⊠ No			
Depth Range of Horizon	Matrix Color	1	Redox Conc	entrations	Redox D	epletions	Texture	
0-17	10YR3/3		None				SIL	
							1	
								
Hydric Soil Indicators: Histosol Sulfidic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma col Redox features within 10° Criteria Met? Yes	ors	ns)		High organic Organic strea Organic pan Listed on Hy Meets hydri	king (in Sandy (in Sandy Soils /dric Soils List c soil criteria 3	face (in Sandy Soi Soils)	natches) looded for long	g duration)
Recorded Data:	☐Aerial Phot	os	☐Stream Ga	uge [Other	No Recorded	l Data Availabl	e
Field Data Depth of inundation: Primary Hydrology Indicat Inundated Saturated in upper 12 incl Water Marks Drift Lines Sediment Deposits Criteria Met?	t <u>ors:</u> nes	Depth to Satu Secondary Oxidized Water-st Local So	ration: Hydrology Root Channained leaves Sil Survey Da Jeutral Test	Indicators (nels (upper l nta	Depth to Free 2 or more requ 2")			
WETLAND? □YES □	NO Comments:	No hydric s		<u>IINATION</u> id hydrolog	y observed.			

Appendices Boiler Plate Information References

Boiler Plate Information

Wetland Definition and Authority

The U.S. Army Corps of Engineers (COE) regulates the discharge of dredged or fill materials into waters and adjacent wetlands of the United States under authority of Section 404 of the Clean Water Act (*Federal Register*, 1986). For purposes of the Section 404 permitting program, the COE and other federal agencies define wetlands as follows (*Federal Register*, 1980, 1982):

"Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions."

In Oregon, the Department of State Lands (DSL) regulates removal/fill permitting in wetlands under ORS 196.800 to 196.990, and OAR 141-85-005 to OAR 141-85-090, and uses the same definition.

Regulatory Context

In 1987, the COE published a manual (Corps of Engineers Wetlands Delineation Manual or 1987 manual), which describes methods for determining the extent of jurisdictional wetlands under Section 404 of the Clean Water Act (Environmental Laboratory, 1987). The Federal Manual for Identifying and Delineating Jurisdictional Wetlands was published two years later as a collaborative effort by the COE, U.S. Fish and Wildlife Service (USFWS), U.S. Environmental Protection Agency (EPA), and U.S. Soil Conservation Service (SCS), revised the 1987 manual (Federal Interagency Committee for Wetland Delineation, or 1989 manual).

Both the COE and DSL used the 1989 manual until 1992 when the 1992 Energy and Water Development Appropriation Act went into effect. The Act limited the COE (federal permitting agency) to using the 1987 manual for determining the extent of wetlands under federal jurisdiction. Oregon continued to use the 1989 manual until March 23, 1993, when the Director of DSL signed a policy statement requiring the agency to use the 1987 manual. The policy statement was the result of the EPA agreement to use the 1987 manual.

Vegetation

Plants growing in wetlands must be specifically adapted for life under saturated or anaerobic conditions and are commonly referred to as hydrophytic vegetation. The U.S.F.W.S. in cooperation with the National and Regional Interagency Review Panels publishes regional lists estimating the probability of plant species' occurrence in wetlands (e.g., Fish and Wildlife Service, 1988). Each species is given an *indicator status*, which represents the likelihood that it will be found in a wetland. Categories defined in Table 1

are obligate (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), or upland (UPL). Plants with an indicator status of OBL, FACW, or FAC are considered adapted for life in saturated or anaerobic soil conditions.

The percent coverage of each plant species within the herb, shrub, and tree layers was estimated at each sample plot. Shrubs within a five-foot radius and trees within a 30-foot radius of the center of each plot were identified and recorded. Within the plot, all species were recorded in descending order of coverage, and dominant species were determined. The presence of wetland vegetation was determined according to the indicator status of the dominant species within each vegetative stratum. According to the manual, a sample plot is considered to have wetland vegetation if more than 50% of the number of dominant species present has an indicator status of OBL, FACW, and/or FAC. By 1987 standards, dominant species are chosen by selecting the three most dominant species from each of the four strata (herbs, saplings/shrubs, woody vines, trees). If only one or two strata are represented, then the five most dominant species from each stratum are selected.

TABLE 1: DEFINITIONS	OF INDICATOR STATUS	
Indicator Symbol	Definition	
OBL	Obligate. Species that occur in wetlands under natural conditions with an estimated probability of greater than 99%	
FACW	Facultative wetland. Species that usually occur in wetlands (estimated probability 67 to 99%), but occasionally are found in non-wetlands.	
FAC	Facultative. Species that are equally likely to occur in wetlands or non-wetlands (estimated probability 34 to 66%).	
FACU	Facultative upland. Species that usually occur in non-wetlands (estimated probability 67 to 99%), but occasionally are found in wetlands.	
UPL	Upland. Species that occur in non-wetlands under natural conditions with an estimated probability of greater than 99%	
NI	No indicator. Species for which insufficient information was available to determine an indicator status.	
Sources: Federal Inter Laboratory, 1987. Ree	agency Committee for Wetland Delineation, 1989. Environmental d, 1988.	

Soils

Hydric soils, defined as soils that are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part of the soil profile, are one characteristic of wetlands (USDA Soil Conservation Service, 1987). A list of hydric soils of the United States was compiled by the Soil Conservation Service (SCS), in cooperation with the National Technical Committee for Hydric Soils (NTCHS). All soils are mapped in county soil surveys. However, the mapped boundaries of SCS soil types are not at a fine enough resolution for delineating boundaries of jurisdictional wetlands. Errors of omission can occur on SCS maps. Inclusions of upland (non-wetland) soil may exist in hydric soils and uplands may have inclusions of hydric soil. Therefore, field examination of soils is important for accurately delineating the extent of hydric soils. Hydric soils exhibit certain characteristics that can be observed in the field. Field indicators include: high organic content, accumulation of sulfidic material (rotten egg odor), greenish or bluish gray color (gley formation), iron and manganese concretions, spots or blotches of color (mottling), and/or dark soil colors (low soil chroma).

A shovel, excavating down to a depth of at least 16 inches, was used to sample soil along the wetland boundary. Soil samples were checked for presence of sulfide gases; organic content was estimated visually and texturally; and soil colors were determined by using a Munsell soil color chart (Kollmorgen 1975). The Munsell soil color chart provides the standard for three attributes of color: hue, value, and chroma.

According to the 1987 manual, hydric soils are required to be inundated or saturated for seven or more consecutive days during the growing season. Soil color is examined in the horizon immediately below the A-horizon, or within 10 inches of the surface, whichever is shallower.

Hydrology

Wetlands, by their very name, must have water. Jurisdictional wetlands are characterized as having permanent or periodic inundation, or soil saturation for five percent or more of the growing season. Saturation occurs when the capillary fringe is within the major portion of the root zone (usually within 12 inches of the surface). Areas meeting one of these criteria are considered to have wetland hydrology.

Ponding or soil saturation for five percent or more of the growing season during the growing season is direct evidence of wetland hydrology. Bare soil and dried algae are evidence that a site was previously inundated. Oxidized rhizospheres along live root channels also indicate soil saturation for five percent or more of the growing season. At each sample plot, wetland hydrology was assumed if positive indicators were present.

Wetland Determination

Presence or absence of wetlands was based on soil, vegetation, and hydrology data collected at sample plots. Following procedures outlined in the 1987 manual, sample plots with homogeneous vegetation were determined to be wetlands if wetland characteristics were present or judged to be normally present (barring human or unusual natural events) for all three parameters.

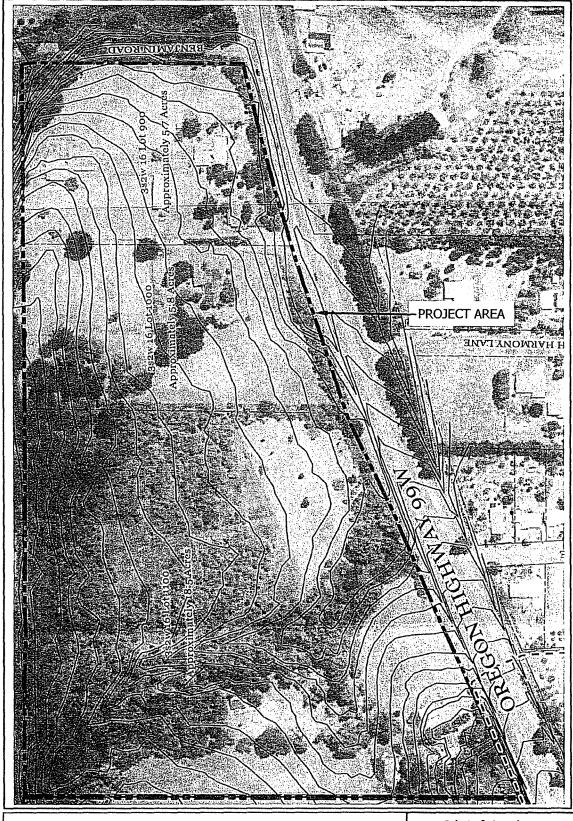
Difficulties in wetland determination can arise because of disturbance or in problem areas. Both human (e.g., clearing vegetation, agriculture, filling, and excavation) and natural (e.g., mudslides, fire, and beaver dams) events have potential for obliterating field indicators of the three wetland parameters. In disturbed sites, both field and offsite data may be used to determine the presence of a wetland. Offsite information such as historical records, aerial photographs, previous soil, and vegetation surveys may indicate the presence of a jurisdictional wetland.

Some sites are difficult to evaluate because field indicators may not be present throughout the year. Field indicators may vary because of changing environmental conditions that occur seasonally and not necessarily the result of human or natural disturbance.

According to the 1987 manual, all three parameters (hydric soils, hydrophytic vegetation, and wetland hydrology) must be present for an area to be determined as wetland. Drumlins, seasonal wetlands, prairie potholes, and vegetated flats exemplify areas that are difficult to evaluate.

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AERIAL S&A #1985

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

Keith Leonard

From:

Kleinmanjl <kleinmanjl@aol.com>

Sent:

Thursday, August 02, 2018 9:47 AM

To:

Keith Leonard

Subject:

Crestview Crossing, File No. PUD18-0001/CUP18-0004

Attachments:

DSL-Wetland Delineation Report 2-4-2008.pdf

Hi Keith,

Attached please find one more exhibit for the above case file, Wetland Delineation Report with DSL letter dated February 4, 2008.

Thanks again.

Jeffrey L. Kleinman Attorney at Law The Ambassador 1207 SW Sixth Avenue Portland, OR 97204 Tel (503) 248-0808 Fax (503) 228-4529

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Keith Leonard

From:

Kleinmanjl <kleinmanjl@aol.com>

Sent:

Thursday, August 02, 2018 9:41 AM

To:

Keith Leonard

Subject:

Crestview Crossing, File No. PUD18-0001/CUP18-0004

Attachments:

Six-Party Agreement (signed) 4-10-2006.pdf; Oxberg Source Water Assessment - April 2004_1of2.pdf; Oxberg Source Water Assessment-Appendices - April 2004_2of2.pdf

Hi Keith,

In order to avoid potential problems with oversized transmissions later, I am submitting the following exhibits for the above case file now. I will send one more large document separately, and will email my memorandum to the Planning Commission later this morning.

1. Six-Party Agreement dated April 10, 2006.

2. Source Water Assessment Report by the State of Oregon for the Oxberg Water System, April 2004.

3. Appendices to the above report.

Please confirm receipt of this message and the attachments. Thanks very much.

Jeffrey L. Kleinman Attorney at Law The Ambassador 1207 SW Sixth Avenue Portland, OR 97204 Tel (503) 248-0808 Fax (503) 228-4529

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SOURCE WATER ASSESSMENT REPORT

Summary of Analysis

Oxberg Water System Newberg, Oregon Yamhill County PWS #4105308

April, 2004

Prepared By

Oregon Department of Human Services Health Services Drinking Water Program

And

Oregon Department of Environmental Quality Water Quality Division Drinking Water Protection





Available in Alternate Formats by contacting the DHS DWP at (541) 726-2587

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Oxberg Water System Source Water Assessment Report Summary of Analysis

1. Introduction

The Source Water Assessment Program, mandated by the 1996 Amendments to the Safe Drinking Water Act, requires that states provide the information needed by public water systems to develop drinking water protection plans if they choose. That information includes the identification of the area most critical to maintaining safe drinking water, i.e., the Drinking Water Protection Area, an inventory of potential sources of contamination within the Drinking Water Protection Area, and an assessment of the relative threat that these potential sources pose to the water system.

The intent of this report is to present our conclusions regarding the source water assessment analysis for your water system. It is our hope that this information will be used as a basis for reducing the risk of contamination to your water source through the development of a voluntary Drinking Water Protection Plan (DWPP). Should you decided to proceed with the development of a DWPP, this document can serve as the foundation for the plan. If, however, a more in depth analysis of the local hydrogeology, water system susceptibility, and/or the water system specific assumptions is needed to help promote the development of a DWPP, a more comprehensive assessment analysis can be made available to you by contacting either the DHS Project Manager or the DHS Drinking Water Program Groundwater Coordinator.

The methodology that the Source Water Assessment results are based on is included in Appendix I, "Source Water Assessment Methodology". Appendix I includes a discussion of the source water assessment project; groundwater basics; and the processes involved with conducting the delineation, sensitivity analysis, potential contaminant source inventory, and overall water system susceptibility. Therefore, it is our intention that the assessment results, identified in this portion of the report, be used in conjunction with the methodology and rational presented in Appendix I. For instance, if questions arise regarding our conclusions with respect to a specific element of the assessment (i.e. type of delineation used, aquifer sensitivity, well construction sensitivity, etc...), the methodology that lead to our conclusions can be reviewed in Appendix I for further clarification.

We believe public awareness is a powerful tool for protecting drinking water and that the information provided in this report will help you increase local awareness regarding land use activities and local drinking water quality. We have also included a groundwater fact sheet in Appendix E and a list of Oregon specific drinking water protection information and resources in Appendix H.

2. Water System Background

Oxberg Water System is located in Yamhill County and serves approximately 80 people through 27 connections. Drinking water is supplied by one well, commonly referred to as Well #2. According to DHS Drinking Water Program records, this well serves as the only permanent water source.

2.1 Location of the Drinking Water Source(s)

We have located your drinking water source(s) using a Trimble GeoExplorer II Global Positioning System (GPS) unit. The data has been differentially corrected to remove some of the common positioning errors. The location of the source(s), with the corresponding Drinking Water Protection Area, has been placed in a Geographic Information System (GIS) layer and projected onto a USGS 7.5 minute topographic map that is included within this report. In order to be consistent with the topographic map, the projection uses the NAD1927 datum. The latitude and longitude values given on the map and below, however, reflect a projection in the more commonly used WGS1984 datum.

Data collection specifics include:

- 150 individual measurements,
- linked to a minimum of four satellites,
- a PDOP of less than 6 (pertains to precision of measurement), and
- a signal to noise ratio of greater than 5.

The raw data was subjected to differential correction using the PATHFINDER software. The location data for your drinking water source(s) using the WGS84 datum is as follows:

Source	Latitude	Longitude
Well #2 - Source AA	45° 18' 53.679" N	122° 56' 00.350" W

2.2 Source Construction

The well was constructed in November and December 1986. A 12-inch diameter hole was drilled to a depth of 30 feet, with an eight-inch diameter hole continuing to 200 feet. Eight-inch diameter casing was installed from one foot above the surface to a depth of 162 feet and six-inch diameter liner was installed from 160 to 200 feet. Cement was placed between the casing and the outer wall of the hole from the surface to a depth of 30 feet to serve as a casing seal. This casing seal is considered adequate. In a sanitary survey conducted on 8/4/98, DHS Drinking Water Program staff determined that there are no visible well construction deficiencies pertaining to drinking water protection. A copy of the well report for this well is included in Appendix D.

2.3 Nature and Characteristics of the Aquifer

The aquifer supplying the drinking water to the Oxberg Water System well consists of layered basalt and sedimentary interbeds of the Columbia River Basalt Group. The well log identifies the first water-bearing zone at a depth of 50 feet.

Based on the well log and regional geologic maps, the aquifer supplying the well consists of interflow zones of layered volcanic rocks associated with the Columbia River Basalt Group. According to the well log, water was found from 50 to 200 feet and the static water level (water level when well is not being pumped) was reported as 29 feet below the surface. The aquifer is directly overlain by 48 feet of basalt and silt. Since the water level in the well has risen approximately 21 feet above the first water-bearing zone water in the aquifer is assumed to be under pressure. Therefore, we consider the aquifer supplying the well to be a confined layered volcanic aquifer with a minimum depth to the first water-bearing zone of 50 feet. Thickness of the water-bearing zone exploited in the aquifer is estimated to be 15 feet.