BURKHART SITE WETLAND DELINEATION REPORT

Linn County Tax Lots 12S02W10B 00300

Prepared for

City of Lebanon

Site Description

40.18 acres farmed for annual rye grass seed

Site Centroid

Latitude 44.548583° N Longitude –122.9260691° W

Prepared by

Allen Martin, RG Geo Resources LLC PO Box 71852 Springfield, Oregon 97475

Office: (541) 946-1013

Email: georesources@comcast.net

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A) Landscape Setting and Land Use

A.1 Site Description

The site is located on the north side of Highway 34 at the intersection with N. 12th Street on the west side of Lebanon. The study area is the entire 40.88 acres that lie within Linn County tax lot 12S02W10B 00300 (see table below). Agricultural fields lie to the north and west with industrial facilities on the east and a mix of residential and commercial use to the south and southeast. Highway 34 forms the south boundary, N.12th Street the southeast boundary with Laticrete International Facility on the northeast boundary and the Southern Pacific Railway tracks forming the northern boundary.

The site is cultivated for annual rye grass seed and has been farmed for more than fifty years. Topographically, the site is flat sloping gently to the northwest with the highest elevation of 336' in the southeast corner and the lowest elevation of 330' in the northwest corner.

Site description	Lot size (acres)	Ownership	Address
		Mildred	
12S02W10B 00300	40.88	Steckley Marital	Farm use – address not assigned
		Trust	

Table 1: Tax Lot Information

Burkhart Creek, a perennial stream flows diagonally northwesterly across the southwest corner of the site. The only area not cultivated on the parcel is a small riparian forested area bordering Burkhart Creek.

A delineation covering the same area as the current study was completed by SWCA in 2004 (WD04-0333). Land use on the site has not changed since the previous investigation, however, land use upgradient from the site has changed. After 2006, N. 12th Street and the Laticrete facility were constructed on the east side of the site

A.2 Vegetation

Vegetation consists of the annual rye grass over most of the site. Hedge rows along the west boundary contain patches of blackberry thickets. A mixed forested and scrub/shrub riparian area is present in the southwest corner. Dominant vegetation includes Oregon ash, mixed willow species, nootka rose, blackberry, and Reed canarygrass.

A.3 Soil

Six soil types are mapped on the site by the Linn County Soil Survey:

- Clackamas gravelly silt loam (23): not hydric with hydric inclusions
- Coburg silty clay loam (26): not hydric with hydric inclusions
- Conser silty clay loam (28): hydric
- Courtney gravelly silty clay loam (29): hydric
- Salem gravelly silt loam (87): not hydric with hydric inclusions

Field visits occurred in August and all soil pits were dug at least 20 inches with a backhoe due to the hard ground. All colors recorded for soil plots refer to moist soil. Soil texture was mostly silty clay loam with lessor amounts of gravelly silt clay loams. Soil chroma was typically 10YR, hues were dominantly 3 with values of 2. Soil in upland areas and in the broad transitional zone between upland and wetland were typically 10YR 3/2 silty clay loams within 20" of the surface. In shallow depressions where saturation persisted for extended periods, hydric soil indicator F6 was most common.

A.4 Hydrology

Hydrology is provided exclusively by precipitation. Two shallow swales on the south end and a broad flat depression at the north end collect rain and runoff. Low soil permeability and flat topography retains water. The swales and north depression stay saturated, occasionally ponded for extended periods in the springtime.

Water from the swales does not have evidence of flow but the swale slope gently toward the west side of the site where Burkhart Creek cuts across the southwest corner. Burkhart Creek is a perennial tributary to the Willamette River. Burkhart Creek is not known to contain fish due to a series of fish barrier culverts between the site and the Willamette River located about ten miles west.

B) Site Alterations

Site alterations were observed.

C) Precipitation Data and Analysis

The following table summarizes precipitation on the day of field visits, precipitation two weeks prior to the field investigation, the percent of normal rainfall for the water year to date, and the monthly percent of normal precipitation for each of the three months preceding the field investigation. All precipitation data is from the Corvallis Hyslop weather station (also referenced as "Corvallis State Univ."). Elevations on the site range from 336 to 330 feet above mean sea level and the Hyslop weather station elevation is 230 feet. The subject property lies about 14 miles east-southeast of the Hyslop Farm where the US Weather Service Station is located.

Rainfall in the months preceding the August site was mixed with typically low rainfall in June and July but with higher than normal rainfall from March through June. Precipitation for the calendar year was above the normal WETS range recorded at the Hyslop weather station and rainfall for the water year was above the normal range. The site visit was conducted during the dry season and as a result primary wetland hydrology indicators were not present.

	PPT		9	WETS Avg	% of Normal PPT for	3 months p	of normal ppt receding site on WETS avg	visit based
Date of Site Visit	during site visit	PPT two weeks preceding	PPT since October (thru preceding month)	PPT for water year thru preceding month	water year based on WETS Avg.	Preceding month	2 nd preceding month	3 rd preceding month
8/09/17	0	0	61.28	41.46	148	o	106	180
8/11/17	0	0	61.28	41.46	148	0	106	180

Table 2: Precipitation preceding site visits

Month	recorded	WETS*	Rainfall relative to	30% Chance rai	30% WETS range comparison	
Monun	for Water Year	average rainfall	WETS* average	Less than	More than	to recorded rainfall
October	12.15	3.02	97%	1.70	3.68	Above
November	7.78	6.94	117%	4.55	8.34	Within
December	5.60	7.43	73%	5.03	8.88	Within
January	5.33	6.46	105%	3.95	7.82	Within
February	12.48	5.71	77%	3.91	6.80	Above
March	8.11	4.59	132%	3.46	5.35	Above
April	4.14	2.98	147%	2.09	3.53	Above
May	4.14	2.30	180	1.52	2.81	Above
June	1.55	1.46	106	0.93	1.76	Within
July	0	0.57	0	0.17	0.68	below
TOTAL	61.28	41.46	148	27.31	49.65	Above

*WETS Data from Corvallis State University WETS Station 1971-2000

Table 3: Precipitation Summary based on Corvallis Hyslop Weather Station data

D) Methods

For the office work that occurred prior to the site visit, we acquired a collection of recent orthophotos and wet season historical air photos. The information was used to prioritize areas for review during field visits. In addition, the site was reviewed using the Google Earth and Microsoft Bing websites. The areas to investigate were plotted as vector shapefiles to be used with the mobile GIS/GPS field equipment.

Normal circumstances exist on the site; however, the site visits occurred in the normally dry season of the year. Consequently, procedures for difficult wetland situations from the Corps regional supplemental manual were followed when necessary because primary hydrology was not present. The following procedure from Chapter 5 of the Corps supplement regional manual was considered when necessary because the site visit occurred in the dry season of the year.

SITE VISIT DURING DRY SEASON

Chapter 5 – Difficult Wetland Situations

Problem area as a result of lack of wetland hydrology due to normal seasonal rainfall variability Wetlands that periodically lack indicators of wetland hydrology

- Step 1: Verify indicators of hydrophytic vegetation and hydric soil are present or absent.

 FIELD OBSERVATION FOR WETLAND PLOT: Hydrophytic vegetation and hydric soil are present.
- Step 2: Verify area is in landscape position likely to collect or concentrate water.

 FIELD OBSERVATION FOR WETLAND PLOT: Area is depression with a concave surface

Step 3: Site visits during the dry season

CONCLUSION: If the site visit occurred during the dry season on a site that contains hydric soils and hydrophytic vegetation and no significant hydrologic manipulation (e.g., no dams, levees, water diversions, land grading, etc., and the site is not within the zone of influence of any drainage ditches or subsurface drains), then consider the site to be a wetland.

Site visits occurred on August 9 and August 11, 2017. A backhoe was used to dig all the soil pits. The site has been farmed for more than 75 years so vegetation was considered less of a factor for determining wetland status. Fieldwork was guided by multiple information sources including recently flown, high-resolution orthophotography and LIDAR topographic data. Soil colors were recorded for moist soil. Digital georeferenced photographs were taken to document site conditions (Appendix C). Forty (40) sample plots were completed. Sample plots were completed for paired plots, depressions, suspect areas where micro-topography indicated the potential presence of wetland, and areas of possible saturation seen on early growing season aerials.

The upland/wetland boundary and sample plot locations were mapped using a sub-meter resource grade GPS and a mobile GIS/GPS system that included a hand-held computer running ArcPad 10.0, linked by Bluetooth to the GPS receiver. All GPS mapping and field data were saved as ArcPad shape files, post-processed to ensure sub-meter accuracy, then downloaded to ArcGIS version 10.0 and MapInfo Professional version 12.5 GIS programs. All GPS data was post-processed using the Corvallis CORS station to sub-meter accuracy.

Field information including wetland/upland boundaries and accompanying figures meet the required DSL map precision standard of one meter precision for transferring boundaries of features on the ground to the maps included in this report. The GPS post-processing error estimate for the mapping precision is one meter.

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

Two wetland areas and one non-wetland water were identified with a total of 15.19 acres of wetland and 0.35 acres of non-wetland water. Wetland A consists of two shallow swales located at the south end of the site. The swales slope gently toward the northwest and are connected to the riparian forested area bordering Burkhart Creek. The swales are mapped in the Linn County Soil Survey as mostly Conser silty clay loam. Occasional ponding occurs locally within the swales but the wetland is primarily seasonally saturated. The riparian forested area covers approximately 3.25 acres in the southwest corner of the field with 0.35 acres between the top of the banks of Burkhart Creek and 5.11 acres of farmed wetland.

Wetland B is similar with almost all the wetland area mapped by Linn County Soil Survey as Conser silty clay loam soil. The wetland is a seasonally saturated depression with occasional ponding in small, deeper depressions.

A 740 foot-long ditch connects Wetland A to Wetland B. The ditch lies along the western property boundary on the edge of the cultivated field and is vegetated with a mix of rye grass, weedy species and scattered blackberry thickets. The ditch does not appear to be maintained regularly.

Wetland extends off the site on the west side of Wetland A at the northwest corner of the property. Wetland B extends off the site to the west where Burkhart Creek flows off the site. A culvert under Highway 34 forms the southern connection.

Wetland Size	Wetland Category	Other Waters	Description
Wetland A: 6.45 acres	PEM		Farmed wetland
Wetland B: 8.74 acres	PEM/PFO	820' section of Burkhart Ck.	Farmed wetland and riparian forest (5.11 acres PEM, 3.25 acres PFO, 0.35 Waters)
TOTAL: 15.19 acres wetland		0.35 acres Waters	

Table 4: Summary of Wetland Areas

F) Deviation from LWI or NWI

The NWI does not identify wetland on the subject property but does identify Burkhart Creek as a PFOC waterway. The current study identified the Burkhart Creek as a non-wetland water with a forested riparian wetland bordering both sides of the creek.

G) Mapping Method

Mapping of the wetland boundary, sample plot locations and top of bank along Burkhart Creek was completed using a mobile GIS/GPS system that included a hand-held computer running ArcPad, linked by Bluetooth to a Geneq SXBlue II GNSS GPS receiver. All GPS mapping and field data was saved as ArcPad shapefiles, which were downloaded to ArcGIS and MapInfo Professional GIS programs. Field data was post-processed using the Corvallis CORS base station data and Effigis OnPoz EZSurv software to verify sub-meter horizontal accuracy.

Field information, including wetland/upland boundaries and sample plot locations on accompanying figures, meets the required DSL map precision standard of one-meter precision for transferring boundaries of features on the ground to the maps included in this report. The GPS post-processed horizontal mapping precision is sub-meter. Boundaries for the area investigated (shown on the delineation map) are based on GPS readings from visible property corners, and the Linn County GIS tax lot parcel database.

H) Additional Information

The study area is a farmed site so four early growing season aerials were reviewed. The high resolution 1998, 2005, and 2012 orthophotography (Figure 5A, 5C and 5D, 6 inch to 1 foot resolution) was provided by City of Lebanon GIS department. Linn County GIS Department provided the 2000 orthophoto (Figure 5B, 1 foot resolution). Aerial photography was useful to identify shading patterns that correlated with wetter areas. Shading indicative of wet areas was similar across the years, however, subtle differences exist between wet season aerials and the geometry and area of shaded patterns does not consistently correlate. Variability may be due to preceding rainfall, type of crop cover, height of vegetation, grass predation, plow patterns and location of seasonal drainage ditches.

The Willamette Valley Phase 1 LIDAR dataset was acquired from the Oregon Lidar Consortium and translated using ESRI ArcGIS and Spatial Analyst to produce a gridded dataset. The gridded data was used to generate 1-foot contour elevation lines (Figure 6A) and a bare earth 3-dimensional shaded relief raster image (Figure 5E).

A previous wetland delineation was completed by SWCA in 2004 (WD04-0333) and information from that report was used in the course of completing the current delineation.

I) Results and Conclusions

The current delineation examined approximately 41 acres of a farmed site referenced as Linn County tax lot 12S02W10B 300. The site lies at the northwest corner of the intersection between Highway 34 and N. 12th Street in Lebanon, Oregon. The site has been farmed for over 70 years.

Two wetland areas were identified with a total of 15.19 acres of wetland delineated. The wetlands are broad, shallow depressions, the southern wetland is connected to a riparian forested area bordering Burkhart Creek and the northern wetland is a depression that extends off the property to the west. Burkhart Creek flows northwesterly across the southwest corner of the parcel.

J) Disclaimer

This report documents the investigation, best professional judgment and 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.

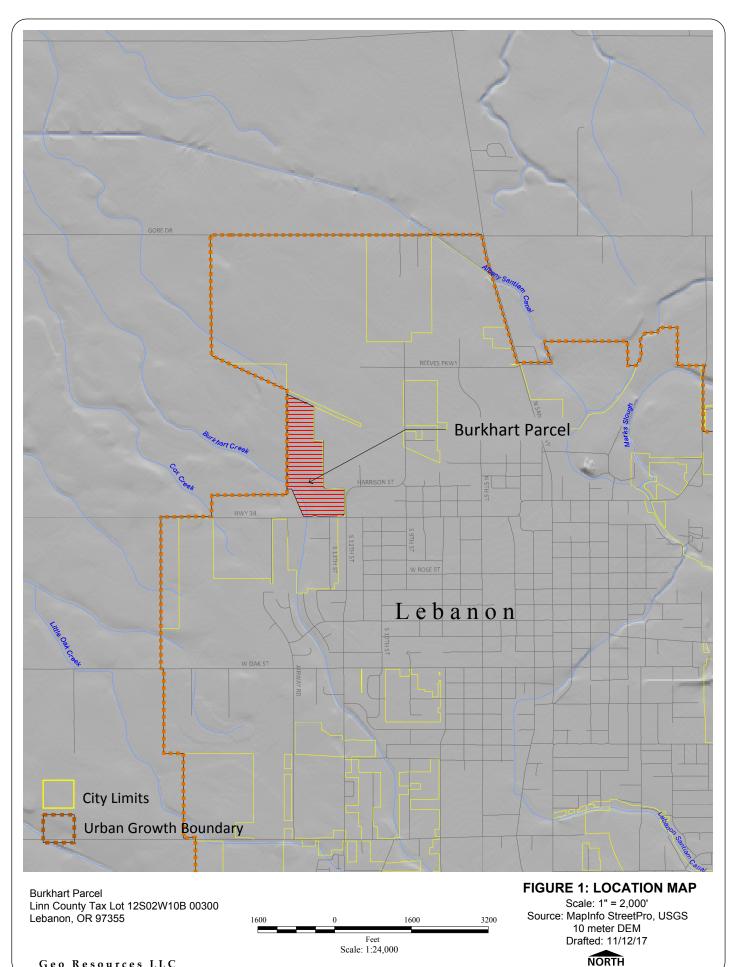
Allen Martin, RG

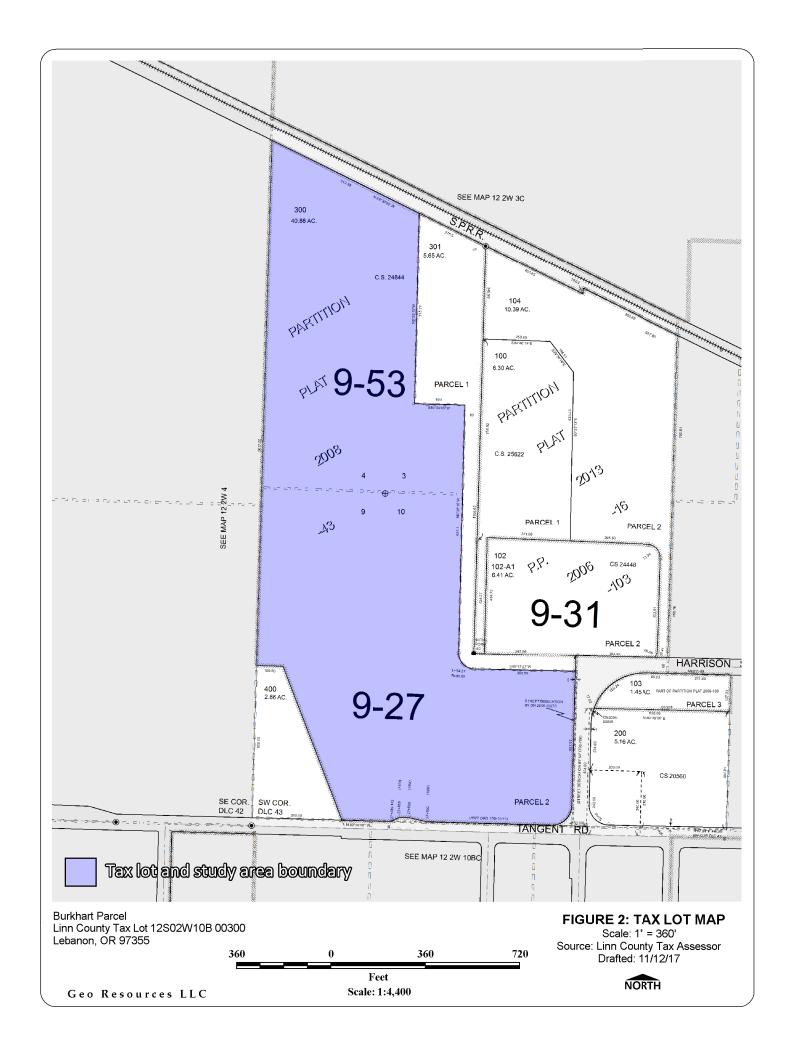
Geo Resources (541) 946-1013

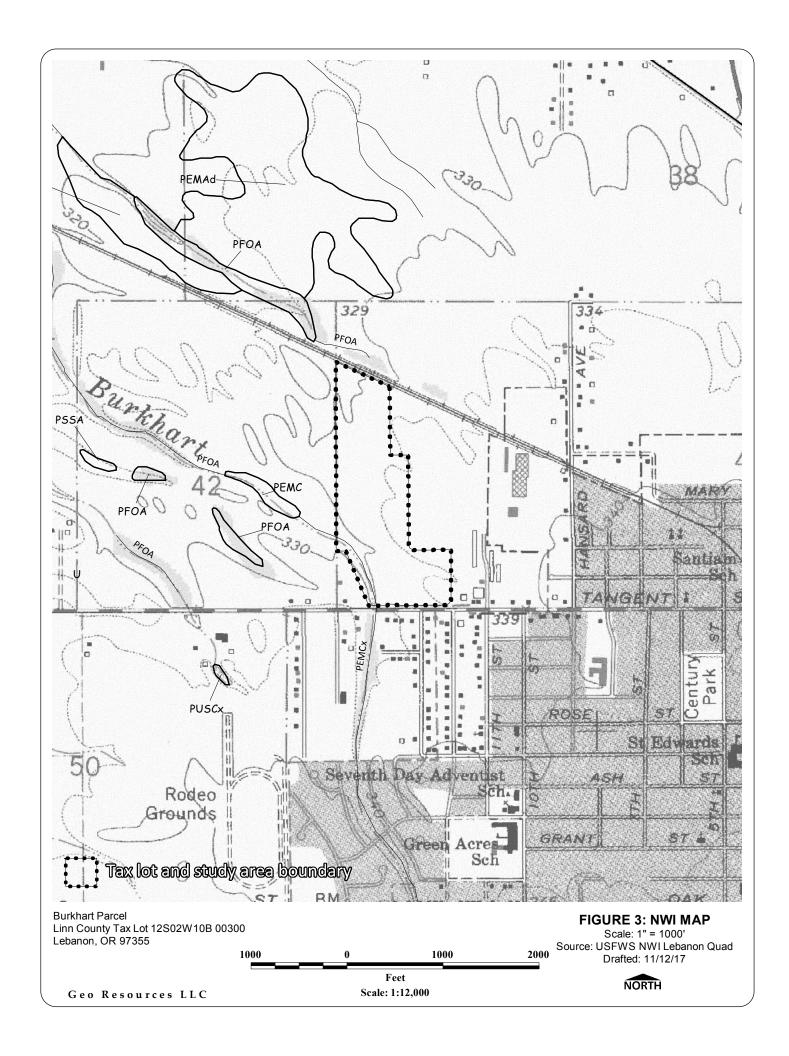
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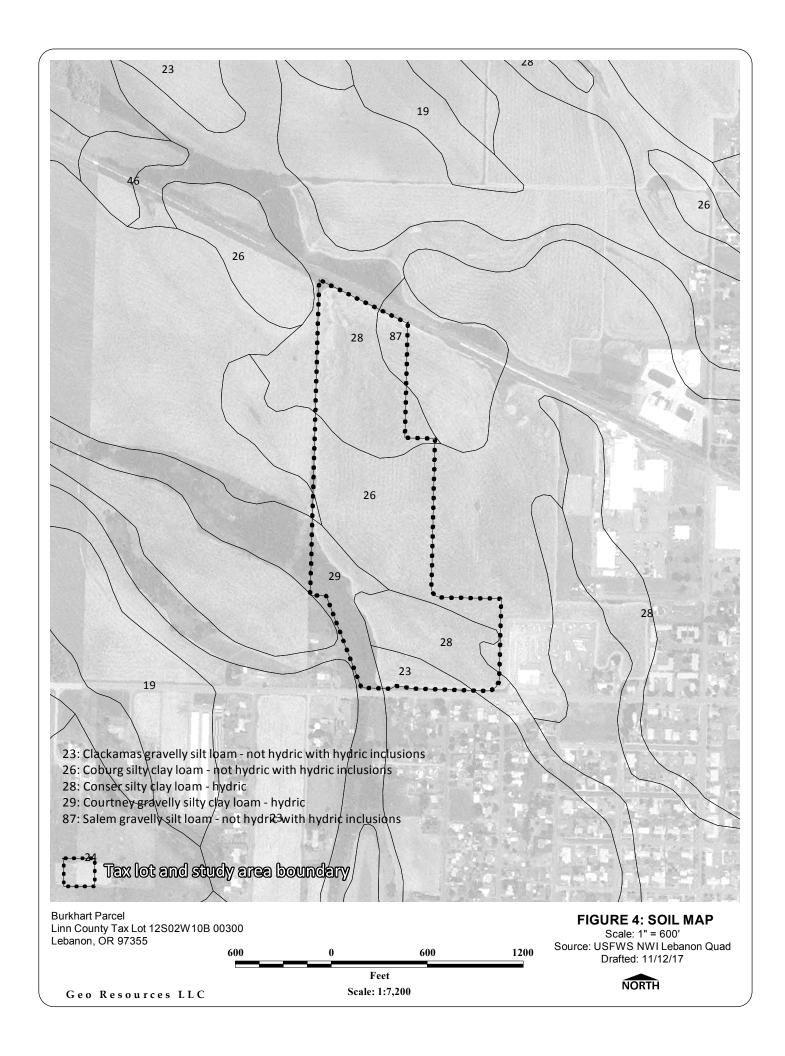
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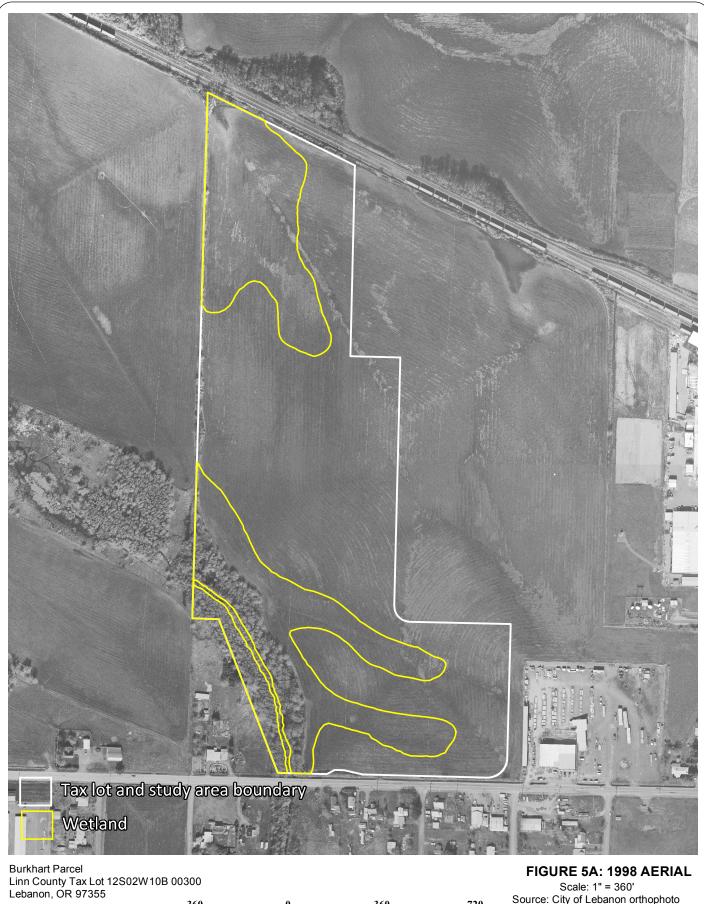
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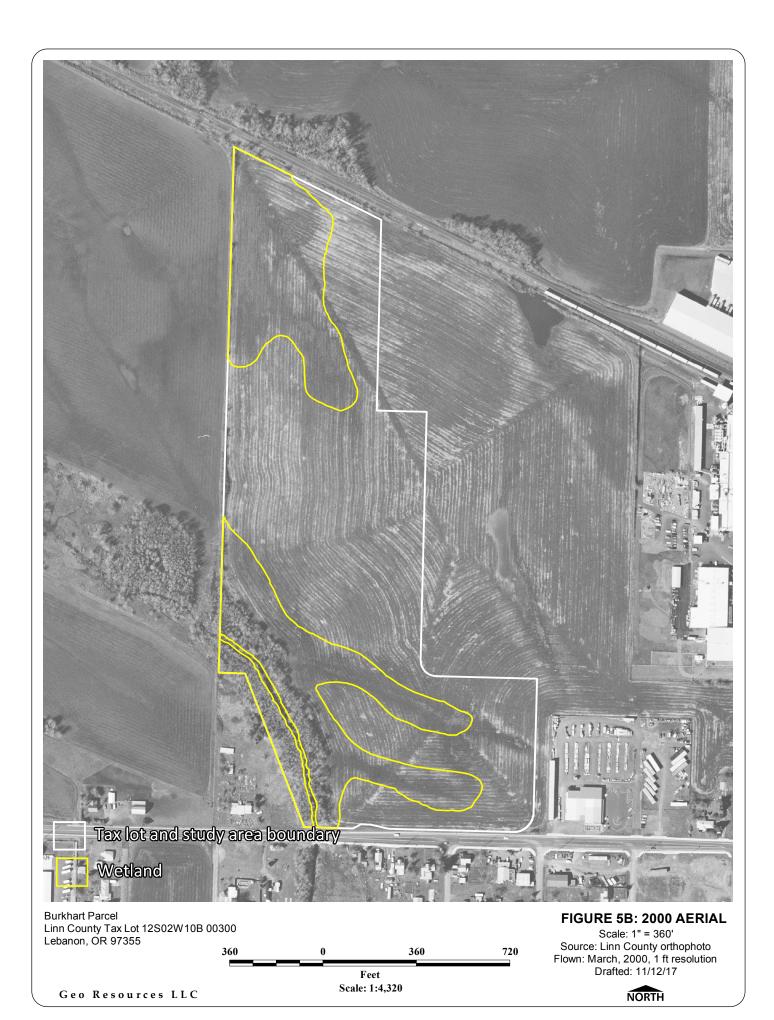
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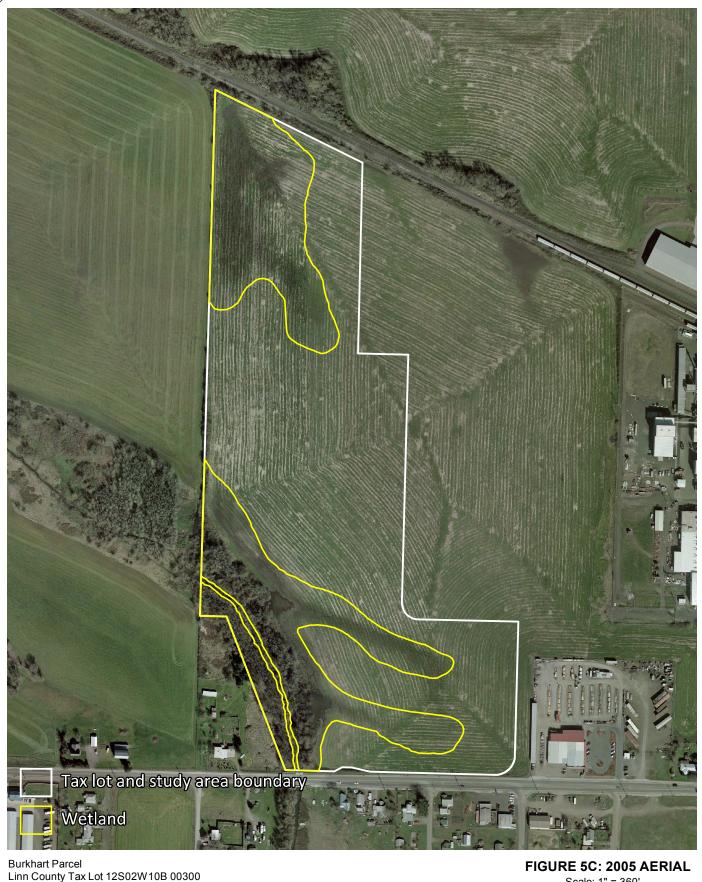
Geo Resources LLC

720 Feet Scale: 1:4,320

Scale: 1" = 360' Source: City of Lebanon orthophoto Flown: March 1998, 1 ft resolution Drafted: 11/12/17







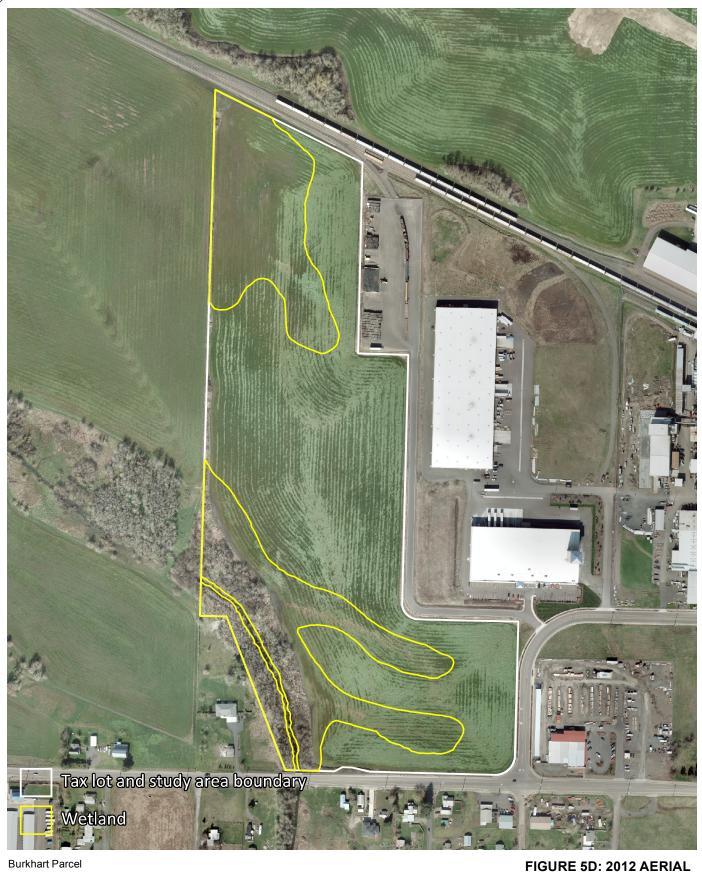
Burkhart Parcel Linn County Tax Lot 12S02W10B 00300 Lebanon, OR 97355 360 360

Geo Resources LLC

720 Feet Scale: 1:4,320

Scale: 1" = 360' Source: City of Lebanon orthophoto Flown: March 8, 2005, 0.5 ft resolution Drafted: 11/12/17



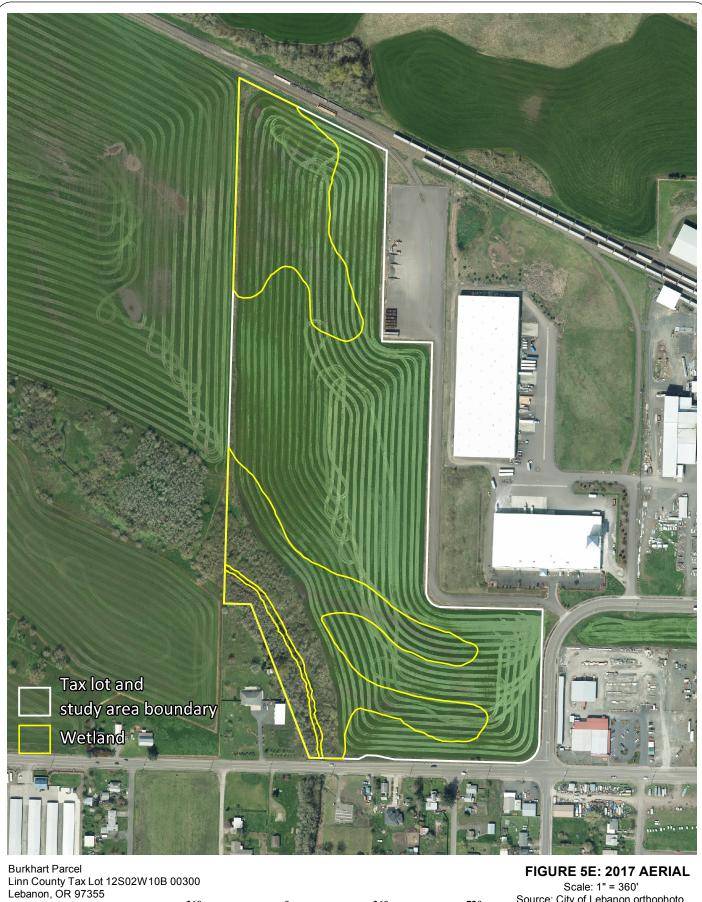


Burkhart Parcel Linn County Tax Lot 12S02W10B 00300 Lebanon, OR 97355 360 720

Feet Scale: 1:4,320 Geo Resources LLC

Scale: 1" = 360'
Source: City of Lebanon orthophoto
Flown: March 7, 2012, 3" resolution
Drafted: 11/12/17





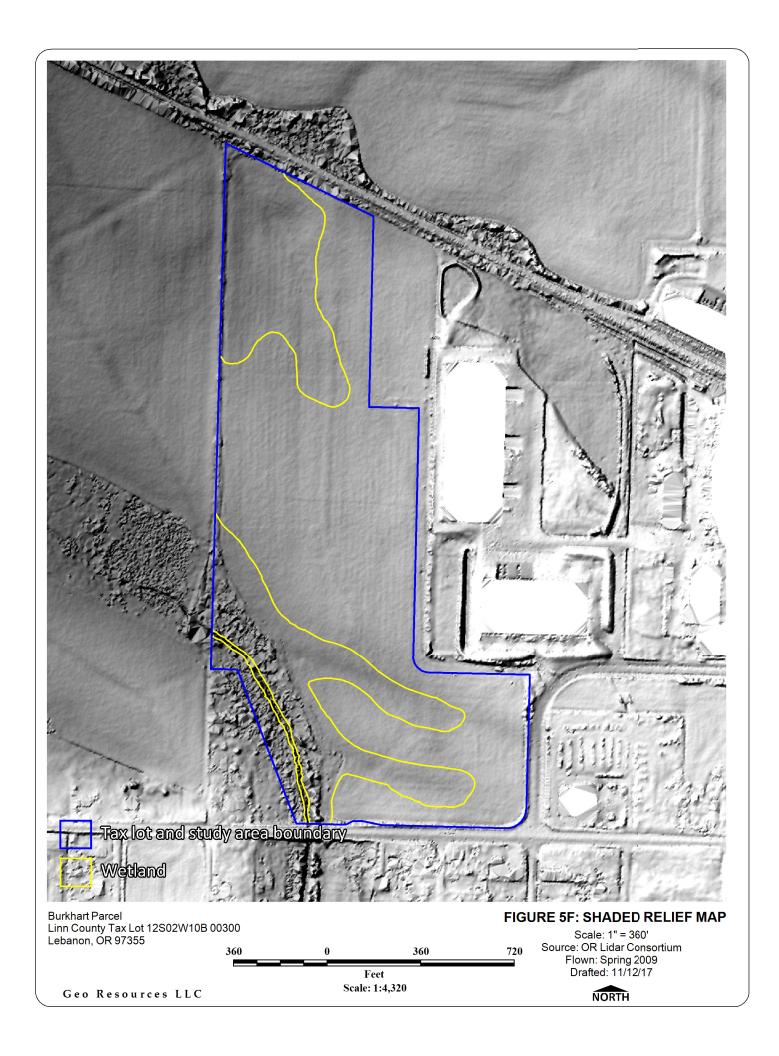
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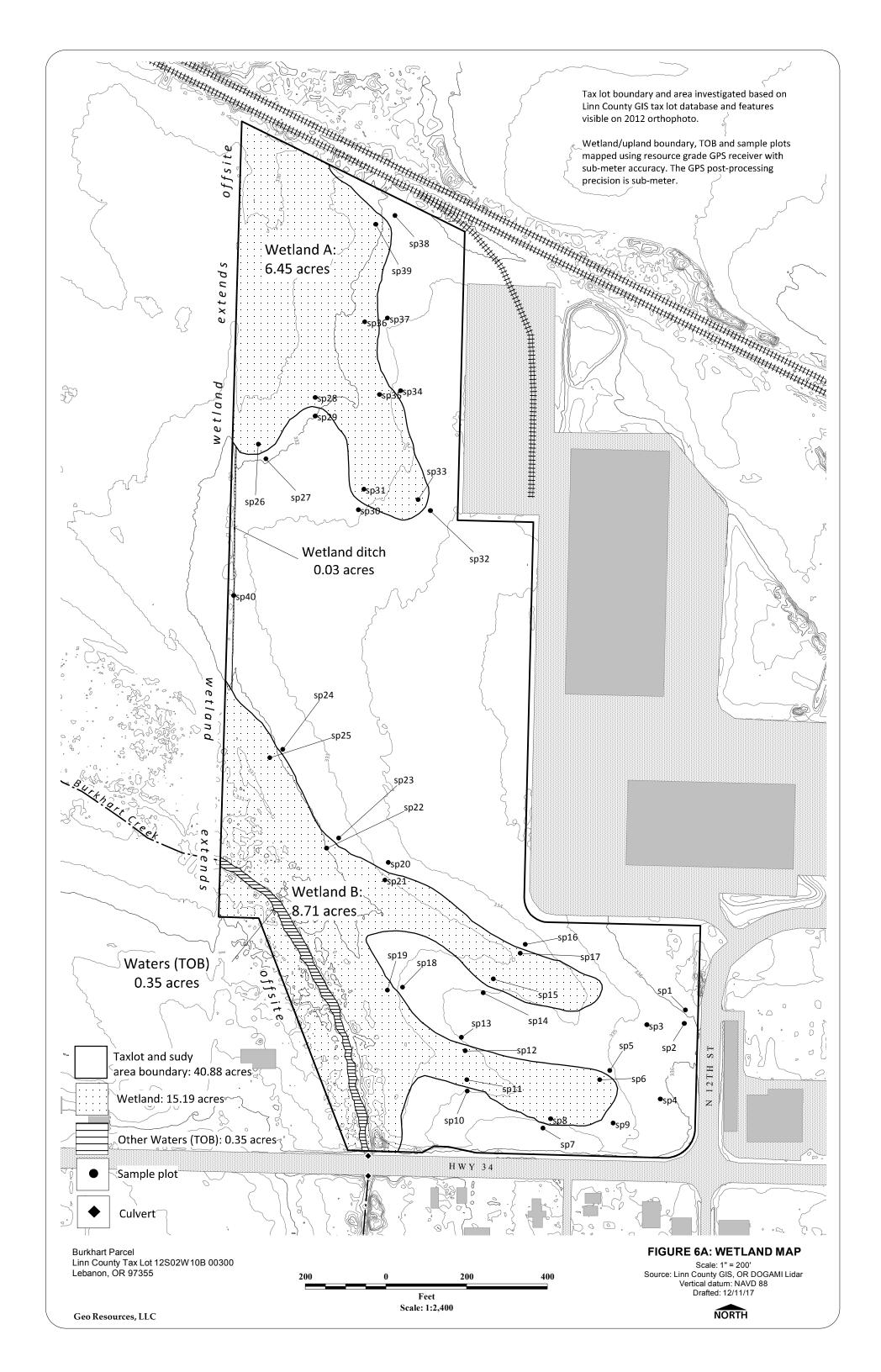
Geo Resources LLC

720 Feet Scale: 1:4,320

Scale: 1" = 360'
Source: City of Lebanon orthophoto
Flown: April 2, 2017, 3" resolution
Drafted: 11/12/17









Applicant/Owner: Norman Steckley Investigator(s): Allen Martin Landform (hillslope, terrace, etc.): terrace Subregion (LRR): A Soil Map Unit Name: Conser silty clay loam Are climatic / hydrologic conditions on the site typic Are Vegetation , Soil , or Hydrologic	Local relief (concave, convex, r Lat: 44.548583 Long: -122.9260 N cal for this time of year? Yes	none): none Slope (%): 0 Datum: D_North_American_1983_HARN (SP, Int ft) WI classification: upl (If no, explain in Remarks.) ormal Circumstances" present? Yes x No
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks:	e map showing sampling point I	(If needed, explain any answers in Remarks.) Ocations, transects, important features, etc. nin a Wetland? Yes No _X C.
VEGETATION – Use scientific names	of plants	
Tree Stratum (Plot size: 30 ft)) 1. None 2.	Absolute Dominant Indicator Species? Status 0 Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 30 ft)) 1. None 2. 3. 4. 5. Herb Stratum (Plot size: 6 ft) 1. Lolium perenne		Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = 0.0 FACW species x 2 = 0.0 FAC species x 3 = 0.0 FACU species x 4 = 0.0 UPL species x 5 = 0.0 Column Totals: 0 (A) 0 (B)
2		Prevalence Index = B/A = 0.0
3.		Hydrophytic Vegetation Indicators: □ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% □ 3 - Prevalence Index is ≤3.0¹ □ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) □ 5 - Wetland Non-Vascular Plants¹ □ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes × No
Remarks:		1
Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne and man	aged for monoculture

SOIL Sampling Point: SP1 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features % Color (moist) Color (moist) Loc² Remarks (inches) % Type¹ Texture 100 0-15 10YR2/2 SiCL 100 SiCL 15-24 10YR2/2 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils3: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) Д. Saturation (A3) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living ☐ Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): No X Wetland Hydrology Present? Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County: Lebanon/Linn	Sampling Date: 8/09/17					
Applicant/Owner: Norman Steckley	State: OR Sampling						
Investigator(s): Allen Martin	Section, Township, Range: Section 1	0, T12S, R02W					
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, convex,	none): none Slope (%): 0					
Subregion (LRR): A	Lat: 44.548583 Long: -122.9260	D_North_American_1983_HARN (SP, Int ft)					
Soil Map Unit Name: Conser silty clay loam	N	IWI classification: upl					
Are climatic / hydrologic conditions on the site typ							
		lormal Circumstances" present? Yes x No					
Are Vegetation x , Soil , or Hydrolog	gy <u> </u>	(If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes ×	No	-					
Hydric Soil Present? Yes	No × Is the Sampled Area with	hin a Wetland? Yes No X					
Wetland Hydrology Present? Yes	NO <u>^</u>						
Remarks: Plot located at east end of stu-	idy area to test eastward extensi	on of swale					
1 for focated at east end of ste	idy area to test eastward extensi	ion of sware.					
VEGETATION – Use scientific names	of plants.						
	Absolute Dominant Indicator	Dominance Test worksheet:					
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species					
1. None	0	That Are OBL, FACW, or FAC: 1 (A)					
2.	0	Total Number of Dominant Species Across All Strata: 1 (B)					
3	0	Percent of Dominant Species					
T		That Are OBL, FACW, or FAC: 100 (A/B)					
	0 = Total Cover						
Sapling/Shrub Stratum (Plot size: 30 ft)		Prevalence Index worksheet:					
1. None	0	Total % Cover of: Multiply by:					
2	0	OBL species x 1 =0.0					
3	0	FACW species x 2 = 0.0					
4		FAC species x ₃ = 0.0					
5	0 = Total Cover	FACU species x ₄ =0.0					
Herb Stratum (Plot size: 6 ft)	0 = Total Cover	UPL species x 5= 0.0					
1 Lolium perenne	70 FAC	Column Totals: 0 (A) 0 (B)					
2.		Prevalence Index = B/A = 0.0					
3.		<u></u>					
4.		Hydrophytic Vegetation Indicators:					
5.		1 - Rapid Test for Hydrophytic Vegetation					
6		<u>✓</u> 2 - Dominance Test is >50%					
7		☐ 3 - Prevalence Index is ≤3.0¹					
8		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)					
9.		5 - Wetland Non-Vascular Plants ¹					
10.		Problematic Hydrophytic Vegetation¹ (Explain)					
11	70 = Total Cover	¹Indicators of hydric soil and wetland hydrology must					
Woody Vine Stratum (Plot size: 12 ft)	- Total Gover	be present, unless disturbed or problematic.					
1. NONE							
2.		ī					
	0 = Total Cover	Hydrophytic Vegetation					
% Bare Ground in Herb Stratum		Present? Yes × No					
Remarks:							
Vegetation is problematic. Agricultural site	e consisting of 50-80% Lolium perenne and man	naged for monoculture					

SOIL Sampling Point: SP2 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² Remarks (inches) Type¹ Texture 100 0-19 10YR2/2 SiCL С 5 SiCL 19-22 10YR3/2 95 10YR4/4 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils3: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): No X Wetland Hydrology Present? Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

-	City/County: Lebanon/Linn	Sampling Date: 8/09/17
Applicant/Owner: Norman Steckley	State: OR Sampling	
Investigator(s): Allen Martin		, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, convex, r	
	Lat: 44.548583 Long: -122.9260	
Soil Map Unit Name: Conser silty clay loam		WI classification: upl
Are climatic / hydrologic conditions on the site typic		
Are Vegetation x , Soil ☐ , or Hydrolog Are Vegetation x , Soil ☐ , or Hydrolog		ormal Circumstances" present? Yes x No
Are vegetation, Soil, or Hydrolog	y I Haturally problematic?	If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site	e map showing sampling point I	ocations, transects, important features, etc.
7 · · · · · · · · · · · · · · · · · · ·	No	
	No $\frac{x}{x}$ Is the Sampled Area with	nin a Wetland? Yes No _X
	<u> </u>	
Remarks: Plot located at east end of students.	dy area to test eastward extension	on of swale
1 for focated at east end of stu-	dy area to test eastward extensive	on or sware.
VECETATION Line acientific names	of plants	
VEGETATION – Use scientific names	•	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Number of Dominant Species
1. None	0	That Are OBL, FACW, or FAC: 1 (A)
2.	0	Total Number of Dominant
3.	0	Species Across All Strata: 1 (B)
4	0	Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
		matrice obe, friend, of frie.
	0 = Total Cover	Dravalana Inday walkahaati
Sapling/Shrub Stratum (Plot size: 30 ft)		Prevalence Index worksheet:
1. None	0	Total % Cover of: Multiply by:
2.	0	OBL species x 1 = 0.0
3.	0	FACW species x 2 = 0.0
4	0	FAC species $x_3 = 0.0$
5	0 = Total Cover	FACU species x 4 = 0.0
Herb Stratum (Plot size: 6 ft)	- Total Gover	UPL species $x_5 = 0.0$
1. Lolium perenne	70 FAC	Column Totals: 0 (A) 0 (B)
2.		Prevalence Index = B/A = 0.0
3.		
4.		Hydrophytic Vegetation Indicators:
5		1 - Rapid Test for Hydrophytic Vegetation
6		☑ 2 - Dominance Test is >50%
7		☐ 3 - Prevalence Index is ≤3.01
8		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9		5 - Wetland Non-Vascular Plants ¹
10.		Problematic Hydrophytic Vegetation ¹ (Explain)
11	70 = Total Cover	¹Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)	= Total Cover	be present, unless disturbed or problematic.
1. NONE		
2.		
	0 = Total Cover	Hydrophytic
% Bare Ground in Herb Stratum		Vegetation Present? Yes × No
Remarks:		1
Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne and man	aged for monoculture

SOIL Sampling Point: SP3 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) % Loc² Remarks (inches) Type¹ Texture 100 0-10 10YR2/2 SiCL С 10YR2/2 SiCL 10-18 96 10YR4/4 100 С 18-22 10YR2/1 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils3: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): No X Wetland Hydrology Present? Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/09/17					
Applicant/Owner: Norman Steckley		State: OR Sampling						
Investigator(s): Allen Martin	Section, T	ownship, Range: Section 1	0, T12S, R02W					
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, convex,	none): none Slope (%): 0					
Subregion (LRR): A	Lat: 44.54858	33 Long: -122.9260	D_North_American_1983_HARN (SP, Int ft)					
Soil Map Unit Name: Conser silty clay loam			IWI classification: upl					
Are climatic / hydrologic conditions on the site typ		·						
Are Vegetation , Soil , or Hydrolog		-	lormal Circumstances" present? Yes x No					
Are Vegetation x , Soil , or Hydrolog	gy 🔲 natur	ally problematic?	(If needed, explain any answers in Remarks.)					
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes ×	Hydrophytic Vegetation Present? Yes x No							
Hydric Soil Present? Yes	No X	Is the Sampled Area wit	hin a Wetland? Yes No X					
Wetland Hydrology Present? Yes	NU <u>^</u>							
Remarks: Plot located to test eastward	evtencion o	of couthernmost swal	Α					
1 for focated to test castward	CALCHSION	or southerninost swar	C.					
VEGETATION – Use scientific names	of plants.							
	Absolute		Dominance Test worksheet:					
Tree Stratum (Plot size: 30 ft)	% Cover	Species? Status	Number of Dominant Species					
1. None	0		That Are OBL, FACW, or FAC: 1 (A)					
2.	0		Total Number of Dominant Species Across All Strata: 1 (B)					
3	0		Percent of Dominant Species					
T			That Are OBL, FACW, or FAC: 100 (A/B)					
	0	= Total Cover						
Sapling/Shrub Stratum (Plot size: 30 ft)		_	Prevalence Index worksheet:					
1. None	0		Total % Cover of: Multiply by:					
2	0		OBL species x 1 =0.0					
3	0		FACW species x 2 = 0.0					
4			FAC species $x_3 = 0.0$					
5	0	Tetal Cours	FACU species $x_4 = 0.0$					
Herb Stratum (Plot size: 6 ft)	0	_ = Total Cover	UPL species x 5= 0.0					
1. Lolium perenne	80	FAC	Column Totals: 0 (A) 0 (B)					
2.	· · · · · · · · · · · · · · · · · · ·		Prevalence Index = B/A = 0.0					
3.			<u> </u>					
4.			Hydrophytic Vegetation Indicators:					
5.			1 - Rapid Test for Hydrophytic Vegetation					
6			2 - Dominance Test is >50%					
7			☐ 3 - Prevalence Index is ≤3.0¹					
8			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)					
9.			5 - Wetland Non-Vascular Plants ¹					
10.			Problematic Hydrophytic Vegetation ¹ (Explain)					
11	80	= Total Cover	¹Indicators of hydric soil and wetland hydrology must					
Woody Vine Stratum (Plot size: 12 ft)			be present, unless disturbed or problematic.					
1. NONE								
2.	•		ī l					
	0	= Total Cover	Hydrophytic Vegetation					
% Bare Ground in Herb Stratum			Present? Yes x No					
Remarks:								
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne and man	naged for monoculture					

SOIL Sampling Point: SP4 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features % Color (moist) Color (moist) Loc² Remarks (inches) % Type¹ Texture 100 0-14 10YR2/2 SiCL 100 SiCL 14-20 10YR2/2 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils3: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) Д. Saturation (A3) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living ☐ Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): No X Wetland Hydrology Present? Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/09/17				
Applicant/Owner: Norman Steckley		State: OR Sai	mpling Point: SP5				
Investigator(s): Allen Martin	Section, T	ownship, Range: Sec	ction 10, T12S, R02W				
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, cor	nvex, none): none Slope (%): 0				
Subregion (LRR): A	Lat: 44.5485	83 Long: -12	2.926069 Datum: D_North_American_1983_HARN (SP, Int ft)				
Soil Map Unit Name: Conser silty clay loam			NWI classification: upl				
Are climatic / hydrologic conditions on the site typ							
Are Vegetation , Soil , or Hydrolo		-	Are "Normal Circumstances" present? Yes x No				
Are Vegetation x , Soil , or Hydrolo	gy 🔲 natur	ally problematic?	(If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes x	No		·				
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No ×	Is the Sampled Are	ea within a Wetland? Yes No _x				
Remarks:	<u></u>						
Plot located on north edge of	southern s	wale.					
VEGETATION – Use scientific names	of plants						
VEGETATION – Use scientific fiames	Absolute	Dominant Indic	Cator Dominance Test worksheet:				
Tree Stratum (Plot size: 30 ft)	% Cover		atus Number of Dominant Species				
1. None	0		That Are OBL, FACW, or FAC: 1 (A)				
2.			Total Number of Dominant				
3			Species Across All Strata: 1 (B) Percent of Dominant Species				
4	0		That Are OBL, FACW, or FAC: 100 (A/B)				
	0	- Total Caver					
Sapling/Shrub Stratum (Plot size: 30 ft)	-	= Total Cover	Prevalence Index worksheet:				
4 None	0		Total % Cover of: Multiply by:				
2. Notice	· -		OBL species x 1 = 0.0				
3.			FACW species x 2 = 0.0				
4.			FAC species $x_3 = 0.0$				
5			FACU species x 4 = 0.0				
	0	_ = Total Cover	UPL species x 5= 0.0				
Herb Stratum (Plot size: 6 ft)	70	FAC	Column Totals: 0 (A) 0 (B)				
Lolium perenne 2.	70	V PAC	Prevalence Index = B/A = 0.0				
2	-		Trevalence much - BIA - 0.0				
4.			Hydrophytic Vegetation Indicators:				
5.			1 - Rapid Test for Hydrophytic Vegetation				
6.			2 - Dominance Test is >50%				
7			3 - Prevalence Index is ≤3.0¹				
8			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)				
9.			5 - Wetland Non-Vascular Plants ¹				
10 11.			Problematic Hydrophytic Vegetation¹ (Explain)				
11.	70	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must				
Woody Vine Stratum (Plot size: 12 ft)			be present, unless disturbed or problematic.				
1. NONE							
2.			Hydrophytic				
	0	= Total Cover	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum			Present? Yes x No No				
Remarks:							
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne ar	nd managed for monoculture				

SOIL Sampling Point: SP5 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Depth % Color (moist) Color (moist) % Loc² Remarks (inches) Type¹ Texture 100 0-10 10YR2/2 SiCL 3 10YR2/2 SiCL 10-15 97 10YR3/4 С m 2 С 15-24 10YR3/1 98 10YR3/4 С m ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils3: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

-	City/County: Lebanon/Linn	Sampling Date: 8/09/17
Applicant/Owner: Norman Steckley	State: OR Sampling	
Investigator(s): Allen Martin), T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, convex, n	
	Lat: 44.548583 Long: -122.92606	
Soil Map Unit Name: Conser silty clay loam		WI classification: upl
Are climatic / hydrologic conditions on the site typic		
Are Vegetation , Soil, or Hydrology		ormal Circumstances" present? Yes x No No
Are Vegetation x , Soil , or Hydrology	naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site	map showing sampling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x 1	No	
	No Is the Sampled Area with	nin a Wetland? Yes <u>×</u> No
	No	
Remarks: Plot located in wetland swale	alana nartharn adag	
Plot located in wetland swale	along normern eage.	
VEGETATION – Use scientific names	•	- a contration
Tree Stratum (Plot size: 30 ft)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. None	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2.	0	Total Number of Dominant
3.	0	Species Across All Strata: 1 (B)
4.	0	Percent of Dominant Species
		That Are OBL, FACW, or FAC: 100 (A/B)
	0 = Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)		Prevalence Index worksheet:
1. None	0	Total % Cover of: Multiply by:
2	0	OBL species x 1= 0.0
3	0	FACW species x 2=0.0
4	0	FAC species x ₃ = <u>0.0</u>
5	0 = Total Cover	FACU species x 4 =0.0
Uset Charters (Diet size: 6ft)	0 = Total Cover	UPL species x 5= 0.0
Herb Stratum (Plot size: 6 ft) 1. Lolium perenne	60 FAC	Column Totals: 0 (A) 0 (B)
2.		Prevalence Index = B/A = 0.0
3.		
4.		Hydrophytic Vegetation Indicators:
5.		☐ 1 - Rapid Test for Hydrophytic Vegetation
6.		☑ 2 - Dominance Test is >50%
7		☐ 3 - Prevalence Index is ≤3.01
8		4 - Morphological Adaptations¹ (Provide supporting
9		data in Remarks of on a separate sheet)
10.		
11		
Wasaka Visa Otratana (Diataina 12 ft	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 12 ft) 1. NONE		be present, unless disturbed of problematic.
2.		
Z	0 = Total Cover	Hydrophytic
% Bare Ground in Herb Stratum	- 10tal 00v0l	Vegetation Present? Yes × No
70 Date Clound III . 18.5 Chate	-	Fiesont: 100 His
Remarks:		
Vegetation is problematic. Agricultural site of	consisting of 50-80% Lolium perenne and mana	aged for monoculture

SOIL Sampling Point: SP6 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features % Color (moist) Color (moist) % Loc² (inches) Type¹ Texture Remarks 100 0-6 10YR2/2 **GrSiCL** 5 С 6-11 10YR2/2 M SiCL 2%OR 95 10YR4/4 2 С С 11-24 10YR3/1 97 10YR3/4 M 1%MN ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils3: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) --Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? ☐ No Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/09/17				
Applicant/Owner: Norman Steckley		State: OR Sa	ampling Point: SP7				
Investigator(s): Allen Martin	Section, T	ownship, Range: Se	ection 10, T12S, R02W				
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, co	onvex, none): none Slope (%): 0				
Subregion (LRR): A	Lat: 44.5485	B3 Long: -1	22.926069 Datum: D_North_American_1983_HARN (SP, Int ft)				
Soil Map Unit Name: Clackamas Gravelly Silt Loan	1		NWI classification: upl				
Are climatic / hydrologic conditions on the site typ							
Are Vegetation , Soil , or Hydrolog		-	Are "Normal Circumstances" present? Yes x No				
Are Vegetation x , Soil , or Hydrolog	gy 🔲 natur	ally problematic?	(If needed, explain any answers in Remarks.)				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Yes x	No						
	No x	Is the Sampled Ar	rea within a Wetland? Yes No _x				
Wetland Hydrology Present? Yes	NO x						
Plot located in wetland swale	near coutl	arn houndary					
1 lot located ill wetland sware	iicai souu	icili boulldary.					
VEGETATION – Use scientific names	of plants.						
Tree Otreture (District 20 ft	Absolute		licator Dominance Test worksheet:				
Tree Stratum (Plot size: 30 ft) 1. None	% Cover	Species? St	tatus Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)				
•			Total Number of Dominant				
3.	0		Species Across All Strata: 1 (B)				
4.	0		Percent of Dominant Species				
	•		That Are OBL, FACW, or FAC: 100 (A/B)				
	0	= Total Cover					
Sapling/Shrub Stratum (Plot size: 30 ft)			Prevalence Index worksheet:				
1. None	0		Total % Cover of: Multiply by:				
2			OBL species x 1 = 0.0				
3.			FACW species x 2 = 0.0				
4.			FAC species x 3 = 0.0				
5	0	= Total Cover	FACU species x 4 = 0.0				
Herb Stratum (Plot size: 6 ft)			UPL species $x_5 = 0.0$				
1. Lolium perenne	50		Column Totals: 0 (A) 0 (B)				
2.	•		Prevalence Index = B/A = 0.0				
3.							
4			Hydrophytic Vegetation Indicators:				
5			1 - Rapid Test for Hydrophytic Vegetation				
6			2 - Dominance Test is >50%				
7.			3 - Prevalence Index is ≤3.0¹				
8.			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)				
9.			5 - Wetland Non-Vascular Plants ¹				
10. 11.			Problematic Hydrophytic Vegetation ¹ (Explain)				
· · · ·	50	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must				
Woody Vine Stratum (Plot size: 12 ft)		_	be present, unless disturbed or problematic.				
1. NONE							
2.			Lhudronhudia				
	0	_ = Total Cover	Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 50			Present? Yes x No				
Remarks:							
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne	and managed for monoculture				

SOIL Sampling Point: SP7 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features % Color (moist) Color (moist) Loc² (inches) % Type¹ Texture Remarks 100 0-14 10YR2/2 SiCL 100 **GrCL** 14-22 10YR2/2 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils3: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) Д. Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living ☐ Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) --Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County: Lebanon/Linn	Sampling Date: 8/09/17
Applicant/Owner: Norman Steckley	State: OR Sampling	
Investigator(s): Allen Martin	Section, Township, Range: Section 10), T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, convex,	none): none Slope (%): 0
	Lat: 44.548583 Long: -122.9260	D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Clackamas Gravelly Silt Loam NWI classification: upl		
Are climatic / hydrologic conditions on the site typi		
		ormal Circumstances" present? Yes x No
Are Vegetation x , Soil d , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes × No		
Hydric Soil Present? Yes ×	No Is the Sampled Area with	nin a Wetland? Yes x No
Wetland Hydrology Present? Yes ×	NO	
Remarks:		
VEGETATION – Use scientific names	of plants.	
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species
1. None	0	That Are OBL, FACW, or FAC: 1 (A)
2 3.	0	Total Number of Dominant Species Across All Strata: 1 (B)
3	0	Percent of Dominant Species
T		That Are OBL, FACW, or FAC: 100 (A/B)
	0 = Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)		Prevalence Index worksheet:
1. None	0	Total % Cover of: Multiply by:
2		OBL species x 1=0.0
3	0	FACW species x 2 = 0.0
4		FAC species $x_3 = 0.0$
5	0 = Total Cover	FACU species $x_4 = 0.0$
Herb Stratum (Plot size: 6 ft)	0 = Total Cover	UPL species x 5 =0.0
1. Lolium perrenne		Column Totals: 0 (A) 0 (B)
2.		Prevalence Index = B/A = 0.0
3.		
4.		Hydrophytic Vegetation Indicators:
5		☐ 1 - Rapid Test for Hydrophytic Vegetation
6		☑ 2 - Dominance Test is >50%
7		3 - Prevalence Index is ≤3.0¹
8.		4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9.		5 - Wetland Non-Vascular Plants ¹
10. 11.		Problematic Hydrophytic Vegetation ¹ (Explain)
11.	0 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)		be present, unless disturbed or problematic.
1. NONE		
2.		
	0 = Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum		Present? Yes x No
Remarks:		
Vegetation is problematic. Agricultural site consisting of 50-80% Lolium perenne and managed for monoculture		

SOIL Sampling Point: SP8 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) Loc² Remarks (inches) % Type¹ Texture 3 С PL 0-5 10YR3/2 97 10YR4/4 SiCL С 5 **GrSiCL** 5-9 10YR3/2 95 10YR4/4 M 9-20 100 С 10YR2/1 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils3: Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: Clay **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) --Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Applicant/Owner: Norman Steckley Investigator(s): Allen Martin Landform (hillslope, terrace, etc.): terrace Subregion (LRR): A Soil Map Unit Name: Conser silty clay loam Are climatic / hydrologic conditions on the site typic Are Vegetation , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic , or Hyd	Local relief (concave, convex, r Lat: 44.548583 Long: -122.92600 N' cal for this time of year? Yes	None Slope (%): 0 69 Datum: D_North_American_1983_HARN (SP, Int ft) WI classification: upl
Hydrophytic Vegetation Present? Yes × Hydric Soil Present? Yes ×	No No _x Is the Sampled Area with	
	ermination of southernmost swa	ale.
VEGETATION – Use scientific names	of plants.	
Tree Stratum (Plot size: 30 ft)) 1. None 2 3 4	Absolute Dominant Indicator <u>% Cover Species? Status</u> 0	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 30 ft) 1. None 2. 3. 4. 5. Herb Stratum (Plot size: 6 ft) 1. Lolium perenne	0	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = 0.0 FACW species x 2 = 0.0 FAC species x 3 = 0.0 FACU species x 4 = 0.0 UPL species x 5 = 0.0 Column Totals: 0 (A)
2		Prevalence Index = B/A = 0.0
4.		Hydrophytic Vegetation Indicators:
5.		☐ 1 - Rapid Test for Hydrophytic Vegetation
6.		☑ 2 - Dominance Test is >50%
7		☐ 3 - Prevalence Index is ≤3.01
8		4 - Morphological Adaptations¹ (Provide supporting
9.		data in Remarks of on a separate sheet)
10.		
11		
Woody Vine Stratum (Plot size: 12 ft) 1. NONE	0 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.		
% Bare Ground in Herb Stratum	0 = Total Cover	Hydrophytic Vegetation Present? Yes X No
Remarks:		1
Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne and man	aged for monoculture

SOIL Sampling Point: SP9 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Depth % Color (moist) Color (moist) % Loc² Remarks (inches) Type¹ Texture 100 0-11 10YR3/2 SiCL 3 С 10YR3/2 M SiCL 11-12 97 10YR3/4 SiC 12-16 10YR2/1 100 10YR4/4 С С 16-18 10YR3/1 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/09/17
Applicant/Owner: Norman Steckley		State: OR Sampling	Point: SP10
Investigator(s): Allen Martin	Section, T	ownship, Range: Section 10	, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, convex, r	none): none Slope (%): 0
Subregion (LRR): A	Lat: 44.54858	B3 Long: -122.92600	D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Clackamas Gravelly Silt Loan	1	N'	WI classification: upl
Are climatic / hydrologic conditions on the site typ	ical for this time	e of year? Yes 🔽 No 📗	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrolog	gy 🔲 signif	icantly disturbed? Are "No	ormal Circumstances" present? Yes x No
Are Vegetation \underline{x} , Soil $\underline{\square}$, or Hydrolog	gy 🔲 natur	ally problematic? (If needed, explain any answers in Remarks.)
		wing sampling point I	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Yes Hydric Soil Present? Yes	No	Is the Sampled Area with	nin a Wetland? Yes No ×
Wetland Hydrology Present? Yes	No ×		
Remarks:			
Plot located on south side of	shallow sw	ale on south end of s	tudy area.
			3
VEGETATION – Use scientific names	of plants.		
	Absolute	Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft)	% Cover		Number of Dominant Species
1. None	0		That Are OBL, FACW, or FAC: 1 (A)
2.	0		Total Number of Dominant
3.	0		Species Across All Strata: 1 (B)
4	0		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
			That Are OBL, I ACW, OF I AC. 100 (A/B)
	0	_ = Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)			Prevalence Index worksheet:
1. None	0		Total % Cover of: Multiply by:
2	0		OBL species x 1=
3	0		FACW species x 2 = 0.0
4	0		FAC species x ₃ =
5	0		FACU species x 4 =0.0
	0	_ = Total Cover	UPL species x 5= 0.0
Herb Stratum (Plot size: 6 ft)			Column Totals: 0 (A) 0 (B)
1. Lolium perrenne	· —		Drawalana ladau DA
2.			Prevalence Index = B/A = 0.0
3.	· -		Hydrophytic Vegetation Indicators:
4			
5.			1 - Rapid Test for Hydrophytic Vegetation
6			Z 2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0¹
7. 8.	· <u> </u>		3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
	· -		data in Remarks or on a separate sheet)
9. 10.			5 - Wetland Non-Vascular Plants ¹
4.4			Problematic Hydrophytic Vegetation¹ (Explain)
11.	0	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)			be present, unless disturbed or problematic.
1. NONE			
2.			
	0	= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum	_	_	Present? Yes × No
	_		
Remarks:			
**		. 000/ X 1'	16
Vegetation is problematic. Agricultural site	consisting of 50	1-80% Lolium perenne and man	aged for monoculture

SOIL Sampling Point: SP10 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² Remarks (inches) Type¹ Texture 100 0-14 10YR2/2 **VGSiCL** С 5 **GrCL** 14-20 10YR2/2 95 10YR3/4 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/09/17
Applicant/Owner: Norman Steckley			npling Point: SP11
Investigator(s): Allen Martin	Section, T	ownship, Range: Sect	tion 10, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, con	vex, none): none Slope (%): 0
	Lat: 44.5485	83 Long: -122	D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Clackamas Gravelly Silt Loam			NWI classification: upl
Are climatic / hydrologic conditions on the site typic			
Are Vegetation , Soil , or Hydrolog			re "Normal Circumstances" present? Yes x No
Are Vegetation x , Soil v , or Hydrolog	y <u>L</u> natur	ally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site	e map sho	wing sampling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No		
Hydric Soil Present? Wetland Hydrology Present? Yes X X	No	Is the Sampled Area	a within a Wetland? Yes × No
Remarks:			
Plot paired with Sp10 to defin	ne souther	n wetland bounda	rv of swale.
The second secon		,,	
VEGETATION – Use scientific names	of plants		
VEGETATION – Use scientific fiames	•	Dominant India	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	Absolute <u>% Cover</u>		atoi
1. None	0		That Are OBL, FACW, or FAC: 1 (A)
2	0		Total Number of Dominant
3	0		Species Across All Strata: 1 (B) Percent of Dominant Species
4	0		That Are OBL, FACW, or FAC: 100 (A/B)
	0	- Total Cavar	
Sapling/Shrub Stratum (Plot size: 30 ft)	-	= Total Cover	Prevalence Index worksheet:
4 None	0		Total % Cover of: Multiply by:
2.	0		OBL species x 1 = 0.0
3.	0		FACW species x 2 = 0.0
4	0		FAC species x 3 = 0.0
5	0		FACU species x 4 = 0.0
W 1 04 4 (D) 4 5 (C)	0	= Total Cover	UPL species x 5=
Herb Stratum (Plot size: 6 ft) 1. Lolium perrenne			Column Totals: 0 (A) 0 (B)
2.			Prevalence Index = B/A = 0.0
3.			
4.			Hydrophytic Vegetation Indicators:
5.			1 - Rapid Test for Hydrophytic Vegetation
6			2 - Dominance Test is >50%
7			3 - Prevalence Index is ≤3.01
8.			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9			5 - Wetland Non-Vascular Plants ¹
10. 11.	-		Problematic Hydrophytic Vegetation ¹ (Explain)
	0	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)			be present, unless disturbed or problematic.
1. NONE			
2			Hydrophytic
	0	= Total Cover	Vegetation
% Bare Ground in Herb Stratum			Present? Yes x No No
Damada			
Remarks:			
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne an	d managed for monoculture

SOIL Sampling Point: SP11 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 0-8 10YR3/2 SiCL 5 С 8-14 10YR2/2 95 SiC 10YR4/4 M 14-22 5 С M **VGC** 10YR2/2 95 10YR5/3 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): SiC/C Type: **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County: Lebanon/Lin	าท	Sampling Date: 8	8/09/17
Applicant/Owner: Norman Steckley		R Sampling P	0.00.4.0	
Investigator(s): Allen Martin	Section, Township, Ra	ange: Section 10, T	Γ12S, R02W	
Landform (hillslope, terrace, etc.): terrace	Local relief (co	ncave, convex, nor	ne): none	Slope (%): 0
Subregion (LRR): A	Lat: 44.548583 L	ong: <u>-122.926069</u>	Datum: [D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam			I classification: up	
Are climatic / hydrologic conditions on the site type				
	gy significantly distu			present? Yes x No No
Are Vegetation x , Soil Z , or Hydrold	gy <u> </u>	natic? (If	needed, explain any	answers in Remarks.)
SUMMARY OF FINDINGS - Attach si	te man showing sam	nling noint lo	cations transe	cts important features etc
Hydrophytic Vegetation Present? Yes ×	No	ipinig point iot	outiono, transo	
Hydric Soil Present? Yes ×		mpled Area within	a Wetland?	Yes <u>×</u> No
Wetland Hydrology Present? Yes ×	NO			
Plot located near northern ed	lae of challow swale	to define wet	land	
That located fical flortifering	ige of shahow sware	to define wet	lianu.	
VEGETATION – Use scientific names	of plants.			
	Absolute Domina		Dominance Test	worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species	Status Status	Number of Domina	
1. None	0 0		That Are OBL, FACTORIAL Number of D	` '
2.	0		Species Across All	·
3	0		Percent of Domina	ant Species
T			That Are OBL, FA	CW, or FAC: 100 (A/B)
	0 = Total 0	Cover		
Sapling/Shrub Stratum (Plot size: 30 ft)			Prevalence Index	worksheet:
1. None	0		Total % Cover of:	Multiply by:
2			OBL species	x 1= 0.0
3			FACW species	x 2 = 0.0
4	0		FAC species _	x 3 = 0.0
5		20101	FACU species _	x 4 = 0.0
Herb Stratum (Plot size: 6 ft)	<u>0</u> = Total 0	Jover	UPL species _	x 5 = 0.0
1 Lolium perrenne			Column Totals: 0	(A) 0 (B)
2.			Prevalence Index	= B/A = 0.0
3.				
4.			Hydrophytic Vege	etation Indicators:
5			1 - Rapid Test	for Hydrophytic Vegetation
6		<u> </u>	2 - Dominance	Test is >50%
7			3 - Prevalence	
8.			4 - Morphologio	cal Adaptations ¹ (Provide supporting s or on a separate sheet)
9.				n-Vascular Plants¹
10 11.				/drophytic Vegetation¹ (Explain)
11	0 = Total (ic soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)				disturbed or problematic.
1. NONE				
2.			Usalnombs 4t a	
	0 = Total 0	Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum				es x No
Remarks:				
Vegetation is problematic. Agricultural sit	e consisting of 50-80% Lolium	n perenne and manag	ged for monoculture	

SOIL Sampling Point: SP12 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 5 С 0-9 10YR3/2 95 10YR4/4 M С 95 5 M/PL GrC 9-20 10YR2/1 10YR4/4 2%OR ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \square ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: GrC **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Saturation (A3) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? ☐ No Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Applicant/Owner: Norman Steckley Investigator(s): Allen Martin Landform (hillslope, terrace, etc.): terrace Subregion (LRR): A Soil Map Unit Name: Conser silty clay loam Are climatic / hydrologic conditions on the site typic	Local relief (concave, convex, r Lat: 44.548583 Long: -122.92600 N' cal for this time of year? Yes	N, T12S, R02W
Hydrophytic Vegetation Present? Yes × Hydric Soil Present? Yes ×	No	ocations, transects, important features, etc. nin a Wetland? Yes No _×
Plot located on north side of s		2 to define north edge of wetland.
VEGETATION – Use scientific names	of plants.	
Tree Stratum (Plot size: 30 ft 20 mm) 30 ft 30 mm) 1. None 2. 3. 4. 3. 4. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	Absolute Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
Sapling/Shrub Stratum (Plot size: 30 ft)) 1. None 2. 3. 4. 5. 4. 6. 6 ft 1. Lolium perrenne	0	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = 0.0 FACW species x 2 = 0.0 FAC species x 3 = 0.0 FACU species x 4 = 0.0 UPL species x 5 = 0.0 Column Totals: 0 (A) 0 (B)
2		Prevalence Index = B/A = 0.0
3		Hydrophytic Vocatation Indicators:
4		Hydrophytic Vegetation Indicators:
5.		1 - Rapid Test for Hydrophytic Vegetation
6 7.		Z 2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0¹
7. 8.		4 - Morphological Adaptations (Provide supporting
9.		data in Remarks or on a separate sheet)
10.		☐ 5 - Wetland Non-Vascular Plants¹
11.		Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 12 ft) 1. NONE	0 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	0 = Total Cover	Hydrophytic Vegetation Present? Yes x No
Remarks:		-
Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne and man	aged for monoculture

SOIL Sampling Point: SP13 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features % Color (moist) Color (moist) Loc² (inches) % Type¹ Texture Remarks 100 0-15 10YR2/2 **GrCL** 100 15-20 10YR2/2 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: Clay **Hydric Soil Present?** Depth (inches): begins 15"bg Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) Д. Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn		Sampling Date:	8/09/17	
Applicant/Owner: Norman Steckley		State: OR S	 Sampling Poi	0.5.4.4		
Investigator(s): Allen Martin	Section, T	ownship, Range:	Section 10, T1	2S, R02W		
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, c	convex, none	e): none	Slope	e (%): 0
Subregion (LRR): A	Lat: 44.5485	83 Long: -	122.926069	Datum:	D_North_America	an_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam			NWI	classification:	upl	
Are climatic / hydrologic conditions on the site type						
Are Vegetation , Soil , or Hydrolog		-		al Circumstance		
Are Vegetation x , Soil , or Hydrolog	gy <u> </u>	ally problematic?	(If ne	eeded, explain a	ny answers in F	Remarks.)
SUMMARY OF FINDINGS – Attach sit	to man sho	wing sampling	noint loc:	atione trane	acts impor	tant foatures etc
Hydrophytic Vegetation Present? Yes ×	No		ponit ioo	ationo, trano		
Hydric Soil Present? Yes	No ×	Is the Sampled A	rea within a	Wetland?	Yes	No _x
Wetland Hydrology Present? Yes	NO x					
Remarks:						
VEGETATION – Use scientific names	of plants.					
	Absolute		ulcatoi	Dominance Tes	t worksheet:	
Tree Stratum (Plot size: 30 ft)	% Cover	Species? S		Number of Domi		1 (A)
1. None	0 0			That Are OBL, F Total Number of		1 (A)
2. 3.	0			Species Across		1 (B)
3	0			Percent of Domi		
T				That Are OBL, F	ACW, or FAC:	100 (A/B)
	0	= Total Cover				
Sapling/Shrub Stratum (Plot size: 30 ft)				Prevalence Inde	ex worksheet:	
1. None	0			Total % Cover of	f: Multip	ly by:
2				OBL species	x 1=	0.0
3	0			FACW species	x 2=	0.0
4.				FAC species	x 3=	0.0
5	0	- Total Causes		FACU species	x 4=	0.0
Herb Stratum (Plot size: 6 ft)	-	= Total Cover	'	JPL species	x 5=	0.0
1. Lolium perrenne			-	Column Totals:	0 (A)	0 (B)
2.				Prevalence Inde	x = B/A =	0.0
3.						
4.				Hydrophytic Ve	getation Indica	itors:
5				1 - Rapid Tes	st for Hydrophyt	ic Vegetation
6	_			2 - Dominano	ce Test is >50%	
7.	_				ce Index is ≤3.01	
8.	-			4 - Morpholog	gical Adaptation arks or on a sep	ns ¹ (Provide supporting arate sheet)
9					Non-Vascular Pl	· ·
10. 11.				_		getation¹ (Explain)
11.	0	= Total Cover				tland hydrology must
Woody Vine Stratum (Plot size: 12 ft)				pe present, unle		
1. NONE						
2.						
	0	= Total Cover		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum				-	Yes x	No
Remarks:						
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne	and managed	l for monoculture		
						!

SOIL Sampling Point: SP14 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 100 0-12 10YR2/2 **GrSiCL** 5 С 10YR2/2 **GrSiCL** 12-16 95 10YR4/4 M 90 10 С С 16-20 10YR2/2 10YR4/4 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/09/17
Applicant/Owner: Norman Steckley		State: OR Sam	pling Point: SP15
Investigator(s): Allen Martin	Section, T	ownship, Range: Secti	on 10, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, conv	vex, none): none Slope (%): 0
Subregion (LRR): A	Lat: 44.5485	83 Long: -122	926069 Datum: D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam			NWI classification: upl
Are climatic / hydrologic conditions on the site type			
Are Vegetation , Soil , or Hydrolo		-	e "Normal Circumstances" present? Yes x No
Are Vegetation x , Soil , or Hydrolo	gy 🔲 natur	ally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach si	to man sho	wing sampling no	int locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No		
Hydric Soil Present? Yes ×	No	Is the Sampled Area	within a Wetland? Yes X No No
Wetland Hydrology Present? Yes x	NO		
Plot located near southern ed	lge of chall	ow denression	
1 lot located fical southern ce	ige of shaff	ow acpression.	
VEGETATION – Use scientific names	of plants.		
Trace Otractions (Diet sines 20 ft	Absolute		
<u>Tree Stratum</u> (Plot size: 30 ft) 1. None	% Cover	Species? State	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
•			Total Number of Dominant
0	0		Species Across All Strata: 1 (B)
4.	0		Percent of Dominant Species
			That Are OBL, FACW, or FAC: 100 (A/B)
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)			Prevalence Index worksheet:
1. None			Total % Cover of: Multiply by:
2			OBL species x 1 = 0.0
3.	_		FACW species x 2 = 0.0
4.			FAC species x 3 = 0.0
5	0	= Total Cover	FACU species x 4 = 0.0
Herb Stratum (Plot size: 6 ft)			UPL species x 5 = 0.0
1. Lolium perrenne			Column Totals: 0 (A) 0 (B)
2.	_		Prevalence Index = B/A = 0.0
3.			
4	_		Hydrophytic Vegetation Indicators:
5	_		1 - Rapid Test for Hydrophytic Vegetation
6			2 - Dominance Test is >50%
7.	_		3 - Prevalence Index is ≤3.0¹
8.			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9			5 - Wetland Non-Vascular Plants ¹
10. 11.			Problematic Hydrophytic Vegetation ¹ (Explain)
11.	0	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)		_	be present, unless disturbed or problematic.
1. NONE			
2	_		Livedyson by disc
	0	_ = Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum			Present? Yes x No No
Remarks:			
Vegetation is problematic. Agricultural site	e consisting of 50	0-80% Lolium perenne and	managed for monoculture

SOIL Sampling Point: SP15 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² Remarks (inches) Type¹ Texture 100 0-8 10YR2/2 **GrSiCL** 5 С 8-13 10YR2/2 **GrSiCL** 95 10YR4/4 M 90 10 С С 13-20 10YR2/2 10YR4/4 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Applicant/Owner: Norman Steckley Investigator(s): Allen Martin Landform (hillslope, terrace, etc.): terrace Subregion (LRR): A Soil Map Unit Name: Conser silty clay loam Are climatic / hydrologic conditions on the site typi	Local relief (concave, convex, r Lat: 44.548583 Long: -122.92600 N' cal for this time of year? Yes	none): none Slope (%): 0 Datum: D_North_American_1983_HARN (SP, Int ft) WI classification: upl (If no, explain in Remarks.) ormal Circumstances" present? Yes x No
SUMMARY OF FINDINGS – Attach site Hydrophytic Vegetation Present? Hydric Soil Present? Yes Yes		(If needed, explain any answers in Remarks.) ocations, transects, important features, etc. nin a Wetland? Yes No _x
VEGETATION – Use scientific names Tree Stratum (Plot size: 30 ft) 1. None 2. 3. 4.	Absolute Dominant Indicator Species? Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 1 (A) (B)
Sapling/Shrub Stratum (Plot size: 30 ft)) 1. None	0	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = 0.0 FACW species x 2 = 0.0 FAC species x 3 = 0.0 FACU species x 4 = 0.0 UPL species x 5 = 0.0 Column Totals: 0 (A)
2. 3.		Prevalence Index = B/A = 0.0
4		Hydrophytic Vegetation Indicators: □ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% □ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) □ 5 - Wetland Non-Vascular Plants¹ □ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation
% Bare Ground in Herb Stratum	_	Present? Yes x No
Remarks: Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne and man	aged for monoculture

SOIL Sampling Point: SP16 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 100 0-6 10YR2/2 SiCL 5 С M/PL 6-8 10YR2/2 SiCL 95 10YR4/4 SiCL 8-12 10YR2/2 100 5 С 12-24 10YR2/1 95 10YR4/4 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Clay Type: **Hydric Soil Present?** Depth (inches): begins 12"bg Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? ☐ No Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/09/17
Applicant/Owner: Norman Steckley		State: OR Sam	pling Point: SP17
Investigator(s): Allen Martin	Section, T	ownship, Range: Secti	on 10, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, conv	vex, none): none Slope (%): 0
Subregion (LRR): A	Lat: 44.5485	83 Long: -122.	926069 Datum: D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam			NWI classification: upl
Are climatic / hydrologic conditions on the site typ		_	
Are Vegetation , Soil , or Hydrolo		-	e "Normal Circumstances" present? Yes x No
Are Vegetation \underline{x} , Soil $\underline{\square}$, or Hydrological	gy 🔲 natur	ally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	te man sho	wing sampling po	int locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No		
Hydric Soil Present? Yes ×	No	Is the Sampled Area	within a Wetland? Yes x No No
Wetland Hydrology Present? Yes x	NO		
Remarks: Plot located on north side of	challow cu	7a1e	
1 lot located oil flortil side of	Shanow Sw	aic.	
VEGETATION – Use scientific names	of plants.		
Tree Ottobare (Diet siese 20 ft	Absolute		
Tree Stratum (Plot size: 30 ft) 1. None	% Cover	Species? Statu	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
•			Total Number of Dominant
3.	0		Species Across All Strata: 1 (B)
4.	0		Percent of Dominant Species
			That Are OBL, FACW, or FAC: 100 (A/B)
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)			Prevalence Index worksheet:
1. None			Total % Cover of: Multiply by:
2.			OBL species x 1 = 0.0
3.	_		FACW species x 2 = 0.0
45.			FAC species x 3 = 0.0
5	0	= Total Cover	FACU species x 4 = 0.0
Herb Stratum (Plot size: 6 ft)			UPL species x 5 = 0.0
1. Lolium perrenne			Column Totals: 0 (A) 0 (B)
2.			Prevalence Index = B/A = 0.0
3.			
4	_		Hydrophytic Vegetation Indicators:
5			1 - Rapid Test for Hydrophytic Vegetation
6.	_		2 - Dominance Test is >50%
7.	_		3 - Prevalence Index is ≤3.0¹
9.			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
10.			5 - Wetland Non-Vascular Plants ¹
11.			Problematic Hydrophytic Vegetation¹ (Explain)
	0	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)			be present, unless disturbed or problematic.
1. NONE			
2			Hydrophytic
	0	= Total Cover	Vegetation
% Bare Ground in Herb Stratum			Present? Yes x No
Remarks:			
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne and	managed for monoculture

SOIL Sampling Point: SP17 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Loc² Type¹ Texture Remarks 0-6 10YR2/2 100 SiCL 5 С M/PL 6-10 10YR3/2 SiCL 95 10YR4/4 2%or **GrSiCL** 10-15 10YR3/2 100 С 15-20 10YR3/1 100 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? ☐ No Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/16/17
Applicant/Owner: Norman Steckley		State: OR Sa	ampling Point: SP18
Investigator(s): Allen Martin	Section, T	ownship, Range: Se	ection 10, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, co	onvex, none): none Slope (%): 0
Subregion (LRR): A	Lat: 44.5485	83 Long: -1.	22.926069 Datum: D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam			NWI classification: upl
Are climatic / hydrologic conditions on the site type			·
Are Vegetation , Soil , or Hydrolo		-	Are "Normal Circumstances" present? Yes x No
Are Vegetation x , Soil , or Hydrolog	gy 🔲 natur	ally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	a man sho	wing sampling r	point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes ×	No		
Hydric Soil Present? Yes	No ×	Is the Sampled Ar	rea within a Wetland? Yes No X
Wetland Hydrology Present? Yes x	NU		
Plot designed to locate uplan	d adaa of s	outhern swale	
That designed to locate uplan	u cuge of s	ouncin swarc.	
VEGETATION – Use scientific names	of plants.		
Tree Ottobare (Diet siese 20 ft	Absolute		licator Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft) 1. None	% Cover	Species? St	tatus Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
•	0		Total Number of Dominant
3.	0		Species Across All Strata: 1 (B)
4.	0		Percent of Dominant Species
			That Are OBL, FACW, or FAC: 100 (A/B)
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)			Prevalence Index worksheet:
1. None			Total % Cover of: Multiply by:
2			OBL species x 1 = 0.0
3.	_		FACW species x 2 = 0.0
4.			FAC species x 3 = 0.0
5	0	= Total Cover	FACU species x 4 = 0.0
Herb Stratum (Plot size: 6 ft)		= Total Cover	UPL species x 5 = 0.0
1. Lolium perenne	60	FAC	Column Totals: 0 (A) 0 (B)
2.			Prevalence Index = B/A = 0.0
3.			
4			Hydrophytic Vegetation Indicators:
5			1 - Rapid Test for Hydrophytic Vegetation
6			2 - Dominance Test is >50%
7.			3 - Prevalence Index is ≤3.0¹
8.			4 - Morphological Adaptations ¹ (Provide supportin data in Remarks or on a separate sheet)
9.			5 - Wetland Non-Vascular Plants ¹
10 11.			Problematic Hydrophytic Vegetation ¹ (Explain)
11.	60	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)		_	be present, unless disturbed or problematic.
1. NONE			
2			Hydrophytic
	0	_ = Total Cover	Vegetation
% Bare Ground in Herb Stratum			Present? Yes x No No
Remarks:			
Vegetation is problematic. Agricultural site	consisting of 50)-80% Lolium perenne a	and managed for monoculture

SOIL Sampling Point: SP18 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Loc² Color (moist) % Color (moist) (inches) % Type¹ Texture Remarks 2 С 0-8 10YR3/2 98 10YR4/4 PL **GSiCL** 2%OR 100 **GrSiCL** 8-18 10YR2/2 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) Д. Saturation (A3) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): X No Wetland Hydrology Present? Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn		Sampling Date:	8/16/17	
Applicant/Owner: Norman Steckley		State: OR S	Sampling Po	0.7.10		
Investigator(s): Allen Martin	Section, T	ownship, Range: S	Section 10, T	12S, R02W		
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, c	convex, nor	ne): none	Slope	e (%): 0
Subregion (LRR): A	Lat: 44.5485	83 Long: <u>-</u> 1	122.926069	Datum:	D_North_America	an_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam			NWI	classification:	upl	
Are climatic / hydrologic conditions on the site typ			_	•		
Are Vegetation , Soil , or Hydrolog		-		nal Circumstance		
Are Vegetation x , Soil , or Hydrolog	gy 🔲 natur	ally problematic?	(If r	needed, explain a	iny answers in F	Remarks.)
SUMMARY OF FINDINGS – Attach sit	te man sho	wing sampling i	noint loc	ations trans	ects impor	tant features etc
Hydrophytic Vegetation Present? Yes ×	No		point ioc	ationo, tranc		
Hydric Soil Present? Wetland Hydrology Present? Yes X Yes X	No	Is the Sampled A	Area within	a Wetland?	Yes X	No
	INU					
Remarks:						
VEGETATION – Use scientific names	of plants.					
	Absolute		dicator	Dominance Tes	st worksheet:	
Tree Stratum (Plot size: 30 ft)	% Cover	Species? S	Status	Number of Domi		1 (A)
1. None	0 0			That Are OBL, F Total Number of		1 (A)
2. 3.	0			Species Across		1 (B)
34	0			Percent of Domi		
	-			That Are OBL, F	ACW, or FAC:	100 (A/B)
	0	= Total Cover				
Sapling/Shrub Stratum (Plot size: 30 ft)				Prevalence Inde	ex worksheet:	
1. None	0			Total % Cover o	f: Multip	oly by:
2	0			OBL species	x 1=	0.0
3.				FACW species	x 2=	
4				FAC species	x 3=	
5	0	= Total Cover		FACU species	x 4=	
Herb Stratum (Plot size: 6 ft)		= Total Cover		UPL species	x 5=	
1. Lolium perenne	60	FAC	С	Column Totals:	0 (A)	0 (B)
2.				Prevalence Inde	ex = B/A =	0.0
3.						
4				Hydrophytic Ve	getation Indica	ators:
5	_				st for Hydrophyt	-
6.	_				ce Test is >50%	
7.					ce Index is ≤3.0	
9.				data in Rema	arks or on a sep	ns ¹ (Provide supporting parate sheet)
10.					Non-Vascular Pi	
11.				Problematic	Hydrophytic Ve	getation¹ (Explain)
	60	= Total Cover		¹ Indicators of hy	dric soil and we	tland hydrology must
Woody Vine Stratum (Plot size: 12 ft)				be present, unle	ss disturbed or	problematic.
1. NONE						
2				Hydrophytic		
	0	= Total Cover		Vegetation		
% Bare Ground in Herb Stratum				Present?	Yes x	No
Remarks:						
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne	e and manage	ed for monoculture		

SOIL Sampling Point: SP19 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 5 С 0-7 10YR3/2 95 10YR4/4 PL **GSiCL** 5%OR 7-12 10YR2/2 100 **GrCL** 90 10 С GrC 12-20 10YR3/1 10YR5/4 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Saturation (A3) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled Soils (C6) ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): X No Wetland Hydrology Present? Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Samp	oling Date:	8/16/17	
Applicant/Owner: Norman Steckley		State: OR Sa		SP20		
Investigator(s): Allen Martin	Section, T	ownship, Range: S	ection 10, T12S, R	02W		
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, co	onvex, none):	none	Slope	(%): 0
Subregion (LRR): A	Lat: 44.5485	B3 Long: -1	122.926069	Datum:	D_North_America	n_1983_HARN (SP, Int ft)
Soil Map Unit Name: Coburg silty clay loam			NWI class	ification: u	pl	
Are climatic / hydrologic conditions on the site type						
Are Vegetation , Soil , or Hydrolo			Are "Normal Cir			
Are Vegetation x , Soil d , or Hydrolo	gy 🔲 natur	ally problematic?	(If neede	d, explain an	y answers in R	emarks.)
SUMMARY OF FINDINGS – Attach si	ta man sho	wina samnlina r	noint locatio	ne tranec	acts import	ant features etc
Hydrophytic Vegetation Present? Yes ×	No					
Hydric Soil Present? Yes	No x	Is the Sampled A	rea within a We	tland?	Yes	_ No _X
Wetland Hydrology Present? Yes	NO <u>^</u>					
Plot located centrally in field	l on north a	dge of challow	cwale			
1 lot located centrally in field	i on north c	uge of shallow	swarc.			
VEGETATION - Use scientific names	of plants.					
	Absolute		alcator	inance Test	worksheet:	
Tree Stratum (Plot size: 30 ft)	% Cover	Species? S		ber of Domin		1 (A)
1. None	- 0			Number of [•	1 (A)
2. 3.	0			ies Across A		1 (B)
34	0			ent of Domin		
			That	Are OBL, FA	CW, or FAC:	100 (A/B)
	0	= Total Cover				
Sapling/Shrub Stratum (Plot size: 30 ft)			Prev	alence Inde	x worksheet:	
1. None	0		Total	% Cover of:	Multip	ly by:
2	0		OBL	species	x 1=	0.0
3	0		FAC\	N species	x 2=	0.0
4.				species	x 3=	0.0
5	0	- Total Cayon	FACI	U species	x 4=	0.0
Herb Stratum (Plot size: 6 ft)	-	= Total Cover	UPL	species	x 5=	0.0
1. Lolium perenne	60	FAC	Colur	mn Totals:	0 (A)	0 (B)
2.	_		Preva	alence Index	= B/A =	0.0
3.						
4.			Hydr	ophytic Veg	etation Indica	tors:
5	_		1	- Rapid Test	for Hydrophyti	c Vegetation
6			☑ 2	- Dominance	e Test is >50%	
7.					e Index is ≤3.0 ¹	
8				- Morphologi ata in Remar	ical Adaptation: ks or on a sepa	s ¹ (Provide supporting
9					on-Vascular Pla	· ·
10 11.						etation¹ (Explain)
11.	60	= Total Cover				and hydrology must
Woody Vine Stratum (Plot size: 12 ft)					s disturbed or p	
1. NONE						
2.						
	0	_ = Total Cover		ophytic etation		
% Bare Ground in Herb Stratum			Pres		'es x	No
Remarks:						
Vegetation is problematic. Agricultural site	e consisting of 50	0-80% Lolium perenne	and managed for i	monoculture		

SOIL Sampling Point: SP20 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) Color (moist) % Loc² Remarks (inches) Type¹ Texture 0-12 10YR3/2 **GrSiCL** С 5 **VGSiCL** 12-18 10YR3/2 95 10YR4/4 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Saturation (A3) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): No X Wetland Hydrology Present? Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County: Lebanon/Linn	Sampling Date: 8/16/17
Applicant/Owner: Norman Steckley		npling Point: SP21
Investigator(s): Allen Martin	Section, Township, Range: Sec	ion 10, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, con	vex, none): none Slope (%): 0
		.926069 Datum: D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Courtney gravelly silty clay loa	am	NWI classification: upl
Are climatic / hydrologic conditions on the site typi		
		re "Normal Circumstances" present? Yes x No
Are Vegetation x , Soil , or Hydrolog	gy <u> </u>	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	e man showing sampling no	int locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No	
Hydric Soil Present? Yes ×	No Is the Sampled Are	a within a Wetland? Yes X No
Wetland Hydrology Present? Yes x	NO	
Plot located in shallow swale	noor center of field	
Flot located in Shahow Swale	thear center of field.	
VEGETATION – Use scientific names	of plants.	
	Absolute Dominant Indic	
Tree Stratum (Plot size: 30 ft)	% Cover Species? Sta	Transcr of Bonniant openies
1. None	0 0	That Are OBL, FACW, or FAC: 1 (A)
2. 3.	0	Total Number of Dominant Species Across All Strata: 1 (B)
3	0	Percent of Dominant Species
T		That Are OBL, FACW, or FAC: 100 (A/B)
	0 = Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)		Prevalence Index worksheet:
1. None	0	Total % Cover of: Multiply by:
2.		OBL species x 1 = 0.0
3.	0	FACW species x 2= 0.0
4		FAC species x 3 = 0.0
5		FACU species x 4 = 0.0
	0 = Total Cover	UPL species x 5 =0.0
Herb Stratum (Plot size: 6 ft) 1. Lolium perenne	60 FAC	Column Totals: 0 (A) 0 (B)
2.	60 Y FRE	Prevalence Index = B/A = 0.0
2		Trevalence index = B/A =
4.		Hydrophytic Vegetation Indicators:
5.		1 - Rapid Test for Hydrophytic Vegetation
6.		☑ 2 - Dominance Test is >50%
7		3 - Prevalence Index is ≤3.01
8		4 - Morphological Adaptations¹ (Provide supporting
9.		uata in Remarks of on a separate sheet)
10.		
11		
Woody Vine Stratum (Plot size: 12 ft)	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 12 ft) 1. NONE		
2.		
	0 = Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum		Present? Yes x No
Remarks:		
Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne an	d managed for monoculture
r-volument. 1251. value of the		

SOIL Sampling Point: SP21 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 5 С 0-8 10YR3/2 95 10YR4/4 PL/M **GrSiCL** 3%OR 8-16 10YR2/2 100 **GrSiCL** 15 С 16-24 10YR3/2 85 10YR5/4 M **GrCL** ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Saturation (A3) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled Soils (C6) ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): X No Wetland Hydrology Present? Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt Applicant/Owner: Norman Steckley	City/County: Lebanon/Linn State: OR Samp	Sampling Date: 8/16/17 ling Point: SP22
Investigator(s): Allen Martin		1 10, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, conve	
	Lat: 44.548583 Long: -122.93	
Soil Map Unit Name: Courtney gravelly silty clay loa		NWI classification: upl
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes 🔽 No	(If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrolog	y significantly disturbed? Are	"Normal Circumstances" present? Yes x No
Are Vegetation x , Soil 7 , or Hydrolog	y naturally problematic?	(If needed, explain any answers in Remarks.)
	e map showing sampling poir	nt locations, transects, important features, etc.
Hvdric Soil Present? Yes ×		vithin a Wetland? Yes × No
Wetland Hydrology Present? Yes x	No	
Remarks:		
Plot located in shallow swale	near center of field.	
VEGETATION – Use scientific names	of plants.	
T 01 1 (D) 1 : 20 f	Absolute Dominant Indicate	
<u>Tree Stratum</u> (Plot size: 30 ft) 1. None	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
· ·	0	Total Number of Dominant
2. 3.		Species Across All Strata: 1 (B)
4.	0	Percent of Dominant Species
		That Are OBL, FACW, or FAC: 100 (A/B)
	0 = Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)		Prevalence Index worksheet:
1. None	0	Total % Cover of: Multiply by:
2	0	OBL species x 1= 0.0
3		FACW species x 2 = 0.0
4	0	FAC species $x_3 = 0.0$
5	0 = Total Cover	FACU species x 4 = 0.0
Howh Chrotisms (Distoines 6 ft	0 = Total Cover	UPL species $x_5 = 0.0$
Herb Stratum (Plot size: 6 ft) 1. Lolium perenne	60 FAC	Column Totals: 0 (A) 0 (B)
2.		Prevalence Index = B/A = 0.0
3.		
4.		Hydrophytic Vegetation Indicators:
5.		1 - Rapid Test for Hydrophytic Vegetation
6.		2 - Dominance Test is >50%
7		☐ 3 - Prevalence Index is ≤3.01
8		4 - Morphological Adaptations¹ (Provide supporting
9		data in Remarks of on a separate sneet)
10.		
11		
Manada Vina Otastana (Diataina 12 ft	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 12 ft) 1. NONE		be present, unless distarbed of problematic.
2.		=
2.	0 = Total Cover	Hydrophytic
% Bare Ground in Herb Stratum		Vegetation Present? Yes × No
		100 100
Remarks:		
		1.C
Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne and i	nanageu for monoculture

SOIL Sampling Point: SP22 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 0-4 10YR3/2 **GrSiCL** 5 С 4-11 10YR3/2 GrC 95 10YR4/4 M 5 С 11-14 10YR3/1 95 10YR4/4 GrC M С GrC 14-20 10YR4/1 80 7.5YR5/6 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8)

□ No □ Depth (inches):

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

Depth (inches):

Depth (inches):

□ No

☐ No

Yes

Remarks:

Field Observations: Surface Water Present?

Water Table Present? Saturation Present?

(includes capillary fringe)

Yes X No

Wetland Hydrology Present?

-	City/County: Lebanon/Linn State: OR Sampling	Sampling Date: 8/16/17 Point: SP23
	- Ctate: Campining	, T12S, R02W
Landform (hillslope, terrace, etc.): terrace Subregion (LRR): A	Lat: 44.548583 Long: -122.92600	
Subregion (LRR): A Soil Map Unit Name: Coburg silty clay loam		
•		WI classification: upl
Are climatic / hydrologic conditions on the site typic Are Vegetation , Soil , or Hydrologic		ormal Circumstances" present? Yes x No
Are Vegetation x , Soil , or Hydrolog	· -	If needed, explain any answers in Remarks.)
Are vegetation , soil vegetation	y Traturally problematics	in needed, explain any answers in Nemarks.)
SUMMARY OF FINDINGS - Attach site	e map showing sampling point l	ocations, transects, important features, etc.
	No	<u> </u>
Hydric Soil Present? Yes	No x Is the Sampled Area with	in a Wetland? Yes No _x
Wetland Hydrology Present? Yes X	No	
Remarks:		
VEGETATION – Use scientific names	of plants.	
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	Number of Dominant Species
1. None	0	That Are OBL, FACW, or FAC: 1 (A)
2.	0	Total Number of Dominant Species Across All Strata: 1 (B)
3	0	Percent of Dominant Species
4	•	That Are OBL, FACW, or FAC: 100 (A/B)
	0 = Total Cover	
Continue/Charle Charles (Dict size, 20 ft	0 = Total Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 30 ft) 1. None	0	Total % Cover of: Multiply by:
	0	OBL species x 1 = 0.0
	0	· —
4 5.	0	FAC species $x_3 = 0.0$
J	0 = Total Cover	FACU species x 4 = 0.0
Herb Stratum (Plot size: 6 ft)	- Total Gover	UPL species $x_5 = 0.0$
1. Lolium perenne	60 FAC	Column Totals: 0 (A) 0 (B)
2.		Prevalence Index = B/A = 0.0
3.		
4.		Hydrophytic Vegetation Indicators:
5.		1 - Rapid Test for Hydrophytic Vegetation
6.		☑ 2 - Dominance Test is >50%
7.		3 - Prevalence Index is ≤3.01
8.		4 - Morphological Adaptations ¹ (Provide supporting
9.		data in Remarks or on a separate sheet)
10.		5 - Wetland Non-Vascular Plants ¹
11.		☑ Problematic Hydrophytic Vegetation¹ (Explain)
	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)		be present, unless disturbed or problematic.
1. NONE		
2.		. Under a bridge
	0 = Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum		Present? Yes x No
Remarks:		
Vagatation is problematic. Agricultural site.	consisting of 50-80% Lolium perenne and man	aged for managulture
vegetation is problematic. Agricultural site of	consisting of 50-80% Londin perenne and man	aged for monoculture

SOIL Sampling Point: SP23 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 0-6 10YR3/2 **GrSiCL** 5 С M/PL 6-8 10YR3/2 **GrSiCL** 95 10YR4/4 2%OR **GrCL** 8-12 10YR2/2 100 С GrC 13-22 10YR3/1 85 10YR5/4 15 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Applicant/Ourser Normal Stockey State R. Sampling Point SP24 State R. Sampling Point SP24 State R. Sampling Point Sp24 State R. State R. Sampling Point Sp24 State R. Sta	Project/Site: Burkhartt	City/County:	Lebanon/Linn		Sampling Date:	8/16/17	
Landom (nilislope, terrace, etc.): iteraces Local relef (concave: convex. none): Inotes Subregion (LRR): Lat: 44.548583 Long: 122.288689 Datum: part of the street of th	-		State: OR S		0.004		
Lat: 44.54883 Long: 122.280880 Datum: 0_Nem_herecan_fels_JARN (SP_het]	Investigator(s): Allen Martin	Section, T	ownship, Range: S	Section 10, T1	2S, R02W		
Soil Map Unit Name: Coourg altry clay-loser Coourg altry clay-lose	Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, c	convex, none	e): none	Slope	e (%): 0
Are climatic / hydrologic conditions on the site typical for this time of year? Yes		Lat: 44.5485	83 Long: -	122.926069	Datum:	D_North_America	an_1983_HARN (SP, Int ft)
Are Vegetation	Soil Map Unit Name: Coburg silty clay loam			NWI	classification:	upl	
Are Vegelation x , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrology Present?							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present?			-				
Hydrophylic Vegetation Present?	Are Vegetation x , Soil Z , or Hydrolo	gy <u> </u>	ally problematic?	(If n	eeded, explain a	iny answers in F	Remarks.)
Hydrophylic Vegetation Present?	SUMMARY OF FINDINGS - Attach sit	te man sho	wing sampling	noint loc	ations trans	ects impor	tant features, etc.
VEGETATION - Use scientific names of plants. Dominant Indicator Species Status Dominant Species Status Species St		No		point ioo	ationo, tranc		
VEGETATION - Use scientific names of plants. Dominant Indicator Species Statum (Plot size: 30 ft 1, None 0 1 1, None 0 1, None	· · · · · · · · · · · · · · · · · · ·		Is the Sampled A	Area within	a Wetland?	Yes	No _ <u>x</u>
VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft) Absolute % Cover Species? Status Species Status (Plot size: 30 ft) Dominant Species Dominant Species Species Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Total N		NU <u>*</u>					
Absolute Species Saluts	Remarks:						
Absolute Species Saluts							
Absolute Species Saluts							
Number of Dominant Species Number of Domi	VEGETATION – Use scientific names	of plants.					
1. None				ulcatoi	Dominance Tes	t worksheet:	
2			Species? S				1 (A)
3.	· · · -						(A)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)		0					1 (B)
Sapling/Shrub Stratum (Plot size: 30 ft)	3	0			Percent of Domi	nant Species	` '
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = 0.0 OBL species x 2 = 0.0 FACW species x 3 = 0.0 FACW species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL speci	т.	_			That Are OBL, F	ACW, or FAC:	100 (A/B)
Total % Cover of: Multiply by:		0	= Total Cover				
2.	Sapling/Shrub Stratum (Plot size: 30 ft)				Prevalence Inde	ex worksheet:	
3.	1. None	0			Total % Cover o	f: Multip	ly by:
4.					OBL species	x 1=	0.0
Herb Stratum (Plot size: 6 ft)					FACW species	x 2=	0.0
Herb Stratum (Plot size: 6 ft)	_	- 			FAC species	x 3=	0.0
Herb Stratum (Plot size: 6ft) 1. Lolium perenne 60	5		- Total Cayor		•	x 4=	0.0
1. Lolium perenne 2.	Horb Stratum (Plot size: 6 ft)	-	_ = Total Cover		UPL species	x 5=	0.0
2.		60	FAC	C	Column Totals:	0 (A)	0 (B)
3.	· · · · · · · · · · · · · · · · · · ·				Prevalence Inde	x = B/A =	0.0
5.	3.						
6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size: 12 ft) 1. NONE 2. Provalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants¹ 7 Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 8 Hydrophytic Vegetation Present? Yes x No Remarks:	4				Hydrophytic Ve	getation Indica	ntors:
7.	5				1 - Rapid Tes	st for Hydrophyt	ic Vegetation
8.	6	_					
9		_					
10		<u> </u>			4 - Morpholo	gical Adaptation arks or on a sen	s¹ (Provide supporting larate sheet)
11. Problematic Hydrophytic Vegetation¹ (Explain) 11. One 12. Hydrophytic Wegetation (Plot size: 12 ft) 1. NONE 2. Hydrophytic Vegetation Present? Yes x No Remarks:				=== 7			•
Woody Vine Stratum (Plot size: 12 ft) 1. NONE 2.	4.4				-		
Woody Vine Stratum (Plot size: 12 ft) 1. NONE 2. Hydrophytic Vegetation Present? Yes × No Remarks:			= Total Cover				
1. NONE 2. Hydrophytic Vegetation Present? Yes x No Remarks:	Woody Vine Stratum (Plot size: 12 ft)	-					
% Bare Ground in Herb Stratum The stratum and							
% Bare Ground in Herb Stratum = Total Cover Vegetation Present? Yes × No Remarks:	2.				l le celone collecté e		
% Bare Ground in Herb Stratum Present? Yes x No Remarks:			= Total Cover				
	% Bare Ground in Herb Stratum				-	Yes x	No
Vegetation is problematic. Agricultural site consisting of 50-80% Lolium perenne and managed for monoculture	Remarks:						
Vegetation is problematic. Agricultural site consisting of 50-80% Lolium perenne and managed for monoculture							
	Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne	e and manage	d for monoculture		

SOIL Sampling Point: SP24 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features Color (moist) % Color (moist) % Loc² Remarks (inches) Type¹ Texture 2 С 0-10 10YR2/2 98 10YR4/4 M **GrSiCL** 10YR2/2 100 **GrCL** 10-18 90 10 С **GrCL** 18-22 10YR2/2 10YR5/4 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7)

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/16/17
Applicant/Owner: Norman Steckley		State: OR Sa	Sampling Point: SP25
Investigator(s): Allen Martin	Section, T	ownship, Range: S	Section 10, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, co	convex, none): none Slope (%): 0
Subregion (LRR): A	Lat: 44.5485	83 Long: -1	122.926069 Datum: D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Coburg silty clay loam			NWI classification: upl
Are climatic / hydrologic conditions on the site typ			
Are Vegetation , Soil , or Hydrolo			Are "Normal Circumstances" present? Yes x No
Are Vegetation x , Soil , or Hydrolog	gy 🔲 natur	ally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	a man sho	wing sampling r	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No		•
Hydric Soil Present? Yes ×	No	Is the Sampled A	rea within a Wetland? Yes x No No
Wetland Hydrology Present? Yes x	NU		
Remarks:			
VEGETATION – Use scientific names	of plants.		
	Absolute		dicator Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover	Species? S	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
1. None	0 0		That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
2. 3.	0		Species Across All Strata: 1 (B)
34	0		Percent of Dominant Species
			That Are OBL, FACW, or FAC: 100 (A/B)
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)			Prevalence Index worksheet:
1. None	0		Total % Cover of: Multiply by:
2	0		OBL species x 1 = 0.0
3.			FACW species x 2= 0.0
4			FAC species $x_3 = 0.0$
5	0	= Total Cover	FACU species x 4 = 0.0
Herb Stratum (Plot size: 6 ft)	-	_ = Total Cover	UPL species $x_5 = 0.0$
1. Lolium perenne	60	FAC	Column Totals: 0 (A) 0 (B)
2.	-		Prevalence Index = B/A = 0.0
3.			
4			Hydrophytic Vegetation Indicators:
5			1 - Rapid Test for Hydrophytic Vegetation
6			2 - Dominance Test is >50%
7.			3 - Prevalence Index is ≤3.0¹
9.			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
10.			5 - Wetland Non-Vascular Plants ¹
11.			Problematic Hydrophytic Vegetation¹ (Explain)
	60	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)		_	be present, unless disturbed or problematic.
1. NONE			
2			Hydrophytic
	0	_ = Total Cover	Vegetation
% Bare Ground in Herb Stratum			Present? Yes x No
Remarks:			
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne	and managed for monoculture

SOIL Sampling Point: SP25 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) Loc² (inches) % Type¹ Texture Remarks 5 С 0-8 10YR3/2 95 10YR4/4 M **GrSiCL** 2%OR С 5 8-14 10YR2/2 95 10YR3/4 **GrSiCL** M 14-22 80 20 С 10YR4/1 10YR5/4 M **GrCL** ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \square ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Burkhartt	City/County: Lebanon/Linn	Sampling Date: 8/16/17
Applicant/Owner: Norman Steckley		ing Point: SP26
Investigator(s): Allen Martin	Section, Township, Range: Section	n 10, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, conve	x, none): none Slope (%): 0
Subregion (LRR): A	Lat: 44.548583 Long: -122.93	Datum: D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam		NWI classification: upl
Are climatic / hydrologic conditions on the site typ	<u>—</u>	
		"Normal Circumstances" present? Yes x No
Are Vegetation x , Soil , or Hydrolog	gy <u> </u>	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	te man showing sampling poir	it locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ×	No	
Hydric Soil Present? Yes ×		vithin a Wetland? Yes × No
Wetland Hydrology Present? Yes ×	NO	
Remarks: Plot located on north end of the	field on southern wetland bou	ndary
1 lot located oil flortif cha of f	neid on southern wettand bou	ndary.
VEGETATION – Use scientific names	of plants.	
	Absolute Dominant Indicate	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	% Cover Species? Status	ranibal of Ballinant apacies
1. None	0 0	That Are OBL, FACW, or FAC: 1 (A)
2.	0	Total Number of Dominant Species Across All Strata: 1 (B)
3	0	Percent of Dominant Species
T		That Are OBL, FACW, or FAC: 100 (A/B)
	0 = Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)		Prevalence Index worksheet:
1. None	0	Total % Cover of: Multiply by:
2		OBL species x 1= 0.0
3		FACW species x 2 = 0.0
4		FAC species x 3 = 0.0
5	0 = Total Cover	FACU species x 4 = 0.0
Herb Stratum (Plot size: 6 ft)	0 = Total Cover	UPL species x 5= 0.0
1 Lolium perenne	60 FAC	Column Totals: 0 (A) 0 (B)
2.		Prevalence Index = B/A = 0.0
3.		
4.		Hydrophytic Vegetation Indicators:
5.		1 - Rapid Test for Hydrophytic Vegetation
6		2 - Dominance Test is >50%
7		☐ 3 - Prevalence Index is ≤3.01
8		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9.		5 - Wetland Non-Vascular Plants ¹
10.		Problematic Hydrophytic Vegetation¹ (Explain)
11	60 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)		be present, unless disturbed or problematic.
1. NONE		
2.		
	0 = Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum		Present? Yes x No
Remarks:		
Vegetation is problematic. Agricultural site	e consisting of 50-80% Lolium perenne and r	nanaged for monoculture

SOIL Sampling Point: SP26 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features % Color (moist) Color (moist) % Loc² (inches) Type¹ Texture Remarks 100 0-7 10YR3/2 SiCL 7-10 5 С 10YR3/2 M/PL SiCL 95 10YR4/4 2% OR 5 С 10-19 10YR3/2 95 10YR4/4 CL M 20-25 25 С С 10YR3/1 75 10YR4/4 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \square ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: CL **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn		Sampling Date:	8/16/17	
Applicant/Owner: Norman Steckley		State: OR S	Sampling Po	0.00		
Investigator(s): Allen Martin	Section, T	ownship, Range: S	Section 10, T	12S, R02W		
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, c	convex, non	e): none	Slope	e (%): 0
Subregion (LRR): A	Lat: 44.54858	B3 Long: -1	122.926069	Datum:	D_North_America	an_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam			NWI	classification:	upl	
Are climatic / hydrologic conditions on the site type						
Are Vegetation , Soil , or Hydrolo		-		nal Circumstance		
Are Vegetation x , Soil , or Hydrolog	gy 🔲 natur	ally problematic?	(If r	needed, explain a	iny answers in F	Remarks.)
SUMMARY OF FINDINGS – Attach sit	a man sho	wina samnlina i	noint loc	ations trans	acts imnor	tant features etc
Hydrophytic Vegetation Present? Yes ×	No		ponit ioc	ationo, tranc		
Hydric Soil Present? Yes	No ×	Is the Sampled A	Area within	a Wetland?	Yes	No _x
Wetland Hydrology Present? Yes	NO x					
Remarks:						
VEGETATION – Use scientific names	of plants.					
	Absolute		dicator	Dominance Tes	t worksheet:	
Tree Stratum (Plot size: 30 ft)	% Cover	Species? S	Status	Number of Domi		1 (A)
1. None	0 0			That Are OBL, F Total Number of		1 (A)
2. 3.	0			Species Across		1 (B)
3	0			Percent of Domi		
	-			That Are OBL, F	ACW, or FAC:	100 (A/B)
	0	= Total Cover				
Sapling/Shrub Stratum (Plot size: 30 ft)				Prevalence Inde	ex worksheet:	
1. None	0			Total % Cover of	f: Multip	oly by:
2				OBL species	x 1=	0.0
3.				FACW species	x 2=	
4	0		==	FAC species	x 3=	
5	0	= Total Cover		FACU species	x 4=	0.0
Herb Stratum (Plot size: 6 ft)	<u> </u>			UPL species	x 5=	
1. Lolium perenne	60	FAC	С	Column Totals:	0 (A)	0 (B)
2.	-			Prevalence Inde	ex = B/A =	0.0
3.						
4				Hydrophytic Ve	getation Indica	ators:
5	<u> </u>				st for Hydrophyt	•
6.	<u> </u>				ce Test is >50%	
7.			== -		ce Index is ≤3.01	
9.				data in Rema	arks or on a sep	ns ¹ (Provide supporting arate sheet)
10.					Non-Vascular Pl	· ·
11.				对 Problematic □	Hydrophytic Ve	getation¹ (Explain)
	60	= Total Cover		¹ Indicators of hy	dric soil and we	tland hydrology must
Woody Vine Stratum (Plot size: 12 ft)				be present, unle	ss disturbed or	problematic.
1. NONE						
2				Hydrophytic		
	0	_ = Total Cover		Vegetation		
% Bare Ground in Herb Stratum				Present?	Yes x	No
Remarks:						
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne	e and manage	ed for monoculture		

SOIL Sampling Point: SP27 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features % Color (moist) Color (moist) Loc² (inches) % Type¹ Texture Remarks 100 0-10 10YR3/2 SiCL 100 10-24 10YR2/2 SiCL/CL ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) Д. Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

-	City/County: Lebanon/Linn	Sampling Date: 8/16/17
Applicant/Owner: Norman Steckley	State: OR Sampling	
Investigator(s): Allen Martin), T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Local relief (concave, convex, r	
	Lat: 44.548583 Long: -122.92600	
Soil Map Unit Name: Conser silty clay loam		WI classification: upl
Are climatic / hydrologic conditions on the site typic		
Are Vegetation x , Soil ☐ , or Hydrology Are Vegetation x , Soil ☐ , or Hydrology		ormal Circumstances" present? Yes x No
Are vegetation, Suit, or rigurologi	y II naturally problematic:	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site	e map showing sampling point I	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No	
	No Is the Sampled Area with	nin a Wetland? Yes X No
	No	
Remarks:		
VECTATION Has a significant and a	* 1	
VEGETATION – Use scientific names	•	Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	
1. None	0 Species: Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
2		Total Number of Dominant
3.		Species Across All Strata: 1 (B)
4.	0	Percent of Dominant Species
		That Are OBL, FACW, or FAC: 100 (A/B)
	0 = Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)		Prevalence Index worksheet:
1. None	0	Total % Cover of: Multiply by:
2		OBL species x 1 = 0.0
3		FACW species x 2 = 0.0
4		FAC species x ₃ = <u>0.0</u>
5	0 = Total Cover	FACU species x 4 =0.0
Light Charles (Diet size) 6ft	0 = Total Cover	UPL species x 5= 0.0
Herb Stratum (Plot size: 6 ft) 1. Lolium perenne	60 FAC	Column Totals: 0 (A) 0 (B)
2.	30	Prevalence Index = B/A = 0.0
3.		
4.		Hydrophytic Vegetation Indicators:
5.		☐ 1 - Rapid Test for Hydrophytic Vegetation
6.		☑ 2 - Dominance Test is >50%
7		☐ 3 - Prevalence Index is ≤3.01
8		4 - Morphological Adaptations¹ (Provide supporting
9		data in Remarks of our a separate sheet)
10		
11		
Manda Vina Chrotum (Diataina 12 ft	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: 12 ft) 1. NONE		be present, unless distarbed of presionade.
2.		
2.	0 = Total Cover	Hydrophytic
% Bare Ground in Herb Stratum		Vegetation Present? Yes × No
70 Balo 3.33.13 13.13 C	_	1163611.
Remarks:		
Vacatatian is problematic. Agricultural site.	consisting of 50-80% Lolium perenne and man	J £ manaaultura
vegetation is problematic. Agricultural site of	consisting of 50-80% Lonum perenne and man	laged for monoculture

SOIL Sampling Point: SP28 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 100 0-5 10YR3/2 SiCL 5 С 5-10 10YR3/2 M/PL SiCL 95 10YR4/4 2%OR 10-22 90 10 С 10YR2/2 10YR5/3 CL M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \square ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: CL **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn		Sampling Date:	8/16/17	
Applicant/Owner: Norman Steckley		State: OR S	 Sampling Poi	0.000		
Investigator(s): Allen Martin	Section, T	ownship, Range:	Section 10, T1	2S, R02W		
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, c	convex, none	e): none	Slope	e (%): 0
Subregion (LRR): A	Lat: 44.5485	B3 Long: -	122.926069	Datum:	D_North_America	an_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam			NWI o	classification:	upl	
Are climatic / hydrologic conditions on the site type						
Are Vegetation , Soil , or Hydrolo		-		al Circumstance		
Are Vegetation $\underline{\times}$, Soil $\underline{\square}$, or Hydrolo	gy 🔲 natur	ally problematic?	(If ne	eeded, explain a	iny answers in F	Remarks.)
SUMMARY OF FINDINGS – Attach sit	a man sho	wing sampling	noint loc:	atione trans	ects impor	tant foatures etc
Hydrophytic Vegetation Present? Yes ×	No					
Hydric Soil Present? Yes	No ×	Is the Sampled A	Area within a	Wetland?	Yes	No _x
Wetland Hydrology Present? Yes ×	NO					
Remarks: Plot located on southern bou	ndory of no	orth danraggian	in unland	1		
r lot located on southern bou	nuary or no	orui depression	iii upiaii	1.		
VEGETATION – Use scientific names	of plants.					
	Absolute		ulcatoi	Dominance Tes	st worksheet:	
Tree Stratum (Plot size: 30 ft)	% Cover	Species? S		Number of Domi		1 (A)
1. None	0 0			That Are OBL, F	,	1 (A)
2. 3.	0			Total Number of Species Across		1 (B)
3	0			ercent of Domi	nant Species	` ,
T	-			That Are OBL, F	ACW, or FAC:	100 (A/B)
	0	= Total Cover				
Sapling/Shrub Stratum (Plot size: 30 ft)		_		Prevalence Inde	ex worksheet:	
1. None	0			Total % Cover o	f: Multip	oly by:
2.				OBL species	x 1=	0.0
3.				FACW species	x 2=	0.0
4				FAC species	x 3=	0.0
5				FACU species	x 4=	0.0
	0	= Total Cover		JPL species	x 5=	0.0
Herb Stratum (Plot size: 6 ft) 1. Lolium perenne	60	J FAC		Column Totals:	0 (A)	0 (B)
2.	- 00			Prevalence Inde	y = R/Δ =	0.0
2	· -			revalence inde	- DIA -	0.0
4.	-			Hydrophytic Ve	getation Indica	ators:
5.				1 - Rapid Tes	st for Hydrophyt	ic Vegetation
6.				2 - Dominano	ce Test is >50%	,
7				3 - Prevalenc	ce Index is ≤3.0	1
8	<u> </u>			4 - Morpholo	gical Adaptation	ns ¹ (Provide supporting
9.				_ uala III Kelila	arks or on a sep Non-Vascular Pl	· ·
10.	<u> </u>			_		getation¹ (Explain)
11		Tatal Causa				
Woody Vine Stratum (Plot size: 12 ft)	60	= Total Cover		Indicators of hydee present, unle		tland hydrology must problematic
Woody Vine Stratum (Plot size: 12 ft) 1. NONE				, , , , , , , , , , , , , , , , , , ,	00 0.000 0.	p. 02.0au
2.	-					
	0	= Total Cover		Hydrophytic		
% Bare Ground in Herb Stratum				Vegetation Present?	Yes x	No
Remarks:						
Vegetation is problematic. Agricultural site	consisting of 50)-80% Lalium perenne	and managed	for monoculture		
resettation is problematic. Agricultural site	Consisting of 30	, 5070 Donain percilie	and managet	. 101 monocultule		

SOIL Sampling Point: SP29 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (inches) Color (moist) % Color (moist) % Loc² Remarks Type¹ Texture 100 0-9 10YR3/2 SiCL 5 С 10YR2/2 M/PL SiCL 9-12.5 95 10YR4/4 90 10 С 12.5-20 10YR2/2 10YR5/3 CL M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: CL **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Burkhartt Applicant/Owner: Norman Steckley Investigator(s): Allen Martin Landform (hillslope, terrace, etc.): terrace	City/County: Lebanon/Linn State: OR Sampling Section, Township, Range: Section 10 Local relief (concave, convex, r	, T12S, R02W
	Lat: 44.548583 Long: -122.92606	
Soil Map Unit Name: Conser silty clay loam		WI classification: upl
Are climatic / hydrologic conditions on the site typic		
		ormal Circumstances" present? Yes x No
Are Vegetation x , Soil , or Hydrolog	y naturally problematic? (If needed, explain any answers in Remarks.)
Hydrophytic Vegetation Present? Yes × Hydric Soil Present? Yes	No Is the Sampled Area with	ocations, transects, important features, etc. in a Wetland? Yes No _x
	No <u>×</u>	
Plot located in upland on sour	th end of broad depression that	extends to north end of study area.
VEGETATION – Use scientific names	of plants.	
	Absolute Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30 ft</u>) 1. <u>None</u>	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant Species Across All Strata: 1 (B)
3	0	Percent of Dominant Species
4		That Are OBL, FACW, or FAC: 100 (A/B)
	0 = Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)		Prevalence Index worksheet:
1. None	0	Total % Cover of: Multiply by:
2.	0	OBL species x 1 = 0.0
3.		FACW species $x_2 = 0.0$
4.		FAC species $x_3 = 0.0$
5	0	FACU species x 4 = 0.0
	0 = Total Cover	UPL species x 5 = 0.0
Herb Stratum (Plot size: 6 ft)		Column Totals: 0 (A) 0 (B)
1. Lolium perenne	60 FAC	Providence Index D/A
2.		Prevalence Index = B/A = 0.0
3 4.		Hydrophytic Vegetation Indicators:
5.		☐ 1 - Rapid Test for Hydrophytic Vegetation
6.		✓ 2 - Dominance Test is >50%
7.		☐ 3 - Prevalence Index is ≤3.01
8.		4 - Morphological Adaptations (Provide supporting
9.		data in Remarks or on a separate sheet)
10.		5 - Wetland Non-Vascular Plants ¹
11		Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 12 ft)	60 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. NONE		
2		Hydrophytic
% Bare Ground in Herb Stratum	= Total Cover	Vegetation Present? Yes x No
Remarks:		
Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne and man	aged for monoculture

SOIL Sampling Point: SP30 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Loc² Color (moist) % Color (moist) % Texture Remarks (inches) Type¹ 0-4 100 SiCL 10YR3/2 4-9 2 С PL10YR3/2 98 10YR4/4 SiCL 1%OR 9-12 100 SiCL 10YR2/2 12-22 10YR3/2 80 10YR5/4 20 С CL M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Red Parent Material (TF2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): Type: CL **Hydric Soil Present?** Depth (inches): begins 12"bg

Depth (money).	
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1)	□ 4A, and 4B) □ Drainage Patterns (B10) □ Dry-Season Water Table (C2) □ Saturation Visible on Aerial Imagery (C9)
Field Observations: Surface Water Present? Yes No Depth (inches): Water Table Present? Yes Depth (inches): Saturation Present? Yes Depth (inches): Vincludes capillary fringe) Yes Depth (inches):	Netland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:
Remarks:	

Applicant/Owner: Norman Steckley Investigator(s): Allen Martin Landform (hillslope, terrace, etc.): terrace Subregion (LRR): A Soil Map Unit Name: Conser silty clay loam Are climatic / hydrologic conditions on the site typin Are Vegetation , Soil , or Hydrologic Are Vegetation x , Soil , or Hydrologic SUMMARY OF FINDINGS – Attach site Hydrophytic Vegetation Present? Yes x Hydric Soil Present? Yes x Wetland Hydrology Present? Yes x Remarks:	Local relief (concave, convex, r Lat: 44.548583 Long: -122.9260 N cal for this time of year? Yes	none): none Slope (%): 0 69 Datum: D_North_American_1983_HARN (SP, Int ft) WI classification: upl (If no, explain in Remarks.) ormal Circumstances" present? Yes x No (If needed, explain any answers in Remarks.) ocations, transects, important features, etc.
VEGETATION – Use scientific names	of plants.	
Tree Stratum (Plot size: 30 ft)) 1. None 2. 3. 4.	Absolute Dominant Species? Status O Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: [B] [B]
Sapling/Shrub Stratum (Plot size: 30 ft) 1. None 2. 3. 4. 5.	0 0	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = 0.0 FACW species x 2 = 0.0 FAC species x 3 = 0.0 FACU species x 4 = 0.0 UPL species x 5 = 0.0
Herb Stratum (Plot size: 6 ft) 1. Lolium perenne 2 3.	60 FAC	Column Totals: 0 (A) 0 (B) Prevalence Index = B/A = 0.0
4		Hydrophytic Vegetation Indicators: □ 1 - Rapid Test for Hydrophytic Vegetation □ 2 - Dominance Test is >50% □ 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) □ 5 - Wetland Non-Vascular Plants¹ □ Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 12 ft) 1. NONE 2. % Bare Ground in Herb Stratum	60 = Total Cover 0 = Total Cover	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes × No
Remarks: Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne and man	aged for monoculture

SOIL Sampling Point: SP31 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) Loc² % Type¹ Texture Remarks 2 С 0-5 10YR3/2 98 10YR4/4 M SiCL 5 С 5-10 10YR3/2 10YR4/4 M/PL SiCL 95 2%OR 10-14 С SiCL 10YR3/2 90 10YR5/3 10 M 14-22 С 10YR3/2 10YR5/3 10 M CL ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) П Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? ☐ No Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Project/Site: Burkhartt	City/County: Le	banon/Linn	Sampling Date: 8/16/17
Applicant/Owner: Norman Steckley		ate: OR Sampling	
Investigator(s): Allen Martin	Section, Town	nship, Range: Section 10	, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Local	relief (concave, convex, r	none): none Slope (%): 0
Subregion (LRR): A	Lat: 44.548583	Long: -122.92606	D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam		N ¹	WI classification: upl
Are climatic / hydrologic conditions on the site typ			
Are Vegetation , Soil , or Hydrolog			ormal Circumstances" present? Yes x No
Are Vegetation x , Soil Z , or Hydrolog	gy 🔲 naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	e man showir	ng sampling point l	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes ×	No	ig camping point i	
Hydric Soil Present? Yes		the Sampled Area with	in a Wetland? Yes No _x
Wetland Hydrology Present? Yes	NO ×		
Remarks: Plot designed to located east	edge of broad	denression on no	rth end of study area
1 for designed to focated east	cuge of broat	a depression on nor	thi cha of study area.
VEGETATION – Use scientific names	of plants.		
	Absolute	Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft)	% Cover	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
1. None	0		That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant
2.	0		Species Across All Strata: 1 (B)
3	0		Percent of Dominant Species
			That Are OBL, FACW, or FAC: 100 (A/B)
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)			Prevalence Index worksheet:
1. None	0		Total % Cover of: Multiply by:
2	0		OBL species x 1=0.0
3	0		FACW species x 2= 0.0
4			FAC species $x_3 = 0.0$
5	0	- Total Cause	FACU species x 4 = 0.0
Herb Stratum (Plot size: 6 ft)		= Total Cover	UPL species x 5= 0.0
1 Lolium perenne	60	FAC	Column Totals: 0 (A) 0 (B)
2.			Prevalence Index = B/A = 0.0
3.			
4.			Hydrophytic Vegetation Indicators:
5.			1 - Rapid Test for Hydrophytic Vegetation
6			☑ 2 - Dominance Test is >50%
7			☐ 3 - Prevalence Index is ≤3.01
8			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9.			5 - Wetland Non-Vascular Plants ¹
10 11.			Problematic Hydrophytic Vegetation¹ (Explain)
11		= Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)	<u> </u>	Total Gover	be present, unless disturbed or problematic.
1. NONE			
2.			
		= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum	<u></u>		Present? Yes x No
Remarks:			
Vegetation is problematic. Agricultural site	consisting of 50-80	% Lolium perenne and man	aged for monoculture

SOIL Sampling Point: SP32 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features % (inches) Color (moist) Color (moist) % Loc² Type¹ Texture Remarks 0-6 10YR3/2 100 SiCL CL PL 6-8 10YR3/2 10YR4/4 SiCL 99 1%OR SiCL 8-17 10YR3/2 100 17-24 10YR2/2 100 CL ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? ☐ No Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Less than 2%OR

Project/Site: Burkhartt	City/County:	Lebanon/Linn		Sampling Date:	8/16/17	
Applicant/Owner: Norman Steckley			ampling Po	0.000		
Investigator(s): Allen Martin	Section, T	ownship, Range: S	Section 10, T1	2S, R02W		
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, c	convex, none	e): none	Slope	e (%): 0
Subregion (LRR): A	Lat: 44.5485	83 Long: <u>-</u> 1	122.926069	Datum:	D_North_Americ	an_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam					upl	
Are climatic / hydrologic conditions on the site typ						
Are Vegetation , Soil , or Hydrolo		-		al Circumstance		
Are Vegetation \underline{x} , Soil $\underline{\square}$, or Hydrological	gy 🔲 natui	ally problematic?	(If n	eeded, explain a	iny answers in F	Remarks.)
SUMMARY OF FINDINGS – Attach sit	e man sho	wing sampling i	noint loc	ations trans	ects impor	tant features etc
Hydrophytic Vegetation Present? Yes x	No					·
Hydric Soil Present? Westland Hydrology Present?	No	Is the Sampled A	rea within	a Wetland?	Yes x	No
Wetland Hydrology Present? Yes x	NU					
Plot located inside broad low	_lving area	on north end o	of etudy a	rea		
1 lot located filside broad low	-iyilig arca	i on norm cha o	or study c	пса		
VEGETATION – Use scientific names	of plants.					
Tree Ottobare (Diet siese 20 ft	Absolute		ulcatoi	Dominance Tes		
Tree Stratum (Plot size: 30 ft) 1. None	% Cover	Species? S		Number of Domi That Are OBL, F		1 (A)
•	0			Total Number of	,	(7.1)
3.	0			Species Across		1 (B)
4.	0			Percent of Domi		100 (A/D)
				That Are OBL, F	ACW, or FAC:	100 (A/B)
	0	= Total Cover				
Sapling/Shrub Stratum (Plot size: 30 ft)				Prevalence Ind		
1. None				Total % Cover o		oly by:
2.				OBL species	x 1=	
3.	_			FACW species		
4	-			FAC species	x 3=	
5	0	= Total Cover		FACU species	x 4=	0.0
Herb Stratum (Plot size: 6 ft)				UPL species	x 5=	
1. Lolium perenne	60	FAC		Column Totals:	0 (A)	0 (B)
2.				Prevalence Inde	ex = B/A =	0.0
3.						
4				Hydrophytic Ve	egetation Indica	ators:
5					st for Hydrophyt	-
6.					ce Test is >50%	
7.	<u> </u>		==		ce Index is ≤3.0	
9.				data in Rema	gicai Adaptatior arks or on a sep	ns ¹ (Provide supporting parate sheet)
10.					Non-Vascular P	
11.				Problematic	Hydrophytic Ve	getation¹ (Explain)
	60	= Total Cover		¹ Indicators of hy	dric soil and we	tland hydrology must
Woody Vine Stratum (Plot size: 12 ft)				be present, unle	ss disturbed or	problematic.
1. NONE						
2				Hydrophytic		
	0	= Total Cover	,	Vegetation		
% Bare Ground in Herb Stratum				Present?	Yes x	No
Domonico						
Remarks:						
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne	and manage	d for monoculture		

SOIL Sampling Point: SP33 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Loc² Type¹ Texture Remarks 0-3 10YR3/2 M SiCL 5 С 3-10 10YR3/2 M/PL 95 10YR4/4 SiCL 2%OR 10-14 5 С 10YR2/2 95 10YR4/4 SiCL M 14-22 20 С 10YR3/2 80 10YR5/4 M SiCL ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) П Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? ☐ No Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Applicant/Owner: Norman Steckley Investigator(s): Allen Martin Landform (hillslope, terrace, etc.): terrace Subregion (LRR): A Soil Map Unit Name: Conser silty clay loam Are climatic / hydrologic conditions on the site typic Are Vegetation , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic , or Hydrologic , or Hydrologic , Soil , or Hydrologic , or	Local relief (concave, convex, r Lat: 44.548583 Long: -122.9260 N cal for this time of year? Yes Z No y significantly disturbed? Are "No y naturally problematic?	0, T12S, R02W none): none Slope (%): 0 Datum: D_North_American_1983_HARN (SP, Int ft) WI classification: upl
Hydric Soil Present? Yes	No x Is the Sampled Area with	nin a Wetland? Yes No _x
	ow-lying area on east side of stu	ady area at north end.
VEGETATION – Use scientific names	of plants.	
Tree Stratum (Plot size: 30 ft)) 1. None 2. 3. 4.	Absolute Dominant Indicator Species? Status 0 Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Across All Strata: 1 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size: 30 ft) 1. None 2. 3. 4. 5. Herb Stratum (Plot size: 6 ft) 1. Lolium perenne	0 = Total Cover 0	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = 0.0 FACW species x 2 = 0.0 FAC species x 3 = 0.0 FACU species x 4 = 0.0 UPL species x 5 = 0.0 Column Totals: 0 (A) 0
2		Prevalence Index = B/A = 0.0
4 5.		Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
6.		2 - Dominance Test is >50%
7		3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 12 ft) 1. NONE	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2 % Bare Ground in Herb Stratum	0 = Total Cover	Hydrophytic Vegetation Present? Yes <u>×</u> No
Remarks:		
Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne and man	aged for monoculture

SOIL Sampling Point: SP34 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Depth Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 100 0-13 10YR2/2 **GrSiCL** 5 С 10YR3/2 SiCL 13-16 95 10YR5/4 M 20 С M **GrSiCL** 16-20 10YR4/2 80 10YR5/4 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/16/17
Applicant/Owner: Norman Steckley		State: OR Sa	mpling Point: SP35
Investigator(s): Allen Martin	Section, T	ownship, Range: Se	ction 10, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, co	nvex, none): none Slope (%): 0
Subregion (LRR): A	Lat: 44.5485	83 Long: -12	2.926069 Datum: D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam			NWI classification: upl
Are climatic / hydrologic conditions on the site type			
Are Vegetation , Soil , or Hydrolo			Are "Normal Circumstances" present? Yes x No
Are Vegetation x , Soil , or Hydrolo	gy 🔲 natur	ally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach si	ta man sha	wing sampling n	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No		
Hydric Soil Present? Yes ×	No	Is the Sampled Are	ea within a Wetland? Yes X No No
Wetland Hydrology Present? Yes ×	NO		
Plot lies within depression at	t north and	of study area	
i for hes within depression a	i iioitii ciid	of study area.	
VEGETATION – Use scientific names	of plants.		
Trace Otractions (Diet sines 20 ft	Absolute		cator Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft) 1. None	% Cover	Species? Sta	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
•			Total Number of Dominant
3.	0		Species Across All Strata: 1 (B)
4.	0		Percent of Dominant Species
			That Are OBL, FACW, or FAC: 100 (A/B)
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)			Prevalence Index worksheet:
1. None			
2			OBL species x 1= 0.0
3.			FACW species x 2= 0.0
4.			FAC species x 3 = 0.0
5	0	= Total Cover	FACU species x 4 = 0.0
Herb Stratum (Plot size: 6 ft)		= Total Cover	UPL species $x_5 = 0.0$
1. Lolium perenne	60	FAC	Column Totals: 0 (A) 0 (B)
2.	_		Prevalence Index = B/A = 0.0
3.			
4			Hydrophytic Vegetation Indicators:
5			1 - Rapid Test for Hydrophytic Vegetation
6			2 - Dominance Test is >50%
7	_		3 - Prevalence Index is ≤3.0¹
8.			4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9			5 - Wetland Non-Vascular Plants ¹
10 11.			Problematic Hydrophytic Vegetation¹ (Explain)
11.	60	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)		_	be present, unless disturbed or problematic.
1. NONE	_		
2			Lindrambatio
	0	= Total Cover	Hydrophytic Vegetation
% Bare Ground in Herb Stratum			Present? Yes x No
Remarks:			
Vegetation is problematic. Agricultural site	e consisting of 50	0-80% Lolium perenne a	nd managed for monoculture

SOIL Sampling Point: SP35 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 0-6 10YR2/2 **GrSiCL** 5 С 6-10 10YR2/2 95 M/PL **GrSiCL** 2%OR 10YR4/4 10-22 80 20 С 10YR4/2 7.5YR5/6 **GrCL** M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \checkmark ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? ☐ No Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/16/17
Applicant/Owner: Norman Steckley			ampling Point: SP36
Investigator(s): Allen Martin	Section, T	ownship, Range: Se	ection 10, T12S, R02W
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, co	onvex, none): none Slope (%): 0
Subregion (LRR): A	Lat: 44.5485	83 Long: -1	22.926069 Datum: D_North_American_1983_HARN (SP, Int ft)
Soil Map Unit Name: Conser silty clay loam			NWI classification: upl
Are climatic / hydrologic conditions on the site typ			
Are Vegetation , Soil , or Hydrolo			Are "Normal Circumstances" present? Yes x No
Are Vegetation \underline{x} , Soil $\underline{\square}$, or Hydrolo	gy 🔲 natu	ally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach sit	te man sho	wing sampling p	point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes x	No		
Hydric Soil Present? Yes ×	No	Is the Sampled Ar	rea within a Wetland? Yes <u>×</u> No
Wetland Hydrology Present? Yes x	NO		
Remarks: Plot on east edge of northern	denreccion	1	
1 lot on east edge of northern	ucpicssioi	1.	
VEGETATION – Use scientific names	of plants.		
Trace Otractions (Diet alice) 20 ft	Absolute		licator Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30 ft) 1. None	% Cove	Species? St	tatus Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
•			Total Number of Dominant
3.	0		Species Across All Strata: 1 (B)
4.	0		Percent of Dominant Species
			That Are OBL, FACW, or FAC: 100 (A/B)
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 30 ft)			Prevalence Index worksheet:
1. None			Total % Cover of: Multiply by:
2.			OBL species x 1= 0.0
3.	_		FACW species x 2= 0.0
45.			FAC species x 3 = 0.0
5	0	= Total Cover	FACU species x 4 = 0.0
Herb Stratum (Plot size: 6 ft)			UPL species $x_5 = 0.0$
1. Lolium perenne	60	FAC	Column Totals: 0 (A) 0 (B)
2.			Prevalence Index = B/A = 0.0
3	_		
4.	_		Hydrophytic Vegetation Indicators:
5			1 - Rapid Test for Hydrophytic Vegetation
6			2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹
0			4 - Morphological Adaptations ¹ (Provide supporting
9.			data in Remarks or on a separate sheet)
10.			5 - Wetland Non-Vascular Plants ¹
11.			Problematic Hydrophytic Vegetation ¹ (Explain)
	60	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size: 12 ft)			be present, unless disturbed or problematic.
1. NONE			
2	0	Tat 10	Hydrophytic
9/ Para Cround in Harb Strature	-	= Total Cover	Vegetation
% Bare Ground in Herb Stratum			Present? Yes x No
Remarks:			
romano.			
) 000/ T I	
Vegetation is problematic. Agricultural site	e consisting of 5	J-80% Lolium perenne	and managed for monoculture

SOIL Sampling Point: SP36 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) Color (moist) % Loc² Remarks (inches) Type¹ Texture 0-12 10YR2/2 **GrSiCL** 15 С **GrCL** 12-24 10YR4/2 85 10YR5/4 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and \Box Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Applicant/Ourser: Normal Steedey Interestications: Martine Steedey Section Township, Range: Section 1718, R02W Super-Proceedings Super-Pr	Project/Site: Burkhartt	City/County:	Lebanon/Linn		Sampling Date:	8/16/17	
Landom (nilislope, terrace, etc.) iteraces Local relef (concave convex, none): none Subregion (LRR): Lat 44.586583 Long, 122.286689 Datum: NWI classification: NWI classific	-		State: OR S		0.00		
Lat: 44.54883 Long: 122.280880 Datum: 0_Nature Datum: 0_Na	Investigator(s): Allen Martin	Section, T	ownship, Range:	Section 10, T1	2S, R02W		
Soil Map Unit Name: Conser silly day learn	Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, c	convex, none	e): none	Slope	e (%): 0
Are climatic / hydrologic conditions on the site typical for this time of year? Yes		Lat: 44.5485	B3 Long: -	122.926069	Datum:	D_North_America	an_1983_HARN (SP, Int ft)
Are Vegetation	Soil Map Unit Name: Conser silty clay loam			NWI	classification:	upl	
Are Vegelation x , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc. Hydrology Present?							
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Hydrophylic Vegetation Present?			-				
Hydrophylic Vegetation Present?	Are Vegetation x , Soil Z , or Hydrolo	gy <u> </u>	ally problematic?	(If n	eeded, explain a	iny answers in F	Remarks.)
Hydrophylic Vegetation Present?	SUMMARY OF FINDINGS - Attach sit	to man sho	wing sampling	noint loc	atione trane	acts impor	tant foatures etc
VEGETATION - Use scientific names of plants. Dominant Indicator Species Status Dominant Species Status Species Species Status Species Species Status Species S		No		point iou	ationo, trano		
VEGETATION - Use scientific names of plants. Dominant Indicator Species Statum (Plot size: 30 ft 1, None 0 1 1, None 0 1, None	· · · · · · · · · · · · · · · · · · ·		Is the Sampled A	Area within a	a Wetland?	Yes	No _x
VEGETATION – Use scientific names of plants. Tree Stratum (Plot size: 30 ft) Absolute % Cover Species? Status Species Status (Plot size: 30 ft) Dominant Species Dominant Species Species Area SAI Stratus: 1 (A) Total Number of Dominant Species Area SAI Stratus: 1 (B) Provided Months of Dominant Species Area SAI Stratus: 1 (B) Provided Months of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species Area SAI Stratus: 1 (B) Provided Months of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Species Area SAI Stratus: 1 (B) Provided Months of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Species Area SAI Stratus: 1 (B) Provided Months of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Species Area SAI Stratus: 1 (B) Provided Months of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Species Area SAI Stratus: 1 (B) Provided Months of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Species Area SAI Stratus: 1 (B) Provided Months of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Species Area SAI Stratus: 1 (B) Provided Months of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Species Area SAI Stratus: 1 (B) Species Area SAI Stratus: 1 (B) Provided Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 (B) Species Area SAI Stratus: 1 (B) Species Are		NU <u>*</u>					
Absolute Species Saluts	Remarks:						
Absolute Species Saluts							
Absolute Species Saluts							
Number of Dominant Species Number of Domi	VEGETATION – Use scientific names	of plants.					
1. None				dicator	Dominance Tes	t worksheet:	
2			Species? S				1 (A)
3.	··· -						(A)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)		0					1 (B)
Sapling/Shrub Stratum (Plot size: 30 ft)	3	0			Percent of Domi	nant Species	. ,
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = 0.0 OBL species x 2 = 0.0 FACW species x 3 = 0.0 FACW species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL species x 4 = 0.0 OBL speci	т.	_			That Are OBL, F	ACW, or FAC:	100 (A/B)
Total % Cover of: Multiply by:		0	= Total Cover				
2.	Sapling/Shrub Stratum (Plot size: 30 ft)		<u></u>		Prevalence Inde	ex worksheet:	
3.	1. None	0			Total % Cover of	f: Multip	oly by:
4.					OBL species	x 1=	0.0
Herb Stratum (Plot size: 6 ft)					FACW species	x 2=	0.0
Herb Stratum (Plot size: 6 ft)	_	- 			FAC species	x 3=	0.0
Herb Stratum (Plot size: 6ft) 1. Lolium perenne 60	5		- Total Cayor			x 4=	0.0
1. Lolium perenne 2.	Herb Stratum (Plot size: 6 ft)	-	_ = Total Cover		•	x 5=	0.0
2.		60	FAC	C	Column Totals:	0 (A)	0 (B)
3.	· · · · · · · · · · · · · · · · · · ·				Prevalence Inde	x = B/A =	0.0
4.	2	-					
6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size: 12 ft) 1. NONE 2. Provalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants¹ 7 Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 8 Hydrophytic Vegetation Present? Yes x No Remarks:	4				Hydrophytic Ve	getation Indica	ators:
7.	5				1 - Rapid Tes	st for Hydrophyt	ic Vegetation
8.	6	_			2 - Dominano	ce Test is >50%	
9		_					
10		-			4 - Morpholog	gical Adaptatior arks or on a sen	is¹ (Provide supporting arate sheet)
11. Problematic Hydrophytic Vegetation¹ (Explain) Woody Vine Stratum (Plot size: 12 ft) NONE Thydrophytic Vegetation¹ (Explain) Hydrophytic vegetation¹ (Explain) Hydrophytic vegetation¹ (Explain) Hydrophytic vegetation problematic. Hydrophytic vegetation Present? Yes x No Remarks:							· ·
Woody Vine Stratum (Plot size: 12 ft) 1. NONE 2.	4.4				_		
Woody Vine Stratum (Plot size: 12 ft) 1. NONE 2. Hydrophytic Vegetation Present? Yes × No Remarks:			= Total Cover		 -		
1. NONE 2. Hydrophytic Vegetation Present? Yes x No Remarks:	Woody Vine Stratum (Plot size: 12 ft)	-					
% Bare Ground in Herb Stratum The stratum and							
% Bare Ground in Herb Stratum = Total Cover Vegetation Present? Yes × No Remarks:	2.				Harden o la dia		
% Bare Ground in Herb Stratum Present? Yes x No Remarks:			= Total Cover				
	% Bare Ground in Herb Stratum				-	Yes x	No
Vegetation is problematic. Agricultural site consisting of 50-80% Lolium perenne and managed for monoculture	Remarks:						
Vegetation is problematic. Agricultural site consisting of 50-80% Lolium perenne and managed for monoculture							
	Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne	e and managed	d for monoculture		

SOIL Sampling Point: SP37 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Loc² Type¹ Texture Remarks 100 0-9 10YR3/2 **GrSiCL** 9-16 10YR2/2 100 **GrSiCL** 20 С 16-20 10YR3/2 80 10YR4/4 M GrC ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): Yes ☐ No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Project/Site: Burkhartt	City/County:	Lebanon/Linn	Sampling Date: 8/16/17		
Applicant/Owner: Norman Steckley		State: OR Sar	npling Point: SP38		
Investigator(s): Allen Martin	Section, T	ownship, Range: Sec	tion 10, T12S, R02W		
Landform (hillslope, terrace, etc.): terrace	Lo	cal relief (concave, cor	nvex, none): none Slope (%): 0		
Subregion (LRR): A	Lat: 44.5485	83 Long: -122	2.926069 Datum: D_North_American_1983_HARN (SP, Int ft)		
Soil Map Unit Name: Salem gravelly silt loam			NWI classification: upl		
Are climatic / hydrologic conditions on the site typ					
Are Vegetation , Soil , or Hydrolo		-	Are "Normal Circumstances" present? Yes x No		
Are Vegetation x , Soil , or Hydrolo	gy 🔟 natur	ally problematic?	(If needed, explain any answers in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes x	No		·		
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No ×	Is the Sampled Are	a within a Wetland? Yes No _x		
Remarks:	<u></u>				
Plot near north end of wetlan	d defining	east edge of wet	land		
	-w w				
VEGETATION – Use scientific names	of plants				
VEGETATION - Use scientific flames	•	Daminant India	Dominance Test worksheet:		
Tree Stratum (Plot size: 30 ft)	Absolute % Cover		atol		
1. None	0		That Are OBL, FACW, or FAC: 1 (A)		
2.			Total Number of Dominant		
3			Species Across All Strata: 1 (B)		
4	0		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)		
	0	T 1 1 0			
Sapling/Shrub Stratum (Plot size: 30 ft)	0	= Total Cover	Prevalence Index worksheet:		
4 None	0		Total % Cover of: Multiply by:		
2. Notice	-		OBL species $x = 0.0$		
3.			FACW species x 2 = 0.0		
4.			FAC species x 3 = 0.0		
5	0		FACU species x 4 = 0.0		
	0	= Total Cover	UPL species $x_5 = 0.0$		
Herb Stratum (Plot size: 6 ft)		FAC	Column Totals: 0 (A) 0 (B)		
1. Lolium perenne	60	Y FAC	Prevalence Index = B/A = 0.0		
2. 3.	<u> </u>		Prevalence index = B/A = 0.0		
4.	<u> </u>		Hydrophytic Vegetation Indicators:		
5.			☐ 1 - Rapid Test for Hydrophytic Vegetation		
6.			2 - Dominance Test is >50%		
7			☐ 3 - Prevalence Index is ≤3.01		
8	<u> </u>		4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)		
9.			5 - Wetland Non-Vascular Plants ¹		
10 11.			Problematic Hydrophytic Vegetation ¹ (Explain)		
11.	60	= Total Cover	¹Indicators of hydric soil and wetland hydrology must		
Woody Vine Stratum (Plot size: 12 ft)			be present, unless disturbed or problematic.		
1. NONE					
2.			Hydrophytic		
	0	= Total Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum			Present? Yes x No		
Remarks:					
Vegetation is problematic. Agricultural site	consisting of 50	0-80% Lolium perenne ar	nd managed for monoculture		

SOIL Sampling Point: SP38 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix Redox Features Depth Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 0-10 10YR2/2 **GrSiCL** 5 С 10YR2/2 **GrSiCL** 10-17 95 10YR4/4 M 17-20 80 15 С 10YR4/2 10YR5/6 **GrSiCL** M 17-20 5 С **GrSiCL** 10YR2/2 M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils³: ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? No X Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Applicant/Owner: Norman Steckley Investigator(s): Allen Martin Landform (hillslope, terrace, etc.): terrace	Local relief (concave, convex, r	0, T12S, R02W none): Slope (%):0			
• · · /					
Soil Map Unit Name: Conser silty clay loam		WI classification: upl			
Are climatic / hydrologic conditions on the site typic					
Are Vegetation x , Soil ☐ , or Hydrolog Are Vegetation x , Soil ☑ , or Hydrolog		ormal Circumstances" present? Yes x No			
Are vegetation , Soil , or Hydrolog	y I naturally problematic?	(If needed, explain any answers in Remarks.)			
SUMMARY OF FINDINGS - Attach site	e map showing sampling point l	ocations, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes × Yes Yes × Yes	No Is the Sampled Area with				
Remarks: Plot defines upland boundary at northeast corner of northern wetland.					
VEGETATION – Use scientific names	of plants.				
<u>Tree Stratum</u> (Plot size: 30 ft) 1. None	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)			
2.		Total Number of Dominant			
3	0	Species Across All Strata: 1 (B) Percent of Dominant Species			
4	0	That Are OBL, FACW, or FAC: 100 (A/B)			
Sapling/Shrub Stratum (Plot size: 30 ft)	0 = Total Cover	Prevalence Index worksheet:			
1. None	0	Total % Cover of: Multiply by:			
2.	0	OBL species x 1 =0.0			
3.	0	FACW species x 2 = 0.0			
4.	0	FAC species $x_3 = 0.0$			
5	0	FACU species $x_4 = 0.0$			
	0 = Total Cover	UPL species $x_5 = 0.0$			
Herb Stratum (Plot size: 6 ft)		Column Totals: 0 (A) 0 (B)			
1. Lolium perenne	60 FAC				
2.		Prevalence Index = B/A = 0.0			
3		Hydrophytic Vegetation Indicators:			
4 5.		☐ 1 - Rapid Test for Hydrophytic Vegetation			
6.		✓ 2 - Dominance Test is >50%			
7.		☐ 3 - Prevalence Index is ≤3.01			
8.		4 - Morphological Adaptations ¹ (Provide supporting			
9.		data in Remarks or on a separate sheet)			
10.		☐ 5 - Wetland Non-Vascular Plants¹			
11		☐ Problematic Hydrophytic Vegetation¹ (Explain)			
Woody Vine Stratum (Plot size: 12 ft)	= Total Cover	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1. NONE					
2	0 = Total Cover	Hydrophytic			
% Bare Ground in Herb Stratum	= Total Cover	Vegetation Present? Yes X No			
Remarks:		,			
Vegetation is problematic. A gricultural site.	consisting of 50-80% Lolium perenne and man	paged for monoculture			
regentation is problematic. rigilicultural site (consisting of 50 0070 Editum perenne and man	202 101 monoculture			

SOIL Sampling Point: SP39 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Loc² Remarks Type¹ Texture 100 0-8 10YR2/2 SiCL 2 С 8-12 10YR2/2 SiCL 98 10YR4/4 M 20 С M **GrCL** 12-24 10YR4/2 80 10YR5/4 ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) ³Indicators of hydrophytic vegetation and 卫 Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Д. Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) П Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) ☐ FAC-Neutral Test (D5) Soils (C6) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Applicant/Owner: Norman Steckley Investigator(s): Allen Martin Landform (hillslope, terrace, etc.): terrace Subregion (LRR): A Soil Map Unit Name: Conburg silty clay loam Are climatic / hydrologic conditions on the site typich of the site of	Local relief (concave, convex, r Lat: 44.548583 Long: -122.9260 No cal for this time of year? Yes No y significantly disturbed? Are "No y naturally problematic? (e map showing sampling point I No	none): none Slope (%): 0 69 Datum: D_North_American_1983_HARN (SP, Int ft) WI classification: upl (If no, explain in Remarks.) ormal Circumstances" present? Yes x No (If needed, explain any answers in Remarks.) ocations, transects, important features, etc.			
Feature does not have well defined bed and bank or evidence of high water mark.					
VEGETATION – Use scientific names Tree Stratum (Plot size: 30 ft)) 1. None 2. 3. 4.	Absolute Dominant Indicator <u>% Cover Species? Status</u> 0	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)			
Sapling/Shrub Stratum (Plot size: 30 ft)) 1. None 2 3 4 5 Herb Stratum (Plot size: 6 ft) 1. Lolium perenne	0	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 = 0.0 FACW species x 2 = 0.0 FAC species x 3 = 0.0 FACU species x 4 = 0.0 UPL species x 5 = 0.0 Column Totals: 0 (A) 0 (B)			
 Phalaris arundinaceus Rubus armeniacus 5. 6. 7. 8. 9. 10. 11. Woody Vine Stratum (Plot size: 12 ft) 		Prevalence Index = B/A = 0.0 Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 5 - Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
1. NONE 2. % Bare Ground in Herb Stratum Remarks:	0 = Total Cover	Hydrophytic Vegetation Present? Yes × No			
Vegetation is problematic. Agricultural site	consisting of 50-80% Lolium perenne and man	aged for monoculture			

SOIL Sampling Point: SP40 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Color (moist) % Color (moist) % Loc² (inches) Type¹ Texture Remarks 2 С PL 0-8 10YR3/2 98 10YR 4/4 SiCL 2% OR С 10YR 4/4 5 8-24 10YR2/2 95 SiCL/CL ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils³: Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) ☐ Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Very Shallow Dark Surface (TF12) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) \square ³Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic Restrictive Layer (if present): **Hydric Soil Present?** Depth (inches): Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, Surface Water (A1) MLRA 1, 2, 4A, and 4B) 4A, and 4B) High Water Table (A2) Drainage Patterns (B10) Salt Crust (B11) \Box Saturation (A3) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) П Water Marks (B1) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres along Living Sediment Deposits (B2) \checkmark Roots (C3) Geomorphic Position (D2) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent Iron Reduction in Tilled ☐ Algal Mat or Crust (B4) Soils (C6) ☐ FAC-Neutral Test (D5) \Box Stunted or Stressed Plants (D1) Raised Ant Mounds (D6) (LRR A) Iron Deposits (B5) (LRR A) Surface Soil Cracks (B6) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Inundation Visible on Aerial Imagery (B7) ☐ Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? □ No □ Depth (inches): □ No Depth (inches): Wetland Hydrology Present? Yes X No Water Table Present? Saturation Present? Depth (inches): ☐ No (includes capillary fringe) Yes Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:



Photo 1: View looking west of south end of field (8/09/17).



Photo 2: East side of field bordering N. 12th Street (8/09/17).



Photo 3: South end of field looking west taken from southeast corner. Quad is in southern wetland swale (8/09/17).



Photo 4: Looking southwest across southern swale in Wetland B. Wetland is on right side of backhoe pit (8/09/17).



Photo 5: View looking to the northwest with backhoe pits in distance defining northern swale in Wetland B (8/09/17).



Photo 6: Looking west across southern field at riparian forested area bordering Burkhart Creek (8/09/17).



Photo 7: View from southwest corner of site looking northeast with Wetland B in foreground (8/09/17).



Photo 8: Looking south at section of Burkhart Creek (8/09/17).



Photo 9: East side of site with Laticrete International facility on the right (8/11/17).



Photo 10: Looking south along eastern edge of riparian forested area bordering Burkhart Creek (8/11/17).



Photo 11: View of west side of field looking north from the riparian area (8/11/17).



Photo 12: View looking north at north end of field. Red line defines Wetland A (8/11/17).



Photo 13: Looking north across Wetland A (8/11/17).



Photo 14: View looking to the southwest with Wetland A in foreground and riparian forest in distance (8/11/17).



Photo 15: Looking south across Wetland A with west edge of field defined by hedge row (8/11/17).



Photo 16: View of north end of Wetland A with railroad tracks defining property boundary (8/11/17).

APPENDIX E: Literature Citations

Cowardin, Lewis M. et al., 1979, Classification of Wetlands and Deepwater Habitats of the United States. U.S. Fish and Wildlife Service, Washington, DC, 131 pp.

Environmental Laboratory, 1987, Corps of Engineers wetlands delineation manual, Technical Report Y-87-1: Vicksburg, MS: U.S. Army Engineer Waterways Experiment Station (online). (http://el.erdc.usace.army.mil/wetlands/pdfs/wlman87.pdf)

GretagMacbeth, 2016 production, Revised Washable Edition Munsell® Soil Color Charts: Grand Rapids, Michigan.

Linn County, Oregon GIS Maps (online). http://www.co.Linn.or.us/index.php?content=gis

National Weather Service Forecast Office, Portland, Oregon Preliminary Monthly Data (online). http://www.weather.gov/climate/index.php?wfo=pqr

Oregon Climate Service, Oregon State University College of Oceanic and Atmospheric Sciences - OSU College of Agricultural Sciences Albany Farm Unit (online). http://agsci.oregonstate.edu/farmunit/weather

Oregon Department of State Lands, Division 90 Administrative Rules for Wetland Delineation Report Requirements for Jurisdictional Determinations for the Purpose of Regulating Fill and Removal within Waters of the State, January 2011.

Oregon Department of State Lands, Wetlands Removal/Fill Forms & Publications (online). http://www.oregon.gov/DSL/PERMITS/forms.shtml

Oregon Explorer Natural Resources Digital Library (online). http://oregonexplorer.info/

Oregon Geospatial Enterprise Office (GEO) (online). http://spatialdata.oregonexplorer.info/GPT9/catalog/main/home.page

Oregon Imagery Explorer(online). http://oregonexplorer.info/imagery

Reed, P. B., Jr., 1988, National list of plant species that occur in wetlands: 1988 national summary, Biological Report 88(24). Washington, DC: U.S. Fish and Wildlife Service (online). http://www.usace.army.mil/CECW/Documents/cecwo/reg/plants/list88.pdf)

Reed, P. B., Jr. 1993, 1993 supplement to the list of vascular species that occur in wetlands: Northwest (Region 9), Supplement to Biological Report 88(26.9). Washington, DC: U.S. Fish and Wildlife Service.

Robert W. Lichvar and John T. Kartesz. 2009. North American Digital Flora: National Wetland Plant List, version 2.4.0 (https://wetland_plants.usace.army.mil). U.S. Army Corps of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH, and BONAP, Chapel Hill, NC.

Schoeneberger, P.J., D.A. Wysocki, E.C. Benham, and Soil Survey Staff. 2012. Field book for describing and sampling soils, Version 3.0. Natural Resources Conservation Service, National Soil Survey Center, Lincoln, NE.

StreamNet GIS Data (downloaded March 2014). Metadata for Pacific Northwest Generalized Fish Distribution, All Species Combined (2012): StreamNet (January 2012). URL: http://www.streamnet.org/online-data/GISData.html

http://www.streamnet.org/gisdata/map_data_biological/FishDist_MSHv3_January2012/GenFishDist_January2012.zip

United States Army Corps of Engineers, 2008, Regional supplement to the Corps of Engineers wetland delineation manual: Western Mountains, Valleys, and Coast Region (Version 2.0): ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-08-28. Vicksburg, MS. U. S. Army Engineer Research and Development Center (online).

(http://www.usace.army.mil/CECW/Documents/cecwo/reg/west_mt_finalsupp.pdf)

United States Army Corps of Engineers. Portland District Regulatory Program (online). http://www.nwp.usace.army.mil/regulatory/home.asp

United States Army Corps of Engineers. Regulatory Guidance Letters (online). http://www.usace.army.mil/CECW/Pages/rglsindx.aspx

United States Department of Agriculture, Natural Resources Conservation Service, 2010, Field Indicators of Hydric Soils in the United States, Version 7.0: L.M. Vasilas, G.W. Hurt, and C.V. Noble (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils (online). (http://soils.usda.gov/use/hydric/)

United States Department of Agriculture, Natural Resources Conservation Service, Hydric Soil Lists for Oregon Soil Survey Areas (online). http://www.or.nrcs.usda.gov/technical/soil/hydric.html

United States Department of Agriculture, Natural Resources Conservation Service, Oregon Soil Survey Data (online). http://www.or.nrcs.usda.gov/pnw_soil/or_data.html

United States Department of Agriculture, Natural Resources Conservation Service, WETS Table Documentation (online). http://www.wcc.nrcs.usda.gov/climate/wets_doc.html

United States Department of Agriculture, Natural Resources Conservation Service, Climate Information - Wetlands Retrieval for Oregon (online). http://www.wcc.nrcs.usda.gov/cgibin/getwetco.pl?state=or

United States Fish & Wildlife Service National Wetlands Inventory (online). http://www.fws.gov/wetlands/

Vepraskas, M. J., 1992, Redoximorphic features for identifying aquic conditions, Technical Bulletin 301: Raleigh, NC: North Carolina Agricultural Research Service, North Carolina State University.

Vepraskas, M. J., and S. W. Sprecher, 1997, Aquic conditions and hydric soils: The problem soils. Special Publication Number 50: Madison, WI: Soil Science Society of America.