AIRPORT INDUSTRIAL SITE WETLAND DELINEATION REPORT Linn County Tax Lots

12S02W16 2802 & 2804

Prepared for

City of Lebanon

Site Description

56.34 acres farmed for annual rye grass seed and hay

Site Centroid

Latitude 44.529142° N Longitude –122.933778° W

Prepared by

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A) Landscape Setting and Land Use

A.1 Site Description

The site is located on the north side of Airport Drive on the west side of the Lebanon urban growth boundary. The study area is the entire 56.34 acres that lie within Linn County tax lot 12S02W16 2802 & 2804 (see table below). Agricultural fields lie to the north, west and south with the Lebanon airport forming the east boundary and Airport Drive the southern boundary.

The site is cultivated for annual rye grass seed and has been used for agriculture for more than fifty years. Topographically, the site is flat sloping gently to the northwest with the highest elevation of 33 feet in the southeast corner and the lowest elevation of 331 feet in the northwest corner.

Site description	on Lot size (acres) Owners		Address
12S02W16 2802	25.67	Kristine Holtzinger	Farm use – address not assigned
12S02W16 2804	30.67	Dale & Kathy Parker	36585 Airport Drive, Lebanon

Table 1: Tax Lot Information

Little Oak Creek, an intermittent 1st order tributary flows diagonally northwesterly across the southwest corner of the site. The only area not used for agriculture on the parcels is a small 1-acre area surrounding a single-family residence in the south end of tax lot 2804.

A.2 Vegetation

Vegetation consists of the annual rye grass over most of the site. Hedge rows along boundaries and on interior fences contain patches of blackberry thickets. Most of tax lot 2804 is not cultivated for annual rye grass and it is mowed and harvested for hay. Vegetation includes a mix of pasture grasses and weeds with dominant vegetation mostly *Agrostis capillaris, Anthoxanthum odoratum, Schedonorus arundinaceus* and *Hypochaeris radicata*. Vegetation associated with the intermittent tributary includes *Phalaris arundinacea* and *Mentha pulegium*.

A.3 Soil

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

- Clackamas variant silt loam gravelly silt loam (24): not hydric with hydric inclusions
- Dayton silt loam (33): hydric

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. Low soil permeability and flat topography retains water and the flat terraces stay saturated, occasionally ponded for extended periods in the springtime.

The site slopes very gently to the northwest but evidence of surface flow was not evident. The intermittent channel in the southwest corner is known as Little Oak Creek, a 1st order tributary to Oak Creek which flows into the Willamette River near Albany. Little Oak 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 338 to 331 feet above mean sea level and the Hyslop weather station elevation is 230 feet. The subject property lies about 14.5 miles southeast of the Hyslop Farm where the US Weather Service Station is located.

Rainfall in the months preceding the August site was normal or above normal since the start of the water year and similar for the calendar year. The site visit was conducted during the dry season and as a result primary wetland hydrology indicators were not observed.

Date of Site Visit	DDT		Recorded	WETS Avg	% of Normal PPT for	Monthly % o 3 months p	of normal ppt receding site on WETS avg	t for each of visit based
	during site visit	PPT two weeks preceding	October (thru preceding month)	water year thru preceding month	water year based on WETS Avg.	Preceding month	2 nd preceding month	3 rd preceding month
8/14/17	0.04	0.15	58.43	41.46	141	о	106	75
8/17/17	0	0.19	58.43	41.46	141	0	106	75

Table 2: Precipitation preceding site visits

March	2018

Month	Rainfall recorded	WETS*	Rainfall relative to	30% Chance rai	30% WETS range	
Month	for Water Year	rainfall	WETS* average	Less than	More than	to recorded rainfall
October	12.15	3.02	402%	1.70	3.68	Above
November	7.78	6.94	112%	4.55	8.34	Within
December	5.16	7.43	69%	5.03	8.88	Within
January	5.33	6.46	83%	3.95	7.82	Within
February	12.48	5.71	219%	3.91	6.80	Above
March	8.11	4.59	177%	3.46	5.35	Above
April	4.14	2.98	139%	2.09	3.53	Above
May	1.73	2.30	75%	1.52	2.81	Within
June	1.55	1.46	106%	0.93	1.76	Within
July	0	0.57	0	0.17	0.68	below
TOTAL	58.43	41.46	141%	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. As a result, hydrology was based on secondary indicators when present. Other information such as position in the landscape and hydric soil indicators was also used to aid in formulating a best professional judgement decision. In addition, 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 14 and August 17, 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). More than 60 soil pits were dug and thirty-five (35) data plots are included to document the upland/wetland boundaries. 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 OHWM for the intermittent channel was located by identifying the top of the bank on each side of the channel.

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 were identified with a total of 43.42 acres of wetland. A 620-foot long section of Little Oak Creek flows through across the southwest corner of tax lot 2802. The study area is a mostly flat agriculture field with a single-family residence and two outbuildings present in the southeast corner of tax lot 2804. At the time of the site visit, the entire site had been mowed. Tax lot 2802 had been cultivated with annual rye grass and most of tax lot 2804 had not been cultivated but contained a mix of pasture grasses and weedy species. Fence rows around the property boundary and in the interior contained patches of blackberry thickets. The southeast corner is the highest elevation at 348 feet with the lowest elevation of 341 feet in the northwest corner, seven feet of gradient over more than 1,800 feet. Flat topography and poorly drained soils contribute to most of the site meeting wetland criteria. The study area covers approximately 56 acres with about 12 acres upland and the remainder wetland.

Wetland A is a 39.80-acre area on the north end of the study area. Four small isolated upland areas are present near the northern property boundary. The area around the residence, a narrow strip bordering the north side of the creek and a small area on the south side of the creek are the only other upland areas.

Wetland B is a 3.62-acre area that straddles a 620-foot long stretch of Little Oak Creek, a first order tributary to Oak Creek. The creek width to the top of bank varies from 4 feet to 20 feet. The intermittent creek is included in the wetland acreage because vegetation is present in the channel below the OHWM. The wetland is a seasonally saturated depressional feature with ponding persisting in small, deeper depressions.

Wetland extends off the site on the west, north and east side of Wetland A and wetland extends off the site on the west side of Wetland B. The intermittent creek enters the site at the south end from a culvert under Airport Drive.

Wetland Size	Wetland Category	Other Waters	Description
Wetland A: 39.80 acres	PEM		Formed Wetland
Wetland B: 3.62 acres	PEM	620' section of Little Oak Ck.	Farmed Wettand
TOTAL: 43.42 acres wetland		0.20 acres Waters (included in wetland acres)	

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 Little Oak Creek as a R4SBC waterway. The current study identified Little Oak Creek as a vegetated intermittent channel in Wetland B.

G) Mapping Method

Mapping of the wetland boundary, sample plot locations and top of bank along Airport Industrial 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 completed by SWCA in 2006 (WD06-0234) identified 46.45 acres. Information from that report was used in the course of completing the current delineation. In 2012, Pacific Habitat Services completed a delineation "lite" evaluation (WD2013-0397) of the site for the Oregon Cascades West Council of Governments and identified 43.03 acres of wetland on the site. The wetland areas in the 2012 delineation are similar to those identified in the current study.

I) Results and Conclusions

The current delineation examined approximately 56.34 acres of a farmed site referenced as Linn County tax lots 12S02W16 2802 and 2804. The site lies outside the City of Lebanon city limits on the west side of the urban growth boundary. A single-family residence is present on tax lot 2804 with an address of 36585 Airport Drive. The site has been farmed for over 70 years.

Two wetland areas were identified with a total of 43.42 acres of wetland delineated. The wetlands are broad, flat depressions located in the alluvial flood plain of the Willamette Valley. A 1st order tributary, Little Oak Creek flows across the southwest corner of tax lot 2802.

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

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NORTH

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-1	
	Investigator(s):	A. Martin			Section, Town	iship, Range:	16, T12S, R0	2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	cal relie	(concave, co	nvex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.Y21° W	Datum: HARM	NAD83
	Soil Map Unit N	lame: Daytor	n silt loam			NWI class	sification:	upland		
	Are Climatic / hydro	ologic conditions	on the site typical for this t	ime of ye	ar?	Yes:	x	No:	(If no	explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal C	Circumstances" present?	Yes <u>x</u>	No
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, ex	plain any answers in Rem	arks.)	
	SUMMARY O	F FINDINGS	- Attach site map	show	ing sampl	ing point loc	ations, tr	ansects, important	features, etc.	
	Hydrophytic Vegeta	ation Present?	Yes <u>x</u>	No		la tha Camala	d Aree within	- Wetlend 2		
	Hydric Soil Present Wetland Hydrology	? Present?	Yes	No No	x	is the Sample	d Area within	a wetland? Yes	No	x
	Remarks:	Plot located in s	slightly crowned terrace at	north en	d of TL 2802. I	Field cultivated fo	or annual rye			
	VEGETATION	l - Use scien	tific names of plan	ts.						
		(D) ()		<u>,</u>	Absolute	Dominant	Indicator	Dominance Test Works	sheet:	
	Tree Stratum	(Plot size:	30 ft dia)	% Cover	Species?	Status	Number of Dominant Sp	ecies	
1. 2.						·		That are OBL, FACW, or	FAC:	<u> </u>
3.				-				Total Number of Domina	nt	1 (P)
4.								Species Across All Strate	a.	<u>(</u> (b)
				-		= Total Cover		Percent of Dominant Spe That are OBL, FACW, or	ecies FAC:	100 (A/B)
	Sapling/Shrub Strat	tum (Plot size:)						
1.						·		Prevalence Index work	sheet:	
2. 3.								OBL species	x 1 =	Multiply by:
4. 5.						·		FACW species FAC species	x 2 = x 3 =	
				· -		- Total Cover		FACU species	x 4 =	
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(A)	(B)
1.	Lolium multiflorum				80%	yes	FAC	Prevalence Index = B/A	=	
2. 3.				· -				·		
4.								Hydrophytic Vegetation	n Indicators:	- station
5. 6.				· -		·		x Dominance	Test is >50%	elation
7. 8.				· -				Prevalence Morphologic	Index is <3.0 ⁽¹⁾ cal Adaptations ⁽¹⁾ (F	Provide supporting
9. 10								data in Rem	arks or on a separa n-Vascular Plants ⁽¹	ite sheet)
11.				· -		·		Problematic	Hydrophytic Veget	ation ⁽¹⁾ (Explain)
				-	80%	= Total Cover		(1) Indicator	rs of hydric soil and	wetland hydrology
	Woody Vine Stratur	m (Plot size:)				must be pre	sent, unless disturb	ed or problematic.
1		_						Hydrophytic		
2.				· -				Vegetation		
				-		= Total Cover		Present?	Yes <u>x</u>	N0
	% Bare Ground in H	Herb Stratum	20							
	Remarks:									
	Komarka.									

2011							Sampling Point:	SP-1			
Profile Des	cription: (Desc	ribe to the	depth needed to do	cument the	indicator of	confirm the abse	nce of indicators.)				
Depth (Inches)	Matrix Color (moist)	%	Redox Features	%	Type (1)	L oc (2)	Texture		Remarks		
(mones)		70		70	1300 (1)		Texture		Remarko		
0-9	10YR 3/2	100					sicl	<u> </u>			
9-11	10YR 3/2	98%	10YR 4/4	2	<u> </u>	M	sicl				
14-21	10YR 4/2	95%	10YR 4/4	5	<u> </u>	M	sici				
								<u> </u>			
(1)Type: C	Concentration,	D=Depletion	n, RM=Reduced Matr	ix, CS=Cove	red of Coated	d Sand Grains. (2)	_ocation: PL=Pore Lining, I	M=Matrix.			
Hydric Soi	Indicators: (A	pplicable to	o all LRRs, unless of	therwise not	ted.)		Indicators of Problemat	tic Hydric Soils(3).			
	Histosol (A1)				Sandv Red	ox (S5)		2 cm Muck (A1)))		
	Histic Epiped	on (A2)			Stripped Ma	atrix (S6)		Red Parent Mat	erial (TF2)		
	Black Histic (A3)			Loamy Muc	ky Mineral (F1)		Other (Explain i	n Remarks)		
	Hydrogen Su	lfide (A4)			(except MLI	RA 1)					
	Depleted Bel	ow Dark Sur	face (A11)		Loamy Gley	ed Matrix (F2)					
	Thick Dark Surface (A12))		Depleted M	atrix (F3)	(3) indicators of hydrop and watered bydrology	hytic vegetation			
	Sandy Mucky Mineral (ST)				Depleted D:	ark Surface (F6)	unless disturbed or prol	must be present, blematic			
			/		Redox Dep	ressions (F8)		biematie.	ematic.		
Restrictive	layer (if prese	nt):									
-											
Type:											
Dopth (in	shoc):						Hudric Soil Present?	Voc	No	Y	
Deptil (III							Hyunc Son Fresent?	165	NO	*	
Remarks:											
HYDRO	LOGY										
Wetland H	ydrology Indica	ators:									
Primary Inc	icators (minimu	m of one rec	quired: (check all that	apply)	_			Secondary India	ators (2 or more required)		
								Water Stained Leaves (B0) (MLDA 1.2			
	Surface Wate	er (A1)			Water Stain	ied Leaves (B9) (e	xcept MLRA	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B)			
	_ High Water I	able (A2)			1,2,4A, ar	10 4B)		4A, and 4B)			
	Water Marks	3) (B1)				DTT) ertebrates (B13)		Drainage Patterns (B10)			
	Sediment De	nosits (B2)			Hydrogen S	Sulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)			
	Drift Deposits	(B3)			Oxidized RI	nizospheres along	Living Roots (C3)	G	eomorphic Position (D2)		
	Algal Mat or (Crust (B4)			Presence of	f Reduced Iron (C4	4)	Shallow Aquitard (D3)			
	Iron Deposits	(B5)			Recent iron	Reduction in Tille	d Soils (C6)	FAC-Neutral Test (D5)			
	Surface Soil	Cracks (B6)			Stunted or St	Stressed Plants (D	1) (LRR A)	R	aised Ant Mounds (D6) (LF	RR A)	
	Inundation Vi	sible on Aer	ial imagery (B7)		Other (Exp	lain in Remarks)		Fi	ost-Heave Hummocks (D7	7)	
	Sparsely Veg	etated Cond	cave Surface (B8)								
5. 11.01											
Field Obse	rvations:										
Surface Wa	ter Present?	Yes	3	No	x	Depth (inches):		Wetland Hydro	loav Present?		
oundoo m			·								
Water Tabl	e Present?	Yes	3	No	х	Depth (inches):		Yes	No	x	
Saturation	Present?	Yes	3	No	х	Depth (inches):					
(includes c	apillary fringe)										
Describe R	ecorded Data (s	tream gaug	e, monitoring well, ae	rial photos, p	previous inspe	ections), if available	9:				
Remarks:											
rtemanto.											

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date : 8/14/2017	
	Applicant/Owner:	City of Lebanon	1		State:	OR		Sampling Point: SP-2	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W	
	Landform (terrace,	terrace, etc.):	terrace Local r	elief (co	ncave, convex	, none):	concave	Slope (%): 0%	
	Subregion (LRR):	LRR A		-	Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83	
	Soil Map Unit N	lame: Dayton	i silt loam			NWI class	ification:	upland	
	Are Climatic / hydro	ologic conditions	on the site typical for this t	ime of y	ear?	Yes:	x	No: (If no explain in remarks)	
	Are Vegetation	Soil	or Hydrology		Significantly di	sturbed?	Are"Normal C	circumstances" present? Yes x No	
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, ex	plain any answers in Remarks.)	
	SUMMARY O	F FINDINGS	- Attach site map	show	ving sampli	ing point loc	ations, tr	ansects, important features, etc.	
	Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology	ation Present? ? Present?	Yes x Yes x Yes x	No No No		Is the Sample	d Area within	a Wetland? Yes <u>x</u> No	
	Remarks:	Plot located on	edge of terrace on north e	nd of TL	. 2802.				
	VEGETATION	l - Use scien	tific names of plan	ts.	Absolute	Dominant	Indicator	Dominance Test Worksheet	
	Tree Stratum	(Plot size:)	% Cover	Species?	Status		
1.								Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)	
2. 3.				•		·		Total Number of Dominant	
4.								Species Across All Strata:1 (B)	
						= Total Cover		Percent of Dominant Species	
	Sapling/Shrub Stra	tum (Plot size:)				That are OBL, FACW, or FAC:(A/B)	
1				-				Provalence Index worksheet	
2.								Total % Cover of: Multiply by:	
3. 4.								OBL species x 1 = FACW species x 2 =	
5.				•				FAC species x 3 =	
						= Total Cover		VPL species x 4 UPL species x 5 =	
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:(A)(B)	
1.	Lolium multiflorum				80%	yes	FAC	Prevalence Index = B/A =	
2. 3.						·			
4. 5.				•		·		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation	
6.								x Dominance Test is >50%	
7. 8.				•				Morphological Adaptations ⁽¹⁾ (Provide supporting	
9.								data in Remarks or on a separate sheet)	
10. 11.				•				Problematic Hydrophytic Vegetation ⁽¹⁾ (Explain)	
				_	80%	- Total Cover		(1) Indicators of hydric soil and wetland hydrology	
					00 /0			must be present, unless disturbed or problematic.	
	Woody Vine Stratu	m (Plot size:		_)					
1. 2.						·		Hydrophytic Vegetation	
				•				Present? Yes x No	
						= Total Cover			
	% Bare Ground in I	Herb Stratum	20	-					
	Remarks:								

SP-2

Depth (Inches) Matrix Color (moist) Redox Features Color (moist) Type (1) Loc (2) Texture Ref 0-7 10YR 3/2 100 sicl	emarks		
Color (moist) % Color (moist) % Type (1) Loc (2) Texture Rt 0-7 10YR 3/2 100	emarks		
0-7 10YR 3/2 100 sicl 11-20 10YR 3/2 95% 10YR 4/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 4/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 4/4 5 C M sicl)		
10YR 3/2 95% 10YR 4/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl 11 10YR 3/2 95% 10YR 4/4 5 C M sicl 11 10<)		
11-20 10YR 4/2 95% 10YR 5/4 5 C M sicl Image: Sick of the structure of the)		
(1)Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered of Coated Sand Grains. (2)Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators of Problematic Hydric Soils(3). Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histo: Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) Other (Explain in Remarks Hydrogen Sulfide (A4) (except MLRA 1) Other (Explain in Remarks) Thick Dark Surface (A12) Depleted Matrix (F3) (3) indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive layer (if present): Type: Type:)		
(1)Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered of Coated Sand Grains. (2)Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators of Problematic Hydric Soils(3). 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) Other (Explain in Remarks Hydrogen Sulfide (A4) (except MLRA 1) Other (Explain in Remarks) Thick Dark Surface (A12) Depleted Matrix (F3) (3) indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive layer (if present): Type: Type:)		
(1)Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered of Coated Sand Grains. (2)Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators of Problematic Hydric Soils(3). 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) Other (Explain in Remarks Hydrogen Sulfide (A4) (except MLRA 1) Other (Explain in Remarks Thick Dark Surface (A12) Depleted Matrix (F3) (3) indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) and wetland hydrology must be present, unless disturbed or problematic. Type:)		
(1)Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered of Coated Sand Grains. (2)Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators of Problematic Hydric Soils(3). 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) Other (Explain in Remarks Hydrogen Sulfide (A4) (except MLRA 1) Other (Explain in Remarks) X Depleted Below Dark Surface (A11) Depleted Matrix (F3) (3) indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) unless disturbed or problematic. Restrictive layer (if present): Type: Type:)		
(1)Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered of Coated Sand Grains. (2)Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators of Problematic Hydric Soils(3). 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) Other (Explain in Remarks (except MLRA 1) x Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F3) (3) indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive layer (if present): Type: Type:)		
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators of Problematic Hydric Soils(3). Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Hydrogen Sulfide (A4) (except MLRA 1) Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Restrictive layer (if present): Redox Depressions (F8))		
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) Other (Explain in Remarks + Hydrogen Sulfide (A4) (except MLRA 1) Other (Explain in Remarks x Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) (3) indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) (a) indicators of problematic. Restrictive layer (if present): Type:)		
Imitation (x1) Safety Red0x (S5) 2 Cff Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material (TF2) Black Histic (A3) Loamy Mucky Mineral (F1) Other (Explain in Remarks Hydrogen Sulfide (A4) (except MLRA 1) Other (Explain in Remarks Thick Dark Surface (A12) Depleted Matrix (F3) (3) indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) unless disturbed or problematic.)		
Black Histic (A3) Loamy Mucky Mineral (F1) Other (Explain in Remarks Hydrogen Sulfide (A4) (except MLRA 1) Other (Explain in Remarks X Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) (3) indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) X Redox Dark Surface (F7) (3) indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive layer (if present): Type:)		
Import open Summer (A4) (except MLRA 1) x Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Thick Dark Surface (A12) Depleted Matrix (F3) (3) indicators of hydrophytic vegetation Sandy Mucky Mineral (S1) x Redox Dark Surface (F6) and wetland hydrology must be present, Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive layer (if present): Type:			
Thick Dark Surface (A12) Depleted Matrix (F3) (3) indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) x Redox Dark Surface (F6) and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive layer (if present): Type:			
Sandy Mucky Mineral (S1) x Redox Dark Surface (F6) and wetland hydrology must be present, unless disturbed or problematic. Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive layer (if present): Type:			
Restrictive layer (if present):			
Restrictive layer (if present): Type:			
Туре:			
Туре:			
Depth (inches): Hvdric Soil Present? Yes x	No		
HYDROLOGY			
Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that apply) Secondary Indicators (2 or	more required)		
	Secondary indicators (2 or more required)		
Surface Water (A1) Water Stained Leaves (B9) (except MLRA Water Stained Leaves (B9) (except MLRA Water Stained 4D)	Water Stained Leaves (B9) (MLRA 1,2,		
Saturation (A3) Salt Crust (B11) Drainage Pai	, tterns (B10)		
Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season I	Water Table (C2)		
Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) X Geomorphic	Position (D2)		
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aqui	itard (D3)		
Iron Deposits (B5) Recent iron Reduction in Tilled Soils (C6) FAC-Neutral Stunted or Stressed Plants (D1) (LRR A) Reised Ant A	Test (D5) Jounds (D6) (LRR A)		
Inundation Visible on Aerial imagery (B7) Other (Explain in Remarks) Frost-Heave	Hummocks (D7)		
Sparsely Vegetated Concave Surface (B8)			
Field Observations:			
Surface Water Present? Yes No x Depth (inches): Watland Hydrology Proc	ent?		
Water Table Present? Yes No x Depth (inches): Yes x	No		
Saturation Present? Yes <u>No x</u> Depth (inches): (includes capillary fringe)			
Saturation Present? Yes No x Depth (inches):			
Saturation Present? Yes No x Depth (inches): (includes capillary fringe)			
Saturation Present? Yes No x Depth (inches): Lincludes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:			
Saturation Present? Yes No Depth (inches): (includes capillary fringe)			
Saturation Present? Yes No Depth (inches): (includes capillary fringe)	nd Coast Marsies 2.0		

SOIL

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point: 5	SP-3	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	f (concave, con	ivex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44.	529142° N	Long:	-123.933778° W	Datum: I	HARN NAD83
	Soil Map Unit N	ame: Clacka	mas variant silt loam	-		NWI class	ification:	upland	-	
	Are Climatic / hvdro	logic conditions	on the site typical for this t	ime of v	ear?	Yes:	×	No:	(If no explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly di	sturbed?	Are"Normal (Circumstances" present?	Yes	x No
	Are Vegetation	Coll	or Hydrology		Noturally probl		(If peeded or		- 100 <u>-</u>	
		300					(ii needed, e.		KS.)	
	SUMMARY O	FFINDINGS	- Attach site map	shov	ing sampli	ng point loc	ations, tr	ansects, important f	eatures, o	etc.
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes <u>x</u> Yes	No No	x	Is the Sample	d Area within	a Wetland?		
	Wetland Hydrology	Present?	Yes	No	x			Yes_		No <u>x</u>
	Remarks:	plot located on	west end of small terrace	oorderin	g north end of T	TL 2802				
	VEGETATION	- Use scien	tific names of plan	its.						
	Tree Stratum	(Plot size:	30 ft dia)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksh	eet:	
	<u></u>	(1.101.01201		/	<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	000000	olaldo	Number of Dominant Spec	cies	
1. 2.				-				That are OBL, FACW, or F	AC:	<u> </u>
3. 1				-				Total Number of Dominant	t	1 (P)
4.				-				- Species Across Air Strata.		<u> </u>
						= Total Cover		Percent of Dominant Spec That are OBL, FACW, or F	ies AC:	100 (A/B)
	Sapling/Shrub Strat	tum (Plot size:)						
1.				-				Prevalence Index works	neet:	
2. 3.				-				Total % Cover of: OBL species	,	Multiply by:
4.				-				FACW species		< 2 =
5.				-				FAC species FACU species	رر ر	< 3 = < 4 =
	Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species		(5 =(B)
		(1 101 0120.		/						
1. 2.	Lolium multiflorum			-	90%	yes	FAC	Prevalence Index = B/A =	-	
3. ⊿				-					Indicators	
ч. 5.				-				Rapid Test fo	r Hydrophytic	c Vegetation
6. 7.				-				1 Dominance T Prevalence In	est is >50% idex is <3.0 ⁽¹)
8.				-				Morphologica	I Adaptations	s ⁽¹⁾ (Provide supporting
9. 10.				-				Wetland Non-	-Vascular Pla	ints ⁽¹⁾
11.				-				Problematic H	lydrophytic \	egetation ⁽¹⁾ (Explain)
					90%	= Total Cover		(1) Indicators	of hydric soi	and wetland hydrology
	Woody Vine Stratur	m (Plot size:)				must be prese	ent, uniess a	sturbed of problematic.
1.								Hydrophytic		
2.				-				Vegetation		
						= Total Cover		Present?	Yes	<u>x No</u>
	% Bare Ground in F	Herb Stratum	10							
		oratum		-						
	Remarks:									

SP-3

SOIL											
Profile Des	scription: (Des	cribe to the	depth needed to doc	ument the i	ndicator of	confirm the abse	nce of indicators.)				
Donth	Motrix		Dodov Footuroo								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	- Texture		Remarks		
(
0-10	10YR 3/2	100					sicl				
10-14	10YR 3/2	98%	10YR 3/4	2	<u> </u>	<u>M</u>	sicl				
14-21	101R 4/2	95%	101R 5/4	5	U	IVI	SICI				
			· ·								
					-						
			·								
			·								
(1)Type: C=	-Concentration	D=Depletion	, RM=Reduced Matrix	, CS=Cover	ed of Coated	d Sand Grains. (2)	Location: PL=Pore Linin	iq, M=Matrix.			
			,	,							
Hydric Soi	I Indicators: (A	Applicable to	all LRRs, unless oth	erwise not	ed.)		Indicators of Proble	matic Hydric Soils(3).			
	Historol (A1))			Sandy Ped	ox (S5)		2 cm Muck (A10)			
	Histic Epipedon (A2)				Stripped Ma	atrix (S6)		Red Parent Material (T	F2)		
	Black Histic (A3)				Loamy Muc	ky Mineral (F1)		Other (Explain in Rema	arks)		
	Hydrogen Sulfide (A4)				(except ML	RA 1)					
	Depleted Below Dark Surface (A11)				Loamy Gle	yed Matrix (F2)	(2) indicators of by	of hudron hudio up potation			
	Sandy Muck	v Mineral (S1) –		Redox Darl	(F3)	and wetland hydrolo	ydrophytic vegetation			
	Sandy Gleye	d Matrix (S4)	_		Depleted D	ark Surface (F7)	unless disturbed or	bed or problematic.			
	_		=		Redox Dep	ressions (F8)					
Postriativa	lover (if proce	m#).									
Restrictive	ayer (if prese	ent):									
Type:							1				
Depth (in	ches):						Hydric Soil Present?	? Yes	No	Х	
Pomarke:											
HYDRO	LOGY										
Wetland H	ydrology Indic	ators:							.		
Primary Ind	licators (minimu	im of one req	uired: (check all that a	ipply)	-			Secondary Indicators (2 or more required)		
	Surface Wat	er (A1)			Water Stair	ned Leaves (B9) (e	(except MLRA Water Stained Leaves (B9) (MLRA 1.2.				
	High Water	Table (A2)	_		1,2,4A, a	nd 4B)	4A, and 4B)				
	_ Saturation (A	A3)	_		Salt Crust (B11)	Drainage Patterns (B10)				
	_ Water Marks	s (B1) anosite (B2)	_		Aquatic Inv	ertebrates (B13)		Dry-Seas	son Water Table (C2)	(C9)	
	Drift Deposit	s (B3)	_		Oxidized R	hizospheres along	Living Roots (C3)	Geomorg	phic Position (D2)	igery (00)	
	Algal Mat or	Crust (B4)	_		Presence of	f Reduced Iron (C	4)	Shallow	Aquitard (D3)		
	Iron Deposite	s (B5)	_		Recent iron	Reduction in Tille	d Soils (C6)	FAC-Neu	Itral Test (D5)	•	
	_ Surface Soil	Cracks (B6) isible on Aeri	al imageny (B7)		Other (Evr	Stressed Plants (L	01) (LRR A)	Raised A	Int Mounds (D6) (LRR	A)	
	Sparsely Ve	getated Conc	ave Surface (B8)			din in Kenarka)		11031110			
	, .	0	. ,								
Field Obse	ervations:										
Surface Wa	ter Present?	Ves		No	v	Denth (inches):		Wetland Hydrology P	resent?		
Sunace wa	ater i resent:	103		NO	^	Deptil (illelies).		wettand hydrology P	resenti		
Water Table	e Present?	Yes		No	х	Depth (inches):		Yes	No	х	
						_					
Saturation I	Present?	Yes		No	х	Depth (inches):					
(includes ca	apiliary innge)										
Describe R	ecorded Data (stream gauge	, monitoring well, aeria	al photos, pi	evious inspe	ections), if available	e:				
			•								
Dercard											
Remarks:											
US Army Co	rps of Engineers							vvestern Mountains, Valle	ys and Coast - Version 2	.U	

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanon	1		State:	OR		Sampling Point:	SP-4	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W		
	Landform (terrace,	terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	concave		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum:	HARN NAD83
	Soil Map Unit N	ame: Clacka	mas variant silt loam	-		NWI class	ification:	upland		
	Are Climatic / hvdro	logic conditions	on the site typical for this t	ime of v	/ear?	Yes:	x	No:		(If no explain in remarks)
	Are Vegetation	Soil	or Hydrology	, ,	Significantly di	sturbed?	Are"Normal C	Circumstances" present?	Yes	x No
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed as	volain any answers in Rem	arke)	<u> </u>
							(ii needed, ex		f f	- 4 -
	SUMMARY OF	FFINDINGS	- Attach site map	snov	ving sampi	ing point loc	ations, tr	ansects, important	teatures,	etc.
	Hydrophytic Vegeta Hydric Soil Present	ation Present? ?	Yes x Yes x	No No		Is the Sample	d Area within	a Wetland?		
	Wetland Hydrology	Present?	Yes x	No				Yes	X	No
	Remarks:	Plot paired with	SP3 at north end of TL 28	302						
	VEGETATION	- Use scien	tific names of plan	its.				1		
	Tree Stratum	(Plot size:	30 ft dia)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:	
4		,		_^		·		Number of Dominant Spe	ecies	1 (A)
1. 2.				-				That are OBL, FACW, or	FAC:	<u> </u>
3. 4.				-		·		Total Number of Domina Species Across All Strata	nt a:	1 (B)
				-		·				<u> </u>
						= Total Cover		Percent of Dominant Spe That are OBL, FACW, or	FAC:	100 (A/B)
	Sapling/Shrub Strat	tum (Plot size:)						
1.				-				Prevalence Index work	sheet:	
2. 3.				-				Total % Cover of: OBL species		x 1 =
4.				-				FACW species		x 2 =
5.				-				FAC species FACU species		x 3 = x 4 =
	Herb Stratum	(Plot size:	5 ft dia	`		= Total Cover		UPL species		x 5 =(A) (B)
		(1 101 3120.						Column rotals.		(4)(5)
1. 2.	Lolium multiflorum			-	90%	yes	F	Prevalence Index = B/A =		
3.				-				Hudronbutio Vogotation	Indicatora	
4. 5.				-				Rapid Test	for Hydrophyti	ic Vegetation
6. 7				-		·		x Dominance Prevalence	Test is $>50\%$ Index is $<3.0^{\circ}$	(1)
8.				-				Morphologic	al Adaptation	s ⁽¹⁾ (Provide supporting
9. 10				-		·		data in Rem	arks or on a s	separate sheet)
10. 11.	·			-				Problematic	Hydrophytic	Vegetation ⁽¹⁾ (Explain)
					00%	- Total Cover		(1) Indicator	e of bydric co	il and wetland bydrology
								must be pre	sent, unless o	disturbed or problematic.
	Woody Vine Stratur	m (Plot size:)						
1.				-				Hydrophytic		
2.				-		·		Vegetation Present?	Yes	x No
						= Total Cover				
	% Bare Ground in H	Herb Stratum	10	_						
-	Remarks:									
	-									

Western Mountains, Valleys, and Coast - Version 2.0

SP-4

Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the i	ndicator of c	onfirm the abse	nce of indicators.)	
Donth	Motrix		Dodox Footuroo					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0-8	10YR 3/2	98	10YR 4/4	2	С	PI	sicl	2% OR
8-11	10YR 3/2	95%	10YR 4/4	5	C	M	sicl	
11-20	10YR 4/2	90%	10YR 4/6	10	С	М	cl	
	·							
(1)Type: C=	-Concentration,	D=Depletio	n, RM=Reduced Matrix	, CS=Cover	red of Coated	Sand Grains. (2)	Location: PL=Pore Linir	ng, M=Matrix.
Hydric Soi	I Indicators: (A	pplicable to	o all LRRs, unless oth	erwise not	ed.)		Indicators of Proble	matic Hydric Soils(3).
	Histosol (A1)				Sandy Redo	x (S5)		2 cm Muck (A10)
	Histic Epiped	on (A2)	-		Stripped Mat	trix (S6)		Red Parent Material (TF2)
	Black Histic (/	A3) Ifido (A4)	-		Loamy Muck	y Mineral (F1)		Other (Explain in Remarks)
x	Depleted Belo	ow Dark Su	rface (A11)		Loamy Gleye	ed Matrix (F2)		
	Thick Dark Su	urface (A12)		Depleted Ma	trix (F3)	(3) indicators of hyd	Irophytic vegetation
	Sandy Mucky Sandy Gleyed	d Mineral (S d Matrix (S4	1) 	X	Redox Dark Depleted Da Redox Depre	Surface (F6) rk Surface (F7) essions (F8)	and wetland hydrolo unless disturbed or	ogy must be present, problematic.
Restrictive	layer (if prese	nt):						
Туре:								
Depth (ind	ches):						Hydric Soil Present	? Yes <u>x</u> No
Denseder								
HYDRO	LOGY							
Wetland Hy Primary Ind	ydrology Indica icators (minimur	ators: m of one re	quired: (check all that a	ipply)				Secondary Indicators (2 or more required)
	Surface Wate	or (A1)			Water Staine	d Leaves (BQ) (c	avcent MI PA	Water Stained Leaves (B0) (MLDA 1.2
	High Water T	able (A2)	-		1,2,4A, and	d 4B)		4A, and 4B)
	Saturation (A	3)	-		Salt Crust (B	(11)		Drainage Patterns (B10)
	_ Water Marks Sediment Der	(B1) posits (B2)	-		Aquatic Inve	Ifide Odor (C1)		Dry-Season Water Table (C2)
	Drift Deposits	(B3)	_	х	Oxidized Rhi	izospheres along	Living Roots (C3)	x Geomorphic Position (D2)
	Algal Mat or C	Crust (B4)	_		Presence of	Reduced Iron (C	:4) 	Shallow Aquitard (D3)
	Iron Deposits Surface Soil ((B5) Cracks (B6)	-		Stunted or S	Reduction in Tille tressed Plants (E	d Solls (C6) D1) (LRR A)	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
	Inundation Vis	sible on Aer	rial imagery (B7)		Other (Expla	ain in Remarks)	, (,	Frost-Heave Hummocks (D7)
Field Obse	rvations:							1
Surface Wa	iter Present?	Ye	5	No	×	Depth (inches):		Wetland Hydrology Present?
Water Table	e Present?	Ye		No	X	Depth (inches):		
Coturation I	Drocont?	Ve	·	No		Depth (inches):		
(includes ca	apillary fringe)	fe	<u> </u>	NO	X	Deptil (inches).		
Describe R	ecorded Data (s	tream gaug	e, monitoring well, aeria	al photos, p	revious inspec	tions), if availabl	e:	
Remarks:								
US Army Cor	rps of Engineers							Western Mountains, Valleys and Coast - Version 2.0

SOIL

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanor	١		State:	OR		Sampling Point:	SP-5	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0)2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	cal relie	ef (concave, cor	nvex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum:	HARN NAD83
	Soil Map Unit N	ame: Clacka	mas variant silt loam			NWI class	ification:	upland		
	Are Climatic / hvdro	blogic conditions	on the site typical for this t	me of v	ear?	Yes:	x	No:		(If no explain in remarks)
	Are Vegetation	Soil	or Hydrology	,	Significantly di	isturbed?	Are"Normal (Circumstances" present?	Yes	x No
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed ex	xolain any answers in Rema	arks)	
	SUMMARY O		- Attach site map	show	/ing sampli	ina point loc	ations. tr	ansects, important	features.	etc.
	Hydrophytic Vegeta	ation Present?	Yes x	No				,,		
	Hydric Soil Present Wetland Hydrology	? Present?	Yes x Yes x	No No		Is the Sample	d Area within	a Wetland? Yes	x	No
	Remarks:	Plot located adi	acent to small terrace near	northw	est end of TL 2	2802				
	- tomainto:	i lot loodtod daj								
	VEGETATION	- Use scien	tific names of nlan	ts						
	VEGETATION				Absolute	Dominant	Indicator	Dominance Test Works	heet:	
	Tree Stratum	(Plot size:	30 ft dia)	% Cover	Species?	Status	Number of Dominant Spe	ecies	
1. ว						·		That are OBL, FACW, or	FAC:	1 (A)
2. 3.						·		Total Number of Dominar	nt	
4.						·		Species Across All Strata	1:	<u> </u>
						= Total Cover		Percent of Dominant Spe That are OBL_FACW_or	cies FAC [:]	100 (A/B)
	Sapling/Shrub Strat	tum (Plot size:)					17.0.	(772)
1.								Prevalence Index works	sheet:	
2. 3								Total % Cover of:		x 1 =
4.								FACW species		x 2 =
5.						·		FAC species		x 3 = x 4 =
	Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species Column Totals:		x 5 =(B)
			orraid	,	0001		_			(0)
1. 2.	Lolium multiflorum				80%	yes	F	Prevalence Index = B/A =		<u> </u>
3. 4.								Hydrophytic Vegetation	Indicators:	
5. 6								Rapid Test f	or Hydrophyti	c Vegetation
0. 7.								Prevalence I	Index is $<3.0^{\circ}$	1) (1)
8. 9.						·		Morphologic data in Rem	al Adaptation arks or on a s	s ⁽¹⁾ (Provide supporting eparate sheet)
10 11								Wetland Nor Problematic	n-Vascular Pla	ants ⁽¹⁾ /egetation ⁽¹⁾ (Explain)
									riyaropiiyao	
					80%	= Total Cover		(1) Indicators must be pres	s of hydric soi sent, unless d	I and wetland hydrology isturbed or problematic.
	Woody Vine Stratur	m (Plot size:)						
1.								Hydrophytic		
2.								Present?	Yes	<u>x No</u>
						= Total Cover				
	% Bare Ground in H	Herb Stratum	20							
	Remarks:									

SP-5

Depth (Inches) Matrix Color (moist) Redox Features Color (moist) Type (1) Loc (2) Texture 0-6 10YR 3/2 100	
Depth Matrix Redox Features (Inches) Color (moist) % Type (1) Loc (2) Texture 0-6 10YR 3/2 100 sicl sicl 6-12 10YR 3/2 95% 10YR 4/6 5 C M sicl 12-22 10YR 4/2 90% 10YP 5/4 10 C M st	
0-6 10YR 3/2 100 sicl 6-12 10YR 3/2 95% 10YR 4/6 5 C M sicl 12-22 10YR 4/2 90% 10YP 5/4 10 C M cl	e Remarks
6-12 10VR 3/2 95% 10VR 4/6 5 C M sicl 12-22 10VR 4/2 90% 10VR 5/4 10 C M sicl	
12.22 10VR 4/2 90% 10VP 5/4 10 C M cl	
(1)Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered of Coated Sand Grains. (2)Location: PL=Pc	ore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators of	Problematic Hydric Soils(3).
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)	Other (Explain in Remarks)
Hydrogen Sulfide (A4) (except MLRA 1)	
Thick Dark Surface (A12) Depleted Matrix (F3) (3) indicator	s of hydrophytic vegetation
Sandy Mucky Mineral (S1) x Redox Dark Surface (F6) and wetland	hydrology must be present,
Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) unless distu	rbed or problematic.
Restrictive layer (if present):	
Туре:	
	resent? Yes <u>x</u> No
Remarks:	
Wetland Hydrology Indicators:	
Primary Indicators (minimum of one required: (check all that apply)	Secondary Indicators (2 or more required)
Surface Water (A1) Water Stained Leaves (B9) (except MLRA	Water Stained Leaves (B9) (MLRA 1,2,
High Water Table (A2)1,2,4A, and 4B)	4A, and 4B)
Saturation (A3) Salt Crust (B11)	Drainage Patterns (B10)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)	x Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C	C3) x Geomorphic Position (D2)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Shallow Aquitard (D3)
Iron Deposits (B5) Recent iron Reduction in Tilled Soils (C6) Sturface Soil Cracks (B6) Sturface Soil Cracks (B6)	FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial imagery (B7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)	
Field Observations:	
Field Observations: Surface Water Present? Yes No x Depth (inches):	Wetland Hydrology Present?
Field Observations: Surface Water Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches):	Wetland Hydrology Present?
Field Observations: No x Depth (inches):	Wetland Hydrology Present? Yes <u>x</u> No
Field Observations: Surface Water Present? Yes No x Depth (inches):	Wetland Hydrology Present? Yes <u>x</u> No
Field Observations: Surface Water Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): (includes capillary fringe) Ves No x Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Wetland Hydrology Present? Yes <u>x</u> No
Field Observations: Surface Water Present? Yes No x Depth (inches):	Wetland Hydrology Present? Yes <u>x</u> No
Field Observations: Surface Water Present? Yes No x Depth (inches):	Wetland Hydrology Present? Yes <u>x</u> No
Field Observations: Surface Water Present? Yes Water Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:	Wetland Hydrology Present? Yes <u>x</u> No
Field Observations: Surface Water Present? Yes No x Depth (inches):	Wetland Hydrology Present? Yes x No

SOIL

	Project/Site:	Airport Industria	I		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-6	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0)2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	concave		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: H	ARN NAD83
	Soil Map Unit N	lame: Clackar	mas variant silt loam	-		NWI class	ification:	upland		
	Are Climatic / hydro	ologic conditions of	on the site typical for this t	ime of y	vear?	Yes:	x	No:	(If	no explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly di	isturbed?	Are"Normal (Circumstances" present?	Yes	x No
	Are Vegetation	Soil	or Hydrology		Naturally probl	lematic?	(If needed, ex	xplain any answers in Rem	arks.)	
	SUMMARY O	F FINDINGS	- Attach site map	shov	ving sampli	ing point loc	ations, tr	ransects, important	features, et	с.
	Hydrophytic Vegeta	ation Present?	Yes x	No		ls the Sampler	d Aroa within	a Wotland?		
	Wetland Hydrology	Present?	Yes	No	x			Yes	s	No <u>x</u>
	Remarks:	Plot in slightly hi	igher terrace near northwe	est corn	er of TL 2802					
	VEGETATION	l - Use scien	tific names of plan	ts.						
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Work	sheet:	
		(,	,			Number of Dominant Sp	ecies	
1. 2.								_ That are OBL, FACW, o	r fag:	<u> </u>
3. 4.								Total Number of Domina Species Across All Strat	ant a:	1 (B)
				•						()
						= Total Cover		That are OBL, FACW, o	r FAC:	<u>100</u> (A/B)
	Sapling/Shrub Strat	tum (Plot size:)						
1.								Prevalence Index work	sheet:	
2. 3.						· ·		OBL species	x	1 =
4. 5						· ·		FACW species	x	2 =
•.								FACU species	x	4 =
	Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		OPL species Column Totals:	X	b =(B)
1.	Lolium multiflorum				90%	ves	FAC	Prevalence Index = B/A	=	
2.				•		· ·		-		
3. 4.						· ·		Hydrophytic Vegetatio	n Indicators:	
5. 6.								Rapid Test	for Hydrophytic V Test is >50%	/egetation
7.						· ·		Prevalence	Index is <3.0 ⁽¹⁾	
8. 9.				-		· ·		Morphologi data in Ren	cal Adaptations […] narks or on a sep	(Provide supporting arate sheet)
10	-							Wetland No	on-Vascular Plant	s ⁽¹⁾
11	·			-				Problematio	c Hydrophytic Veo	getation ⁽¹⁾ (Explain)
					90%	= Total Cover		(1) Indicato	rs of hydric soil a	nd wetland hydrology
	Woody Vine Stratur	m (Plot size:)				must be pre	esent, uniess disti	urbed or problematic.
1.								Hydrophytic		
2.						· ·		Vegetation		
						= Total Cover		Present?	Yes	<u>x N0</u>
	% Bare Ground in H	Herb Stratum	10	_						
	Remarks:									

							Sampling Point:	SP-6		
SOIL Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	nfirm the abse	nce of indicators.)			
Denth	Matrix		Peday Features							
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Rem	arks	
0-9	10VR 3/2	100					sicl			
0-J 0_1/	10VP 3/2	0/%		6		M	sicl			
9-14 14-20	10TR 3/2	94 /0	101R 4/4	10		M				
14-20	10111 4/2	90 %		10		IVI				
	· ·									
(1)Type: C=	Concentration.	D=Depletio	n. RM=Reduced Matrix	CCS=Cov	ered of Coated S	and Grains. (2)	_ocation: PL=Pore Lini	ng. M=Matrix.		
Hydric Soil	Indicators: (Ap	plicable to	o all LRRs, unless oth	nerwise no	oted.)		Indicators of Proble	ematic Hydric Soils(3).		
	Histosol (A1)				Sandy Redox	(\$5)		2 cm Muck (A10)		
	Histic Epipede	on (A2)	-		Stripped Matri	(S6)		Red Parent Material (TF2)		
	Black Histic (A	A3)	-		Loamv Muckv	Mineral (F1)		Other (Explain in Remarks)		
	Hydrogen Sul	fide (A4)	-		(except MLRA	(1)				
	Depleted Belo	w Dark Su	face (A11)		Loamy Gleyed	Matrix (F2)				
	Thick Dark Su	rface (A12)		Depleted Matr	ix (F3)	(3) indicators of hy	drophytic vegetation		
	Sandy Mucky	Mineral (S	1) –		Redox Dark S	urface (F6)	and wetland hydrol	logy must be present,		
	Sandy Gleyed	Matrix (S4	- -)		Depleted Dark	Surface (F7)	unless disturbed or	problematic.		
	-		- -		Redox Depres	ssions (F8)				
Restrictive	layer (if preser	nt):								
Type:										
Depth (inc	ches):						Hydric Soil Present	? Yes	No	x

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required: (check all the	apply)	Secondary Indicators (2 or more required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water Stained Leaves (B9) (except MLRA 1,2,4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations:		
Surface Water Present? Yes	No x Depth (inches):	Wetland Hydrology Present?
Water Table Present? Yes	No x Depth (inches):	Yes <u>No x</u>
Saturation Present? Yes (includes capillary fringe)	No x Depth (inches):	_
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections), if available:	
Remarks:		
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0

0-9 9-14 14-20

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date : 8/	/14/2017	
	Applicant/Owner:	City of Lebanon	I		State:	OR		Sampling Point: SP-7	7	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	02W		
	Landform (hillslope	, terrace, etc.):	terrace L	ocal relie	- ef (concave, cor	ivex, none):	concave	Slo	vpe (%): 0%	
	Subregion (LRR):	LRR A			Lat: 44		Lona:	-123.933778° W D	atum: HARN NAD83	
	Soil Map Unit N	lame [.] Clacka	mas variant silt loam	-	· · · ·	NWI class	sification	upland		
	Are Climatic / bydro		on the site typical for this	time of y	vear?	Vec	×	No:	(If no evoluin in remarks)	
	Are Vegetation	Soil	or Hydrology	une or y		oturbod?	Aro"Normal (Voo v No	
	Are vegetation	501			_ Significantiy di	sturbed?	Are Normai C	circumstances present?	res <u>x</u> No	
	Are vegetation	501	or Hydrology		Naturally probl	lematic?	(If needed, e	xplain any answers in Remarks.)		
	SUMMARY O	F FINDINGS	- Attach site map	o shov	ving sampli	ing point loo	cations, tr	ansects, important feat	tures, etc.	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes x Yes x	No No		Is the Sample	d Area within	a Wetland?		
	Wetland Hydrology	Present?	Yes x	No				Yes	<u>x</u> No	
	Remarks:	Plot located in v	vetland adjacent to terrac	e that st	raddles fencelin	e between two p	arcels			
	VEGETATION	l - Use scien	tific names of pla	nts.						
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant	Indicator	Dominance Test Worksheet	:	
	<u>Thee offatum</u>	(1 101 3120.		_)	70 OOVCI	opecies:	Olalus	Number of Dominant Species		
1. 2.				-		·		That are OBL, FACW, or FAC	: <u> </u>	
3.				_				Total Number of Dominant	1 (D)	
4.				_					<u> </u>	
						= Total Cover		Percent of Dominant Species That are OBL, FACW, or FAC	: 100 (A/B)	
	Sapling/Shrub Stra	tum (Plot size:)					、 ,	
1.				_				Prevalence Index worksheet	t:	
2. 3.				-				Total % Cover of: OBL species	Multiply by:	
4.				_				FACW species	x 2 =	
5.				_				FAC species	x 3 = x 4 =	
	Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species	x 5 =(B)	
		(1 101 01201	011010	/			_		(0)	
1. 2.	Lolium multiflorum			_	85%	yes	F	Prevalence Index = B/A =		
3. 4.				-		·		- Hydrophytic Vegetation Indi	cators:	
5.				_		·		Rapid Test for Hy	/drophytic Vegetation	
б. 7.				_				x Dominance Test Prevalence Index	is >50% (is <3.0 ⁽¹⁾	
8. 9				-				Morphological Ad	laptations ⁽¹⁾ (Provide supporting or on a separate sheet)	
10				_		·		Wetland Non-Vas	scular Plants ⁽¹⁾	
11	·			-		·		Problematic Hydr	ophytic Vegetation ⁽¹⁾ (Explain)	
					85%	= Total Cover		 Indicators of h must be present 	ydric soil and wetland hydrology	
	Woody Vine Stratu	m (Plot size:)						
1.				_				Hydrophytic		
2.				_				Vegetation Present?	Yes y No	
						= Total Cover				
	% Bare Ground in I	Herb Stratum	15							
	Remarke:									
	NGHIQING.									

SP-7

Depth Matrix Restor Failures Out- (notens) Color (provid) % Color (provid) % Type (1) toc (2) Texture Remains Out- (notens) Disc Dis Dis Disc	Profile Des	cription: (Desc	cribe to the	depth needed to doc	ument the i	ndicator of	confirm the abse	ence of indicators.)	
Indiana Code (noted) N Type (1) Los (2) Texture Remarks 0.4 -0078 32 000 -0078 44 5 C 14 -001<	Depth	Matrix		Reday Features					
6 1078 32 900 905 1078 44 6 0 10 20 10 902 200<	(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
511 107R 322 95% 107R 44 5 C M aid 24L CR 1122 197R 322 95% 107R 44 10 C M aid 24L CR 1122 197R 322 95% 107R 44 10 C M aid 24L CR (117pe: C=Consentation. D=Depletion. RM=Reduced Matrix, CS=Covered of Costed Sand Crains. (22L costion: PL=Pore Ling, M=Matrix. Indicators of Problematic Hydrix Solif(3). Indicators of Problematic Hydrix Solif(3). (117pe: C=Consentation. D=Depletion. RM=Reduced Matrix. CS=Covered of Costed Sand Crains. (22L costion: PL=Pore Ling, M=Matrix. Indicators of Problematic Hydrix Solif(3). (117pe: C=Consentation. Solitors (71) Exercise Matrix (73) Reduce Matrix (73) Reduce Matrix (73) (117pe: (=Consentation Subset (71) Exercise Matrix (73) Reduce Matrix (73) Reduce Matrix (73) Reduce Matrix (73) (117pe: (=Consentation Crain Subset (71) Exercise Matrix (73) Reduce Matrix (73) Reduce Matrix (73) Reduce Matrix (73) (117pe: (=Consentation Crain Subset (71) Exercise Matrix (73) Reduce Matrix (73) Reduce Matrix (73) Reduce Matrix (73) (117pe: (=Consentation	0-5	10YR 3/2	100					sicl	
11.20 10/16:322 50% 10/16:444 10 C M add 11.20 10/16:324 40% 10% 10% 10% 10% 10% 11.20 10/16:426 50% 10% 10% 10% 10% 10% 10% 10% 10% 10% 10% 10% 11% 10% <td>5-11</td> <td>10YR 3/2</td> <td>95%</td> <td>10YR 4/4</td> <td>5</td> <td>С</td> <td>М</td> <td>sicl</td> <td>2% OR</td>	5-11	10YR 3/2	95%	10YR 4/4	5	С	М	sicl	2% OR
()Type: C=Concentration. D=Deptation. RM=Reduced Matrix, CS=Covered of Coated Sand Grains (2)Location: PL=Pore Lining, M=Matrix. Hydric Soll Indicators: (Applicative to all LRRs, unless otherwise noted.) Indicators of Problematic Hydric Soli(3). Histoce (A1) Carn Mark (A1) Head (A1) Carn Mark (A1) Depted Below Dark Solitons (A1) Cover (Cyclem in Browtes) (3) Indicators of Problematic Hydric Solit(3). (3) Indicators of Problematic Hydric Solit(3). Hydro Below Dark Solitons (A1) Cover (Cyclem in Browtes) Search Video Vi	11-20	10YR 3/2	90%	10YR 4/4	10	С	М	sicl	
(1)Type: Or-Concentration. Dr-Depletion. RMM-Reduced Matrix, CSr-Covered of Casted Band Grains, (2) Location: PL-Pare Lining, M-Matrix. Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators of Problematic Hydric Solin(3). Heitosci (A1) Samy Redox (S5) Casted Band Grains, (2) Heitosci (A2) Samy Redox (S5) Casted Band Band (T2) Heitosci (A1) Casany Gleged Matrix (S9) Casted Band (S1) Depleted Back Data Sufface (A1) Casany Gleged Matrix (T2) Casted Band (S1) Samy Macry Mercer (S5) Samy Redox (S5) Casted Band (S1) Samy Redox (S4) Depleted Matrix (S4) Casted Band (S1) Band Macry Mercer (S5) Depleted Matrix (S4) Casted Band (S1) Restrictlvs Bayer (If present): Type: Indicators in Parameter Depth (incluse): Hydric Solin (Casted Bind Hydrology must be present, unless distance (S4) Depleted Bank (S1) Mercer Samed Casted Band Samo (S1) Secondary Indicators (2 or more requined) Market Samed Leaves (B9) (scorpt MLRA Remarks: Subrave Mater (A1) Samed Leaves (B1) (scorpt MLRA Valuer Stained Leaves (B3) (Scorpt MLRA Subrave Mater (A1) Hydrice Samed Leaves (B3) (Scorpt MLRA Samed Leaves (B3) (Scorpt MLRA Hydrice Soli									
()Type: C-Concentration. D-Deplation. RM-Reduced Matrix. CS-Covered of Coated Sand Grains. (2)Location: PL=Pore Lining, M=Matrix. Hydric Soil Indicators: (Applicable to al LRRs, unless ortherwise noted.) Indicators of Problematic Hydric Soils(3). Histosia (A1) Simily Redox (S5) 2 cm Mark (A10) Histosia (A1) Grouped Matrix (S5) 2 cm Mark (A10) Depleted Dative Soils (S6) Commerce Mark (S5) (S1) Depleted Dative Soils (S1) Copeleted Matrix (S1) (S1) of cators of hydrophytic vegatation and waterind Hydrophytic vegatation. Simdy Reserve (S1) Depleted Dativ Sufface (T7) (S1) of cators of hydrophytic vegatation. Type:									
I'Tryse: C=Concentration. D=Depiction, RM=Reduced Matrix. CS=CG-overend of Coattad Sand Canner. (2) Contact: PL=Pore Ling, M=Matrix. Hydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators of Problematic Hydric Solle(3). Historal (A1) Storph Redox (83) Indicators of Problematic Hydric Solle(3). Historal (A1) Courny Mutoxy Miner (PL) Storph Redox (83) Bistor France, Storph CA2) Storph Redox (84) (3) Indicator of Problematic Hydric Solle(3). Bistor France, Storph CA2 Storph Redox (83) (3) Indicator of Problematic Matrix (9) Concern (Matrix (9) Concern (Matr									
(1)Type: C-Concentration. D=Depletion. RM=Reduced Matrix. CS=Concent of Coated Sand Grans. (2) (cation PL=Crue Lining, M=Matrix. Hydric Soll Mattacters: (Applicable to all LRRs, unless otherwise netsels) Indicators of Problematic Hydric Soll(3). Hate: Experior (A2) Experior MLRA 11 (coated State) Coated State Soll(3). Hate: Experior (A2) Experior MLRA 11 (coated State) Coated State Soll(3). Hydrogen Suffice (A4) Coated State (A1) (coated Matrix (S3) Coated State (A1) (coated Matrix (S4) Coate (S1) (coated Matrix (S4) The: Carle State (A1) Experison (F) Red frame Materia (T2) (coated Matrix (S4) Coate (S1) (coated Matrix (S4) (c) Indicators of Hydrophylic superstription (coated State (Coated Matrix (S4)) (c) Indicators (F) Restrictly ager (If present): The: Coate State (Coated Matrix (S4)) (c) Indicators (F) (c) Indicators (F) Restrictly ager (If present): Type: (c) Indicators (F) (c) Indicators (F) (c) Indicators (F) Performants: Hydric Soil Present? Yes (coated Matrix (S4)) (c) Indicators (F) (c) Indicators (F) Wetland Hydrology Indicators: Phydric Soil Present? Yes (coated Matrix (S4)) (c) Indicators (F) Partice Matrix (S1) Scondary Indicators (S1) Scondary Indicators (S1) (c) Indicators (S1) </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Hydric Soil Indicators: (Applicable to all LR8; unless otherwise noted.) Indicators of Problematic Hydric Soils(3). Histool (A') Sardy Redox (S) Black Histic (X) Sardy Redox (S) Black Histic (X) Commy Muck Minern (F1) Depided Beox Dens Suffix (A) Commy Muck Minern (F1) Depided Beox Dens Suffix (S) Commy Muck Minern (F1) Sandy Redox (S) Commy Gleyed Matrix (S4) Back Histic (X) Commy Gleyed Matrix (S4) Redox Depresions (F0) Commy Gleyed Matrix (S4) Redox Depresions (F0) Commy Gleyed Matrix (S4) Redox Depresions (F0) Hydric Soil Present? Yper:	(1)Type: C=	Concentration,	D=Depletion	n, RM=Reduced Matrix	k, CS=Cover	red of Coated	Sand Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.
Historial (A1) Sandy Redox (S5) 2 cm Muck (A10) Hatc Expection (A2) Loamy Mucky Minite (R1) Depleted Babo Dark Surface (A11) Depleted Babo Dark Surface (A11) Depleted Matrix (R3) (R1) Depleted Babo Dark Surface (A11) Depleted Dark Surface (A11) Depleted Dark Surface (A11) Depleted Babo Dark Surface (A11) Depleted Dark Surface (A11) Depleted Dark Surface (A11) Sandy Mucky Mineral (S1) X Depleted Dark Surface (A11) Depleted Dark Surface (A11) Depleted Dark Surface (A11) Depleted Dark Surface (A11) Sandy Mucky Mineral (S1) X Depleted Dark Surface (A11) Depleted Dark Surface (A11) Depleted Dark Surface (A11) Durk Surface (A11) Sandy Gleyed Matrix (S3) X Depleted Dark Surface (A11) Depleted Dark Surface (A11) Coamy Gleyed Matrix (S3) understand Surface (A11) Surface Assertation (S3) X Depleted Dark Surface (A11) understand Surface (A11) Surface Assertation (S3) X Depleted Dark Surface (A11) Durk Surface (A11) Surface Assertation (S3) Sandy Gleyes (S3) Sandy Gleyes (S3) Sandy Gleyes (S3) Surface Assertation (S3) Sandy Gleyes (S3) Sand	Hydric Soil	Indicators: (A	pplicable to	o all LRRs, unless oth	nerwise not	ed.)		Indicators of Proble	ematic Hydric Soils(3).
Hatcel (A) Sandy Hotox (Sb) 2 Cm Mack (AU) Hatce (A2) Singly Hotox (Sb) Real Parent Matchill (T2) Depicted Balan (A2) Done (Explain in Remarks) Hydrogen Sufface (A2) Depicted Matrix (Sb) Cm Mack (AU) Depicted Balan (A2) Depicted Matrix (Sb) Cm Mack (AU) Sandy Micros (A12) Depicted Matrix (Sb) Cm Mack (AU) Sandy Micros (A12) Depicted Matrix (Sb) Cm Mack (AU) Sandy Micros (A12) Depicted Dark Sufface (F7) Cm Mack (AU) Sandy Gleyed Matrix (S4) Depicted Dark Sufface (F7) and weldmark drydrology muse be present. Unless disturbed or problematic. Restrictive signer (if present): Type:	-			-		, <u>.</u> .			
Bisk-trikts(x) Image: Suffice (A) Collect (Explain in Remarks) Depleted Below Dark Suffice (A1) Depleted Matrix (F2) Other (Explain in Remarks) Sandy Mucky Mineral (S1) X Depleted Matrix (F2) (3) indicators of hydrophylic vegetation and vetfand hydrology musk be present. X Depleted Matrix (F3) (5) indicators of hydrophylic vegetation Bisk-triket (X4) X Depleted Matrix (F2) (7) indicators of hydrophylic vegetation Bisk-triket (X4) X Depleted Datk Sufface (F6) unless disturbed or problematic. Present: Ype:		Histosol (A1)	on (A2)	-		Sandy Red	0X (S5) atrix (S6)		2 cm Muck (A10) Red Parent Material (TE2)
Hydrogen Suifize (A1) Learny (Gleyd Mark 1) Logited Bolov Dark Surface (A1) Learny (Gleyd Mark (F2) Sandy Muchy Miner (S1) Restrictive layer (if present): Type:		Black Histic (A3)	-		Loamy Muc	ky Mineral (F1)		Other (Explain in Remarks)
Depleted Below Dark Surface (A1) Depleted Matrix (F2) Depleted Matrix (F2) Sandy Mucky Mineral (S1) x Redox Cark Surface (F1) unless diatubed or proteienatic. Sandy Mucky Mineral (S1) x Depleted Matrix (F2) Depleted Matrix (F2) Restrictive layer (if present): Redox Depressions (F5) number diatubed or proteienatic. Type:		Hydrogen Su	lfide (A4)	_		(except ML	RÁ 1)		
Strict Cark Surface (A12)		Depleted Bel	ow Dark Su	rface (A11)		Loamy Gley	ed Matrix (F2)		
Safety Mody Markin (S1)		I hick Dark Si	urface (A12))	~	Depleted M	atrix (F3)	(3) indicators of hydrol	drophytic vegetation
Construction Construction Construction Restrictive layer (if present): Type:		Sandy Mucky	d Matrix (S4	ו) <u> </u>	X	Depleted D	ark Surface (F6)	unless disturbed or	ogy must be present,
Restrictive layer (if present): Type::		_ canay choye	a maani (o i			Redox Dep	ressions (F8)		providence
Type:	Restrictive	laver (if prese	nt):						
Type:			,.						
Depth (inches):	Type:								
Remarks: HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (Initimum of one required: (check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water Stained Leaves (B9) (except MLRA 4A, and 4B) High Water Table (A2) 12,24A, and 4B) Drainage Patterns (B10) 4A, and 4B) Surface Water (A1) Hydrogen Sulface Core (C1) Drainage Patterns (B10) Salt Crana Kana Ka	Depth (inc	ches):						Hydric Soil Present	? Yes <u>x</u> No
HYDROLOGY Wetand Hydrology Indicators: Primary Indicators: Surface Water (A1) Water Stained Leaves (B9) (except MLRA 4A, and 4B) Surface Water (A1) Sait Crust (B11) Drainage Patterns (B10) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Drainage Patterns (B10) Dry-Season Water Table (C2) Mit Deposits (B3) X Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Mit Deposits (B3) X Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Sturation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Reader An Mounds (D6) (LRR A) Sturated on Yisible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Field Observations: No x Depth (inches): Yes No Surface Water Present? Yes No x Depth (inches): Yes Yes No Saturation Present? Yes No x Depth (inches): Yes Yes <	Domarka								
HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (ininimum of one required: (check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) 1,2,4A, and 4B) 4A, and 4B) Saturation (A3) Sait Crust (B1) Dry-Season Water Table (A2) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Suffide Odor (C1) X Saturation (A) Drift Deposits (B3) X Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Agal Mat or Crust (B4) Presence of Reduced In Tilled Solis (C6) Shaltow Aquitard (D3) Shaltow Aquitard (D3) Introdation Visible on Aerial imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No x Depth (inches): Yes No No Saturation Present? Yes No x Depth (inches): Yes No No Metiand Hydrology Present? Vater Table Present? Yes No x Depth (inches): Yes No Mo Corifice Recorded Data (stream gauge, monitoring well, aerial photo									
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Wetland Hydrology Indicators: Secondary Indicators: Primary Indicators (tininum of one required: (check all that apply) Secondary Indicators (2 or more required)	HYDROL	LOGY							
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Saturation (A3) Salt Crust (B11) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B3) X Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Titled Solis (C6) FAc-Neutral Test (D5) Shallow Aquitard (D3) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) No x Depth (inches): Yes No Saturation Present? Yes No x Depth (inches): Yes No No Saturation Present? Yes No x Depth (inches): Yes No No Saturation Present? Yes No x Depth (inches): Yes No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Rem		High Water T	able (A2)	-		1,2,4A, ar	nd 4B)		4A, and 4B)
Water Marks (B1) Aquatic Invertedrates (B13) Dry-Season Water Table (C2) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) X Saturation Visible on Aerial Imagery Drift Deposits (B3) X Oxidized Rhizospheres along Living Roots (C3) X Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Recent iron Reduction In Tilled Solis (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sufface Water Present? Yes No x Depth (inches): Water Table Present? Yes No x Depth (inches): Vater Table Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:		Saturation (A	3)	-		Salt Crust (B11)		Drainage Patterns (B10)
Sediment Deposits (B2) Hydrogen Sulface Odor (C1) x Saturation Visible on Aerial Imagery Drift Deposits (B3) x Oxidized Rhizospheres along Living Roots (C3) x Geomorphic Position (D2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent iron Reduction in Tilled Solis (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Surface Water Present? Yes No x Depth (inches): Saturation Present? Yes No x Depth (inches): Yes Yes No x Depth (inches): Yes Saturation Present? Yes No x Depth (inches): Yes No Saturation Present? Yes No x Depth (inches): Yes No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks: Remarks:		Water Marks	(B1)	-		Aquatic Inv	ertebrates (B13)		Dry-Season Water Table (C2)
Diff Deposit (D5) X Oracle of Reduced from (C4) Shallow Aquite Toshoft (D2) Algal Matrix Crust (B4) Presence of Reduced from (C4) Shallow Aquita (D3) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Field Observations: Surface Water Present? Yes No x Depth (inches): Yes Yes No Saturation Present? Yes No x Depth (inches): Yes Yes No		_ Sediment De	posits (B2)	-	v	Hydrogen S	Sulfide Odor (C1)	Living Poots (C3)	x Saturation Visible on Aerial Imagery (C9)
Iron Deposits (B5) Recent iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Field Observations: Surface Water Present? Yes No x Depth (inches): Yes Yes No Saturation Present? Yes No x Depth (inches): Yes Yes No No Saturation Present? Yes No x Depth (inches): Yes No No Concluse capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		Algal Mat or (Crust (B4)	-		Presence of	f Reduced Iron (C	(C3)	Shallow Aguitard (D3)
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Inundation Visible on Aerial imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7) Sparsely Vegetated Concave Surface (B8) Field Observations: Wetland Hydrology Present? Surface Water Present? Yes No x Depth (inches): Wetland Hydrology Present? Water Table Present? Yes No x Depth (inches): Yes x No Saturation Present? Yes No x Depth (inches): Yes x No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks:		Surface Soil	Cracks (B6)			Stunted or Stunted or Stunted or Stunted or Stunted or Stundard St	Stressed Plants (I	D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Field Observations: Surface Water Present? Yes No Depth (inches): Wetland Hydrology Present? Water Table Present? Yes No Depth (inches): Yes No Saturation Present? Yes No Depth (inches): Yes No Saturation Present? Yes No Depth (inches): Yes No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:		_ Inundation Vi Sparsely Veg	sible on Aer	al imagery (B7)		Other (Exp	lain in Remarks)		Frost-Heave Hummocks (D7)
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Water Table Present? Yes	Surface Wa	iter Present?	Yes	S	No	X	Depth (inches):		Wetland Hydrology Present?
Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Water Table	e Present?	Yes	s	No	x	Depth (inches):		Yes <u>x</u> No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Saturation F	Present?	Yes	3	No	x	Depth (inches):		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	(includes ca	apillary fringe)							
Remarks:	Describe Re	ecorded Data (s	tream gaug	e, monitoring well, aeri	al photos, p	revious inspe	ctions), if availabl	e:	
	Remarks:								
	. tomanto.								
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SOIL

	Project/Site:	Airport Industria	I		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanon	I		State:	OR		Sampling Point:	SP-8	
	Investigator(s):	A. Martin			Section, Town	iship, Range:	16, T12S, R0	02W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, co	nvex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HA	RN NAD83
	Soil Map Unit N	lame: Davton	silt loam	-		NWI class	sification:	upland		
	Are Climatic / bydro	logic conditions	on the site typical for this t	ime of v	ear?	- Yes [.]	¥	No	(If r	o explain in remarks)
		Soil	or Hydrology		Significantly d	isturbed?	Are"Normal (No
			of Hydrology		Neturally area	Ismatic2	(If needed as		orko)	
		50			Naturally prob		(ii needed, e.		arks.)	
	SUMMARY O	F FINDINGS	- Attach site map	show	ing sampl	ing point loc	ations, tr	ransects, important	features, etc	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes <u>x</u> Yes	No No	x	Is the Sample	d Area withir	n a Wetland?		
	Wetland Hydrology	Present?	Yes	No	x			Yes	š	No <u>x</u>
	Remarks:	Plot located on	small terrace that straddle	s fencel	ine between tw	o parcels.				
	VEGETATION	l - Use scien	tific names of plar	ıts.						
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:	
		(,				Number of Dominant Sp	ecies	
1. 2.				-		·		I hat are OBL, FACW, of	r Fac:	<u> </u>
3. 4				-				Total Number of Domina Species Across All Strat	ant a:	1 (B)
				-				_		(=)
						= Total Cover		That are OBL, FACW, or	ecies r FAC:	100 (A/B)
	Sapling/Shrub Strat	tum (Plot size:)						
1.				-				Prevalence Index work	sheet:	
2. 3.				-		·		Total % Cover of: OBL species	x 1	= Multiply by:
4. 5				-				FACW species	x 2	=
э.				-				FACU species	x 3 x 4	=
	Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species Column Totals:	x 5 (A)	=(B)
4				- ′	00%		FAC	Drevelence Index - D/A	(,	
1. 2.				-	90%	yes	FAC	Prevalence index = B/A		
3. 4.				-					n Indicators:	
5.				-				Rapid Test	for Hydrophytic Ve	egetation
о. 7.				-				Prevalence	Index is <3.0 ⁽¹⁾	
8. 9.				-		·		Morphologic data in Rem	cal Adaptations ⁽¹⁾ narks or on a sepa	(Provide supporting rate sheet)
10				-				Wetland No	on-Vascular Plants	(1) (1) (1) (1) (1)
11.	·			-					c Hydropnytic Vege	etation (Explain)
					90%	= Total Cover		(1) Indicator must be pre	rs of hydric soil an	d wetland hydrology
	Woody Vine Stratur	m (Plot size:)						
1.				_				Hydrophytic		
2.				-				Vegetation Present?	Yes	s No
						= Total Cover			100	
	% Bare Ground in H	Herb Stratum	10	_						
	Remarks:									
	NGHIQINƏ.									

							Sampling Point:	SP-8
SOIL								
Profile Des	cription: (Desci	ribe to the	depth needed to doc	ument the	e indicator of co	onfirm the abse	nce of indicators.)	
Donth	Motrix		Dodov Footuroo					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	loc(2)	_ Texture	Remarks
(moneo)		70		70		200 (2)		
0-10	10YR 3/2	100					sicl	
0-20	10YR 3/2	94%	10YR 4/3	6	С	М	sicl	
							_	
1)Type: C=	Concentration.	D=Depletio	n. RM=Reduced Matrix	. CS=Cov	ered of Coated S	Sand Grains. (2)	Location: PL=Pore Lin	ing. M=Matrix.
	, , , ,		,	,				
lydric Soil	Indicators: (Ap	plicable to	o all LRRs, unless oth	erwise no	oted.)		Indicators of Problem	ematic Hydric Soils(3).
	Historol (A1)				Sandy Redov	(95)		3 cm Muck (A10)
	Histic Epipedo	n (A2)	-		Stripped Matr	rix (S6)		Red Parent Material (TF2)
	Black Histic (A	(3)	_		Loamy Mucky	y Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Sulf	ide (A4)			(except MLR/	A 1)		_
	Depleted Belo	w Dark Su	face (A11)		Loamy Gleye	d Matrix (F2)	(2) indicators of h	dranky tip vocatation
	Sandy Mucky	Mineral (S) 1)		_ Depleted Mat	IIX (F3) Surface (E6)	(3) Indicators of hy and wetland hydro	logy must be present
	Sandy Mucky Sandy Gleved	Matrix (S4	-) -)		Depleted Dark	k Surface (F7)	unless disturbed o	r problematic.
			·		Redox Depre	ssions (F8)		F
Postrictivo	lavor (if procon	.+).						
(estrictive	layer (ii presen							
Type:								
Depth (ind	ches):						Hydric Soil Presen	t? Yes <u>No x</u>
Remarks:								
	007							
		tore						
Primary Ind	icators (minimum	n of one rea	quired: (check all that a	ipply)				Secondary Indicators (2 or more required)
	Surface Motor	(A1)			Water Staine	d Leaves (PO) (avcent MLPA	Water Stained Leaves (PO) (MLPA
	High Water Ta	(AI) able (A2)	-		1.2 4A and	u Leaves (D9) (6		4A, and 4R)
	Saturation (A3	5)	-		Salt Crust (B	11)		Drainage Patterns (B10)
	Water Marks (, B1)	-		Aquatic Inver	tebrates (B13)		Dry-Season Water Table (C2)
	Sediment Dep	osits (B2)	-		Hydrogen Su	lfide Odor (C1)		Saturation Visible on Aerial Imagery
	Drift Deposits	(B3)	_		Oxidized Rhiz	zospheres along	g Living Roots (C3)	Geomorphic Position (D2)

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all tha	t apply)	Secondary Indicators (2 or more required)							
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water Stained Leaves (B9) (except MLRA 1,2,4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)							
Field Observations:									
Surface Water Present? Yes	No Depth (inches):	Wetland Hydrology Present?							
Water Table Present? Yes	No Depth (inches):	Yes No x							
Saturation Present? Yes	No Depth (inches):	_							
Describe Recorded Data (stream gauge, monitoring well, a	erial photos, previous inspections), if available:								
Remarks:									
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0							
	Project/Site:	Airport Industrial		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
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	Applicant/Owner:	Airport Industrial		State:	OR		Sampling Point:	SP-9	
	Investigator(s):	A. Martin		Section, Towns	ship, Range:	16, T12S, R02	2W		
	Landform (hillslope,	, terrace, etc.): terrace	Local re	elief (concave, con	vex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A		Lat: 44.	529142° N	Long:	-123.933778° W	Datum: H	IARN NAD83
	Soil Map Unit N	ame: Clackamas variant si	It loam		NWI class	ification:	upland		
	Are Climatic / hydro	logic conditions on the site typ	ical for this time o	of vear?	Yes.		No:	(f no explain in remarks)
	Are Vegetation	Soil or H		Significantly di	sturbed?	Are"Normal C	ircumstances" present2	Vec	
				Significantiy di				res_	
	Are vegetation			Naturally probl	ematic?	(If needed, ex	plain any answers in Rema	arks.)	
	SUMMARY OF	F FINDINGS - Attach	site map sho	owing sampli	ng point loc	ations, tra	ansects, important	features, e	etc.
	Hydrophytic Vegeta Hydric Soil Present	ation Present? Yes	s <u>x</u> No sNo	o	Is the Sample	d Area within	a Wetland?		
	Wetland Hydrology	Present? Yes	s No	x x	·		Yes		No <u>x</u>
	Remarks:	Plot located near north end o	f TL 2804 in smal	II upland terrace.					
	VEGETATION	- Use scientific name	s of plants.						
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant	Indicator Status	Dominance Test Works	heet:	
	<u>Ince ouadam</u>	(1 101 3120.	/	// 00001	openes	Olalus	Number of Dominant Spe	ecies	
1. 2.							That are OBL, FACW, or	FAC:	<u> </u>
3.							Total Number of Domina	nt	1 (P)
4.							Species Across Air Strate	a.	(B)
					= Total Cover		Percent of Dominant Spe That are OBL_FACW_or	ecies FAC	100 (A/B)
	Sapling/Shrub Strat	tum (Plot size:)						((02)
1.							Prevalence Index work	sheet:	
2.							Total % Cover of:		Multiply by:
з. 4.							FACW species	x	2 =
5.							FAC species	×	3 =
					= Total Cover		UPL species	^	5 =
	Herb Stratum	(Plot size: <u>5 ft dia</u>)				Column Totals:	(A)(B)
1.	Agrostis capillaris			75%	yes	FAC	Prevalence Index = B/A =		
2. 3	Anthoxanthum odor Holcus lanatus	ratum	<u> </u>	<u>15</u> 10		FACU FAC			
4.	- Holde Handlee					17.0	Hydrophytic Vegetation	n Indicators:	
5. 6							Rapid Test	for Hydrophytic	Vegetation
0. 7.							Prevalence	Index is <3.0 ⁽¹⁾	1
8.						<u> </u>	Morphologic	al Adaptations	⁽¹⁾ (Provide supporting
9. 10.			<u> </u>				Wetland No	iarks or on a se n-Vascular Pla	nts ⁽¹⁾
11.							Problematic	Hydrophytic V	egetation ⁽¹⁾ (Explain)
				100%	= Total Cover		(1) Indicator	s of hydric soil	and wetland hydrology
	Woody Vine Stratur	m (Plot size:)				must be pre	sent, unless di	sturbed or problematic.
)						
1. 2.				······			Hydrophytic Vegetation		
					- Total Cover		Present?	Yes	x No
					= Total Cover				
	% Bare Ground in H	Herb Stratum	<u> </u>						
-	Remarks:						1		
l I									

SP-9

Profile Des	cription: (Des	cribe to the	depth needed to doo	cument the i	ndicator of c	onfirm the abse	nce of indicators.)				
Denth	Matrix		Redox Festures								
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Rer	narks	
0-9	10YR 3/2	99	10YR 4/4	1	С	PL	sicl		1% OR		
9-14	10YR 3/2	95%	10YR 4/4	5	C	M	sicl				
14-21	10YR 4/2	95%	10YR 5/4	5	<u> </u>	M	Cl				
	·					·	·				
(1)Type: C=	Concentration,	D=Depletior	n, RM=Reduced Matri	x, CS=Cover	ed of Coated	Sand Grains. (2)I	Location: PL=Pore Linin	ig, M=Matrix.			
Hydric Soil	Indicators: (A	pplicable to	o all LRRs, unless ot	herwise not	ed.)		Indicators of Proble	matic Hydric	Soils(3).		
	Histosol (A1)		-		Sandy Redo	ox (S5)		2 cm Muck (A	10)		
	Black Histic (lon (A2) (A3)	-		Stripped Ma	trix (S6) kv Mineral (F1)		Red Parent N Other (Explai	n in Remarks)		
	Hydrogen Su	llfide (A4)	-		(except MLF	RA 1)			in in tomanio,		
	Depleted Bel	ow Dark Sur	face (A11)		Loamy Gley	ed Matrix (F2)	(3) indicators of byd	Ironhytic veget	ation		
	Sandy Mucky	/ Mineral (S1)		Redox Dark	Surface (F6)	and wetland hydrold	ogy must be pr	esent,		
	Sandy Gleye	d Matrix (S4))		Depleted Da Redox Depr	ark Surface (F7) essions (F8)	unless disturbed or	problematic.			
Restrictive	layer (if prese	nt):									
Type:											
Depth (inc	hes):						Hydric Soil Present?	Yes		No	x
Bomarka:											
	OGY										
Wetland Hy	drology Indica	ators:						0	dia tang (0 ang		
Primary Indi	cators (minimu	m of one rec	quired: (check all that a	apply)	_			Secondary In	dicators (2 or r	nore required)	
	Surface Wate	er (A1)	-		Water Stain	ed Leaves (B9) (e	except MLRA		Water Stained	Leaves (B9) (ML	RA 1,2,
	High Water I Saturation (A	able (A2)	-		1,2,4A, an Salt Crust (F	d 4B) 311)			4A, and 4B) Drainage Patt	erns (B10)	
	Water Marks	(B1)	-		Aquatic Inve	ertebrates (B13)			Dry-Season W	/ater Table (C2)	
	Sediment De	posits (B2)	-		Hydrogen S Ovidized Rh	ulfide Odor (C1)	Living Roots (C3)	. <u> </u>	Saturation Vis	ible on Aerial Imagonition (D2)	gery (C9)
	Algal Mat or	Crust (B4)	-		Presence of	Reduced Iron (C	4)		Shallow Aquita	ard (D3)	
	Iron Deposits	(B5) Creake (B6)	-		Recent iron	Reduction in Tille	d Soils (C6)		FAC-Neutral T	est (D5)	•
	Inundation Vi	isible on Aeri	ial imagery (B7)		Other (Expl	ain in Remarks)	(LKK A)		Frost-Heave F	lummocks (D7)	H)
	Sparsely Veg	getated Conc	cave Surface (B8)			,				. /	
Field Obser	rvations:										
Surface Wat	ter Present?	Yes	i	No	x	Depth (inches):		Wetland Hyd	Irology Presei	nt?	
Water Table	Present?	Yes	3	No	х	Depth (inches):		Yes		No	x
Saturation P (includes ca	Present? pillary fringe)	Yes	3	No	x	Depth (inches):					
Describe Re	ecorded Data (s	stream gauge	e, monitoring well, aer	ial photos, p	revious inspec	ctions), if available	e:				
Remarks:											
US Army Cor	ps of Engineers							Western Moun	tains, Valleys an	d Coast - Version 2.	0

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanor	ı		State:	OR		Sampling Point:	SP-10	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W		
	Landform (terrace,	terrace, etc.):	terrace Lo	ocal relie	f (concave, cor	ivex, none):	concave		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44.	.529142° N	Long:	-123.933778° W	Datum: HAR	N NAD83
	Soil Map Unit N	lame: Clacka	imas variant silt loam	-		NWI class	ification:	upland		
	Are Climatic / hvdro	logic conditions	on the site typical for this t	ime of v	ear?	Yes:	×	No:	(If no	explain in remarks)
		Soil	or Hydrology		Significantly di	sturbed?	Are"Normal C	ircumstances" present?	(Ves v	No
		301							103	
		500				emauc?	(ii needed, ex	plain any answers in Rema	irks.)	
	SUMMARY O	F FINDINGS	- Attach site map	show	ring sampli	ing point loc	ations, tra	ansects, important	features, etc	
	Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology	ation Present? ? Present?	Yes x Yes x Yes x	No No No		Is the Sample	d Area within	a Wetland? Yes	x	No
	Remarks:	Plot located in v	wetland adjacent to small t	errace o	n north end of	TL 2804				
				on abo o						
	VEGETATION	I - Use scien	itific names of plan	ts.	Absolute	Dominant	Indicator	Dominance Test Works	heet:	
	Tree Stratum	(Plot size:	30 ft dia)	% Cover	Species?	Status	Number of Dominant Coo	-i	
1.								That are OBL, FACW, or	FAC:	<u> </u>
2. 3				-				Total Number of Dominar	nt	
4.				-		· ·		Species Across All Strata	:	<u> </u>
						= Total Cover		Percent of Dominant Spe	cies	
	Sanling/Shrub Stra	tum (Plot size:		`				That are OBL, FACW, or	FAC:	(A/B)
	Saping/Shilub Stra	<u>ium (Fiol Size.</u>)						
1. 2						· ·		Prevalence Index works	heet:	Multiply by:
3.						· ·		OBL species	x 1 =	
4.				•				FACW species	x 2 =	·
5.				•				FAC species	x 3 = x 4 =	·
						= Total Cover		UPL species	x 5 =	
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(A)	(B)
1.	Agrostis capillaris				75%	yes	FAC	Prevalence Index = B/A =		
2.	Anthoxanthum odo	ratum			15		FACU			
3.	Hypochaeris radica	ita			10		FACU			
4. 5				•		· ·		Hydrophytic Vegetation	Indicators:	antation
5. 6				•		· ·		x Dominance	Fest is >50%	getation
7.				•		· ·		Prevalence I	ndex is <3.0 ⁽¹⁾	
8.								Morphologic	al Adaptations ⁽¹⁾ (Provide supporting
9.						·		data in Rem	arks or on a sepai	rate sheet)
10.								Wetland Nor	-Vascular Plants	••••
11.				•		· ·		Problematic	Hydrophytic Vege	tation (Explain)
					100%	= Total Cover		(1) Indicators	s of hydric soil and	d wetland hydrology
	Woody Vine Stratu	m (Plot size:)				must be pres	sent, unless distur	bed or problematic.
	, , , , , , , , , , , , , , , , ,	_ 、						Underset 1		
1. 2.								Hydrophytic Vegetation		
						- Total Cover		Present?	Yes <u>x</u>	No
						- Total Cover				
	% Bare Ground in I	Herb Stratum		-						
	Remarks:							1		

SP-10

SOIL								
Profile Des	cription: (Desc	cribe to the	depth needed to docu	ument the	indicator of c	onfirm the abser	nce of indicators.)	
Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0-7 7-12	10YR 3/2	95%	10YR 4/4	5	C	м	SICI	
12-20	10YR 4/2	94%	10YR 4/4	6	C	M	sicl	
-					· <u> </u>			
(1) Turnet C=	Concentration	D=Doplatio	- DM-Doducod Matrix	CS=Covo	rad of Coatad	Sand Crains (2)	agation: DI = Dara Lin	
(1)Type. C-	-Concentration,	D-Depletion	n, RM-Reduced Matrix,	, 03-00/8	red of Coaled	Sanu Grains. (2)		ing, m–manx.
Hydric Soil	Indicators: (A	pplicable to	o all LRRs, unless othe	erwise not	ed.)		Indicators of Problem	ematic Hydric Soils(3).
	History (A1)				Sandy Dada	(SE)		2 om Music (A10)
	Histic Epiped	on (A2)	—		Stripped Ma	trix (S6)		Red Parent Material (TF2)
	Black Histic (A3)	_		Loamy Mucl	ky Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Su	lfide (A4)	faaa (A11)		(except MLF	RA 1)		
X	Thick Dark Si	urface (A12)	ace (ATT)		Depleted Ma	ed Matrix (F2) atrix (F3)	(3) indicators of hy	drophytic vegetation
	Sandy Mucky	/ Mineral (S	1)	х	Redox Dark	Surface (F6)	and wetland hydro	logy must be present,
	Sandy Gleye	d Matrix (S4)		Depleted Da	ark Surface (F7)	unless disturbed o	r problematic.
			_		Redox Depr	essions (F8)		
Restrictive	layer (if prese	nt):						
lype:								
Depth (inc	ches):						Hydric Soil Presen	t? Yes x No
Remarks.								
	0.01/							
HYDROI		atore:						
Primary Indi	icators (minimu	m of one red	quired: (check all that a	(vlqa				Secondary Indicators (2 or more required)
					_			
	Surface Wate	er (A1)	_		Water Staine	ed Leaves (B9) (e	except MLRA	Water Stained Leaves (B9) (MLRA 1,2,
	_ High Water I Saturation (A	able (A2)	_		1,2,4A, an Salt Crust (F	0.4B) 311)		4A, and 4B) Drainage Patterns (B10)
	Water Marks	(B1)			Aquatic Inve	ertebrates (B13)		Dry-Season Water Table (C2)
	Sediment De	posits (B2)	—		Hydrogen Si	ulfide Odor (C1)		x Saturation Visible on Aerial Imagery (C9)
	Drift Deposits	8 (B3) Crust (B4)	_		Oxidized Rh Presence of	Zospheres along	Living Roots (C3)	x Geomorphic Position (D2) Shallow Aquitard (D3)
	Iron Deposits	6 (B5)	-		Recent iron	Reduction in Tille	d Soils (C6)	FAC-Neutral Test (D5)
	Surface Soil	Cracks (B6)			Stunted or S	Stressed Plants (D	1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
	Inundation Vi	sible on Aer	ial imagery (B7)		Other (Expl	ain in Remarks)		Frost-Heave Hummocks (D7)
	_ Sparsely veg		Lave Surrace (Bo)					
Field Obse	rvations:							
Surface M/-	tor Proport?	Ve		Me	v	Denth (inchas):		Watland Hydrology Present?
Surface vVa	iter Fresent?	res	·	INO	X	Depth (inches):		
Water Table	e Present?	Yes	3	No	x	Depth (inches):		Yes <u>x</u> No
Coturation 5	Dracant ⁰	V-		N I -		Donth (inchast)		
Saturation F	Present? apillary fringe)	Yes	<u> </u>	NO	X	Deptn (inches):		-
	,							
Describe Re	ecorded Data (s	stream gaug	e, monitoring well, aeria	al photos, p	revious inspec	ctions), if available	e:	
Remarks:								
US Army Cor	ps of Engineers							Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industrial			City/County:	Lebanon/Linn		Sampling Date :	8/14/2017		
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-11		
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W			
	Landform (terrace,	terrace, etc.): te	errace Lo	cal relie	f (concave, cor	nvex, none):	none		Slope (%):		0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum:	OR State Pla	ane N HARN NAD 83
	Soil Map Unit N	lame: Clackama	as variant silt loam			NWI class	ification:	upland			
	Are Climatic / bydro	logic conditions on	the site typical for this ti	me of ve	ar?	Yes:	¥	No:		(If no expla	in in remarks)
	Are Vegetation	Social Social	or Hydrology		Significantly di	inturbod?	Aro"Normal C	licoumotonoon" propont?	-		No
	Are vegetation	3011							res_	<u>x</u>	NU
	Are vegetation	5011	or Hydrology		Naturally prob	iematic?	(If needed, ex	cplain any answers in Rem	arks.)		
	SUMMARY O	F FINDINGS -	Attach site map	show	ing sampli	ing point loc	ations, tr	ansects, important	features,	etc.	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes x Yes x	No No		Is the Sampled	l Area within a	Wetland?			
	Wetland Hydrology	Present?	Yes x	No				Yes	<u>x</u>		No
	Remarks:	Plot located on we	est side of small upland t	errace a	t north end of	TL2804.					
	VEGETATION	I - Use scienti	fic names of plan	ts.							
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant	Indicator Status	Dominance Test Works	sheet:		
	<u>nec otratum</u>	(1 101 3120.)		opecies:	Otatus	Number of Dominant Sp	ecies		
1. 2.				-				That are OBL, FACW, or	FAC:		<u>2</u> (A)
3.				-				Total Number of Domina	nt		2 (D)
4.				-				Species Across All Strate	d.		<u>2</u> (B)
				-		= Total Cover		Percent of Dominant Spe That are OBL, FACW, or	ecies FAC:		100 (A/B)
	Sapling/Shrub Stra	tum (Plot size:)				,,.			()
1.				-				Prevalence Index work	sheet:		
2. 3				-				Total % Cover of:		Mult	iply by:
4.				-				FACW species		x 2 =	
5.				-		·		FAC species FACU species	·	x 3 = x 4 =	
						= Total Cover		UPL species		x 5 =	
	Herb Stratum	(Plot size: 5	ft dia)				Column Lotals:		(A)	(B)
1.	Agrostis capillaris	dinaceus		-	70%	yes	FAC	Prevalence Index = B/A			
2. 3.	Schedonourus arun	luinaceus		•	30	yes	FAC				
4. 5.				-		·		Hydrophytic Vegetation Rapid Test	n Indicators: for Hydrophyti	c Vegetatio	n
6.				-				x Dominance	Test is >50%	1)	
7. 8.				-		·		Prevalence Morphologic	Index is <3.0 cal Adaptation	s ⁽¹⁾ (Provid	e supporting
9.								data in Rem	arks or on a s	eparate sh	eet)
10. 11.	·			-		·		Wetland No Problematic	n-Vascular Pl Hydrophytic '	ants ⁽¹⁾ Vegetation ⁽	(1) (Explain)
				-	100%	Tatal Oaura		(4) In dia star			and builden to an
				-	100%			(1) Indicatol must be pre	s of nyaric so sent, unless c	li and wetia	problematic.
	Woody Vine Stratu	m (Plot size:)							
1.								Hydrophytic			
2.				-		·		Vegetation Present?	Yes	x	No
				-		= Total Cover					
	% Bare Ground in I	Herb Stratum									
_	Remarks:										
	KomarNa.										

SP-11

Depth								
Dopul	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0-6	10YR 3/2	100					sicl	
6-11	10YR 3/2	95%	10YR 4/6	5	С	М	sicl	
11-19	10YR 3/2	90%	10YR 4/6	10	С	M	sicl	
	· ·							
	· ·							
(1)Type: C=	Concentration,	D=Depletior	n, RM=Reduced Matrix	, CS=Cover	ed of Coated	Sand Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.
Hydric Soil	Indicators: (A)	pplicable to	all LRRs, unless oth	erwise not	ed.)		Indicators of Proble	ematic Hydric Soils(3).
	Histopol (A1)				Sandy Dad	ov (SE)		2 om Muck (A10)
	Histic Epipedo	on (A2)	-		Stripped Ma	atrix (S6)		Red Parent Material (TF2)
	Black Histic (A	A3) ´	-		Loamy Muc	ky Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Sul	lfide (A4)	face (A11)		(except MLI	RA 1)		
	Thick Dark Su	urface (A12)			Depleted M	atrix (F3)	(3) indicators of hy	drophytic vegetation
	Sandy Mucky	Mineral (S1)	х	Redox Dark	Surface (F6)	and wetland hydrol	logy must be present,
	Sandy Gleyed	d Matrix (S4) _		Depleted Da	ark Surface (F7)	unless disturbed or	problematic.
			-		Redux Depi			
Restrictive	layer (if preser	nt):						
Type:								
Denth (in a								
Depth (Inc	nes):		<u> </u>				Hydric Soli Present	? Yes <u>x</u> No
Remarks:								
	0.01/							
HYDROL Wetland Hy		ators:						
HYDROL Wetland Hy Primary Indi	-OGY /drology Indica icators (minimur	ators: m of one rec	uired: (check all that a	ipply)				Secondary Indicators (2 or more required)
HYDROL Wetland Hy Primary Indi	_OGY /drology Indica icators (minimur	ators: m of one rec	uired: (check all that a	ipply)	- Water Stain	ed Leaves (B9) (e	except MI RA	Secondary Indicators (2 or more required) Water Stained Leaves (89) (MLRA 1 2
HYDROL Wetland Hy Primary Indi	_OGY /drology Indica icators (minimur Surface Wate High Water Ta	ators: m of one rec er (A1) able (A2)	uired: (check all that a	ipply)	- Water Stain 1,2,4A, ar	ed Leaves (B9) (¢ d 4B)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B)
HYDROL Wetland Hy Primary Indi	LOGY Adrology Indica icators (minimur Surface Wate High Water Ta Saturation (A:	ators: m of one rec r (A1) able (A2) 3)	uired: (check all that a	ipply)	- Water Stain 1,2,4A, ar Salt Crust (I	ed Leaves (B9) (6 nd 4B) B11)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10)
HYDROL Wetland Hy Primary Indi	LOGY derology Indications cators (minimur Surface Wate High Water Ta Saturation (A: Water Marks) Sediment Der	ators: m of one rec r (A1) able (A2) 3) (B1) onseits (B2)	uired: (check all that a - - - -	ipply)	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Invo Hydrogen S	ed Leaves (B9) (6 Id 4B) B11) ertebrates (B13)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x
HYDROL Wetland Hy Primary Indi	LOGY varology Indication icators (minimur Surface Wate High Water Ta Saturation (A' Water Marks Sediment Dep Drift Deposits	ators: m of one rec or (A1) able (A2) 3) (B1) posits (B2) (B3)	uired: (check all that a - - - - - -	ipply)	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Invv Hydrogen S Oxidized Rł	ed Leaves (B9) (é id 4B) B11) ertebrates (B13) uifde Odor (C1) nizospheres along	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Geomorphic Position (D2)
HYDROL Wetland Hy Primary Indi	LOGY rdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C	ators: m of one rec rr (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4)	uired: (check all that a - - - - - - - -	ipply)	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Invo Hydrogen S Oxidized Rł Presence o	ed Leaves (B9) (e nd 4B) B11) ertebrates (B13) iulfide Odor (C1) nizospheres along f Reduced Iron (C	except MLRA g Living Roots (C3) 4)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3)
HYDROL Wetland Hy Primary Indi	LOGY rdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Sail (C	ators: m of one rec rr (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Crust (B4)	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ipply)	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Invo Hydrogen S Oxidized RI Presence o Recent iron Sciented ac	ed Leaves (B9) (e nd 4B) B11) euffotates (B13) iulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille	except MLRA g Living Roots (C3) (4) ed Soils (C6)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Drainage (D1) (LPR A)
HYDROL Wetland Hy Primary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ti Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or O Iron Deposits Surface Soil O Inundation Vis	ators: m of one rec r (A1) able (A2) 3) (B1) possits (B2) (B3) Crust (B4) (B5) Crusts (B6) sible on Aer	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ipply)	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Invi Hydrogen S Oxidized Rł Presence o Recent iron Stunted or S Other (Exp	ed Leaves (B9) (e nd 4B) B11) ertebrates (B13) iulfide Odor (C1) nizospheres along f Reduced Iron (C Reduced Iron (C Reduced Plants (I lain in Remarks)	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROL Wetland Hy Primary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ti Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or Iron Deposits Surface Soil (Inundation Vis Sparsely Veg	tors: m of one reconstructions: m (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ipply)	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Inve Hydrogen S Oxidized RH Presence o Recent iron Stunted or S Other (Exp	ed Leaves (B9) (6 d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (I lain in Remarks)	except MLRA g Living Roots (C3) 4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required)
HYDROL Wetland Hy Primary Indi	LOGY Adrology Indicators (minimur Surface Wate High Water Ta Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg Trations:	ators: m of one rec rr (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ipply)	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Inve Hydrogen S Oxidized RI Presence o Recent iron Stunted or S Other (Exp	ed Leaves (B9) (e nd 4B) B11) ertebrates (B13) iulfide Odor (C1) nizospheres along f Reduced Iron (C Reduced Iron (C Reduction in Tille Stressed Plants (E lain in Remarks)	except MLRA 9 Living Roots (C3) 4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) X Saturation Visible on Aerial Imagery (C X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROL Wetland Hy Primary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ti Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or Iron Deposits Surface Soil (Inundation Vis Sparsely Veg rvations: ter Present?	ators: m of one reconstructions rr (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Concost Yes	uired: (check all that a - - - - - - - - - - - - - - - - - - -	npply)	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Inve Hydrogen S Oxidized RH Presence or Stunted or S Other (Exp	ed Leaves (B9) (e d 4B) B11) ertebrates (B13) iulfide Odor (C1) iizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (I lain in Remarks) Depth (inches):	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required)
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HYDROL Wetland Hy Primary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ti Saturation (A: Water Marks Sediment Dep Drift Deposits Algal Mat or Iron Deposits Surface Soil (C Inundation Vis Sparsely Veg rvations: ter Present? Present?	ators: m of one reconstructions able (A2) 3) (B1) possits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Concost Yes Yes	ial imagery (B7)	No	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Inve Hydrogen S Oxidized RI Presence o Recent iron Stunted or S Other (Exp	ed Leaves (B9) (e Id 4B) B11) ertebrates (B13) iulfide Odor (C1) izospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (I lain in Remarks) Depth (inches): Depth (inches):	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required)
HYDROL Wetland Hy Primary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A: Water Marks - Sediment Deposits Sediment Deposits Surface Soil C Inon Deposits Surface Soil C Inundation Vis Sparsely Veg vations: ter Present? Present? pillary fringe)	ators: m of one rec or (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes Yes	ial imagery (B7)	No No No	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Inve Hydrogen S Oxidized RH Presence or Recent iron Stunted or S Other (Exp x x x	ed Leaves (B9) (e d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (I lain in Remarks) _ Depth (inches): _ Depth (inches): _ Depth (inches):	except MLRA 9 Living Roots (C3) 4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x Yes x
HYDROL Wetland Hy Primary Indi	-OGY varology Indica icators (minimur Surface Wate High Water Ta Saturation (A' Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg rvations: ter Present? Present? ppillary fringe) ecorded Data (s'	ators: m of one reconstructions able (A2) (B1) possits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Concost Yes Yes Yes	ial imagery (B7) ave Surface (B8)	No No No No	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Invo Hydrogen S Oxidized RP Presence o Recent iron Stunted or S Other (Exp x x x	ed Leaves (B9) (e Id 4B) B11) ertebrates (B13) iulfide Odor (C1) izospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (I lain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches):	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x Yes x
HYDROL Wetland Hy Primary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks - Sediment Deg Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg rvations: ter Present? Present? Present? pillary fringe)	ators: m of one rec r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes Yes Yes	iuired: (check all that a 	No No No No	Vater Stain 1,2,4A, ar Salt Crust (I Aquatic Inve Hydrogen S Oxidized RH Presence o Recent iron Stunted or S Other (Exp x x x x	ed Leaves (B9) (6 d 4B) B11) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (I lain in Remarks) _ Depth (inches): _ Depth (inches): _ Depth (inches): _ tions), if availabl	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROL Wetland Hy Primary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A: Water Marks - Sediment Deposits Surface Soil C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg vations: ter Present? Present? pillary fringe) accorded Data (si	ators: m of one rec rr (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes Yes Yes Yes	ial imagery (B7) ave Surface (B8)	No No No No No	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Inve Hydrogen S Oxidized RH Presence or Recent iron Stunted or S Other (Exp 	ed Leaves (B9) (e d 4B) B11) ertebrates (B13) ulfide Odor (C1) izospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (I lain in Remarks) _ Depth (inches): _ Depth (inches): _ Depth (inches): ctions), if availabl	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A) e:	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x
HYDROL Wetland Hy Primary Indi	-OGY vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A: Water Marks - Sediment Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg rvations: ter Present? Present? Present? pillary fringe) ecorded Data (si	ators: m of one rec rr (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes Yes Yes tream gauge	ial imagery (B7) ave Surface (B8)	No No No No al photos, pi	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Inve Hydrogen S Oxidized RP Presence o Recent iron Stunted or S Other (Exp x x x	ed Leaves (B9) (e d 4B) B11) ertebrates (B13) iulfide Odor (C1) izospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (D lain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches):	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A) e:	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x
HYDROL Wetland Hy Primary Indi	-OGY drology Indica icators (minimur Surface Wate High Water Ta Saturation (A: Water Marks - Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil (C Inundation Vis Sparsely Veg rvations: ter Present? Present? pillary fringe) scorded Data (score)	ators: m of one reconstructions rr (A1) able (A2) 3) (B1) possits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Concost Yes Yes Yes tream gauge	ial imagery (B7) ave Surface (B8)	No No No No	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Inve Hydrogen S Oxidized RI Presence o Recent iron Stunted or S Other (Exp 	ed Leaves (B9) (e d 4B) B11) ertebrates (B13) iulfide Odor (C1) izospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (I lain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches):	except MLRA J Living Roots (C3) 4) d Soils (C6) D1) (LRR A) e:	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x
HYDROL Wetland Hy Primary Indi	-OGY varology Indica icators (minimur Surface Wate High Water Ta Saturation (A' Water Marksi Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg rvations: ter Present? pillary fringe) ecorded Data (so	ators: m of one reco r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes Yes Yes tream gauge	ial imagery (B7) ave Surface (B8)	No No No al photos, pr	Water Stain 1,2,4A, ar Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rł Presence o Recent iron Stunted or S Other (Exp x x x	ed Leaves (B9) (6 d 4B) B11) ertebrates (B13) iulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (I lain in Remarks) _ Depth (inches): _ Depth (inches): _ Depth (inches): _ tions), if availabl	except MLRA j Living Roots (C3) 4) ad Soils (C6) D1) (LRR A) e:	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

	Project/Site:	Airport Industrial			City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-12	
	Investigator(s):	A. Martin			Section, Town	iship, Range:	16, T12S, R0	2W		
	Landform (hillslope	, terrace, etc.): terrac	xe Lo	ocal relie	ef (concave, co	nvex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Lona:	-123.933778° W	Datum: H	ARN NAD83
	Soil Man Unit N	lame: Clackamas va	ariant silt loam	-		NWI class	sification:	upland		
	Are Climatic / bydro	plogic conditions on the	site typical for this t	ime of v	ear?	Vec:	v	No:	(1	no explain in remarks)
				inte or y		i co	^ ^			
	Are Vegetation	Soll	or Hydrology		Significantly d	isturbed?	Are"Normal C	Circumstances" present?	Yes	<u>x No</u>
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e)	xplain any answers in Rem	arks.)	
	SUMMARY O	F FINDINGS - At	tach site map	show	ving sampl	ing point loc	ations, tr	ansects, important	features, e	tc.
	Hydrophytic Vegeta	ation Present?	Yes x	No		la tha Samala	d Aroo within	a Watland?		
	Wetland Hydrology	Present?	Yes	No	<u>x</u> x	is the Sample	u Alea within	Yes	š	No <u>x</u>
	Remarks:	Plot located in small up	pland terrace at nor	th end c	of TL 2804					
	VEGETATION	L. Use scientific i	names of plan	ite						
	VEGETATION	- Use scientine i			Absolute	Dominant	Indicator	Dominance Test Works	sheet:	
	Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Dominant Sp	ecies	
1.				-		·		That are OBL, FACW, o	FAC:	<u>2</u> (A)
2. 3.				-		·		Total Number of Domina	int	
4.				-				Species Across All Strat	a:	<u>2</u> (B)
						= Total Cover		Percent of Dominant Sp	ecies	
	Conling/Chruh Strad			`		-		That are OBL, FACW, o	FAC:	100 (A/B)
	Sapling/Shrub Strai			_)						
1.				-				Prevalence Index work	sheet:	Multiply by:
2. 3.				-		·		OBL species	x	1 =
4. 5				-				FACW species	x	2 =
5.				-		- <u> </u>		FACU species	x	4 =
	Lineb Otracture		_	`		= Total Cover		UPL species	×	5 =(D)
	Herb Stratum	(Plot size: 5 ft di	а	_)				Column Totals:	(A	(B)
1.	Agrostis capillaris			-	65%	yes	FAC	Prevalence Index = B/A		
2. 3	Schedonorus aruno	dinaceus ata		-	5	yes	FAC FACU	-		
4.	Daucus carota			-	5		FACU	Hydrophytic Vegetatio	n Indicators:	
5. 6				-				Rapid Test	for Hydrophytic	Vegetation
о. 7.				-		·		<u>x</u> Dominance Prevalence	Index is <3.0 ⁽¹⁾	
8.				-				Morphologi	cal Adaptations	1) (Provide supporting
9.				-				data in Ren	narks or on a se	parate sheet)
10				-				Wetland No	n-Vascular Plar	its ⁽¹⁾
	·			-				Problematic		getation (Explain)
					100%	= Total Cover		(1) Indicato	rs of hydric soil a	and wetland hydrology
	Woody Vine Stratur	m (Plot size:)				must be pre	esent, unless dis	turbed or problematic.
1. 2.				-				Hydrophytic Vegetation		
Ľ				-				Present?	Yes	x No
						= I otal Cover				
	% Bare Ground in F	Herb Stratum		-						
	% Bare Ground in H	Herb Stratum		-						
	% Bare Ground in H Remarks:	Herb Stratum		-						
	% Bare Ground in H Remarks:	Herb Stratum		-						

SP-12

I											
Depth	Matrix		Redox Features				<u>.</u>				
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture		Remarks		
0-9	10YR 3/2	100					sicl				
9-14	10YR 3/2	95%	10YR 4/4	5	C	M	sicl				
14-20	10YR 3/2	90%	10YR 4/4	10	C	M	SICI				
							·				
(1)T	Concentration		- DM-Deduced Metric			Cand Crains (2)	a antione DI - Dana Linie	- M-Matrix			
(1)Type. C=0			I, RM-Reduced Math	x, CS-COve	ed of Coaled	Sanu Grains. (2)	Location. PL-Pore Linii	ig, wi–iviatrix.			
Hydric Soil	Indicators: (Ap	plicable to	o all LRRs, unless oth	nerwise not	ed.)		Indicators of Proble	matic Hydric Soils(3).		
	Histosol (A1)				Sandy Redo	x (S5)		2 cm Muck (A10)			
	Histic Epipedo	on (A2)	-		Stripped Ma	trix (S6)		Red Parent Material	(TF2)		
ļ	Black Histic (A	(3)	-		Loamy Muck	y Mineral (F1)		Other (Explain in Re	marks)		
	Hydrogen Sult Depleted Belo	iide (A4) w Dark Sur	face (A11)		(except MLF	(A 1) ed Matrix (F2)					
	Thick Dark Su	rface (A12)			Depleted Ma	atrix (F3)	(3) indicators of hyd	drophytic vegetation			
	Sandy Mucky	Mineral (S1	l)		Redox Dark	Surface (F6)	and wetland hydrol	ogy must be present,			
<u> </u>	Sandy Gleyed	Matrix (54) _		Redox Depr	essions (F8)	unless disturbed or	problematic.			
		0	_		- P.	· -/					
Restrictive	layer (if presen	it):									
Туре:											
Donth (inc	haa);						Hudria Sail Dracant	2 Yee		la	v
Depth (Incl	nes):						Hydric Soll Present	r res	N	10	X
Remarks:											
HYDROL	.OGY										
HYDROL Wetland Hy Primary India	.OGY drology Indica: cators (minimun	tors: n of one rec	quired: (check all that a	apply)				Secondary Indicators	s (2 or more req	uired)	
HYDROL Wetland Hy Primary Indic	.OGY drology Indica cators (minimun	tors: n of one rec	quired: (check all that a	apply)	-			Secondary Indicators	s (2 or more req	uired)	
HYDROL Wetland Hy Primary Indic	.OGY drology Indica cators (minimun Surface Water Hinh Water Ta	tors: n of one rec r (A1) able (A2)	quired: (check all that a	apply)	- Water Staind	ed Leaves (B9) (e	except MLRA	Secondary Indicators	s (2 or more req Stained Leaves nd 4B)	uired) (B9) (MLF	RA 1,2,
HYDROL Wetland Hy Primary Indic	OGY drology Indica cators (minimun Surface Water High Water Ta Saturation (A3	tors: n of one rec r (A1) able (A2) 3)	uired: (check all that a - - -	apply)	- Water Staina 1,2,4A, an Salt Crust (E	ed Leaves (B9) (e d 4B) 11)	except MLRA	Secondary Indicators	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1)	uired) (B9) (MLF 0)	RA 1,2,
HYDROL Wetland Hy Primary Indid	OGY drology Indicat cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (tors: n of one rec r (A1) able (A2) 3) B1)	uired: (check all that a - - - - -	apply)	Water Staina 1,2,4A, an Salt Crust (E Aquatic Inve	ed Leaves (B9) (e d 4B) 11) rtebrates (B13)	xcept MLRA	Secondary Indicators Water 4A, a Draina Dry-Se	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1 ason Water Tat	uired) (B9) (MLF 0) 0) (C2)	RA 1,2,
HYDROL Wetland Hy Primary Indid	OGY drology Indicat cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Deposits Driff Deposits	tors: n of one rec r (A1) able (A2) b) B1) sosits (B2) (B3)	uired: (check all that a - - - - - - -	apply)	Water Staind 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Bh	ed Leaves (B9) (e d 4B) 111) rtebrates (B13) ulfide Odor (C1) izosnberes along	except MLRA	Secondary Indicators Water 4A, a Draina Dry-Se Satura Geome	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1 ason Water Tat tion Visible on A probic Position (uired) (B9) (MLF 0) ble (C2) verial Imag D2)	RA 1,2, gery (C9)
HYDROL Wetland Hy Primary India	OGY drology Indicat cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	tors: n of one red r (A1) able (A2) able (A2) bl) B1) oosits (B2) (B3) crust (B4)	uired: (check all that a - - - - - - - - -	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen Sü Oxidized Rh Presence of	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) Jifide Odor (C1) izospheres along Reduced Iron (C	except MLRA Living Roots (C3)	Secondary Indicators Water 4A, ai Draina Dry-Se Satura Geomo Shalloo	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1 iason Water Tat tion Visible on A orphic Position (w Aquitard (D3)	uired) (B9) (MLF 0) ole (C2) verial Imag D2)	RA 1,2, gery (C9)
HYDROL Wetland Hy Primary Indic	OGY drology Indicat cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	tors: n of one rec r (A1) able (A2) B1) oosits (B2) (B3) grust (B4) (B5)	uired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Stain 1,2,4A, an Salt Crus (IE Aquatic Inve Hydrogen SI Oxidized Rh Presence of Recent iron	ed Leaves (B9) (e d 4B) 111) rtebrates (B13) lifide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille	Except MLRA Living Roots (C3) 4) d Soils (C6)	Secondary Indicators Water 4A, ai Draina Dry-Se Satura Geomo Shalloo FAC-N	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1 ason Water Tat tion Visible on A orphic Position (i w Aquitard (D3) eutral Test (D5)	uired) (B9) (MLF 0) ole (C2) erial Imag D2)	RA 1,2, gery (C9)
HYDROL Wetland Hy Primary India	OGY drology Indica cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil Surface Soil Inundation Vis	tors: n of one rec r (A1) able (A2) B1) oosits (B2) (B3) rrust (B4) (B5) cracks (B6) ible on Aer	juired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Stains 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent iron Stunted or S Other (Exol	ed Leaves (B9) (e d 4B) 111) rtebrates (B13) Ilfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (C an in Remarks)	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators Water 4A, ai Draina Dry-Se Satura Geomo Shalloo FAC-N Raised Frost-F	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1 vason Water Tat tion Visible on A orphic Position (i w Aquitard (D3) eutral Test (D5) I Ant Mounds (D5) I Ant Mounds (D5)	uired) (B9) (MLF 0) ole (C2) erial Imaç D2) 6) (LRR A 6) (LRR A 5 (D7)	RA 1,2, gery (C9)
HYDROL Wetland Hy Primary India	OGY drology Indica cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege	tors: n of one rec r (A1) able (A2) B1) posits (B2) (B3) strust (B4) (B5) (B5) rracks (B6) bible on Aer etated Conc	quired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Staint 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) i11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks)	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators 4A, ai Draina Dry-Se Satura Geomo Shalloo FAC-N Raised Frost-h	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1) ason Water Tat tion Visible on A orphic Position (w Aquitard (D3) eutral Test (D5) I Ant Mounds (D leave Hummock	uired) (B9) (MLF 0) (C2) erial Imag D2) 6) (LRR A (s) (D7)	RA 1,2, gery (C9)
HYDROL Wetland Hy Primary India	OGGY drology Indicat cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations:	tors: n of one rec r (A1) able (A2) B1) sosits (B2) (B3) (B3) (B3) rrust (B4) (B5) cracks (B6) ible on Aer etated Conc	uired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Staind 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 111) rtebrates (B13) Jifide Odor (C1) Jizospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks)	Except MLRA Living Roots (C3) 4) d Soils (C6) 91) (LRR A)	Secondary Indicators 4A, a Draina Dry-Se Satura Geomo Shalloo FAC-N Raised Frost-F	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1 ason Water Tat tion Visible on A orphic Position (w Aquitard (D3) eutral Test (D5) Ant Mounds (D leave Hummock	uired) (B9) (MLF 0) le (C2) werial Imag D2) 6) (LRR A 6) (LRR A 6) (LRR A	RA 1,2, gery (C9)
HYDROL Wetland Hy Primary India Primary India Field Obser Surface Wat	OGY drology Indica cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: er Present?	tors: n of one rec r (A1) able (A2) 3) B1) posits (B2) (B3) rrust (B4) (B5) (B5) rracks (B6) bible on Aer etated Conc	quired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Staint 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) i11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches):	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators 4A, ai Draina Dry-Se Satura Geomo Shalloo FAC-N Raised Frost-F	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1 aason Water Tat tion Visible on A orphic Position (i w Aquitard (D3) eutral Test (D5) I Ant Mounds (D leave Hummock Present?	uired) (B9) (MLF 0) le (C2) erial Imaç D2) 6) (LRR A (s (D7)	RA 1,2, gery (C9)
HYDROL Wetland Hy Primary India	OGY drology Indicat cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: er Present?	tors: n of one rec r (A1) able (A2) B1) rosits (B2) (B3) rrust (B4) (B5) rracks (B6) ible on Aer etated Conc Yes	juired: (check all that a 	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent iron Stunted or S Other (Expl x	ed Leaves (B9) (e d 4B) 111) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators Water 4A, al Draina Dry-Se Satura Geomo Shallon FAC-N Raised Frost-H Wetland Hydrology Yes	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1 iason Water Tat tion Visible on A orphic Position (w Aquitard (D3) eutral Test (D5) I Ant Mounds (D Heave Hummock Present?	uired) (B9) (MLF 0) ble (C2) verial Imag D2) 6) (LRR A ks (D7)	RA 1,2, gery (C9)
HYDROL Wetland Hy Primary India	OGY drology Indicat cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Algal Mat or C Inundation Vis Sparsely Vege vations: ter Present?	tors: n of one rec (A1) able (A2) b) B1) osits (B2) (B3) rust (B4) (B5) cracks (B6) ible on Aer etated Conc Yes Yes	quired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen Su Oxidized Rh Presence of Recent iron Stunted or S Other (Expl x	ed Leaves (B9) (e d 4B) 111) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators Water 4A, ai Draina Dry-Se Satura Geomo Shalloo FAC-N Raised Frost-H Wetland Hydrology Yes	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1 ason Water Tat tion Visible on A orphic Position (i w Aquitard (D3) eutral Test (D5) I Ant Mounds (D Heave Hummock Present?	uired) (B9) (MLF 0) ole (C2) erial Imag D2) 6) (LRR A (s (D7)	RA 1,2, gery (C9)
HYDROL Wetland Hy Primary India Primary India Similar States Field Obser Surface Wate Water Table Saturation P (includes cap	OGY drology Indicat cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Algal Mat or C Iron Deposits Sparsely Vege vations: ter Present? Present? pillary fringe)	tors: n of one rec r (A1) able (A2) 3) B31) posits (B2) (B3) rrust (B4) (B3) rrust (B4) (B5) rracks (B6) bible on Aer etated Conc Yes Yes	auired: (check all that a 	apply)	Water Staint 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Expl x x x	ed Leaves (B9) (e d 4B) i11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced ron (C Reduction in Tille ressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators Water 4A, ai Draina Dry-Se Satura Geomo Shalloo FAC-N Raised Frost-H Wetland Hydrology Yes	s (2 or more req Stained Leaves nd 4B) ge Patterns (B1 vason Water Tat tion Visible on A orphic Position (i w Aquitard (D3) eutral Test (D5) I Ant Mounds (D leave Hummock Present?	uired) (B9) (MLF 0) ole (C2) erial Imag D2) 6) (LRR A (S (D7)	RA 1,2, gery (C9)
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	Project/Site:	Airport Industrial			City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-13	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0)2W		
	Landform (hillslope	, terrace, etc.):	terrace L	.ocal relie	f (concave, cor	vex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44.	529142° N	Long:	-123.933778° W	Datum: HA	ARN NAD83
	Soil Map Unit N	lame: Clackan	mas variant silt loam	_		NWI class	sification:	upland	- —	
	Are Climatic / hvdro	plogic conditions of	on the site typical for this	time of v	ear?	Yes [.]	×	No	(If	no explain in remarks)
	Are Vegetation	Soil	or Hydrology	unic of y	Significantly di	sturbed?	Are"Normal (Vec	v No
		301	Or Hydrology		Significantly u				105	<u> </u>
	Are vegetation	501	or Hydrology		Naturally probl	ematic?	(If needed, e	xplain any answers in Rem	arks.)	
	SUMMARY O	F FINDINGS	- Attach site ma	p show	ing sampli/	ng point loo	ations, tr	ransects, important	features, etc	2.
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes x	No No		Is the Sample	d Area within	n a Wetland?		
	Wetland Hydrology	Present?	Yes	No	x			Ye	š	No <u>x</u>
	Remarks:	Plot located on e	east side of small terrace	e in centra	al field. Variety o	of non-native pas	ture grasses v	with weedy patches.		
	VEGETATION	I - Use scient	tific names of pla	nts.						
	Tree Stratum	(Plot size:)	Absolute	Dominant	Indicator	Dominance Test Work	sheet:	
		(FIOUSIZE.		/	/a Cover	Opecies !	Status	Number of Dominant Sp	ecies	
1. 2								That are OBL, FACW, o	r FAC:	<u>2</u> (A)
3.				_				Total Number of Domina	ant	
4.				_				Species Across All Strat	a:	<u> </u>
						= Total Cover		Percent of Dominant Sp	ecies	
	Sapling/Shrub Strat	tum (Plot size:)				That are OBL, FACW, o	r FAC:	<u> 66 </u> (A/B)
				/						
1. 2.				_				Total % Cover of:	sheet:	Multiply by:
3.				_				OBL species	x 1	=
4. 5.				_				FACW species	X 2	2 = 3 =
				_		Tatal Osuar		FACU species	x 4	↓ =
	Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		Column Totals:	X (A)) (B)
4	Sahadanamia aming	diagonus			409/		FAC	Drevelence Index - D/A		
1. 2.	Agrostic capillaris	unaceus		_	40%	yes	FAC	Prevalence index = B/A		
3.	Anthoxanthum odo	ratum		_	20	yes	FACU		n Indiantara	
4. 5.				_				Rapid Test	for Hydrophytic V	egetation
6. 7				_				x Dominance	Test is >50%	
7. 8.				_				Morphologi	cal Adaptations ⁽¹⁾	(Provide supporting
9. 10				_				data in Ren	narks or on a sepa	arate sheet)
11.				_				Problemati	c Hydrophytic Veg	etation ⁽¹⁾ (Explain)
					100%	= Total Cover		(1) Indicato	rs of hydric soil ar	nd wetland hydrology
					10070			must be pre	esent, unless distu	irbed or problematic.
	Woody Vine Stratur	m (Plot size:		_)						
1.				_				Hydrophytic		
2.				_				Vegetation Present?	Yes	x No
						= Total Cover			· · · · <u> </u>	
	% Bare Ground in H	Herb Stratum		_						
	Pomorko:									
	Remarks:									

Depth	rintion: (Docor							
Depth (Inches)		ribe to the	denth needed to do	cument the i	indicator of c	onfirm the abse	nce of indicators)	
Depth (Inches)	inpuon. (Desci	ING IO ING	ueptin needed to do	cument the l	nuicator of C	.ommin the abse	nce of mulcators.)	
(Inches)	Matrix		Redox Features				_	
	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
10	1010 2/2	100					cicl	
0-20	10YR 3/2	95%	10YR 4/4	5	С	M	sicl	
						<u></u>		
						·	• •	
)Type: C=C	Concentration, D	D=Depletio	n, RM=Reduced Mat	rix, CS=Cover	red of Coated	Sand Grains. (2)	Location: PL=Pore Lin	ing, M=Matrix.
ydric Soil I	ndicators: (Ap	plicable to	o all LRRs, unless o	therwise not	ed.)		Indicators of Probl	ematic Hydric Soils(3).
			·		,			
	Histosol (A1)	(10)			Sandy Redo	ox (S5)		2 cm Muck (A10)
	Histic Epipedo	n (A2)			Stripped Ma	itrix (S6) kv Mineral (E1)		_ Red Parent Material (TF2) Other (Explain in Remarks)
	Hvdrogen Sulf	ide (A4)			(except MLF	Ry Milleral (FT)		
	Depleted Belov	w Dark Su	rface (A11)		Loamy Gley	red Matrix (F2)		
	Thick Dark Sur	rface (A12))		Depleted Ma	atrix (F3)	(3) indicators of hy	vdrophytic vegetation
<u> </u>	Sandy Mucky I	Mineral (S	1)		Redox Dark	Surface (F6)	and wetland hydro	ology must be present,
	Salidy Gleyed	Matrix (34	•)		Redox Depr	ressions (F8)	uniess disturbed d	i problematic.
					Redex Depi			
estrictive la	ayer (if presen	t):						
Tunoi								
Type.								
Depth (inch	ies):						Hydric Soil Presen	t? Yes No x
marka								
	OGY							
YDROL	OGY frology Indicat	tors:						
YDROL etland Hyd	OGY Irology Indicat ators (minimum	tors:	quired: (check all that	apply)				Secondary Indicators (2 or more required)
IYDROL fetland Hyd	OGY frology Indicat ators (minimum	tors:	quired: (check all that	apply)		ed Leaves (80) (c	avcent MI PA	Secondary Indicators (2 or more required)
IYDROL fetland Hyd rimary Indic	OGY frology Indicat ators (minimum Surface Water High Water Ta	tors: a of one rec (A1) ble (A2)	quired: (check all that	apply)	- Water Stain 1.2 4A. an	ed Leaves (B9) (e id 4B)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B)
IYDROL Ietland Hyd rimary Indic	OGY frology Indicat ators (minimum Surface Water High Water Ta Saturation (A3	tors: n of one red (A1) ble (A2)	quired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E	ed Leaves (B9) (e d 4B) 311)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10)
IYDROL letland Hyd rimary Indic	OGY frology Indicat ators (minimum Surface Water High Water Ta Saturation (A3 Water Marks (I	tors: n of one red (A1) ble (A2)) B1)	quired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve	ed Leaves (B9) (e Id 4B) 311) ertebrates (B13)	except MLRA	Secondary Indicators (2 or more required)
IYDROL	OGY frology Indicat ators (minimum Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep	tors: n of one red (A1) ble (A2)) B1) osits (B2)	quired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S	ed Leaves (B9) (e id 4B) 311) ertebrates (B13) ulfide Odor (C1)	except MLRA	Secondary Indicators (2 or more required)
IYDROL	OGY frology Indicat ators (minimum High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (Alagal Mat or C	tors: n of one rec (A1) ble (A2)) B1) osits (B2) (B3) (B3) (B4)	quired: (check all that	apply)	Water Staim 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of	ed Leaves (B9) (e Id 4B) 311) artebrates (B13) ulfide Odor (C1) nizospheres along Bedued trop (C	except MLRA	Secondary Indicators (2 or more required)
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IYDROL /etland Hyc rimary Indic	OGY frology Indicat ators (minimum High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (Algal Mat or C Iron Deposits (Surface Soil C	tors: 1 of one rec (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) racks (B6)	quired: (check all that	apply)	Water Stainu 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres along Reduction in Tille Stressed Plants (D	except MLRA Living Roots (C3) 4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required)
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IYDROL /etland Hyc rimary Indic	OGY frology Indicat ators (minimum Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (Algal Mat or Ci Iron Deposits (Surface Soil C Inundation Visi Sparsely Vege	tors: (A1) ble (A2)) B1) osits (B2) (B3) racks (B6) ible on Aer etated Conc	quired: (check all that ial imagery (B7) cave Surface (B8)	apply)	Water Stainu 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille Stressed Plants (D ain in Remarks)	except MLRA I Living Roots (C3) 4) d Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) 44, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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IYDROL /etland Hyc rimary Indic ield Observ urface Wate 'ater Table I aturation Pr	OGY Irology Indicat ators (minimum Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (Algal Mat or C: Iron Deposits (Surface Soil C Surface Soil C Surface Soil C Inundation Visi Sparsely Vege vations: er Present? Present? essent?	tors: (A1) (ble (A2)) B1) osits (B2) (B3) rust (B4) (B5) racks (B6) ible on Aer tated Conc Yes Yes	quired: (check all that ial imagery (B7) cave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl x x x	ed Leaves (B9) (e Id 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduction in Tille Stressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) ed Soils (C6))1) (LRR A)	Secondary Indicators (2 or more required)
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IYDROL (etland Hyc rimary Indic rimary Indic indicator indicator (atter Table I attration Principate Cap escribe Rec	OGY Irology Indicat ators (minimum Surface Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (Algal Mat or C: Iron Deposits (Surface Soil C Inundation Visi Sparsely Veger vations: er Present? Present? essent? illary fringe) corded Data (stri	tors: (A1) ble (A2) B1) osits (B2) (B3) rust (B4) (B5) racks (B6) ble on Aer tated Cond Yes Yes Yes	quired: (check all that ial imagery (B7) cave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl x x x x revious inspec	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izzospheres along Reduction in Tille Stressed Plants (D ain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No X
IYDROL fetland Hyc rimary Indic rimary Indic ield Observ urface Wate 'ater Table I aturation Prr icludes cap escribe Rec	OGY Irology Indicat ators (minimum Surface Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (Algal Mat or C: Iron Deposits (Surface Soil C Inundation Visi Sparsely Veger vations: er Present? Present? essent? essent? illary fringe)	tors: (A1) ble (A2)) B1) osits (B2) (B3) rust (B4) B5) racks (B6) ble on Aer stated Cond Yes Yes Yes	quired: (check all that ial imagery (B7) cave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl x x x x revious inspect	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izzospheres along Reduction in Tille Stressed Plants (D ain in Remarks) Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (0 Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No X

US Army Corps of Engineers

Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industrial			City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-14	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	cal relie	f (concave, cor	nvex, none):	concave		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HAR	N NAD83
	Soil Map Unit N	lame: Clackarr	as variant silt loam			NWI class	ification:	upland		
	Are Climatic / hvdro	blogic conditions o	n the site typical for this ti	me of v	ear?	Yes:	x	No:	(If no	explain in remarks)
		Soil	or Hydrology		Significantly di	sturbed?	Are"Normal (fircumstances" present?	Vec v	No
		0.::			Network and					
	Are vegetation	500 _	or Hydrology		Naturally prob		(If needed, ex	plain any answers in Rema	irks.)	
	SUMMARY O	F FINDINGS	 Attach site map 	show	ing sampli	ing point loc	ations, tr	ansects, important	features, etc.	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes x Yes x	No No		is the Sample	d Area within	a Wetland?		
	Wetland Hydrology	Present?	Yes x	No				Yes	x	No
	Remarks:	Plot located on e	ast side of small upland t	errace r	near north end	of TL 2804				
	VEGETATION	I - Use scient	ific names of plan	ts.						
	Tree Stratum	(Plot size:		,	Absolute % Cover	Dominant	Indicator Status	Dominance Test Works	heet:	
	<u>nec otratum</u>	(1 101 3120.)	70 00001	opecies:	Otatus	Number of Dominant Spe	ecies	
1. 2.						· ·		That are OBL, FACW, or	FAC:	(A)
3.								Total Number of Dominar	nt	
4.						· ·		Species Across All Strata		(B)
						= Total Cover		Percent of Dominant Spe	cies	100 (A/B)
	Sapling/Shrub Strat	tum (Plot size:	10 ft dia)				That are OBL, I AGW, O	TAG.	(AB)
1.								Prevalence Index works	sheet:	
2.						· ·		Total % Cover of:		Multiply by:
3. 4.						· ·		OBL species FACW species	x 1 = x 2 =	
5.								FAC species	x 3 =	
					10%	= Total Cover		UPL species	x 4 = x 5 =	
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(A)	(B)
1.	Schedonorus arund	dinaceus			40%	yes	FAC	Prevalence Index = B/A =	·	
2.	Agrostis capillaris				40	yes	FAC			
з. 4.	Anthoxanthum odo	ratum			10	· ·	FAC	Hydrophytic Vegetation	Indicators:	
5.								Rapid Test fo	or Hydrophytic Ve	getation
б. 7.						· ·		x Dominance Prevalence I	l est is >50% Index is <3.0 ⁽¹⁾	
8.								Morphologic	al Adaptations ⁽¹⁾ (I	Provide supporting
9. 10						· ·		data in Rema Wetland Nor	arks or on a separ n-Vascular Plants ⁽	ate sheet)
11								Problematic	Hydrophytic Vege	tation ⁽¹⁾ (Explain)
					100%	= Total Cover		(1) Indicators	s of hydric soil and	wetland hydrology
	Mandu Vina Stratu	m (Dist size)		,				must be pres	sent, unless distur	ped or problematic.
	woody vine Stratur	III (Plot size.)						
1. 2						·		Hydrophytic Vegetation		
–						· ·		Present?	Yes <u>x</u>	No
						= Total Cover				
	% Bare Ground in H	Herb Stratum								
	Remarks:							1		

SP-14

Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
-6	10YR 3/2	100					SiCl	
5-20	10YR 3/2	95%	10YR 3/4	5	<u> </u>	N	sici	
0 20		0070						
)Type: C=	Concentration,	D=Depletior	n, RM=Reduced Matr	rix, CS=Cover	red of Coated S	Sand Grains. (2)	Location: PL=Pore Lin	ing, M=Matrix.
ydric Soil	Indicators: (Ap	oplicable to	all LRRs, unless o	therwise not	ed.)		Indicators of Probl	ematic Hydric Soils(3).
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)
	Histic Epipedo	on (A2)			Stripped Mat	rix (S6)		Red Parent Material (TF2)
	Black Histic (A	43) 5 de (A 4)			Loamy Muck	y Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Sur	tide (A4) w Dark Sur	face (A11)		(except MLR	A 1) ad Matrix (F2)		
	Thick Dark Su	urface (A12)			Depleted Mat	trix (F3)	(3) indicators of hy	drophytic vegetation
	Sandy Mucky	Mineral (S1)	х	Redox Dark	Surface (F6)	and wetland hydro	logy must be present,
	Sandy Gleyed	Matrix (S4)		Depleted Dar Redox Depre	rk Surface (F7) essions (F8)	unless disturbed o	r problematic.
estrictive	layer (if preser	nt):						
Type:								
							Hydric Soil Brocon	
Depth (inc	hes):						Invulic Soli Flesell	
Depth (inc	.hes):							
Depth (inc	.hes):							
Depth (inc	.hes):							
Depth (inc emarks: IYDROL /etland Hy rimary Indi	-OGY rdrology Indica cators (minimur	tors: n of one rec	uired: (check all that	apply)				Secondary Indicators (2 or more required)
Depth (inc Remarks: IYDROL Vetland Hy Irimary Indi	LOGY rdrology Indica cators (minimur	itors: n of one reco	uired: (check all that	apply)	Water Staine	d Leaves (B9) (e	avcent MI RA	<u>Secondary Indicators (2 or more required)</u>
Depth (inc Remarks: HYDROL Vetland Hy rimary Indi	LOGY rdrology Indica cators (minimur Surface Wate High Water Ta	tors: n of one rec r (A1) able (A2)	uired: (check all that	apply)	Water Staine 1,2,4A, and	d Leaves (B9) (e 1 4B)	except MLRA	<u>Secondary Indicators (2 or more requir</u> ed) <u>Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B)</u>
Depth (inc Remarks: IYDROL Vetland Hy rimary Indi	LOGY Morology Indica cators (minimur Surface Wate High Water Ta Saturation (A3	tors: n of one rec r (A1) able (A2) 3)	uired: (check all that	apply)	Water Staine 1,2,4A, and Salt Crust (B	d Leaves (B9) (e i 4B) 11)	except MLRA	Secondary Indicators (2 or more required)
Depth (inc Remarks: YPDROL Vetland Hy rimary Indi	LOGY COGY Code Surface Wate High Water Ta Saturation (A2 Water Marks (tors: n of one rec r (A1) able (A2) 3) (B1)	uired: (check all that	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver	d Leaves (B9) (e 1 4B) 11) 1tbrates (B13)	except MLRA	Secondary Indicators (2 or more required)
Depth (inc Remarks: HYDROL Vetland Hy Primary Indi	-OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A: Water Marks (Sediment Dep	tors: n of one rec r (A1) able (A2) 3) (B1) posits (B2)	uired: (check all that	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su	d Leaves (B9) (e i 4B) 11) tebrates (B13) Iffide Odor (C1)	except MLRA	Secondary Indicators (2 or more required)
Depth (inc Remarks: YDROL Vetland Hy Yrimary Indi	DGGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Mithematical Set (Set (Set (Set (Set (Set (Set (Set	tors: n of one record r (A1) able (A2) 3) (B1) posits (B2) (B3)	uired: (check all that	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhii	d Leaves (B9) (e 14B) 11) tebrates (B13) lífide Odor (C1) zospheres along	except MLRA	Secondary Indicators (2 or more required)
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Depth (inc Remarks: Permarks: Vetland Hy Primary Indi	-OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (AC Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C	tors: n of one rec r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Crust (B6)	uired: (check all that	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent iron F Stunted or St	d Leaves (B9) (e 1 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C- Reduction in Tille Reduction in Tille	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) Paised Ant Mounds (D5) Paised Ant Mounds (D5)
Depth (inc emarks: IYDROL /etland Hy rimary Indi	-OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (AS Water Marks of Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	tors: n of one rec r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer	uired: (check all that	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhii Presence of I Recent iron F Stunted or St Other (Exola	d Leaves (B9) (e 1 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C- Reduction in Tille tressed Plants (D in in Remarks)	except MLRA Living Roots (C3) 4) d Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
IYDROL IYDROL Ietland Hy rimary Indi	LOGY Profology Indicat cators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks i Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg	tors: n of one rec r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc	uired: (check all that lal imagery (B7) ave Surface (B8)	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of I Recent iron F Stunted or St Other (Expla	d Leaves (B9) (e 14B) 11) tebrates (B13) lífide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (D in in Remarks)	except MLRA Living Roots (C3) 4) d Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required)
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Depth (inc Remarks: Primary Indi Primary Indi	COGY Cators (minimur Surface Wate High Water Ta Saturation (A' Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vego rvations: ter Present?	tors: n of one rec r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi: Presence of I Recent iron F Stunted or St Other (Expla	d Leaves (B9) (e 1 4B) 11) tebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C- Reduction in Tille rressed Plants (D iin in Remarks) Depth (inches):	except MLRA Living Roots (C3) 4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required)
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US Army Corps of Engineers

Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017		
	Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-15		
	Investigator(s):	A. Martin			Section, Towr	iship, Range:	16, T12S, R0	2W			
	Landform (hillslope,	, terrace, etc.):	terrace Lo	cal relie	ef (concave, co	nvex, none):	none		Slope (%):	0%	
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778°	Datum: H	ARN NAD83	
	Soil Map Unit N	ame: Daytor	ı silt loam			NWI class	ification:	upland	- –		
	Are Climatic / hvdro	logic conditions	on the site typical for this t	ime of v	/ear?	Yes:	x	No:	()	f no explain in remarks)	,
	Are Vegetation	Soil	or Hydrology	,	Significantly d	isturbed?	Are"Normal (Circumstances" present?	Yes	x No	
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed ex	volain any answers in Rem	arke)	<u> </u>	
	SUMMARY OF		- Attach site map	shov	ving sampl	ing point loc	ations. tr	ansects, important	features. e	tc.	
	Hydrophytic Vegeta	ation Present?	Yes x	No	3 •• •	511			,-		
	Hydric Soil Present Wetland Hydrology	? Present?	Yes x Yes x	No No		Is the Sample	d Area within	a Wetland? Yes	s x	No	
	Remarks:	Plot located on	east side of TL 2804								
ł											
	VEGETATION	- Use scien	tific names of plan	ts							
	TECETATION				Absolute	Dominant	Indicator	Dominance Test Works	sheet:		
	Tree Stratum	(Plot size:	30 ft dia)	% Cover	Species?	Status	Number of Dominant Sp	ecies		
1.								That are OBL, FACW, or	FAC:	(A)	
2. 3.								Total Number of Domina	int		
4.								Species Across All Strat	a:	<u>2</u> (B)	
						= Total Cover		Percent of Dominant Spo	ecies		
	Sapling/Shrub Strat	tum (Plot size:	10 ft dia)				That are OBL, FACW, or	r FAC:	<u> 100 (</u> A/B)	
1		_						Prevalence Index work	shoot:		
1. 2.						·		Total % Cover of:	Sheet.	Multiply by:	
3. 4						·		OBL species	x	1 = 2 =	
5.								FAC species	x	3 =	
						= Total Cover		FACU species	x	4 =	
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(/	A) (B)	
1.	Aarostis capillaris				60%	ves	FAC	Prevalence Index = B/A	=		
2.	Schedonorus arund	linaceus			40	yes	FAC	-			
3. 4.								Hydrophytic Vegetation	n Indicators:		
5.								Rapid Test	for Hydrophytic	Vegetation	
6. 7.								x Dominance Prevalence	l est is $>50\%$ Index is $<3.0^{(1)}$		
8.							-	Morphologi	cal Adaptations	(1) (Provide supporting	
9. 10						·		data in Rem	narks or on a se n-Vascular Plar	parate sheet) nts ⁽¹⁾	
11	-							Problematio	Hydrophytic Ve	egetation ⁽¹⁾ (Explain)	
					100%	= Total Cover		(1) Indicato	rs of hvdric soil	and wetland hydrology	
						-		must be pre	esent, unless dis	sturbed or problematic.	
	Woody Vine Stratur	m (Plot size:)							
1.						·		Hydrophytic			
2.								Present?	Yes	x No	
						= Total Cover			_		_
	% Bare Ground in H	Herb Stratum									
	Remarks:							1			
l											

SP-15

Profile Des	cription: (Desci	ribe to the	depth needed to doc	ument the	indicator of co	onfirm the abse	nce of indicators.)	
Danth	Matrice		Dedex Feetures					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0-5	10YR 3/2	100					sicl	
5-10	10YR 3/2	90%	10YR 4/6	10	С	М	sicl	
10-20	10YR 4/1	90%	5YR 4/4	10	С	М	cl	
							<u> </u>	
(1)Type: C=	Concentration, E	D=Depletion	n, RM=Reduced Matrix	x, CS=Cove	red of Coated S	Sand Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.
Hydric Soil	Indicators: (Ap	plicable to	o all LRRs, unless oth	herwise not	ed.)		Indicators of Proble	ematic Hydric Soils(3).
	Histosol (A1)		_		Sandy Redox	< (S5)		2 cm Muck (A10)
	Histic Epipedo	on (A2)	-		Stripped Mat	rix (S6)		Red Parent Material (TF2)
	Hydrogen Sulf	ide (A4)	-		(except MLR)	A 1)		Other (Explain in Remarks)
х	Depleted Belo	w Dark Su	face (A11)		Loamy Gleye	ed Matrix (F2)		
	Thick Dark Su	rface (A12))	х	Depleted Ma	trix (F3)	(3) indicators of hyd	drophytic vegetation
	Sandy Mucky	Mineral (S'	1) \	Х	Redox Dark S	Surface (F6)	and wetland hydrol	ogy must be present,
		Matrix (34	-) _		Redox Depre	essions (F8)	uniess disturbed of	problematic.
Restrictive	layer (if presen	it):						
Type:								
Denth (inc	hes).						Hydric Soil Procent	
Deptil (Inc							Hyunc Son Fresent	
	067							
Wetland Hy	drology Indicat	tors:	nuired: (check all that a	apply)				Secondary Indicators (2 or more required)
Filliary inui	icators (minimun			арріу)				Secondary indicators (2 or more required)
	Surface Water	r (A1)	-		Water Staine	d Leaves (B9) (e	except MLRA	Water Stained Leaves (B9) (MLRA 1,2,
	Saturation (A3	able (AZ)	-		Salt Crust (B	14B) 11)		4A, and 4B) Drainage Patterns (B10)
	Water Marks (, B1)	-		Aquatic Inver	tebrates (B13)		Dry-Season Water Table (C2)
	Sediment Dep	osits (B2)	-		Hydrogen Su	Ifide Odor (C1)	Livian Deete (C2)	x Saturation Visible on Aerial Imagery (C9)
	Algal Mat or C	(B3) rust (B4)	-		Presence of I	zospneres along Reduced Iron (C	Living Roots (C3)	X Geomorphic Position (D2) Shallow Aquitard (D3)
	Iron Deposits	(B5)	-		Recent iron F	Reduction in Tille	ed Soils (C6)	FAC-Neutral Test (D5)
	Surface Soil C	racks (B6)			Stunted or St	ressed Plants (D	01) (LRR A)	Raised Ant Mounds (D6) (LRR A)
	Inundation Vis Sparsely Vege	ible on Aer	ial imagery (B7) cave Surface (B8)		Other (Expla	in in Remarks)		Frost-Heave Hummocks (D7)
Field Obser	rvations:							1
Surface Wat	ter Present?	Yes	3	No	x	Depth (inches):		Wetland Hydrology Present?
Water Table	Present?	Yee		No	x	Depth (inches)		Yes x No
Coturction F	Procont?	V		N-	<u> </u>	Donth (inchor):		
(includes ca	pillary fringe)	res	·	INO	X	Deput (incries):		
Describe Re	ecorded Data (st	ream gaug	e, monitoring well, aeri	ial photos, p	revious inspec	tions), if available	e:	1
Remarker								
ineniaiKS:								
US Army Cor	ps of Engineers							Western Mountains, Valleys and Coast - Version 2.0
	~ ~							

	Project/Site:	Airport Industria	d		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	,
	Applicant/Owner:	City of Lebanon	1		State:	OR		Sampling Point:	SP-16	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	02W		
	Landform (hillslope	, terrace, etc.):	terrace	Local relie	ef (concave, con	ivex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44.	529142° N	Long:	-123.933778° W	Datum:	HARN NAD83
	Soil Map Unit N	lame: Clacka	mas variant silt loam			NWI class	sification:	upland	-	
	Are Climatic / hydro	plogic conditions (on the site typical for th	is time of y	ear?	Yes:	x	No:		(If no explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly di	- sturbed?	Are"Normal (Circumstances" present?	Yes	s x No
	Are Vegetation	Soil	or Hydrology		Naturally probl	ematic?	(If needed e	explain any answers in Rema	arks)	
	SUMMARY O	F FINDINGS	- Attach site m	ap show	ving sampli	ng point loo	cations, tr	ransects, important	features,	etc.
	Hydrophytic Vegeta	ation Present?	Yes <u>x</u>	No						
	Hydric Soil Present Wetland Hydrology	? Present?	Yes <u>x</u> Yes <u>x</u>	No No		Is the Sample	d Area withir	n a Wetland? Yes	х	No
	Remarks:	Plot located in e	ast field to test slightly	crowned a	rea.					
	VEGETATION	l - Use scien	tific names of pl	ants.						
	Taxa Otractions	(Dist size)	•		Absolute	Dominant	Indicator	Dominance Test Works	heet:	
	Tree Stratum	(Plot size:)	% Cover	Species?	Status	Number of Dominant Spe	ecies	
1. 2								That are OBL, FACW, or	FAC:	(A)
3.				_		·	·	Total Number of Domina	nt	
4.								_ Species Across All Strata	1:	<u>2</u> (B)
						= Total Cover		Percent of Dominant Spe	ecies	100 (A/R)
	Sapling/Shrub Stra	tum (Plot size:		_)					TAC.	<u> 100 (R/B)</u>
1.								Prevalence Index work	sheet:	
2.				_				Total % Cover of:		Multiply by:
3. 4.								FACW species		x 1 = x 2 =
5.								FAC species		x 3 =
						= Total Cover		UPL species		
	Herb Stratum	(Plot size:	5 ft dia	_)				Column Totals:		(B)
1.	Agrostis capillaris				50%	yes	FAC	Prevalence Index = B/A =	=	
2. 3	Schedonorus aruno	dinaceus ratum			<u>25</u> 15	yes	FAC FACU	-		
4.	Hypochaeris radica	ita		_	10		FACU	Hydrophytic Vegetation	Indicators:	
5. 6.				_				Rapid Test 1	or Hydrophyt Test is >50%	ic Vegetation
7.				_				Prevalence	Index is <3.0	(1)
8. q				_				Morphologic	al Adaptation	is ⁽¹⁾ (Provide supporting
0. 10.				_				Wetland No	n-Vascular Pl	ants ⁽¹⁾
11.								Problematic	Hydrophytic	Vegetation ⁽¹⁾ (Explain)
					100%	= Total Cover		(1) Indicator	s of hydric so	il and wetland hydrology
	Woody Vine Stratu	m (Plot size:)				must be pre	sent, unless o	disturbed or problematic.
		_ (/						
1. 2.								Hydrophytic Vegetation		
						- Total Cover		Present?	Yes	s <u>x</u> No
	% Bare Ground in I	Herb Stratum								
	Remarks:							·		

SP-16

Dopth								
, DEUIII	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0-8	10VR 3/2	100					sicl	
8-11	10YR 3/2	95%	10YR 4/4	5	С	М	sicl	
11-21	10YR 4/2	90%	10YR 5/4	10	С	М	cl	
					· ·			
(UT 0								
(1)Type: C=	Concentration, I	D=Depletio	n, RM=Reduced Matrix	k, CS=Cove	red of Coated S	Sand Grains. (2)L	Location: PL=Pore Lin	ing, M=Matrix.
Hydric Soi	I Indicators: (Ap	oplicable to	o all LRRs, unless oth	nerwise not	ed.)		Indicators of Probl	ematic Hydric Soils(3).
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)
	Histic Epipedo	on (A2)	-		Stripped Matr	ix (S6)		Red Parent Material (TF2)
	Hydrogen Sulf	fide (A4)	-		(except MLRA			
х	Depleted Belo	w Dark Su	face (A11)		Loamy Gleye	d Matrix (F2)	(O) is discharge of b	
	Sandy Mucky	Mineral (S) 1)	x	Redox Dark S	rix (F3) Surface (F6)	(3) indicators of hy and wetland hydro	drophytic vegetation loav must be present.
	Sandy Gleyed	Matrix (S4)		Depleted Dar	k Surface (F7)	unless disturbed o	r problematic.
			-		Redox Depre	ssions (F8)		
Restrictive	layer (if presen	nt):						
Type:								
Type.								
Depth (ind	ches):						Hydric Soil Presen	t? Yes <u>x</u> No
HYDRO Wetland H Primary Ind	LOGY ydrology Indica icators (minimum Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soit Surface Soit	tors: n of one red r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) ible on Acc	quired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Stainer 1,2,4A, and Salt Crust (B ⁻ Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or St Other (Evolo	d Leaves (B9) (e 4B) 11) tebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C- teduction in Tille ressed Plants (c) in in Remarke)	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummorke (D7)
HYDROI Wetland H Primary Ind	LOGY ydrology Indica icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege	tors: n of one red r (A1) able (A2) 3) (B1) cosits (B2) (B3) rrust (B4) (B5) cracks (B6) sible on Aer etated Cond	quired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Stained 1,2,4A, and Salt Crust (B' Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron F Stunted or St Other (Expla	d Leaves (B9) (e 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C- teduction in Tille ressed Plants (D in in Remarks)	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) X Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDRO Wetland H Primary Ind	LOGY ydrology Indica icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations:	tors: n of one red r (A1) able (A2) 3) (B1) posits (B2) (B3) (B3) rrust (B4) (B5) Cracks (B6) sible on Aer etated Cond	quired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Stainee 1,2,4A, and Salt Crust (B ⁻ Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or St Other (Expla	d Leaves (B9) (e 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C- teduction in Tille ressed Plants (D in in Remarks)	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROI Wetland Hy Primary Ind	LOGY ydrology Indica icators (minimun Surface Water High Water Ta Saturation (As Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations:	tors: n of one red r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) ible on Aer etated Cond	quired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Stained 1,2,4A, and Salt Crust (B' Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or St Other (Expla	d Leaves (B9) (e 4B) 11) tebrates (B13) fide Odor (C1) tospheres along Reduced Iron (C- teduction in Tille ressed Plants (D in in Remarks)	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROI Wetland H Primary Ind	LOGY ydrology Indica icators (minimun High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations:	tors: n of one red r (A1) able (A2) 3) (B1) bosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Cond Yes	quired: (check all that a 	npply)	Water Stainee 1,2,4A, and Salt Crust (B' Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or St Other (Expla	d Leaves (B9) (e 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C- Reduction in Tille ressed Plants (D in in Remarks) Depth (inches):	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDRO Wetland H Primary Ind	LOGY ydrology Indica icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations: ther Present?	tors: n of one rea r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Cond Yes	quired: (check all that a 	apply)	Water Stainee 1,2,4A, and Salt Crust (B' Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or St Other (Expla	d Leaves (B9) (e 4B) 11) tebrates (B13) ffide Odor (C1) cospheres along Reduced Iron (C4 teduction in Tille ressed Plants (D in in Remarks) Depth (inches): Depth (inches):	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x
HYDROI Wetland H Primary Ind	LOGY ydrology Indica icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations: ther Present? e Present? apillary fringe)	tors: n of one red r (A1) able (A2) 3) (B1) bosits (B2) (B3) rrust (B4) (B5) rracks (B6) sible on Aer etated Cond Yes Yes	quired: (check all that a 	apply)	Water Stainee 1,2,4A, and Salt Crust (B' Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or St Other (Expla	d Leaves (B9) (e 4B) 11) tebrates (B13) ffide Odor (C1) rospheres along Reduced Iron (C- teduction in Tille ressed Plants (D in in Remarks) Depth (inches): Depth (inches):	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required)
HYDROI Wetland H Primary Ind Field Obse Surface Wa Water Table Saturation F (includes ca Describe R	LOGY ydrology Indica icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations: ther Present? e Present? apillary fringe) ecorded Data (st	tors: n of one red r (A1) able (A2) 3) (B3) (B3) (B3) rrust (B4) (B5) rracks (B6) sible on Aer etated Cond Yes Yes	quired: (check all that a 	apply) No No No al photos, p	Water Stained 1,2,4A, and Salt Crust (B' Aquatic Inveri Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or St Other (Expla	d Leaves (B9) (e 4B) (1) tebrates (B13) fide Odor (C1) rospheres along Reduced Iron (C- teduction in Tille ressed Plants (D in in Remarks) Depth (inches): Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x Yes x
HYDRO Wetland H Primary Ind	LOGY ydrology Indica icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or Co Iron Deposits Surface Soil Co Inundation Vis Sparsely Vege rvations: ther Present? e Present? apillary fringe) ecorded Data (st	tors: n of one red r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Cond Yes Yes Yes	quired: (check all that a 	No No No No No	Water Stainer 1,2,4A, and Salt Crust (B' Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or Sti Other (Expla	d Leaves (B9) (e 4B) 11) tebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C- teduction in Tille ressed Plants (D in in Remarks) Depth (inches): Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x Yes x
HYDROI Wetland Hy Primary Ind Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re Remarks:	LOGY ydrology Indica icators (minimun Surface Water High Water Ta Saturation (As Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Algal Mat or C Iron Deposits Surface Soil Surface Soil Surface Soil Inundation Vis Sparsely Vege rvations: ter Present? apillary fringe) ecorded Data (st	tors: n of one red r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Cond Yes Yes Yes	quired: (check all that a 	apply) No No No al photos, p	Water Stainer 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or St Other (Expla	d Leaves (B9) (e 4B) 11) tebrates (B13) fide Odor (C1) cospheres along Reduced Iron (C4 teduction in Tille ressed Plants (D in in Remarks) Depth (inches): Depth (inches): Depth (inches): ions), if available	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required)
HYDROI Wetland Hy Primary Ind Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re Remarks:	LOGY ydrology Indica icators (minimum Surface Water High Water Ta Saturation (Az Saturation (Az Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations: ther Present? e Present? Present? apillary fringe)	tors: n of one red r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) ible on Aer etated Cond Yes Yes Yes	quired: (check all that a 	apply) No No al photos, p	Water Stained 1,2,4A, and Salt Crust (B' Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or Str Other (Expla	d Leaves (B9) (e 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C- teduction in Tille ressed Plants (D in in Remarks) Depth (inches): Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required)
HYDROI Wetland Hy Primary Ind Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re Remarks:	LOGY ydrology Indica icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations: atter Present? e Present? Present? apillary fringe) ecorded Data (st	tors: n of one red r (A1) able (A2) 3) (B3) crust (B4) (B3) crust (B4) (B5) cracks (B6) sible on Aer etated Cond Yes Yes Yes	quired: (check all that a 	apply)	Water Stained 1,2,4A, and Salt Crust (B' Aquatic Inver Hydrogen Sul Oxidized Rhiz Presence of F Recent iron R Stunted or St Other (Expla	d Leaves (B9) (e 4B) 11) tebrates (B13) fide Odor (C1) zospheres along Reduced Iron (C- teduction in Tille ressed Plants (D in in Remarks) Depth (inches): Depth (inches): Depth (inches): ions), if available	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required)

	Project/Site:	Airport Industria	I		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017	
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-17	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0)2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	cal relie	f (concave, cor	nvex, none):	concave		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HA	RN NAD83
	Soil Map Unit N	lame: Dayton	silt loam			NWI class	ification:	upland		
	Are Climatic / hydro	ologic conditions of	on the site typical for this ti	me of y	ear?	Yes:	x	No:	(If i	no explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly di	isturbed?	Are"Normal C	Circumstances" present?	Yes >	< No
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, ex	xplain any answers in Rem	arks.)	
	SUMMARY O	F FINDINGS	- Attach site map	show	ving sampli	ing point loc	ations, tr	ansects, important	features, etc	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes <u>x</u> Yes x	No No		Is the Sample	d Area within	n a Wetland?		
	Wetland Hydrology	Present?	Yes x	No		• •		Yes	X	No
	Remarks:	Plot located in c	ultivated rye grass field							
	VEGETATION	I - Use scient	tific names of plan	ts.				-		
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:	
1				. *		·		Number of Dominant Sp That are OBL_EACW_or	ecies	1 (A)
1. 2.									TAG.	(<)
3. 4.						·		Total Number of Domina Species Across All Strata	nt a:	1 (B)
						- Total Cover		Percent of Dominant Spo		
								That are OBL, FACW, or	FAC:	<u>100</u> (A/B)
	Sapling/Shrub Strat	tum (Plot size:)						
1. 2								Prevalence Index work	sheet:	Multiply by:
2. 3.						·		OBL species	x 1	=
4. 5.						·		FACW species FAC species	x 2 x 3	=
						- Total Cover		FACU species	x 4	=
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(A)	(B)
1.	Lolium multiflorum				90%	yes	FAC	Prevalence Index = B/A	=	
2. 3						·		-		
4. -								Hydrophytic Vegetation	n Indicators:	
5. 6.						·		x Dominance	for Hydrophytic Ve Test is >50%	egetation
7. 8					-		-	Prevalence	Index is $<3.0^{(1)}$	(Provide supporting
9.								data in Rem	arks or on a sepa	(1)
10. 11.	·							Problematic	Hydrophytic Veg	etation ⁽¹⁾ (Explain)
					90%	= Total Cover		(1) Indicator	rs of hydric soil an	d wetland hydrology
								must be pre	sent, unless distu	rbed or problematic.
	Woody Vine Stratur	m (Plot size:)						
1. 2.						·		Hydrophytic Vegetation		
						- Total O		Present?	Yes	KNo
						- Total Cover				
	% Bare Ground in H	Herb Stratum	90							
	Remarks:									

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Profile Des	cription: (Desc	ribe to the	depth needed to doc	cument the i	ndicator of co	onfirm the abse	ence of indicators.)	
Donth	Motrix		Dodov Footuroo					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
	· · · · · · · · · · · · · · · · · · ·		/					
0-5 5-11	10YR 3/2	100	10YR 4/4	5		М	sicl	
11-19	10YR 4/2	90%	10YR 4/6	10	C	M	cl	
(1)Type: C=	Concentration.	D=Depletio	n. RM=Reduced Matrix	x. CS=Cove	red of Coated S	Sand Grains. (2)	Location: PL=Pore Linir	ng. M=Matrix.
Hydric Soil	Indicators: (Ap	plicable to	all LRRs, unless oth	herwise not	ed.)		Indicators of Proble	ematic Hydric Soils(3).
-		-				(05)		
	Histosol (A1) Histic Epipedo	on (A2)	-		Sandy Redox Stripped Mat	((S5) rix (S6)		2 cm Muck (A10) Red Parent Material (TE2)
	Black Histic (A	(3)	-		Loamy Mucky	y Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Sulf	fide (A4)			(except MLR	A 1)		
X	Thick Dark Su	w Dark Sur			Depleted Mat	d Matrix (F2)	(3) indicators of hy	drophytic vegetation
	Sandy Mucky	Mineral (S1	, 1) <u> </u>	х	Redox Dark S	Surface (F6)	and wetland hydrol	logy must be present,
	Sandy Gleyed	Matrix (S4)		Depleted Dar Redox Depre	k Surface (F7) ssions (F8)	unless disturbed or	problematic.
Restrictive	layer (if presen	it):	-		•	. ,	1	
Type:								
Denth (in a							Ukudaia Cail Dassanti	
Depth (Inc	mes):						Hydric Soli Present	r res <u>x</u> No
HYDROL Wetland Hy Primary Indi	LOGY rdrology Indica	tors: n of one rec	quired: (check all that a	apply)	_			Secondary Indicators (2 or more required)
	Curfe e Mater	() ()						
	High Water Ta	able (A2)	-		1.2.4A. and	d Leaves (B9) (6		4A, and 4B)
	Saturation (A3	3)	-		Salt Crust (B	11)		Drainage Patterns (B10)
	Water Marks (B1)	-		Aquatic Inver	tebrates (B13)		Dry-Season Water Table (C2)
	Drift Deposits	(B3)	-		Oxidized Rhiz	zospheres along	Living Roots (C3)	x Geomorphic Position (D2)
	Algal Mat or C	rust (B4)	-		Presence of I	Reduced Iron (C	(4)	Shallow Aquitard (D3)
	Iron Deposits	(B5) Tracks (B6)	-		Recent iron F	Reduction in Tille	ed Soils (C6)	FAC-Neutral Test (D5)
	Inundation Vis	ible on Aer	ial imagery (B7)		Other (Expla	in in Remarks)		Frost-Heave Hummocks (D7)
	Sparsely Vege	etated Cond	cave Surface (B8)					
Field Obse	rvations:							
Surface Wa	ter Present?	Yes	s	No	x	Depth (inches):		Wetland Hydrology Present?
Water Table	Present?	Yes	S	No	<u>x</u>	Depth (inches):		Yes <u>x</u> No
Saturation F	Present?	Yes	_	No	x	Depth (inches):		
(includes ca	pillary fringe)							
Describe Re	ecorded Data (st	ream gaug	e, monitoring well, aeri	ial photos, p	revious inspect	tions), if availabl	e:	
Remarks:								
US Army Cor	ps of Engineers							Western Mountains, Valleys and Coast - Version 2.0

ApplicantOunce: Diversity of Learners Sampling Projet SP-13 Investigations: A Mattin Section. Towards, Danser 1725, R22V Landown Publicage, former, data; Learner (former, conver, conve		Project/Site:	Airport Industria	I		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017		
Investigator(): A. Math Sector, Townshy, Range: (0, T125, R27/W) Delum: MANN NAD33 Subregion (LRN): LRR A Last during (LRN A) Last during (LRN A) Last during (LRN A) Delum: MANN NAD33 Sol May Difference Cadamae subset at lasm NVI decadations: Lugard NVI decadations: Lugard NVI decadations: Lugard NVI decadations: LNN A NVI		Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-18		
Landom (wildsque, terrador, dt) Imman Local subtly (cancane, contexer, none)		Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W			
Solingen (LRR) Lit 44.52/142 'N Lorg: -12.333776'W Datim: HAIN NAD03 Soli Map Unit Neme: Obtaines varient all boars NVI classification: uplend (fine explain in remarks) Are Urgatation Soli		Landform (hillslope,	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	concave		Slope (%):	0%	
Sol May Unit Nome: Clastanas variant all loam NWI decadication: uppard Are Clastic / hydrologo: conditions on the alla typical for this time of year? Yes:		Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HAR	N NAD83	
Are: Climatic:/hydrologic conditions on the site hydral for this time of year? Yes		Soil Map Unit N	lame: Clackar	mas variant silt loam			NWI class	ification:	upland			
Are Vegetation		Are Climatic / hydro	ologic conditions of	on the site typical for this t	ime of y	ear?	Yes:	x	No:	(If no	o explain in remarks	s)
Are Vegetation Sol or hybridogy Naturally problemate? (If needed, explain any stewers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. If the sampled Area within a Wetland? Hybright Supported Present? Yes X No Yes X No Yes No Remarks: Pot located in cultivated annual type grass field Ommant: Status No VEGETATION - Use scientific names of plants. Endest Species? Status Indicate Species? Status 1 Species? Status Commant: Species? Status Indicate		Are Vegetation	Soil	or Hydrology		Significantly di	isturbed?	Are"Normal C	Circumstances" present?	Yes x	No	,
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrochyte Vegetation Present? Yes No Term Stratum Yes No is the Sampled Area within a Wetland? Vestant Hydrochyte Vegetation Present? Yes No No Remarks: Protocated in cultivated annual type grass field No Indicator VECETATION - Use scientific names of plants. Macdule Dominant Indicator Time Stratum (Pici size:) Absolute Dominant Species? Status 1 Sapling/Shub Stratum (Pici size:) Absolute Dominant Species? Indicator 2		Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed ex	rolain any answers in Rema	arks)		
Hydrog Vegetation Prevent? Yes X No is the Sampled Area within a Weiland? Vestand Hydrology Present? Yes X No Yes No Remarks: Pot located in cultivated annual rye grass field Ves X No Vestand Hydrology Present? Yes X No Opnicant Indicator Vestand Hydrology Present? Yes X No Indicator No Indicator Vestand Hydrology Present? Yes X No Indicator No Indicator Items Stratum (Pot size:		SUMMARY OF	F FINDINGS	- Attach site map	show	ving sampli	ing point loc	ations, tr	ansects, important	features, etc.		
Nymeter is the sample of examine viewant/ Yes X No Remarks: Pick located in cubivated annual rye gress field Yes X No VESETATION - Use scientific names of plants. Indicator Dominant Indicator Nominant Indicator Nominant Species 1		Hydrophytic Vegeta	ation Present?	Yes x	No		la tha Camala	d Area within	a Wetland 2			
Remarks: Pibli located in cultivated annual nye grass field VEGETATION - Use scientific names of plants. Abackle Dominant Indicator Dominant Species Image Stratum (Pot size:) Abackle Dominant Species Image Stratum Image St		Wetland Hydrology	Present?	$\frac{Yes}{Yes} = \frac{x}{x}$	No		is the sample	u Area within	Yes	x	No	
VEGETATION - Use scientific names of plants. Tate Stratum (Plot size:		Remarks:	Plot located in c	ultivated annual rye grass	field							
VEGETATION - Use scientific names of plants. Title Stratum (Plot size:) Absolute % Cover Dominant Species Dominant Status Dominant Number of Dominant Species Number of Dominant Species 1												
Interstrutum (Piot size:		VEGETATION	I - Use scient	tific names of plan	ts.							
Internation (Point sec. 1		Tree Stratum	(Plot size:)	Absolute % Cover	Dominant	Indicator	Dominance Test Works	heet:		
1.			(11013)20.			/0 00001	opecies:	Olalus	Number of Dominant Spe	ecies		
a.	1. 2.						·		That are OBL, FACW, or	FAC:	<u> </u>	
	3. ⊿						· ·		Total Number of Dominar	nt 	1 (P)	
	4.				•		· ·		Species Across Air Strata		<u> </u>	
Sapling'Shrub Stratum (Plot size:							= Total Cover		Percent of Dominant Spe That are OBL, FACW, or	cies FAC:	100 (A/B	3)
1.		Sapling/Shrub Strat	tum (Plot size:)						,	,
2.	1.						. <u></u> .		Prevalence Index works	sheet:		
4.	2. 3.				-		· ·		Total % Cover of: OBL species	x 1 =	Multiply by:	
5.	4.						· ·		FACW species	x 2 =	·	
Herb Stratum (Plot size: 5 ft dia) 1. Lolium multiflorum 2. 95% 3. 95% 4. 95% 5. 95% 6. 95% 7. 95% 9.	5.								FAC species FACU species	x 3 = x 4 =	·	
Interview Operation Operation <t< td=""><td></td><td>Herb Stratum</td><td>(Plot size[.]</td><td>5 ft dia</td><td>)</td><td></td><td>= Total Cover</td><td></td><td>UPL species Column Totals:</td><td>x 5 = (A)</td><td>=(B)</td><td></td></t<>		Herb Stratum	(Plot size [.]	5 ft dia)		= Total Cover		UPL species Column Totals:	x 5 = (A)	=(B)	
1. Loium multitlorum 95% yes FAC Prevalence index = B/A = 2.			(1.101.0120)							((3)	
3.	1. 2.	Lolium multiflorum				95%	yes	FAC	Prevalence Index = B/A =	·		
S.	3. 4						·		Hydrophytic Vegetation	Indicators:		
6. x Dominance Test is >50% 7.	5.						· ·		Rapid Test f	or Hydrophytic Veg	getation	
8.	6. 7.				•		· ·		x Dominance Prevalence	Test is >50% Index is <3.0 ⁽¹⁾		
9 data in Remarks or on a separate sheet) 10	8.				•				Morphologic	al Adaptations ⁽¹⁾ (F	Provide supporting	
11.	9. 10				•		· ·		data in Rema	arks or on a separa n-Vascular Plants ^{(*}	ate sheet)	
95% = Total Cover (1) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 1.	11.								Problematic	Hydrophytic Veget	ation ⁽¹⁾ (Explain)	
Woody Vine Stratum (Plot size:)						95%	= Total Cover		(1) Indicators	s of hydric soil and	wetland hydrology	,
Woody Vine Stratum (Plot size:					、 、				must be pres	sent, unless disturt	bed or problematic.	
1.		Woody Vine Stratur	m (Plot size:		_)							
	1. 2						·		Hydrophytic			
% Bare Ground in Herb Stratum 5 Remarks: 5					•				Present?	Yes <u>x</u>	No	
% Bare Ground in Herb Stratum 5 Remarks:							= Iotal Cover					
Remarks:		% Bare Ground in H	Herb Stratum	5	-							
		Remarks:							1			

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Donth	Motrix		Dodov Footuroo					
Depth (Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
<u> </u>							<u>-</u>	
8	10YR 3/2	100	40/0 4/4				sicl	
12	10YR 3/2	93%	10YR 4/4	15	<u> </u>	M	SICI	
-20	1011 4/2	00 /0	10111 4/4	10	0			
						·		
Type: C=	Concentration, D	=Depletior	n, RM=Reduced Matrix	, CS=Cover	ed of Coated	Sand Grains. (2)	Location: PL=Pore Linir	ng, M=Matrix.
dric Soil	Indicators: (An	nlicable to	all I RRs unless off	arwise not	hd)		Indicators of Proble	matic Hydric Soils(3)
	indicators. (Ap		an Erris, uness ou	iei wise nou	su.)			
	Histosol (A1)		_		Sandy Redo	ox (S5)		2 cm Muck (A10)
	Histic Epipedo	n (A2)	-		Stripped Ma	atrix (S6)		Red Parent Material (TF2)
	Hudrogen Sulfi	3) de (A4)	-		Loamy Muci	Ky Minerai (FT) ⊃A 1)		Other (Explain in Remarks)
x	Depleted Belov	v Dark Sur	face (A11)	<u> </u>	Loamy Glev	ved Matrix (F2)		
	Thick Dark Sur	face (A12)			Depleted Ma	atrix (F3)	(3) indicators of hyd	Irophytic vegetation
	Sandy Mucky	Mineral (S1)	х	Redox Dark	Surface (F6)	and wetland hydrole	ogy must be present,
	Sandy Gleyed	Matrix (S4)			Depleted Da	ark Surface (F7)	unless disturbed or	problematic.
			-		Redox Depr	essions (F8)		
strictive	layer (if present	t):						
Гуре:								
Depth (ind	ches):						Hydric Soil Present?	Yes x No
emarks:								
emarks:	QGY							
YDROI etland H	LOGY	ors:						
YDROI etland Hy imary Ind	_OGY /drology Indicat icators (minimum	ors: of one req	uired: (check all that a	upply)				Secondary Indicators (2 or more required)
YDROI etland Hy imary Ind	LOGY vdrology Indicate icators (minimum Surface Water	ors: of one req (A1)	uired: (check all that a	ipply)	Water Stain	ed Leaves (B9) (e	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLR
YDROI fetland Hy imary Ind	LOGY vdrology Indicat icators (minimum Surface Water High Water Tal	ors: of one req (A1) ble (A2)	uired: (check all that a	ipply)	- Water Stain 1,2,4A, an	ed Leaves (B9) (e id 4B)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLR. 4A, and 4B)
YDROI etland Hy imary Ind	LOGY vdrology Indicat icators (minimum Surface Water High Water Tal Saturation (A3)	ors: of one req (A1) ble (A2)	uired: (check all that a - - -	ipply)	- Water Stain 1,2,4A, an Salt Crust (E	ed Leaves (B9) (e d 4B) 311)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLR, 4A, and 4B) Drainage Patterns (B10)
YDROI etland Hy imary Ind	LOGY vdrology Indicat icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (C Sachine Dec	ors: of one req (A1) ble (A2)) 31)	uired: (check all that a - - - - -	pply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve	ed Leaves (B9) (e id 4B) 311) artebrates (B13)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLR. 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROI etland Hy imary Ind	LOGY vdrology Indicat icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depp Drift Deposite (ors: of one req (A1) ble (A2)) 31) ssits (B2) P2)	uired: (check all that a - - - - - -	ipply)	Water Stain 1,2,4A, an Salt Crust (I Aquatic Inve Hydrogen S	ed Leaves (B9) (e Id 4B) 311) artebrates (B13) ulfide Odor (C1)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLR. 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) X Saturation Visible on Aerial Image Commercible Receiption (PC)
YDROI etland Hy imary Ind	LOGY vdrology Indicati icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Deposes Drift Deposes Algal Mat or Cr	ors: of one req (A1) ble (A2)) 31) ssits (B2) B3) ust (B4)	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ipply)	Water Staim 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Odized RH Presence of	ed Leaves (B9) (e Id 4B) 311) artebrates (B13) ulfide Odor (C1) nizospheres along Reduced Iron (C	except MLRA Living Roots (C3)	Secondary Indicators (2 or more required)
YDROI etland Hy imary Ind	LOGY vdrology Indicat icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Depo Drift Deposits Algal Mat or Cr Iron Deposits (ors: of one req (A1) ble (A2)) 31) ssits (B2) B3) ust (B4) B5)	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ipply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized RH Presence of Recent iron	ed Leaves (B9) (e id 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille	except MLRA Living Roots (C3) 4) d Soils (C6)	Secondary Indicators (2 or more required)
YDROI etland Hy imary Ind	LOGY drology Indicat icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cr	ors: of one req (A1) ble (A2)) Sits (B2) B3) ust (B4) B5) acks (B6)	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ipply)	Water Stain 1,2,4A, an Salt Crust (F Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S	ed Leaves (B9) (e Id 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (D	Except MLRA Living Roots (C3) 4) d Soils (C6) 01) (LRR A)	Secondary Indicators (2 or more required)
YDROI etland Hy imary Ind	LOGY drology Indicat icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cr Inundation Visi	ors: of one req (A1) ble (A2)) Sits (B2) B3) ust (B4) B5) ust (B4) B5) acks (B6) ble on Aeri	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ipply)	Water Stain 1,2,4A, an Salt Crust (F Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e Id 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (D lain in Remarks)	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required)
YDROI etland Hy mary Ind	LOGY vdrology Indicati icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Depo Drift Deposits (Surface Soil Cr Inundation Visi Sparsely Vege	ors: of one req (A1) ble (A2)) 31) ssits (B2) B3) ust (B4) B5) racks (B6) ble on Aeri tated Conc	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ipply)	Water Staim 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Other Source Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e Id 4B) 311) artebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (C lain in Remarks)	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLR. 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Image x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROI etland Hy imary Ind	DOGY variable values of the second state of t	ors: of one req (A1) ble (A2)) 31) osits (B2) B3) ust (B4) B5) ust (B4) B5) ble on Aeri tated Conc	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ipply)	Water Stain 1,2,4A, an Salt Crust (F Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e 1d 4B) 311) ertebrates (B13) ulfide Odor (C1) tizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (D lain in Remarks)	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Image x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROI etland Hy imary Ind etland Hy imary Ind	LOGY vorology Indicat icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cr Inundation Visi Sparsely Vege rvations: ter Present?	ors: of one req (A1) ble (A2)) stits (B2) B3) ust (B4) B5) racks (B6) ble on Aeri tated Conc Yes	uired: (check all that a - - - - - - - - - - - - - - - - - - -	ıpply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Othized RF Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e id 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (D lain in Remarks)	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Image x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
emarks: PYDROI fetland Hy imary Ind imary Ind ind ield Obse urface Wa fater Table	LOGY vdrology Indicati icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cr Iron Deposits (Surface Soil Cr Inundation Visi Sparsely Vege rvations: ter Present?	ors: of one req (A1) ble (A2)) 31) 33) 33) 33) 33) 33) 33) 33) 34) 35) 36) 36) 36) 36) 36) 36) 36) 36) 36) 36	uired: (check all that a - - - - - - al imagery (B7) - ave Surface (B8)	No	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) artebrates (B13) ulfide Odor (C1) inizospheres along F Reduced Iron (C Reduction in Tille Stressed Plants (D lain in Remarks)	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Image x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x
emarks: YDROI etland Hy imary Ind eld Obse urface Wa ater Table	LOGY vorology Indicat icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Deposits Drift Deposits (Algal Mat or Cr Iron Deposits (Surface Soil Cr Inundation Visi Sparsely Vege rvations: ter Present?	ors: of one req (A1) ble (A2)) 31) Dosits (B2) B3) ust (B4) B5) racks (B6) ble on Aeri tated Conc Yes Yes	uired: (check all that a - - - - - - - - - - - - - - - - - - -	npply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e ld 4B) 311) artebrates (B13) ulfide Odor (C1) izospheres along f Reduced Iron (C Reduction in Tille stressed Plants (D lain in Remarks) Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLR. 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Image x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x Yes x
Provide the second seco	LOGY vdrology Indicat icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Depo Drift Deposits (Surface Soil CL Inundation Visi Sparsely Vege rvations: ter Present? Present? Present?	ors: of one req (A1) ble (A2)) 31) bsits (B2) B3) ust (B4) B5) vacks (B6) ble on Aeri tated Conc Yes Yes Yes	uired: (check all that a - - - - - - - - - - - - - - - - - - -	No No	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl x x x	ed Leaves (B9) (e Id 4B) 311) artebrates (B13) ulfide Odor (C1) izospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (C lain in Remarks) Depth (inches): Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLR, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Image x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes No
emarks: etland Hy imary Ind etland Second etland Hy imary Ind etland Second etland Second	LOGY drology Indicat icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Depo Drift Deposits (Surface Soil Cl Inundation Visi Sparsely Vege rvations: ter Present? Present? pillary fringe)	ors: of one req (A1) ble (A2)) B31) sits (B2) B3) ust (B4) B5) racks (B6) ble on Aeri tated Conc Yes Yes Yes	uired: (check all that a - - - - - - - - - - - - - - - - - - -	Ipply)	Water Stain 1,2,4A, an Salt Crust (R Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl x x x	ed Leaves (B9) (e id 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (D lain in Remarks) _ Depth (inches): _ Depth (inches): _ Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Image x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x Yes x
Provide the second seco	LOGY vorology Indication icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Depo Drift Deposits (Algal Mat or Cri Iron Deposits (Surface Soil Cri Inundation Visi Sparsely Veger vations: ter Present? Present? Present? publication (Stringe)	ors: of one req (A1) ble (A2)) stits (B2) B3) ust (B4) B5) racks (B6) ble on Aeri tated Conc Yes Yes Yes Yes	uired: (check all that a 	Ipply)	Water Staim 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Othiczed RP Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e id 4B) 311) ertebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (D lain in Remarks) _ _ Depth (inches): _ Depth (inches): _ Depth (inches): _ Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Image x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x Yes x
PURCOI etland Hy mary Ind stant Hy mary Ind start Table turation F cludes ca scribe Re	LOGY vdrology Indicati icators (minimum Surface Water High Water Tal Saturation (A3) Water Marks (f Sediment Depo Drift Deposits (Surface Soil Cr Iron Deposits (Surface Soil Cr Inundation Visi Sparsely Vege rvations: ter Present? Present? Present? pillary fringe) Ecorded Data (str	ors: of one req (A1) ble (A2)) 31) sits (B2) B3) ust (B4) B5) racks (B6) ble on Aeri tated Conc Yes Yes Yes Yes	uired: (check all that a - - - - - - - - - - - - - - - - - - -	No No No No	Water Staim 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl x x x x	ed Leaves (B9) (e d 4B) 311) artebrates (B13) ulfide Odor (C1) nizospheres along f Reduced Iron (C Reduction in Tille Stressed Plants (D lain in Remarks) _ _ Depth (inches): _ Depth (inches): _ Depth (inches): _ Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Image x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x Yes x

US Army Corps of Engineers

Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industria	1		City/County:	Lebanon/Linn		Sampling Date :	8/14/2017		
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-19		
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W			
	Landform (hillslope,	, terrace, etc.):	terrace Lo	cal relie	- ef (concave, cor	nvex, none):	none		Slope (%):	00	%
	Subregion (LRR):	LRR A			- Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HA	ARN NAD83	
	Soil Map Unit N	lame: Clackar	nas variant silt loam	•		NWI class	ification:	upland			
	Are Climatic / hvdro	logic conditions o	on the site typical for this t	ime of v	ear?	Yes:	x	No:	(If	no explain in re	emarks)
	Are Vegetation	Soil	or Hydrology	,	Significantly di	isturbed?	Are"Normal C	Circumstances" present?	Yes	x N	lo
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed ex	xolain any answers in Rem	arks)	<u> </u>	
	SUMMARY OF	F FINDINGS	- Attach site map	show	ving sampl	ing point loc	ations, tr	ansects, important	features, etc	C.	
	Hydrophytic Vegeta	ation Present?	Yes x	No							
	Hydric Soil Present Wetland Hydrology	? Present?	Yes <u>x</u> Yes <u>x</u>	No No		Is the Sample	d Area within	a Wetland? Yes	x	N	lo
	Remarks:	Plot located in ry	/e grass field								
	VEGETATION	- Use scient	tific names of plan	ts.							
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant	Indicator Status	Dominance Test Works	sheet:		
	<u>The otratum</u>	(11013)20.		.)	70 OOVCI	opecies:	Olalus	Number of Dominant Spo	ecies		<i>(</i> 1)
1. 2.						- <u> </u>		That are OBL, FACW, or	FAC:	1	_(A)
3. 4								Total Number of Domina Species Across All Strata	nt a [.]	1	(B)
						· ·				<u> </u>	_(=)
						= Iotal Cover		That are OBL, FACW, or	FAC:	100	(A/B)
	Sapling/Shrub Strat	tum (Plot size:)							
1.						- <u> </u>		Prevalence Index work	sheet:		
2. 3.						· ·		Total % Cover of: OBL species	x 1	Multiply by 1 =	<u>/:</u>
4. 5								FACW species	x 2	2 =	_
0.								FACU species	x 4	+ =	_
	Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		OPL species Column Totals:	x 5)	(B)
1.	Lolium multiflorum				85%	ves	FAC	Prevalence Index = B/A =	=		
2.							-	-			_
3. 4.						· ·		Hydrophytic Vegetation	n Indicators:		
5. 6.								Rapid Test	for Hydrophytic V Test is >50%	egetation	
7.	-							Prevalence	Index is <3.0 ⁽¹⁾		
8. 9.						· ·		data in Rem	al Adaptations ()	(Provide suppo arate sheet)	orting
10					-			Wetland No	n-Vascular Plants	3 ⁽¹⁾	
11						· ·			Hydropnytic veg	etation (Expl	iain)
					85%	= Total Cover		(1) Indicator	s of hydric soil ar	nd wetland hyd	rology
	Woody Vine Stratur	m (Plot size:)							matic.
1.								Hydrophytic			
2.								Vegetation Present?	Yes	Y N	lo
						= Total Cover				<u></u> N	
	% Bare Ground in H	Herb Stratum	15								
	Remarks:							-			

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Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	onfirm the abse	nce of indicators.)	
Denth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0-7	10YR 3/2	100					sicl	
7-13	10YR 3/2	95%	10YR 4/6	5	С	М	sicl	
13-19	10YR 3/1	90%	10YR 3/4	10	C	M	Cl	·
	· ·							
					·			·
	· ·							
(1)Type: C=	Concentration, I	D=Depletio	n, RM=Reduced Matrix	x, CS=Cove	red of Coated S	Sand Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.
Hydric Soil	Indicators: (Ap	oplicable to	all LRRs, unless oth	herwise not	ed.)		Indicators of Proble	ematic Hydric Soils(3).
	Histosol (A1)				Sandy Redox	k (S5)		2 cm Muck (A10)
	Histic Epipedo	on (A2)	-		Stripped Mat	rix (S6)		Red Parent Material (TF2)
	Hydrogen Sul	fide (A4)	-		(except MLR	A 1)		
	Depleted Belo	w Dark Sur	face (A11)		Loamy Gleye	ed Matrix (F2)	(O) is discharge of here	develo de constation
	Sandy Mucky	Mineral (S1	-	x	Redox Dark	trix (F3) Surface (F6)	(3) Indicators of hydrol and wetland hydrol	dropnytic vegetation logy must be present,
	Sandy Gleyed	I Matrix (S4) _		Depleted Dar	rk Surface (F7)	unless disturbed or	problematic.
			-		Redox Depre	essions (F8)		
Restrictive	layer (if preser	nt):						
Туре:								
Depth (inc	hes).						Hydric Soil Present	
Deptil (inc	<u> </u>						Tryunc Son Present	
	002							
Wetland Hy Primary Indi	-OGY drology Indica cators (minimur	tors: n of one rec	uired: (check all that a	apply)				Secondary Indicators (2 or more required)
	0	- (,					
	High Water Ta	able (A2)	-		1,2,4A, and	d Leaves (69) (6 d 4B)		4A, and 4B)
	Saturation (A3	3)	-		Salt Crust (B	11)		Drainage Patterns (B10)
	Sediment Dep	(B1) oosits (B2)	-		Aquatic Inver Hydrogen Su	lfide Odor (C1)		x Saturation Visible on Aerial Imagery (C9)
	Drift Deposits	(B3)	-		Oxidized Rhi	zospheres along	Living Roots (C3)	x Geomorphic Position (D2)
	Algal Mat or C	(B5)	-		Presence of Recent iron F	Reduced Iron (C Reduction in Tille	4) ed Soils (C6)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
	Surface Soil C	Cracks (B6)			Stunted or St	tressed Plants (D	D1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
	Inundation Vis Sparsely Vege	sible on Aer etated Conc	ial imagery (B7) cave Surface (B8)		Other (Expla	ain in Remarks)		Frost-Heave Hummocks (D7)
Field Obse	rvations:							
Surface Wa	ter Present?	Yes	3	No	x	Depth (inches):		Wetland Hydrology Present?
Water Table	Present?	Yes	3	No	x	Depth (inches):		Yes x No
Saturation F	Present?	Yes	3	No	x	Depth (inches):		
(includes ca	pillary fringe)							
Describe Re	ecorded Data (st	tream gauge	e, monitoring well, aeri	ial photos, p	revious inspec	tions), if available	e:	
Remarks:								
US Army Cor	ps of Engineers							Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industria	I		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-20	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0)2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	cal reliet	f (concave, cor	nvex, none):	concave		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HAF	RN NAD83
	Soil Map Unit N	lame: Clackar	mas variant silt loam			NWI class	ification:	upland		
	Are Climatic / hvdro	plogic conditions of	on the site typical for this ti	me of ve	ar?	Yes:	x	No:	(If n	o explain in remarks)
	Are Vegetation	Soil	or Hydrology	,	Significantly di	sturbed?	Are"Normal (Circumstances" present?	- Yes x	No
	Are Vegetation	Soil	or Hydrology		Naturally probl	ematic?	(If needed ex	volain any answers in Rem	arke)	
	SUMMARY O	F FINDINGS	- Attach site map	show	ing sampli	ing point loc	ations, tr	ransects, important	: features, etc.	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes <u>x</u> Yes x	No No		Is the Sample	d Area within	n a Wetland?		
	Wetland Hydrology	Present?	Yes x	No				Yes	S <u>X</u>	No
	Remarks:	Plot located at s	outh end of TL 2802 in de	pression	on north side	of elevated berm	on north side	e of creek		
	VEGETATION	I - Use scien	tific names of plan	ts.				<u> </u>		
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:	
1.								Number of Dominant Sp That are OBL, FACW, o	ecies r FAC:	1 (A)
2.				-						(*)
3. 4.				-				Species Across All Strat	ant a:	<u> </u>
						= Total Cover		Percent of Dominant Sp	ecies	
								That are OBL, FACW, o	r FAC:	<u>100</u> (A/B)
	Sapling/Shrub Stra	tum (Plot size:)						
1. 2				-				Prevalence Index work	sheet:	Multiply by:
3.				-				OBL species	x 1 :	=
4. 5.				-				FACW species	x 2	= =
						= Total Cover		FACU species	x 4	=
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(A)	(B)
1.	Lolium multiflorum			-	90%	yes	FAC	Prevalence Index = B/A	=	
2. 3				-				-		
4.				-				Hydrophytic Vegetatio	n Indicators:	
5. 6.				-				x Dominance	Test is >50%	jetation
7. 8.				-		·		Prevalence Morphologi	Index is <3.0 ⁽¹⁾ cal Adaptations ⁽¹⁾ (Provide supporting
9.				-				data in Ren	narks or on a separ	ate sheet)
11	·			-				Problematic	c Hydrophytic Vege	tation ⁽¹⁾ (Explain)
					90%	= Total Cover		(1) Indicato	rs of hydric soil and	wetland hydrology
	Maadu Vina Ctratu	m (Dist size)		、				must be pre	esent, unless distur	bed or problematic.
	woody vine Stratu	III (Plot size.)						
1. 2.				-		·		_ Hydrophytic Vegetation		
				-		- Total Cover		Present?	Yes <u>x</u>	No
				-		- Total Cover				
	% Bare Ground in I	Herb Stratum	10							
	Remarks:							· ·		

SP-20

Profile Des	orintion: (Doc	with a first first	والمستعلم والمستعد والمستعد والمستعد والمستعد					
	cription. (Dest	cribe to the	depth needed to do	cument the i	ndicator of c	onfirm the abser	nce of indicators.)	
Depth (Inchos)	Matrix Color (moist)	0/.	Redox Features	0/.	$T_{ypo}(1)$	1 00 (2)	Toxturo	Pomorko
(Inches)		/0		/0	Type (1)	LUC (2)	Texture	Relians
0-6	10YR 3/2	100					sicl	
6-10	10YR 3/2	95%	10YR 4/4	5	С	М	sicl	
10-12	10YR 3/2	85%	10YR 4/4	15	С	М	sicl	
12-20	10YR 4/2	90%	10YR 4/6	10	C	M	cl	
							·	
	·							
(1)Type: C=	Concentration,	D=Depletior	n, RM=Reduced Matr	ix, CS=Cover	ed of Coated	Sand Grains. (2)L	Location: PL=Pore Lini	ng, M=Matrix.
Hydric Soil	Indicators: (A	pplicable to	all LRRs, unless of	herwise not	ed.)		Indicators of Proble	ematic Hydric Soils(3).
						(05)		0 141- (140)
	HISLOSOI (AT)	on (A2)			Sandy Redo	X (33) trix (86)		2 CITI MUCK (ATU) Red Parent Material (TE2)
	Black Histic (A3)			Loamy Muck	w Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Su	lfide (A4)			(except MLF	RA 1)		
х	Depleted Bel	ow Dark Sur	face (A11)		Loamy Gley	ed Matrix (F2)		
	Thick Dark S	urface (A12)	1		Depleted Ma	atrix (F3)	(3) indicators of hydrate (3) indicators of hydrogenetic (3) i	drophytic vegetation
L	Sandy Mucky	Mineral (S1	1)	х	Redox Dark	Surface (F6)	and wetland hydrol	logy must be present,
	Sandy Gleye	d Matrix (S4)		Depleted Da	irk Surface (F7)	unless disturbed or	r problematic.
					Redox Depr	essions (F8)		
Restrictive	laver (if prese	nt):						
		,.						
Type:								
Depth (inc	ches):						Hydric Soil Present	? Yes <u>x</u> No
HYDROI Wetland Hy Primary Ind	LOGY vdrology Indica icators (minimu Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or d Iron Deposits	ators: m of one rec able (A2) 3) (B1) posits (B2) 5 (B3) Crust (B4) (B5)	quired: (check all that	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Pacent iron	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C-	Except MLRA Living Roots (C3) 4) d Soils (C6)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) EAC-Neutral Test (D5)
HYDROI Wetland Hy Primary Ind	LOGY vdrology Indica icators (minimu Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or (Iron Deposits Surface Soil	ators: m of one rec able (A2) 3) (B1) posits (B2) 6 (B3) Crust (B4) (B5) Cracks (B6)	quired: (check all that	apply)	Water Staind 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent iron Stunted or S	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille tressed Plants (D	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required)
HYDROI Wetland Hy Primary Ind	LOGY vdrology Indica icators (minimu Surface Wate High Water T Saturation (A Water Marks Sediment De Drift Deposits Algal Mat or d Iron Deposits Surface Soil (Inundation Vi	ators: m of one rec er (A1) able (A2) 3) (B1) posits (B2) 5 (B3) Crust (B4) 6 (B5) Cracks (B6) sible on Aer	quired: (check all that	apply)	Water Staine 1,2,4A, an Salt Crus (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille tressed Plants (D ain in Remarks)	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required)
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HYDROI Wetland Hy Primary Ind Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re Remarks:	LOGY variable state of the sta	ators: m of one rec er (A1) (able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer jetated Conc Yes Yes Yes	guired: (check all that ial imagery (B7) cave Surface (B8)	apply)	Water Staind 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen SI Oxidized Rh Presence of Recent iron Stunted or S Other (Expl.	ed Leaves (B9) (e d 4B) 111) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches): Depth (inches): ctions), if available	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x No

	Project/Site:	Airport Industria	ıl		City/County:	Lebanon/Linn		Sampling Date: 8/14/2017
	Applicant/Owner:	City of Lebanon	I		State:	OR		Sampling Point: SP-21
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	02W
	Landform (hillslope	, terrace, etc.):	terrace L	ocal relie	ef (concave, cor	ivex, none):	none	Slope (%): 0%
	Subregion (LRR):	LRR A		_	Lat: 44	.529142° N	Long:	-123.933778° W Datum: HARN NAD83
	Soil Map Unit N	lame: <u>Clacka</u>	mas variant silt loam			NWI class	ification:	upland
	Are Climatic / hydro	ologic conditions	on the site typical for this	time of y	vear?	Yes:	x	No: (If no explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly di	sturbed?	Are"Normal (Circumstances" present? Yes x No
	Are Vegetation	Soil	or Hydrology		Naturally probl	ematic?	(If needed, e	explain any answers in Remarks.)
	SUMMARY O	F FINDINGS	- Attach site map	o shov	ving sampli	ing point loc	ations, tr	ransects, important features, etc.
	Hydrophytic Vegeta	ation Present?	Yes x	No				
	Hydric Soil Present Wetland Hydrology	t? Present?	Yes	No No	x	Is the Sample	d Area withir	n a Wetland? Yes Nox
	Remarks:	Plot located on	elevated berm on north si	ide of cre	eek			
	VEGETATION	I - Use scien	tific names of plar	nts.				
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:
1		·		_'				Number of Dominant Species
2.				_				(\)
3. 4.				_				Total Number of Dominant Species Across All Strata:1(B)
						= Total Cover		Percent of Dominant Species
	Sopling/Shrub Stra	tum (Plot cizo:		,				That are OBL, FACW, or FAC:(A/B)
	Sapility/Stitub Stra	tum (Fiot size.		_)				
1. 2.				_				Prevalence Index worksheet: Total % Cover of: Multiply by:
3. 4				_				OBL species x 1 =
5.				-		· ·		FAC species x 3 =
						= Total Cover		FACU species x 4 = UPL species x 5 =
	Herb Stratum	(Plot size:	5 ft dia	_)				Column Totals:(A)(B)
1. ว	Lolium multiflorum			-	100%	yes	FAC	Prevalence Index = B/A =
3.				-		· ·		
4. 5.				-				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
6. 7.				_		· ·		Dominance Test is >50% Prevalence Index is <3.0 ⁽¹⁾
8. 0				-				Morphological Adaptations ⁽¹⁾ (Provide supporting
3. 10				_		· ·		Wetland Non-Vascular Plants ⁽¹⁾
11				-				Problematic Hydrophytic Vegetation (*) (Explain)
					100%	= Total Cover		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
	Woody Vine Stratu	m (Plot size:)				
1.				_				_ Hydrophytic
2.				-				_ Vegetation Present? Yes <u>x</u> No
						= Total Cover		
	% Bare Ground in I	Herb Stratum		_				
	Remarks:							

							Sampling Point:	SP-21
SOIL								
Profile Des	cription: (Descr	ibe to the	depth needed to doc	ument the i	indicator of co	onfirm the abser	nce of indicators.)	
Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0-10	10YR 3/2	100					sicl	
10-13	10YR 3/2	95%	10YR 4/4	5	<u> </u>	<u>M</u>	sici	
13-19	101R 4/2	90%	10TR 4/0	10		111		
	· ·						·	
1)Type: C=	Concentration, D)=Depletior	n, RM=Reduced Matrix	, CS=Cover	red of Coated	Sand Grains. (2)L	ocation: PL=Pore Lin	ing, M=Matrix.
lydric Soil	Indicators: (Ap	plicable to	all LRRs, unless oth	nerwise not	ed.)		Indicators of Probl	lematic Hydric Soils(3).
	Histosol (A1)				Sandy Redo	x (S5)		2 cm Muck (A10)
	Histic Epipedor	n (A2)	-		Stripped Mat	rix (S6)		Red Parent Material (TF2)
	Black Histic (A	.3)	_		Loamy Muck	y Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Sulfi	ide (A4)			(except MLR	A 1)		
	Depleted Below	w Dark Sur	face (A11)		Loamy Gleye	ed Matrix (F2)	(2) indicators of b	udranhutia vagatatian
	Sandy Mucky I	Mineral (S1	. –		Redox Dark	Surface (F6)	and wetland hydro	blogy must be present
	Sandy Gleyed	Matrix (S4)	/		Depleted Dai	rk Surface (F7)	unless disturbed o	problematic.
	-		-		Redox Depre	essions (F8)		
estrictive	layer (if present	t):						
		,						
Туре:								
Depth (inc	hee):						Hydric Soil Proson	t Ves No v
Deptil (Inc							riyunc son Fresen	
IYDROL	OGY							
Vetland Hy Primary Indi	drology Indicat	ors: of one rec	uired: (check all that a	apply)	_			Secondary Indicators (2 or more required)
	Surface Water	(A1)			Water Staine	ed Leaves (B9) (e	xcept MLRA	Water Stained Leaves (B9) (MLRA 1,2
	High Water Tal	ble (A2)	_		1,2,4A, and	d 4B)		4A, and 4B)
	Saturation (A3))	_		Salt Crust (B	11)		Drainage Patterns (B10)
	Water Marks (E	B1)	-		Aquatic Inver	rtebrates (B13)		Dry-Season Water Table (C2)
	Sediment Depo	OSIts (B2)	-		Hydrogen Su	Iffide Odor (C1)	Living Docto (C2)	Saturation Visible on Aerial Imagery (C
	Algal Mat or Cr	(DS) rust (B4)	-		Presence of	Reduced Iron (C4		Shallow Aquitard (D3)
	Iron Deposits (B5)	-		Recent iron F	Reduction in Tille	d Soils (C6)	FAC-Neutral Test (D5)
	Surface Soil Ci	racks (B6)	_		Stunted or St	tressed Plants (D	1) (LRR A)	Raised Ant Mounds (D6) (LRR A)
	Inundation Visi	ible on Aeri	ial imagery (B7)		Other (Expla	ain in Remarks)		Frost-Heave Hummocks (D7)
	Sparsely Vege	tated Conc	ave Surface (B8)					
ield Obse	rvations:							
Surface Wa	ter Present?	Yes		No	x	Depth (inches):		Wetland Hydrology Present?
Vater Table	Present?	Yes		No	X	Depth (inches):		YesNox
Saturation F includes ca	Present? pillary fringe)	Yes		No	X	Depth (inches):		-

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

Remarks:

US Army Corps of Engineers

Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industria	I		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-22	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, co	nvex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HAR	N NAD83
	Soil Map Unit N	lame: Clacka	mas variant silt loam			NWI class	ification:	upland		
	Are Climatic / hydro	ologic conditions of	on the site typical for this t	ime of y	ear?	Yes:	x	No:	(If no	o explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly d	isturbed?	Are"Normal C	Circumstances" present?	Yes <u>x</u>	No
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, ex	xplain any answers in Rema	arks.)	
	SUMMARY O	F FINDINGS	- Attach site map	shov	ving sampl	ing point loc	ations, tr	ansects, important	features, etc.	
	Hydrophytic Vegeta Hydric Soil Present Wetland Hydrology	ation Present? ? Present?	Yes x Yes x Yes x	No No No		Is the Sample	d Area within	a Wetland? Yes	X	No
	Remarks:	Plot located in w	vetland near south end of	TL 2802	2					
	VEGETATION	I - Use scien	tific names of plan	ts.	Absolute	Dominant	Indicator	Dominance Test Works	hoot:	
	Tree Stratum	(Plot size:)	% Cover	Species?	Status	Dominance rest works		
1.								Number of Dominant Spe That are OBL, FACW, or	FAC:	<u> </u>
2. 3.						·		Total Number of Domina	nt	
4.						· ·		Species Across All Strata	a:	<u> </u>
						= Total Cover		Percent of Dominant Spe	ecies	
	Sapling/Shrub Strat	tum (Plot size:)				That are OBL, FACW, or	FAC:	<u> 100 (</u> A/B)
1				•				Provalence Index work	shoot:	
2.						· ·		Total % Cover of:		Multiply by:
3. 4.						· ·		OBL species FACW species	x 1 = x 2 =	:
5.								FAC species	x 3 =	·
						= Total Cover		FACU species UPL species	X 4 = X 5 =	•
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(A)	(B)
1.	Lolium multiflorum				90%	yes	FAC	Prevalence Index = B/A =		
2. 3.						· ·				
4. 5						· ·		Hydrophytic Vegetation Rapid Test 1	n Indicators:	retation
6.								x Dominance	Test is >50%	jotation
7. 8						· ·		Prevalence Morphologic	Index is $<3.0^{(1)}$	Provide supporting
9.						· ·		data in Rem	arks or on a separa	ate sheet)
10 11						· ·		Wetland No Problematic	n-Vascular Plants ⁽¹)	ation ⁽¹⁾ (Explain)
					90%	= Total Cover		(1) Indicator	s of hydric soil and	wetland hydrology
	Woody Vine Stratur	m (Plot size:)						
1.								Hydrophytic		
2.						·		Vegetation Present?	Yes v	Νο
						= Total Cover				
	% Bare Ground in H	Herb Stratum	10							
	Remarks:									

SP-22

Denth	Matrix		Redox Festures					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0 0	10VP 2/2	100					siel	
8-12	10YR 3/2	95%	10YR 4/4	5	С	М	sicl	
12-20	10YR 3/2	90%	10YR 4/4	10	С	М	sicl	
(1)Type: C=	Concentration, E	D=Depletior	n, RM=Reduced Matrix	x, CS=Cove	red of Coated	Sand Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.
Hydric Soi	I Indicators: (Ap	plicable to	all LRRs, unless oth	nerwise not	ed.)		Indicators of Proble	ematic Hydric Soils(3).
-					, , , , , ,			
	Histosol (A1) Histic Epipedo	on (A2)	-		Sandy Redo Stripped Ma	x (S5) trix (S6)		2 cm Muck (A10) Red Parent Material (TE2)
	Black Histic (A	(3)	-		Loamy Muck	xy Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Sulf	fide (A4)	faaa (A14)		(except MLF	A 1)		
	_ Depleted Belo	rface (A12)			Depleted Ma	atrix (F3)	(3) indicators of hy	drophytic vegetation
	Sandy Mucky	Mineral (S1)	х	Redox Dark	Surface (F6)	and wetland hydrol	logy must be present,
	Sandy Gleyed	Matrix (S4))		Depleted Da	rk Surface (F7)	unless disturbed or	r problematic.
			-		Redox Depr	essions (F8)		
Restrictive	layer (if presen	it):						
Туре:								
Denth (in								
Depth (In	cnes):						Hydric Soli Present	Yes <u>x</u> No
HYDRO Wetland H	LOGY ydrology Indicat	tors:						
HYDRO Wetland H Primary Ind	LOGY ydrology Indicat licators (minimur	tors: n of one rec	juired: (check all that a	apply)				Secondary Indicators (2 or more required)
HYDRO Wetland H Primary Ind	LOGY ydrology Indicat licators (minimum _ Surface Water	tors: n of one rec r (A1)	uired: (check all that a	apply)	- Water Staine	ed Leaves (B9) (6	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2,
HYDRO Wetland H Primary Ind	LOGY ydrology Indicat licators (minimum Surface Water High Water Ta Sturface (73	tors: n of one rec r (A1) bble (A2)	juired: (check all that a	apply)	- Water Staine 1,2,4A, an Salt Cruet //	ed Leaves (B9) (ε d 4B)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Discission Participation (B10)
HYDRO Wetland H Primary Ind	LOGY ydrology Indicat licators (minimum Surface Water High Water Ta Saturation (A3 Water Marks (i	tors: n of one rec (A1) able (A2) 3) B1)	juired: (check all that a	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve	ed Leaves (B9) (6 d 4B) i11) rtebrates (B13)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
HYDRO Wetland H Primary Inc	LOGY ydrology Indicat licators (minimum Surface Water High Water Ta Saturation (A3 Water Marks (i Sediment Dep	tors: n of one req r (A1) able (A2) b) B1) osits (B2)	juired: (check all that a - - - - -	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St	ed Leaves (B9) (e d 4B) i11) rtebrates (B13) ulfide Odor (C1)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9)
HYDRO Wetland H Primary Inc	LOGY ydrology Indicat licators (minimum High Water Ta Saturation (A3 Water Marks (i Sediment Dep Drift Deposits : Alral Mator C	tors: n of one record r (A1) able (A2) B1) osits (B2) (B3) (B3) rust (B4)	uired: (check all that a	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of	ed Leaves (B9) (6 d 4B) 111) rtebrates (B13) Jifide Odor (C1) izospheres along Reduced Iron (C	except MLRA g Living Roots (C3)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitart (D3)
HYDRO Wetland H Primary Inc	LOGY ydrology Indicat licators (minimum High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits (tors: n of one record (A1) able (A2) B1) oosits (B2) (B3) (B3) (rust (B4) (B5)	juired: (check all that a - - - - - - - - - - - - - - -	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron	ed Leaves (B9) (6 d 4B) 111) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille	except MLRA g Living Roots (C3) 4) ed Soils (C6)	Secondary Indicators (2 or more required)
HYDRO Wetland H Primary Inc	LOGY ydrology Indicat licators (minimum Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (Algal Mat or C Iron Deposits (Surface Soil C	tors: n of one rec (A1) able (A2) B1) B1) (B3) (B3) (B3) (rust (B4) (B5) (racks (B6))	uired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S	ed Leaves (B9) (e d 4B) 111) rtebrates (B13) Jifide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (C	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
HYDRO Wetland H Primary Ind	LOGY ydrology Indicat licators (minimum Surface Water High Water Ta Saturation (Ag Water Marks (i Sediment Dep Drift Deposits (Algal Mat or C Iron Deposits (Surface Soil C Inundation Vis Sparsely Vege	tors: n of one record r (A1) able (A2) B1) oosits (B2) (B3) rrust (B4) (B5) cracks (B6) ible on Aeri etated Conc	uired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Expla	ed Leaves (B9) (6 d 4B) 111) rtebrates (B13) Jlfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (C ain in Remarks)	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDRO Wetland H Primary Inc	LOGY ydrology Indicat licators (minimum High Water Ta Saturation (A3 Water Marks (I Sediment Dep Drift Deposits (Surface Soil C Inundation Vis Sparsely Vege	tors: n of one record (A1) able (A2) B1) rosits (B2) (B3) (rust (B4) (B5) cracks (B6) ible on Aerie stated Conc	iuired: (check all that a 	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) i11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (I ain in Remarks)	except MLRA g Living Roots (C3) '4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDRO Wetland H Primary Ind	LOGY ydrology Indicat licators (minimum Surface Water High Water Ta Saturation (A3 Water Marks ((Sediment Dep Drift Deposits (Surface Soil C Inundation Vis Sparsely Vege	tors: n of one req r (A1) able (A2) b) B1) orosits (B2) (B3) orosits (B2) (B3) orosits (B4) (B5) oracks (B6) bible on Aeri etated Conc	uired: (check all that a 	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) i11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (E ain in Remarks)	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Seconorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDRO Wetland H Primary Ind Field Obse Surface Wa	LOGY ydrology Indicat licators (minimum Surface Water High Water Ta Saturation (A3 Water Marks (i Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege structions: ater Present?	tors: n of one record r (A1) able (A2) B1) oosits (B2) (B3) rust (B4) (B5) rracks (B6) ible on Aeri etated Concord	uired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) 111) rtebrates (B13) Jlfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (C ain in Remarks) Depth (inches):	except MLRA 9 Living Roots (C3) 4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDRO Wetland H Primary Inc Field Obse Surface Wa Water Tabl	LOGY ydrology Indicat licators (minimum High Water Ta Saturation (A3 Water Marks (i Sediment Dep Drift Deposits (Surface Soil C Inundation Vis Sparsely Vege rrvations: ater Present?	tors: n of one record (A1) able (A2) B1) B1) B1) (B3) (B3) (rust (B4) (B5) (B5) (B5) (B5) (B5) (B5) (B5) (Concentrated Concentrated Concentrated Yes	iuired: (check all that a 	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Explained x	ed Leaves (B9) (e d 4B) i11) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (I ain in Remarks) Depth (inches): Depth (inches):	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required)
HYDRO Wetland H Primary Inc Surface Wa Water Table Saturation	LOGY ydrology Indicat icators (minimum Surface Water High Water Ta Saturation (A3 Water Marks ((Sediment Dep Drift Deposits (Algal Mat or C Iron Deposits (Surface Soil C Inundation Vis Sparsely Vege wrvations: ater Present? Present?	tors: n of one req r (A1) able (A2) b) B1) oosits (B2) (B3) irust (B4) (B5) irust (B4) (B5) irusts (B6) bible on Aerie etated Conce Yes Yes	iuired: (check all that a ial imagery (B7) ave Surface (B8)	apply) No No No	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Explained X	ed Leaves (B9) (e d 4B) i11) rtebrates (B13) ilfide Odor (C1) izospheres along Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x
HYDRO Wetland H Primary Ind Field Obse Surface Wa Water Tabl Saturation I (includes ca	LOGY ydrology Indicat licators (minimum Surface Water High Water Ta Saturation (As Saturation (As Drift Deposits (Algal Mat or C Iron Deposits (Surface Soil C Inundation Vis Sparsely Vege rvations: ater Present? e Present? Present? apillary fringe)	tors: n of one reco r (A1) able (A2) B1) oosits (B2) (B3) rrust (B4) (B5) rracks (B6) ible on Aeri etated Conc Yes Yes Yes	iuired: (check all that a 	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) 111) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (C ain in Remarks) Depth (inches): Depth (inches):	except MLRA g Living Roots (C3) (4) ed Soils (C6) D1) (LRR A)	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (C9) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) Wetland Hydrology Present? Yes x No
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	Project/Site:	Airport Industria	l		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
	Applicant/Owner:	City of Lebanon	1		State:	OR		Sampling Point:	SP-23	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	f (concave, cor	nvex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HA	RN NAD83
	Soil Map Unit N	lame: Clacka	mas variant silt loam	-		NWI class	ification:	upland		
	Are Climatic / hydro	plogic conditions	on the site typical for this t	ime of y	ear?	Yes:	x	No:	(If	no explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly di	isturbed?	Are"Normal C	Circumstances" present?	Yes	x No
	Are Vegetation	Soil	or Hydrology		Naturally probl	lematic?	(If needed, e)	xplain any answers in Rem	arks.)	
	SUMMARY O	F FINDINGS	- Attach site map	show	ving sampli	ing point loc	ations, tr	ansects, important	features, etc).
	Hydrophytic Vegeta	ation Present?	Yes x	No		Is the Sample	d Δrea within	a Wetland?		
	Wetland Hydrology	Present?	Yes	No	x			Yes	. <u> </u>	No <u>x</u>
	Remarks:	Plot located on	elevated berm on north si	de of cre	ek					
	VEGETATION	I - Use scien	tific names of plar	its.				-		
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:	
1								Number of Dominant Sp That are OBL_EACW_or	ecies	1 (Δ)
1. 2.						· ·			170.	(<)
3. 4.				-				Total Number of Domina Species Across All Strata	nt a:	(B)
						= Total Cover		Percent of Dominant Spe	ecies	
	Sonling/Shrub Stro	tum (Plot oizo:		`				That are OBL, FACW, or	FAC:	100 (A/B)
	Sapiing/Shirub Stra	<u>tu</u> m (Piot size.		_)						
1. 2.				•		· ·		Prevalence Index work Total % Cover of:	sheet:	Multiply by:
3. ⊿								OBL species	x 1	=
ч. 5.						· ·		FAC species	x 3	. =
						= Total Cover		FACU species UPL species	x 4	. = ; =
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(A)	(B)
1.	Lolium multiflorum				90%	yes	FAC	Prevalence Index = B/A	=	
2. 3.						· ·				
4. 5.				•		· ·		Hydrophytic Vegetation Rapid Test	n Indicators: for Hydrophytic Ve	egetation
6.						· ·		x Dominance	Test is $>50\%$	-
7. 8.						· ·		Morphologic	cal Adaptations ⁽¹⁾	(Provide supporting
9. 10						· ·		data in Rem Wetland No	narks or on a sepa n-Vascular Plants	arate sheet)
11				•				Problematic	Hydrophytic Veg	etation ⁽¹⁾ (Explain)
					90%	= Total Cover		(1) Indicator	rs of hydric soil an	d wetland hydrology
	Woody Vine Stratu	m (Plot size:)				must be pre	sent, unless distu	rbed or problematic.
1		-						Hydrophytic		
2.						· ·		Vegetation	Ň	
						= Total Cover		rresent?	Yes	<u>x NO</u>
	% Bare Ground in I	Herb Stratum	10							
	Remarks:			-						
	NGHIQINƏ.									

(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks	
10	10VD 2/2	100							
0-16	101R 3/2	95%	10YR 4/6	5	сс	M	sicl		
6-20	10YR 3/2	90%	10YR 4/6	10	С	М	sicl		
			·				·		
1)Type: C=	Concentration, I	D=Depletio	n, RM=Reduced Matri	ix, CS=Cove	ered of Coated	Sand Grains. (2)L	_ocation: PL=Pore Linir	ng, M=Matrix.	
vdric Soi	I Indicators: (Ap	plicable to	all LRRs. unless of	herwise no	ted.)		Indicators of Proble	matic Hydric Soils(3).	
<i>J</i>					Sandy Dada	(() E)			
	Histic Epipedo	on (A2)			Stripped Mat	rix (S6)		Red Parent Material (TF2)	
	Black Histic (A	(3) Edo (44)			Loamy Muck	y Mineral (F1)		Other (Explain in Remarks)	
	Depleted Belo	w Dark Sur	face (A11)		Loamy Gleye	ed Matrix (F2)			
	Thick Dark Su	rface (A12))		Depleted Ma	trix (F3)	(3) indicators of hyd	drophytic vegetation	
	Sandy Mucky Sandy Gleyed	Matrix (S4)		Depleted Dark	rk Surface (F6)	unless disturbed or	problematic.	
					Redox Depre	essions (F8)			
estrictive	layer (if presen	it):							
Туре:									
Depth (in	ches):						Hydric Soil Present	? Yes No	x
	LOGY	tors:							
HYDRO Vetland Hy Primary Ind	LOGY ydrology Indicat	tors: n of one rec	quired: (check all that	apply)				Secondary Indicators (2 or more required)	
HYDRO Vetland Hy rimary Ind	LOGY ydrology Indica licators (minimun Surface Water	tors: n of one rec	quired: (check all that	apply)	Water Staine	d Leaves (B9) (e	xcept MLRA	Secondary Indicators (2 or more required)	. 1,2
HYDRO Vetland H rimary Ind	LOGY ydrology Indicat jicators (minimun Surface Water Ta High Water Ta	tors: n of one rec r (A1) able (A2)	quired: (check all that	apply)	Water Staine	d Leaves (B9) (e 1 4B)	xcept MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLR/ 4A, and 4B)	. 1,2
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SOIL

SP-23 Sampling Point:

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
	Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-24	
	Investigator(s):	A. Martin			Section, Towns	ship, Range:	16, T12S, R0)2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, con	vex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44.	529142° N	Long:	-123.933778° W	Datum: HA	ARN NAD83
	Soil Map Unit N	lame: Clacka	mas variant silt loam			NWI class	sification:	upland		
	Are Climatic / hydro	blogic conditions	on the site typical for this t	ime of y	ear?	Yes:	x	No:	(If	no explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly dis	- sturbed?	Are"Normal (Circumstances" present?	Yes	x No
	Are Vegetation	Soil	or Hydrology		Naturally proble	ematic?	(If needed e	xplain any answers in Rema	urks)	
			Attach aita man	ahou	ving compli	na noint los		encosto important	faaturaa at	_
	SUMMART	r findings	- Attach site map	snov	ving sampli	ng point iot	cations, tr	ransects, important	leatures, et	u.
	Hydrophytic Vegeta Hydric Soil Present	ation Present? ?	Yes <u>x</u> Yes	No No	x	Is the Sample	d Area within	n a Wetland?		
	Wetland Hydrology	Present?	Yes	No	<u> </u>			Yes		No <u>x</u>
	Remarks:	Plot located on	north side of wetland corri	dor that	straddles creek					
	VEGETATION	I - Use scien	tific names of plar	its.	Absolute	Dominant	Indicator	Deminence Test Works	h	
	Tree Stratum	(Plot size:)	% Cover	Species?	Status	Dominance Test Works	neet:	
1.								Number of Dominant Spe That are OBL, FACW, or	cies FAC:	1 (A)
2.				-				-		()
3. 4.				-				Species Across All Strata	nt ::	<u> </u>
						= Total Cover		Percent of Dominant Spe	cies	
								That are OBL, FACW, or	FAC:	(A/B)
	Sapling/Shrub Stra	tum (Plot size:)						
1.				-				Prevalence Index works	sheet:	Multiply by:
2. 3.				-				OBL species	x ^	1 =
4. 5.				-				FACW species	x2	2 = 3 =
				-		Tatal Osura		FACU species	x 4	1 =
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	X :)(B)
1.	Lolium multiflorum				100%	ves	FAC	Prevalence Index = B/A =		
2.				-				-		
3. 4.				-				Hydrophytic Vegetation	Indicators:	
5. 6.				-				Rapid Test f	or Hydrophytic V Test is >50%	egetation
7.				-				Prevalence I	ndex is $<3.0^{(1)}$	
8. 9.				-				Morphologic	arks or on a separations	(Provide supporting arate sheet)
10. 11.				-				Wetland Nor Problematic	n-Vascular Plants Hydrophytic Vec	s ⁽¹⁾ letation ⁽¹⁾ (Explain)
				-						
					100%	= Total Cover		(1) Indicators must be pres	s of hydric soil ar sent, unless distu	id wetland hydrology urbed or problematic.
	Woody Vine Stratu	m (Plot size:)						
1.				-				Hydrophytic		
۷.				-				Present?	Yes	xNo
						= Total Cover				
	% Bare Ground in I	Herb Stratum		-						
	Remarks:									

SP-24

Depth	Matrix	0/	Color (maint)	0/		1 oc (2)	Toutura	Bomorko
(incries)		70		70	Type (1)	LOC (2)	I exture	Kemarks
-11	10YR 3/2	100	1078 3/4	2		M	sicl	
4-20	10YR 3/2	97%	10YR 4/4	5	<u> </u>	M	sici	
	·							
)Type: C=	Indicators: (An	D=Depletion	n, RM=Reduced Matri	x, CS=Cove	ted.)	Sand Grains. (2)L	Indicators of Proble	ematic Hvdric Soils(3).
,	Histosol (A1)				Sandy Redo	NY (85)		2 cm Muck (A10)
	Histic Epipedo	on (A2)	-		Stripped Ma	trix (S6)		Red Parent Material (TF2)
	Black Histic (A	43) fido (A4)	-		Loamy Muck	(F1)		Other (Explain in Remarks)
	Depleted Belo	ilde (A4) w Dark Sui	face (A11)		Loamy Gley	ed Matrix (F2)		
	Thick Dark Su	Inface (A12))		Depleted Ma	atrix (F3)	(3) indicators of hy	vdrophytic vegetation
	Sandy Mucky Sandy Gleved	Mineral (S)		Depleted Da	Surface (F6) ark Surface (F7)	and wetland hydro unless disturbed o	logy must be present, r problematic.
			, -		Redox Depr	essions (F8)		
estrictive	layer (if presen	nt):						
Туре:								
Depth (inc	hes):						Hydric Soil Present	t? Yes No x
IYDROL	_OGY	tors:						
IYDROL Vetland Hy rimary Indi	-OGY rdrology Indicar cators (minimun	tors: n of one rec	quired: (check all that a	apply)				Secondary Indicators (2 or more required)
HYDROL Vetland Hy Primary Indi	-OGY rdrology Indica cators (minimun	tors: n of one rec r (A1)	quired: (check all that a	apply)		ed Leaves (B9) (e	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2
HYDROL Vetland Hy Irimary Indi	LOGY rdrology Indica cators (minimum Surface Water High Water Ta School (Mater Ta	tors: n of one red r (A1) able (A2)	quired: (check all that a	apply)	Water Staine 1,2,4A, an	ed Leaves (B9) (e d 4B)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,2 4A, and 4B) Under Stained Research (200)
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IYDROL Vetland Hy rimary Indi ield Obser urface Wat vater Table aturation P ncludes ca	DOGY drology Indicat cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: ter Present? Present? pillary fringe)	tors: n of one red r (A1) able (A2) 3) (B1) oosits (B2) (B3) rrust (B4) (B5) rracks (B6) sible on Aer etated Cond Yes Yes	quired: (check all that a 	apply) No No No	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Explained x x x x	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	Except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
HYDROL Vetland Hy Primary Indi Primary Indi Second States Second States Second States Second States Second States Second States	DOGY drology Indicat cators (minimun Surface Water High Water Tat Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veget rvations: ter Present? Present? pillary fringe) ecorded Data (st	tors: n of one red r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Cond Yes Yes Yes	quired: (check all that a ial imagery (B7) cave Surface (B8)	apply) No No No No	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen St Oxidized Rh Presence of Recent iron Stunted or S Other (Explained x x x x x	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) 1A, and 4B) 1D_Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
	-OGY drology Indica cators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations: ter Present? Present? pillary fringe) coorded Data (st	tors: n of one red r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Cond Yes Yes Yes	quired: (check all that a 	apply) No No No ial photos, p	Water Staine 1,2,4A, an Salt Crust (le Aquatic Inve Hydrogen SI Oxidized Rh Presence of Recent iron Stunted or S Other (Explained x x x x	ed Leaves (B9) (e d 4B) 311) irrtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille the stressed Plants (D ain in Remarks) Depth (inches): Depth (inches): Depth (inches): ttions), if available	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required)
IYDROL Vetland Hy rimary Indi ield Obser urface Wat vater Table aturation P ncludes ca escribe Re	COGY drology Indicat cators (minimum Surface Water High Water Ta Saturation (A3) Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations: ter Present? Present? pillary fringe) coorded Data (st	tors: n of one red r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) ible on Aer etated Cond Yes Yes Yes	quired: (check all that a ial imagery (B7) cave Surface (B8)	apply)	Water Staine 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen Si Oxidized Rh Presence of Recent iron Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) 311) irtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille Stressed Plants (D ain in Remarks) Depth (inches): Depth (inches): Depth (inches): ctions), if available	except MLRA Living Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required)

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	,
	Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-25	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	02W		
	Landform (hillslope	, terrace, etc.):	terrace L	ocal relie	ef (concave, cor	ivex, none):	none		Slope (%):	6%
	Subregion (LRR):	LRR A		_	Lat: 44	.529142° N	Long:	-123.933778° W	Datum:	HARN NAD83
	Soil Map Unit N	lame: <u>Clacka</u>	mas variant silt loam			NWI class	ification:	upland		
	Are Climatic / hydro	ologic conditions	on the site typical for this	time of y	vear?	Yes:	x	No:		(If no explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly di	sturbed?	Are"Normal (Circumstances" present?	Yes	s x No
	Are Vegetation	Soil	or Hydrology		- Naturally probl	ematic?	(If needed, e	explain any answers in Rema	arks.)	
	SUMMARY O	F FINDINGS	- Attach site ma	p shov	- ving sampli	ing point loc	ations, tr	ransects, important	features.	etc.
	Hydrophytic Vegeta	ation Present?	Yes x	No		0.	,	· •	,	
	Hydric Soil Present Wetland Hydrology	? Present?	Yes x Yes x	No No		Is the Sample	d Area withir	n a Wetland? Yes	x	Νο
	Remarks:	Plot located in v	vetland bordering north s	ide of cre	ek .					
	Remaine.		venting bordening north o							
	VEGETATION		tific names of pla	nte						
	VEGETATION	- 036 301611	tine names of pla	1113.	Absolute	Dominant	Indicator	Dominance Test Works	heet:	
	Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Spe	ecies	
1. 2				_				That are OBL, FACW, or	FAC:	(A)
2. 3.				_				Total Number of Domina	nt	
4.				-				_ Species Across All Strata	1:	<u> </u>
						= Total Cover		Percent of Dominant Spe That are OBL_EACW_or	cies FAC:	100 (A/B)
	Sapling/Shrub Stra	tum (Plot size:)						(**2)
1.				_				Prevalence Index work	sheet:	
2. 3.				_				Total % Cover of: OBL species		x 1 =
4.				_				FACW species		x 2 =
5.				_				FAC species		x 3 = x 4 =
	Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species Column Totals:		_x 5 =(A) (B)
1	Lolium multiflorum				100%	VAS	FAC	Prevalence Index = B/A =		
2.				_	100 /0	yco	1710			
3. 4.				_				Hydrophytic Vegetation	Indicators:	
5. 6.				_				Rapid Test 1	or Hydrophyt Test is >50%	ic Vegetation
7. 8				_				Prevalence	Index is <3.0	(1)
9.				_				data in Rem	arks or on a s	separate sheet)
10 11				_				Wetland No Problematic	n-Vascular Pl Hydrophytic	ants ⁽¹⁾ Vegetation ⁽¹⁾ (Explain)
					100%	= Total Cover		(1) Indicator	s of hydric so	il and wetland hydrology
					10070			must be pre	sent, unless o	disturbed or problematic.
	Woody Vine Stratu	m (Plot size:		_)						
1. 2.				_				Hydrophytic Vegetation		
						= Total Cover		Present?	Yes	s_xNo
						. 5101 00401				
	% Bare Ground in I	Herb Stratum		_						
	Remarks:									

							oumpling rom.	51-25
SOIL Profile Dec	cription: (Doco	ribo to the	lanth paadad to da	ourmont the	ndicator of a	onfirm the above	non of indicators)	
rome Des	cription: (Desc	ride to the (depth needed to do	cument the	ndicator of c	confirm the abser	nce of indicators.)	
Depth	Matrix	0/	Redox Features	0/	T (1)	1 (0)	The form	Descerta
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	lexture	Remarks
)-8	10YR 3/2	100					sicl	
3-14 4-20	10YR 3/2	95%	10YR 4/4	5	<u> </u>	M	sicl	
4-20	10111 3/2	3070	1011(4/4	10	0		30	
	· ·		·			·		
	· ·							
	Concentration	D-Depletion	PM-Peduced Matr		red of Costed	Sand Grains (2)	ocation: PI -Pore Lin	ing M-Matrix
T)Type. C-			, RM-Reduced Mail	IX, C3-C0ve	eu or coaleu	Sanu Grains. (2)		
lydric Soil	Indicators: (Ap	pplicable to	all LRRs, unless of	herwise not	ed.)		Indicators of Probl	lematic Hydric Soils(3).
	Histosol (A1)				Sandy Redo	ox (S5)		2 cm Muck (A10)
	Histic Epipedo	on (A2)			Stripped Ma	trix (S6)		Red Parent Material (TF2)
	Black Histic (A	A3) Ifido (A4)			Loamy Mucl	ky Mineral (F1)	-	Other (Explain in Remarks)
	Depleted Belo	ow Dark Surf	ace (A11)		Loamy Gley	ed Matrix (F2)		
	Thick Dark Su	urface (A12)			Depleted Ma	atrix (F3)	(3) indicators of h	ydrophytic vegetation
	Sandy Mucky Sandy Glever	Mineral (S1)	X	Redox Dark	Surface (F6) ark Surface (F7)	and wetland hydro	blogy must be present, or problematic
					Redox Depr	essions (F8)		
Poetrictivo	lavor (if prosor	nt).						
resultive	layer (li preser	iii).						
Type:								
Depth (inc	ches):						Hvdric Soil Presen	t? Yes x No
Depth (inc Remarks:	ches):						Hydric Soil Presen	t? Yes <u>x</u> No
Depth (ind	ches):						Hydric Soil Presen	t? Yes <u>x</u> No
Depth (ind	ches):						Hydric Soil Presen	t? Yes <u>x</u> No
Depth (inc emarks:	LOGY	itors.					Hydric Soil Presen	t? Yes <u>x</u> No
Depth (ind Remarks: HYDROI Vetland Hy Primary Ind	LOGY rdrology Indica icators (minimur	stors: m of one req	uired: (check all that	apply)			Hydric Soil Presen	t? Yes <u>x</u> No Secondary Indicators (2 or more required)
Depth (ind Remarks: YUDROI Vetland Hy 'rimary Ind	LOGY rdrology Indica icators (minimur	ntors: m of one req	uired: (check all that	apply)			Hydric Soil Presen	<u>Secondary Indicators (2 or more requir</u> ed)
Depth (ind Remarks: HYDROI Vetland Hy Irimary Ind	LOGY /drology Indica icators (minimur Surface Wate High Water Ta	ntors: m of one req r (A1) able (A2)	uired: (check all that	apply)	- Water Stain 1.2.4A, an	ed Leaves (B9) (e d 4B)	Hydric Soil Presen	t? Yes x No
Depth (ind Remarks: HYDROI Vetland Hy rimary Ind	LOGY /drology Indica icators (minimur Surface Wate High Water Ta Saturation (A3	ators: m of one req er (A1) able (A2) 3)	uired: (check all that	apply)	- Water Stain 1,2,4A, an Salt Crust (E	ed Leaves (B9) (e d 4B) 311)	Hydric Soil Presen	Secondary Indicators (2 or more required)
Depth (ind Remarks: IYDROI Vetland Hy rimary Ind	LOGY vdrology Indication icators (minimur Surface Wate High Water Tation (A3 Water Marks (A) Water Marks (A) Sediment Der	ators: m of one req er (A1) able (A2) 3) (B1) oseits (B2)	uired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) uifide Odor (C1)	Hydric Soil Presen	Secondary Indicators (2 or more required)
Depth (ind Remarks: YOUND Vetland Hy rimary Ind	LOGY /drology Indica icators (minimur Surface Wate High Water Ta Saturation (A: Water Marks (Sediment Dep Drift Deposits	ators: m of one req er (A1) able (A2) 3) (B1) posits (B2) (B3)	uired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along	Hydric Soil Presen	Secondary Indicators (2 or more required)
Depth (ind Remarks: HYDROI Vetland Hy Irimary Ind	LOGY /drology Indica icators (minimur Surface Wate High Water Ta Saturation (A2 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	ators: m of one req rr (A1) able (A2) 3) (B1) possits (B2) (B3) Crust (B4)	uired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulifide Odor (C1) izospheres along Reduced Iron (C4	Hydric Soil Presen	Secondary Indicators (2 or more required)
Depth (ind iemarks: i	COGY vdrology Indica icators (minimur Surface Wate High Water Tr Saturation (A' Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C	ators: m of one req rr (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Crust (B6)	uired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (F Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C4 Reduction in Tille Transed Plante (D	Hydric Soil Presen	Secondary Indicators (2 or more required)
Depth (ind emarks: IYDROI /etland Hy rimary Indi	LOGY Variable Statuse	ators: m of one req able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerii	uired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) virtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C4 Reduction in Tille Stressed Plants (D ain in Remarks)	Hydric Soil Presen	Secondary Indicators (2 or more required)
Depth (ind emarks: IYDROI /etland Hy rimary Ind	LOGY vdrology Indica icators (minimur Surface Wate High Water Tr Saturation (A2 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veg	etors: m of one req or (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerie etated Conc	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (F Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C2 Reduction in Tille tressed Plants (D ain in Remarks)	Hydric Soil Presen	Secondary Indicators (2 or more required)
Depth (ind Remarks: HYDROI Vetland Hy rimary Ind	LOGY Vorology Indication icators (minimur Surface Wate High Water Tation (A: Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vegu rvations:	ators: m of one req er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerie etated Conc	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C4 Reduction in Tiller tressed Plants (D ain in Remarks)	Hydric Soil Presen	Secondary Indicators (2 or more required)
Depth (ind Remarks: HYDROI Vetland Hy Primary Ind Frimary Ind	COGY vorology Indica icators (minimur Surface Wate High Water Ta Saturation (AC Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vrations: ter Present?	ators: m of one req rr (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aerii etated Conc Yes	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) ulfide Odor (C1) iizospheres along Reduced Iron (C- Reduction in Tille Stressed Plants (D ain in Remarks) Depth (inches):	Hydric Soil Presen	Yes x No Secondary Indicators (2 or more required)
Depth (ind Remarks: HYDROI Wetland Hy Primary Ind Field Obse Surface Wa	LOGY vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks (Sediment Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege rvations: ter Present?	ttors: m of one req rr (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aeri etated Conc Yes	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduction in Tille tressed Plants (D ain in Remarks) 	Hydric Soil Presen	Secondary Indicators (2 or more required)
Depth (ind Remarks: HYDROI Vetland Hy Primary Ind Primary Ind Siriary Ind Primary Ind Prim	LOGY vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A: Water Marks i Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vegu rvations: ter Present? Present?	ators: m of one req er (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aeri- etated Conc Yes Yes	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduction in Tille Stressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	Hydric Soil Presen	Yes x No Secondary Indicators (2 or more required)

Remarks:

US Army Corps of Engineers

Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	,	
	Applicant/Owner:	City of Lebanor	ı		State:	OR		Sampling Point:	SP-26		
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R	02W			
	Landform (hillslope	e, terrace, etc.):	terrace	Local reli	ef (concave, cor	nvex, none):	none		Slope (%):		5%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum:	HARN NAD	83
	Soil Map Unit N	lame: <u>Clacka</u>	amas variant silt loam			NWI class	ification:	upland			
	Are Climatic / hydro	ologic conditions	on the site typical for this	s time of y	/ear?	Yes:	x	No:	_	(If no explai	n in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly di	isturbed?	Are"Normal	Circumstances" present?	Yes	<u>x</u>	No
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	explain any answers in Remain	arks.)		
	SUMMARY O	F FINDINGS	- Attach site ma	p shov	ving sampl	ina point loc	ations. ti	ransects. important	features.	etc.	
	Hydrophytic Veget	ation Present?	Ves y	No	0 1	0.	,	<i>·</i> •			
	Hydric Soil Present	t? Present?	Yes	No	x	Is the Sample	d Area withir	n a Wetland? Yes			No x
	Remarks:	Plot located at	south end of TL 2802 on	north sid	e of creek in un	land		100		-	110
	Kemano.	T lot located at		noraroid							
	VECETATION		tific nomes of als								
	VEGETATION	I - Use scier	itine names of pla	nts.	Absolute	Dominant	Indicator	Dominance Test Works	heet:		
	Tree Stratum	(Plot size:		_)	% Cover	Species?	Status	Number of Dominant Spo	ecies		
1.				_				That are OBL, FACW, or	FAC:		<u>1</u> (A)
2. 3.				_				Total Number of Domina	nt		
4.				_				_ Species Across All Strata	a:		<u>1</u> (B)
						= Total Cover		Percent of Dominant Spe	cies		00 (A/D)
	Sapling/Shrub Stra	tum (Plot size:		_)				That are OBL, FACW, of	FAC.		100 (A/B)
1.								Prevalence Index work	sheet:		
2.				_				Total % Cover of:		Multi	ply by:
3. 4.				_				FACW species		x 1 = x 2 =	
5.				_		·		FAC species		_x 3 = x 4 =	
	Llash Chrohum	(Dist size)	E ft die	`		= Total Cover		UPL species		x 5 =	(D)
	Herb Stratum	(PIOL SIZE.	5 11 012	_)				Column Totals.		(A)	(B)
1. 2.	Lolium multiflorum			_	100%	yes	FAC	Prevalence Index = B/A =	=		
3. ⊿				_				Hydrophytic Vogotation	Indicators		
ч. 5.				_		·		Rapid Test	for Hydrophyt	ic Vegetation	
6. 7.				_		·		x Dominance Prevalence	Test is >50% Index is <3.0	(1)	
8. 0				_				Morphologic	al Adaptation	ns ⁽¹⁾ (Provide	supporting
9. 10				_		·		Wetland No	n-Vascular P	ants ⁽¹⁾	
11.	·					·		Problematic	Hydrophytic	Vegetation ⁽¹⁾	(Explain)
					100%	= Total Cover		(1) Indicator	s of hydric so	il and wetlan	d hydrology
	Woody Vine Stratu	m (Plot size:)				india be pre			i obiematic.
1.								Hydrophytic			
2.				_		·		Vegetation Present?	Ve	, v	No
						= Total Cover			100	<u> </u>	110
	% Bare Ground in I	Herb Stratum									
	Remarks:			-							
	. comanto.										

							Sampling Point:	SP-26
SOIL								
Profile Des	scription: (Desci	ribe to the	depth needed to doo	ument the	e indicator of co	onfirm the abse	nce of indicators.)	
Depth	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
		100					-1-1	
0-9	10YR 3/2	100	10VP 3//	5			SICI	
9-20	IUTR JIZ	90 /0	IUTR 3/4	0		Ivi	5101	
1								
(1)Type: C=	=Concentration, [D=Depletior	n, RM=Reduced Matri	x, CS=Cov	vered of Coated S	and Grains. (2)	Location: PL=Pore Lin	ing, M=Matrix.
Undela Sal	'l ladiactoros (Ar				- 4 - 4 - 1		Indiantary of Drobi	
Hyaric Soil	I Indicators: (Ap	plicable to) all LKKS, unless ou	nerwise ne	stea.)		Indicators of Probi	ematic Hydric Solis(3).
	Histosol (A1)				Sandy Redox	(S5)		2 cm Muck (A10)
	Histic Epipedo	on (A2)	-		Stripped Matr	ix (S6)		Red Parent Material (TF2)
	Black Histic (A	(3)	-		Loamy Mucky	/ Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Sun Depleted Belo	ide (A4) w Dark Sur	face (A11)		(except MLKA	A 1) od Matrix (E2)		
	Thick Dark Su	Inface (A12))		Depleted Mat	rix (F3)	(3) indicators of hy	vdrophytic vegetation
	Sandy Mucky	Mineral (S1	1)		Redox Dark S	Surface (F6)	and wetland hydro	plogy must be present,
	Sandy Gleyed	Matrix (S4) _		Depleted Darl	k Surface (F7)	unless disturbed o	or problematic.
			-		Redox Depres	ssions (F8)		
Restrictive	e layer (if presen	it):					1	
Type:								
Depth (in	iches):						Hvdric Soil Presen	t? Yes No x
2000								
Remarks:							•	
HYDRO	LOGY							
Wetland Hy	ydrology Indica	tors:						
Primary Ind	dicators (minimun	n of one rec	juired: (check all that a	apply)	_			Secondary Indicators (2 or more required)

Wetland Hydrology Indicators:										
Primary Indicators (minimum of one required: (check all that	apply)			Secondary I	ndicators (2 or more required)					
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial imagery (B7) Sparsely Vegetated Concave Surface (B8)		Water Stained Leaves (B9) (except MLRA 1,2,4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)			Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)					
Field Observations:										
Surface Water Present? Yes	No	x	Depth (inches):	Wetland Hy	drology Present?					
Water Table Present? Yes	No	x	Depth (inches):	Yes	No x					
Saturation Present? Yes	No	X	Depth (inches):	_						
Remarks:	rial photos,	previous insp	ections), if available:							
US Army Corps of Engineers				Western Mou	ntains, Valleys and Coast - Version 2.0					
	Project/Site:	Airport Industria	ıl		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
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	Applicant/Owner:	City of Lebanon	I		State:	OR		Sampling Point:	SP-27	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0)2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	f (concave, cor	nvex, none):	concave		Slope (%):	0%
	Subregion (LRR):	LRR A		_	Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HAI	RN NAD83
	Soil Map Unit N	lame: Dayton	silt loam	_		NWI class	ification:	upland		
	Are Climatic / hydro	ologic conditions	on the site typical for this t	ime of y	ear?	Yes:	x	No:	(If n	io explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly di	isturbed?	Are"Normal C	Circumstances" present?	- Yes x	No
	Are Vegetation	Soil	or Hydrology		Naturally probl	lematic?	(If needed, ex	xplain any answers in Rem	arks.)	
	SUMMARY O	F FINDINGS	- Attach site map	show	ing sampli	ing point loc	ations, tr	ransects, important	features, etc	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes x Yes	No No	x	Is the Sample	d Area within	n a Wetland?		N
	wetiand Hydrology	Present?	Yes		<u>x</u>			Yes	s <u>x</u>	N0
	Remarks:	Plot located in w	vetland area on north side	of creek	ζ.					
	VEGETATION	- Use scien	tific names of plar	its.	Absolute	Dominant	Indicator	Dominance Test Works	sheet:	
	Tree Stratum	(Plot size:)	% Cover	Species?	Status			
1.				_				That are OBL, FACW, o	r FAC:	<u> </u>
2. 3.				-		· ·		- Total Number of Domina	ant	
4.				-		· ·		Species Across All Strat	a:	<u> 1 (B)</u>
						= Total Cover		Percent of Dominant Sp	ecies	
	Sapling/Shrub Strat	tum (Plot size:)				That are OBL, FACW, o	r FAC:	<u>100</u> (A/B)
4									ahaati	
1. 2.				-		· ·		Total % Cover of:	(Sheet:	Multiply by:
3. 4.				-		· ·		OBL species	x 1	=
5.				-		· ·		FAC species	x 3	=
						= Total Cover		FACU species UPL species	×4 ×5	=
	Herb Stratum	(Plot size:	5 ft dia.)				Column Totals:	(A)	(B)
1.	Lolium multiflorum			-	95%	·		Prevalence Index = B/A		
2. 3.				-				_		
4. 5				-		· ·		Hydrophytic Vegetatio	n Indicators: for Hydrophytic Ve	eretation
6.				-		· ·		x Dominance	Test is >50%	5
7. 8.				-		· ·		Prevalence Morphologi	cal Adaptations ⁽¹⁾	Provide supporting
9.				-		· ·		data in Ren	narks or on a separ	rate sheet)
10 11	·			-		· ·		Problematic	c Hydrophytic Vege	etation ⁽¹⁾ (Explain)
				-	05%	Tatal Osuar		(4) la dia ata	na séla sala sali sa	d
					95%	= Total Cover		(1) Indicato must be pre	esent, unless distur	bed or problematic.
	Woody Vine Stratur	m (Plot size:)						
1.				-				Hydrophytic		
۷.				-				Present?	Yes <u>x</u>	No
						= Total Cover				
	% Bare Ground in H	Herb Stratum	5	-						
	Remarks:									

SP-27

Depth	Matrix	6/	Redox Features	0/	T	Lec (0)	- 		-	
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	LOC (2)	l exture	·	Rer	marks
0-5	10YR 3/2	98	10YR 4/4	2	С	PL	sicl		2% OR	
5-10	10YR 3/2	95%	10YR 4/4	5	С	М	sicl			
10-16	10YR 3/2	90%	10YR 4/4	10	C	M	sicl			
16-20	10YR 4/2	95%	10YR 5/4	5	<u> </u>	M	Cl			
	· ·				<u> </u>					
	· ·					·	-			
(1)Type: C-	Concentration	D=Depletion	RM=Reduced Motri		ed of Costed	Sand Graine (2)	Location: PL =Pore Lini	na M=Matrix		
(1)13pe. 0-				A, 00-00vel	Sa or Coaleu			ing, m-matrix.	<u> </u>	
Hydric Soil	Indicators: (Ap	oplicable to	all LRRs, unless ot	herwise note	ed.)		Indicators of Proble	matic Hydric	Soils(3).	
	1 Bake 1 (A.4)				Canada D. /			O are March 1	10)	
	HISTOSOI (A1)	Δ2) nc	-		Stripped Mot	x (55) rrix (S6)		2 CM MUCK (A	AIU) Asterial (TE2)	
	Black Histic (A	A3)	-		Loamy Muck	y Mineral (F1)		Other (Explai	n in Remarks)	
	Hydrogen Sul	fide (A4)	-		(except MLR	Á 1)			,	
	Depleted Belo	w Dark Sur	face (A11)		Loamy Gleye	ed Matrix (F2)	(0) is direct.	duo ulu: -t' -	-ti	
	I hick Dark Su	Intace (A12)	-	~	Depleted Ma	trix (F3) Surface (E6)	(3) indicators of hy	drophytic veget	ation	
	Sandy Mucky	Matrix (S4)	X	Depleted Dark	rk Surface (F0)	unless disturbed or	ogy must be pr	८२८मा,	
			,		Redox Depre	essions (F8)		,		
							1			
Restrictive	layer (if preser	nt):								
Type:										
, ,										
Depth (inc	hes):						Hydric Soil Present	? Yes	х	No
Pomorles										
INCIDAINS.										
HYDROI	OGY									
HYDROL Wetland Hy	.OGY drology Indica	tors:								
HYDROL Wetland Hy Primary Indi	.OGY drology Indica cators (minimur	i tors: n of one rec	uired: (check all that a	apply)				Secondary In	dicators (2 or r	nore required)
HYDROL Wetland Hy Primary Indi	.OGY drology Indica cators (minimur	tors: n of one rec	juired: (check all that a	apply)	- Water Staing	ord Leaves (RQ) (c	avcent MI RA	Secondary In	dicators (2 or r	nore required)
HYDROL Wetland Hy Primary Indi	.OGY drology Indica cators (minimur Surface Wate High Water Ta	ntors: n of one record r (A1) able (A2)	uired: (check all that a	apply)	- Water Staine 1,2,4A, and	td Leaves (B9) (ε 1 4Β)	except MLRA	Secondary In	dicators (2 or r Water Stainec 4A, and 4B)	<u>more requir</u> ed) I Leaves (B9) (MLRA 1,2,
HYDROL Wetland Hy Primary Indi	.OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A:	t ors: n of one rec r (A1) able (A2) 3)	juired: (check all that a	apply)	Water Staine 1,2,4A, and Salt Crust (B	ed Leaves (B9) (c d 4B) 11)	except MLRA	Secondary In	dicators (2 or r Water Stainec 4A, and 4B) Drainage Patt	<u>more requir</u> ed) d Leaves (B9) (MLRA 1,2, erns (B10)
HYDROL Wetland Hy Primary Indi	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks (tors: n of one rec r (A1) able (A2) 3) (B1) vestic (D2)	uired: (check all that a	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver	ed Leaves (B9) (e d 4B) 11) tebrates (B13)	except MLRA	Secondary In	dicators (2 or r Water Staineo 4A, and 4B) Drainage Patt Dry-Season W	nore required) I Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2)
HYDROL Wetland Hy Primary Indi	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A: Water Marks (Sediment Dep Drift Deposite	r (A1) able (A2) 3) (B1) oosits (B2) (B3)	uired: (check all that a	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi	ed Leaves (B9) (e d 4B) 11) Iftebrates (B13) Jiftide Odor (C1) Zospheres along	except MLRA	Secondary In	dicators (2 or r Water Staineo 4A, and 4B) Drainage Patt Dry-Season V Saturation Vis Geomorphic F	nore required) I Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS 20sition (D2)
HYDROL Wetland Hy Primary Indi	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A Water Marks i Sediment Dep Drift Deposits Algal Mat or C	r (A1) able (A2) 3) (B1) oosits (B2) (B3) crust (B4)	uired: (check all that a	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C	except MLRA I Living Roots (C3) 4)	Secondary In	dicators (2 or r Water Staineo 4A, and 4B) Drainage Patt Dry-Season V Saturation Vis Saturation Vis Shallow Aquit	nore required) I Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS 20sition (D2) ard (D3)
HYDROL Wetland Hy Primary Indi	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A: Water Marks (Sediment Der Drift Deposits Algal Mat or C Iron Deposits	tors: m of one rec r (A1) able (A2) 3) (B1) posits (B2) (B3) crust (B4) (B5)	uired: (check all that a	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron R	ed Leaves (B9) (e d 4B) 11) Ifide Odor (C1) Zospheres along Reduced Iron (C Reduction in Tille	except MLRA Living Roots (C3) 4) ed Soils (C6)	Secondary In	dicators (2 or r Water Staineo 4A, and 4B) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral 1	nore required) d Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS Position (D2) ard (D3) Fest (D5)
HYDROL Wetland Hy Primary Indi	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A Water Marks to Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundeita Y	tors: n of one rec r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Crust (B4) (B5) Crust (B6)	uired: (check all that a	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron F Stunted or S Other (Furthermotion)	ed Leaves (B9) (e d 4B) 11) Ifide Odor (C1) Zospheres along Reduced Iron (C Reduction in Tille tressed Plants (C	except MLRA Living Roots (C3) 4) ed Soils (C6))1) (LRR A)	Secondary In	dicators (2 or r Water Stainec 4A, and 4B) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral 1 Raised Ant UM.	more required) I Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A)
HYDROL Wetland Hy Primary Indi	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A Water Marks Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Veor	tors: n of one rec r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Crust (B4) (B5) Sracks (B6) sible on Aer etated Conc	uired: (check all that a - - - - - - - - - - - - - - - - - - -	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron f Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (E ain in Remarks)	except MLRA Living Roots (C3) 4) d Soils (C6) 01) (LRR A)	Secondary In	dicators (2 or r Water Stained 4A, and 4B) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral 1 Raised Ant M Frost-Heave H	more required) I Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7)
HYDROL Wetland Hy Primary Indi	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks i Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege	tors: n of one rec r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc	juired: (check all that a 	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen St Oxidized Rhi Presence of Recent iron f Stunted or Si Other (Expla	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) Jifide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (I ain in Remarks)	except MLRA Living Roots (C3) 4) d Soils (C6) 01) (LRR A)	Secondary In	dicators (2 or r Water Stained 4A, and 4B) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T FAC-Neutral T Raised Ant Mu Frost-Heave H	more required) d Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (C9 Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7)
HYDROL Wetland Hy Primary Indi	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A: Water Marks (Sediment Der Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege Vations:	tors: n of one rec r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc	uired: (check all that a 	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron F Stunted or Si Other (Expla	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (C ain in Remarks)	except MLRA I Living Roots (C3) 4) od Soils (C6) D1) (LRR A)	Secondary In	dicators (2 or r Water Stainec 4A, and 4B) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral 1 Raised Ant Mo Frost-Heave H	more required) d Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS Zosition (D2) ard (D3) Fest (D5) punds (D6) (LRR A) fummocks (D7)
HYDROL Wetland Hy Primary Indi	OGY drology Indica cators (minimur Surface Wate High Water Tr Saturation (A Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vego vations:	tors: n of one rec r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc	uired: (check all that a ial imagery (B7) ave Surface (B8)	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron f Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (E ain in Remarks) Depth (inches):	except MLRA Living Roots (C3) 4) ed Soils (C6) D1) (LRR A)	Secondary In	dicators (2 or r Water Stained 4A, and 4B) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral 1 Raised Ant M Frost-Heave H	more required) I Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7)
HYDROL Wetland Hy Primary Indi	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A: Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: ter Present?	tors: n of one rec r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Crusts (B6) sible on Aer etated Conc Yes Yes	iuired: (check all that a 	apply) 	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron f Stunted or S' Other (Expla	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches):	except MLRA I Living Roots (C3) 4) d Soils (C6) D1) (LRR A)	Secondary In	dicators (2 or r Water Stained 4A, and 4B) Drainage Patt Dry-Season V Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant M Frost-Heave H Irology Preser X	more required) d Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7) nt?
HYDROL Wetland Hy Primary Indi Field Obsen Surface Wa Water Table Saturation F	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A' Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vegu vations: ter Present?	tors: n of one rec r (A1) able (A2) 3) (B1) Doosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes Yes	iuired: (check all that a ial imagery (B7) ave Surface (B8)	apply) x No No	Water Stainer 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron f Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) 11) Itebrates (B13) Ilfide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (E ain in Remarks) Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) ed Soils (C6))1) (LRR A)	Secondary In	dicators (2 or r Water Stainec 4A, and 4B) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral 1 Raised Ant Mc Frost-Heave F	more required) I Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7) nt?
HYDROL Wetland Hy Primary Indi Field Obsen Surface Water Table Saturation F (includes ca	OGY drology Indica cators (minimur Surface Wate High Water Tr Saturation (Ač Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Algal Mat or C Iron Deposits Surface Soil Surface Soil Surface Soil Present? Present? pillary fringe)	tors: n of one rec r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes Yes	ial imagery (B7) ave Surface (B8)	apply) x No No No	Water Staine 1,2,4A, and Salt Crust (B Aquatic Invet Hydrogen St Oxidized Rhi Presence of Recent iron f Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (E ain in Remarks) Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) D1) (LRR A)	Secondary In	dicators (2 or r Water Stainec 4A, and 4B) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral 1 Raised Ant Mu Frost-Heave H Irology Presen X	nore required) I Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7) nt? No
HYDROL Wetland Hy Primary Indi Field Obsen Surface Wat Water Table Saturation F (includes ca Describe Re	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (AS Water Marks) Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: ter Present? Present? pillary fringe)	ttors: m of one record r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Concord Yes Yes Yes	ial imagery (B7) ave Surface (B8)	apply) 	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron f Stunted or S' Other (Expla	ed Leaves (B9) (e d 4B) 11) Itebrates (B13) Ilfide Odor (C1) Zospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) ed Soils (C6) D1) (LRR A)	Secondary In	dicators (2 or r Water Stainec 4A, and 4B) Drainage Patt Dry-Season V Saturation Vis Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant M Frost-Heave H Irology Presen X	more required) d Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS osition (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7) nt? No
HYDROL Wetland Hy Primary Indi Primary Indi Surface War Water Table Saturation F (includes ca Describe Re	OGY drology Indica cators (minimur Surface Wate High Water Tr Saturation (AC Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Algal Mat or C Iron Deposits Surface Soil Surface Soil Surface Soil Fresent? Present? pillary fringe) corded Data (sil	tors: n of one rec r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes Yes Yes	juired: (check all that a ial imagery (B7) ave Surface (B8)	apply) 	Water Stainer 1,2,4A, and Salt Crust (B Aquatic Invet Hydrogen St Oxidized Rhi Presence of Recent iron f Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches): Depth (inches):	except MLRA Living Roots (C3) 4) d Soils (C6) D1) (LRR A)	Secondary In	dicators (2 or r Water Stainec 4A, and 4B) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral 1 Raised Ant Mo Frost-Heave H Irology Presen X	nore required) I Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7) nt? No
HYDROL Wetland Hy Primary Indi Field Obsern Surface Wal Water Table Saturation F (includes ca Describe Re Remarks:	DOGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A: Water Marks i Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: ter Present? Present? pillary fringe) corded Data (st	tors: n of one rec r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes Yes Yes tream gauge	iuired: (check all that a ial imagery (B7) ave Surface (B8)	apply) 	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron F Stunted or Si Other (Explain x x x revious inspec	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) lifde Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (C ain in Remarks) Depth (inches): Depth (inches): Depth (inches): tions), if available	except MLRA I Living Roots (C3) 4) d Soils (C6) D1) (LRR A)	Secondary In	dicators (2 or r Water Stained 4A, and 4B) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant Ma Frost-Heave H Irology Presen X	more required) d Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (C9 Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) tummocks (D7) nt? No
HYDROL Wetland Hy Primary Indi Primary Indi Surface Wai Water Table Saturation F (includes ca Describe Re Remarks:	OGY drology Indica cators (minimur Surface Wate High Water Ta Saturation (A' Water Marks i Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vegu vations: ter Present? Present? pillary fringe) scorded Data (st	tors: n of one rec r (A1) able (A2) 3) (B1) boosits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aer etated Conc Yes Yes Yes tream gauge	ial imagery (B7) ave Surface (B8)	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen Su Oxidized Rhi Presence of Recent iron f Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) ulfide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches): Depth (inches): tions), if available	except MLRA (Living Roots (C3) 4) ed Soils (C6) (LRR A)	Secondary In	dicators (2 or r Water Stainec 4A, and 4B) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral T Raised Ant M Frost-Heave H Irology Presen X	more required) d Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS osition (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) Hummocks (D7) nt? No
HYDROL Wetland Hy Primary Indi Primary Indi Site of the second Field Obser Surface War Water Table Saturation F (includes ca Describe Re Remarks:	OGY drology Indica cators (minimur Surface Wate High Water Tr Saturation (AC Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Algal Mat or C Iron Deposits Surface Soil Surface Soil Sparsely Vego vations: ter Present? pillary fringe) corded Data (si	tors: n of one rec r (A1) able (A2) 3) (B1) Doosits (B2) (B3) Crust (B4) (B5) Crust (B4) (B6) Crust (B6) Crust (B4) (B6) Crust (B4) (B6) (B	ial imagery (B7) ave Surface (B8)	apply)	Water Staine 1,2,4A, and Salt Crust (B Aquatic Inver Hydrogen St Oxidized Rhi Presence of Recent iron f Stunted or S Other (Expla	ed Leaves (B9) (e d 4B) 11) rtebrates (B13) lifide Odor (C1) zospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches): Depth (inches): Depth (inches): titons), if available	except MLRA Living Roots (C3) 4) d Soils (C6) D1) (LRR A)	Secondary In	dicators (2 or r Water Stainec 4A, and 4B) Drainage Patt Dry-Season W Saturation Vis Geomorphic F Shallow Aquit FAC-Neutral 1 Raised Ant Mo Frost-Heave H Irology Presen X	nore required) I Leaves (B9) (MLRA 1,2, erns (B10) Vater Table (C2) ible on Aerial Imagery (CS Position (D2) ard (D3) Fest (D5) ounds (D6) (LRR A) 4ummocks (D7) nt? No

SOIL

	Project/Site:	City of Lebanor	1		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017		
	Applicant/Owner:	Airport Industria	al		State:	OR		Sampling Point:	SP-28		
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W			
	Landform (hillslope	, terrace, etc.):	terrace Lo	cal relie	- ef (concave, cor	nvex, none):	concave		Slope (%):		0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Lona:	-123.933778° W	Datum: I	HARN NAD83	1
	Soil Map Unit N	lame: Clacka	mas variant silt loam			NWI class	ification	upland			
	Are Climatic / bydro		on the site typical for this ti	me of v	oor?	Vec	v	No		If no explain i	n romarke)
	Are Vegetation			ine or y	Cianificantly di	inturbed?	Are"Normal C	No	Vaa		Ne
	Are vegetation	Soli	or Hydrology		Significantly di	isturbed?	Are Normal C	fircumstances" present?	res_	<u>x</u>	NO
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, ex	cplain any answers in Rema	irks.)		
	SUMMARY O	F FINDINGS	- Attach site map	shov	ving sampli	ing point loc	ations, tr	ansects, important	features, e	etc.	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes <u>x</u> Yes x	No No		Is the Sample	d Area within	a Wetland?			
	Wetland Hydrology	Present?	Yes x	No				Yes	x		No
	Remarks:	Plot located on	south side of creek								
	VEGETATION	l - Use scien	tific names of plan	ts.							
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	heet:		
	<u></u>	(1.101.0120)		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Claide	Number of Dominant Spe	cies		
1. 2.						·		That are OBL, FACW, or	FAC:	2	(A)
3.								Total Number of Dominar	nt	2	
4.						·		Species Across All Strata		2	(B)
						= Total Cover		Percent of Dominant Spe	cies FAC:	100	(A/B)
	Sapling/Shrub Strat	tum (Plot size:)					1710.		(,,,,,)
1.								Prevalence Index works	heet:		
2.								Total % Cover of:		Multiply	by:
3. 4.						·		OBL species FACW species	د د	< 1 = < 2 =	
5.								FAC species		< 3 =	
						= Total Cover		UPL species	;	< 4 =< < 5 =	
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	((A)	(B)
1.	Lolium multiflorum				80%	yes	FAC	Prevalence Index = B/A =	-		
2. 3.	Schedonorus aruno	dinaceus			20	yes	FAC				
4.								Hydrophytic Vegetation	Indicators:		
5. 6.						·		x Dominance	or Hydrophytic Test is >50%	vegetation	
7.								Prevalence I	ndex is <3.0 ⁽¹) (1) (5 · · ·	
8. 9.								data in Rem	al Adaptations arks or on a se	eparate sheet))
10								Wetland Nor	n-Vascular Pla	nts ⁽¹⁾	Typiain)
						·				egetation	zxpiairi)
					100%	= Total Cover		(1) Indicators	s of hydric soil	and wetland	hydrology
	Woody Vine Stratur	m (Plot size:)					sent, unicas u	starbed of pre	biematic.
1.								Hydrophytic			
2.								Vegetation			
						= Total Cover		Present?	Yes_	x	No
	W Date Ora	lash Ctart									
	% Bare Ground in H	nero Stratum									
	Remarks:										

								0. 20
OIL rofile Des	cription: (Desc	ribe to the o	depth needed to do	cument the	indicator of c	onfirm the abser	nce of indicators.)	
Depth (Inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
4	10YR 3/2	100					sicl	
8	10YR 3/2	95%	10YR 4/4	5	С	М	sicl	
18	10YR 3/2	90%	10YR 4/6	10	C	M	sicl	
	Concentration		DM=Doducod Mot		rad of Coated	Cond Craine (2)	anotion: DI =Doro Lin	ing M-Motrix
/Type: C=				thorwise no	red or Coaled	Sand Grains. (2)L	Indicators of Probl	omatic Hydric Soils(3)
June Son			an Liviva, unless o	ulei wise lio	.eu.)			
	Histosol (A1)	on (Δ2)			Sandy Redo	ox (S5) trix (S6)		_ 2 cm Muck (A10) Red Parent Material (TE2)
	Black Histic (A	A3)			Loamy Mucl	ky Mineral (F1)		Other (Explain in Remarks)
	Hydrogen Sul	fide (A4)	(111)		(except MLF	RA 1)		_
	Thick Dark Su	urface (A12)	ace (ATT)		Depleted Ma	ed Matrix (F2) atrix (F3)	(3) indicators of hy	vdrophytic vegetation
	Sandy Mucky	Mineral (S1)	х	Redox Dark	Surface (F6)	and wetland hydro	ology must be present,
	Sandy Gleyed	d Matrix (S4)			Depleted Da	ark Surface (F7)	unless disturbed c	or problematic.
					- Redox Depi		1	
estrictive	layer (if preser	nt):						
Type:								
Depth (inc	ches):						Hvdric Soil Presen	t? Yes x No
Depth (inc	ches):						Hydric Soil Presen	t? Yes <u>x</u> No
Depth (inc	ches):						Hydric Soil Presen	t? Yes <u>x</u> No
Depth (inc	ches):						Hydric Soil Presen	t? Yes <u>x</u> No
Depth (inc marks: YDROI	LOGY						Hydric Soil Presen	t? Yes <u>x</u> No
Pepth (inc emarks: YDROI etland Hy imary Indi	LOGY /drology Indica icators (minimur	i tors: n of one req	uired: (check all that	apply)			Hydric Soil Presen	t? Yes <u>x</u> No Secondary Indicators (2 or more required)
Pepth (inc emarks: <u>YDROI</u> etland Hy imary Indi	LOGY vdrology Indica icators (minimur	tors: n of one req	uired: (check all that	apply)		nd L aques (PD) (a	Hydric Soil Presen	t? Yes <u>x</u> No Secondary Indicators (2 or more required)
YDROI emarks: YDROI etland Hy imary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ta	tors: n of one req r (A1) able (A2)	uired: (check all that	apply)		ed Leaves (B9) (e d 4B)	Hydric Soil Presen	t? Yes x No
YDROL YDROL etland Hy imary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A3	tors: n of one req r (A1) able (A2) 3)	uired: (check all that	apply)	Water Staind 1,2,4A, an Salt Crust (E	ed Leaves (B9) (e d 4B) 311)	Hydric Soil Presen	Yes x No Secondary Indicators (2 or more required)
YDROI emarks: YDROI etiand Hy imary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks (Sordimant Dor	r (A1) able (A2) 3) (B1)	uired: (check all that	apply)	Water Stainu 1,2,4A, an Salt Crust (E Aquatic Inve	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) utifica Odor (C1)	Hydric Soil Presen	t? Yes x No Secondary Indicators (2 or more required)
Pepth (inc emarks: YDROI Vetland Hy rimary Indi	LOGY vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	tors: n of one req r (A1) able (A2) 3) (B1) posits (B2) (B3)	uired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) jizospheres along	Hydric Soil Presen	t? Yes x No Secondary Indicators (2 or more required)
YPEN (inc emarks: YDROI etland Hy imary Indi	LOGY vdrology Indica icators (minimur Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	tors: n of one req r (A1) able (A2) 3) (B1) 0osits (B2) (B3) Crust (B4)	uired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C4	Hydric Soil Presen	t? Yes x No Secondary Indicators (2 or more required)
YDROL emarks: YDROL etland Hy imary Indi	LOGY Vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (Az Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Seil (C	tors: n of one req r (A1) able (A2) 3) (B1) oosits (B2) (B3) Crust (B4) (B5) Crust (B4)	uired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stuntod or S	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille Evenend Plante (D	Hydric Soil Presen	t? Yes x No Secondary Indicators (2 or more required)
YDROI emarks: YDROI etland Hy imary Indi	LOGY Vdrology Indica icators (minimur Surface Wate High Water Ta Saturation (Az Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis	tors: m of one req r (A1) able (A2) 3) (B1) posits (B2) (B3) crust (B4) (B5) cracks (B6) sible on Aeria	uired: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) utfide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille Stressed Plants (D ain in Remarks)	Hydric Soil Presen	t? Yes x No Secondary Indicators (2 or more required)
YDROI etland Hy imary Indi	LOGY ydrology Indica icators (minimur Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C0 Iron Deposits Surface Soil C0 Inundation Vis Sparsely Vege	tors: n of one req r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aeria etated Conce	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille Stressed Plants (D ain in Remarks)	Hydric Soil Presen	t? Yes x No Secondary Indicators (2 or more required)
Pepth (inc emarks: IYDROI Vetland Hy rimary Indi	LOGY Variance Wate High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege Vations:	tors: n of one req r (A1) able (A2) 3) (B1) bosits (B2) (B3) rrust (B4) (B5) rracks (B6) sible on Aeria etated Conca	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) ulfide Odor (C1) iizospheres along Reduced Iron (C- Reduction in Tille Stressed Plants (D ain in Remarks)	Hydric Soil Presen	t? Yes x No Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (X) x Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
IYDROL emarks: IYDROL /etland Hy rimary Indi	LOGY vdrology Indica icators (minimur Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: tter Present?	tors: n of one req r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aeria etated Conc: Yes	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Stainu 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduction in Tille tressed Plants (D ain in Remarks) Depth (inches):	Hydric Soil Presen	t? Yes x No Secondary Indicators (2 or more required)
	LOGY ydrology Indica icators (minimur High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits Surface Soil C Inundation Vis Sparsely Vege vations: tter Present?	tors: n of one req r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Cracks (B6) sible on Aeria etated Conce Yes Yes	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) virtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille thressed Plants (D ain in Remarks) 	Hydric Soil Presen	t? Yes x No Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Seconorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
YDROI emarks: YDROI etland Hy imary Indi etland e	LOGY verticators (minimur Surface Watei High Water Tra- Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or CC Iron Deposits Surface Soil CC Inundation Vis Sparsely Vege vations: ter Present? Present?	tors: n of one req r (A1) able (A2) 3) (B1) posits (B2) (B3) Crust (B4) (B5) Crusts (B6) sible on Aeria etated Conca Yes Yes Yes	uired: (check all that al imagery (B7) ave Surface (B8)	apply)	Water Stainu 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille tressed Plants (D ain in Remarks) 	Hydric Soil Presen	t? Yes x No Secondary Indicators (2 or more required)

Remarks:

US Army Corps of Engineers

Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
	Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-29	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R02	2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	cal relie	ef (concave, cor	nvex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44.	.529142° N	Long:	-123.933778° W	Datum: HA	RN NAD83
	Soil Map Unit N	lame: Clacka	mas variant silt loam			NWI class	sification:	upland		
	Are Climatic / hydro	blogic conditions	on the site typical for this t	ime of	vear?	Yes:	×	No:	(lf r	io explain in remarks)
	Are Vegetation	Soil	or Hydrology		, Significantly di		Are"Normal C	ircumstances" present?	Yes x	No
	Are Vegetation	Soil	or Hydrology		Naturally probl	lematic?	(If needed, ev	nlain any answers in Rem	arke)	
				- h					5 - 1 -	
	SUMMARY OF	FFINDINGS	- Attach site map	snow	ing sampli	ng point loc	ations, tra	insects, important	features, etc	•
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes <u>x</u> Yes	No No	x	Is the Sample	d Area within	a Wetland?		
	Wetland Hydrology	Present?	Yes	No	x			Yes		No <u>x</u>
	Remarks:	Plot located on	slightly elevated terrace or	n south	side of creek					
	VEGETATION	- Use scien	tific names of plan	ts.				I		
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:	
1								Number of Dominant Spe	EAC:	2 (Δ)
1. 2.								That are OBL, I AGW, O	TAC.	<u> </u>
3. 4.								Total Number of Domina Species Across All Strata	nt a:	2 (B)
						- Tatal Cause		Demonst of Dominant Co.		
						= Total Cover		That are OBL, FACW, or	FAC:	<u> 100 (A/B)</u>
	Sapling/Shrub Strat	tum (Plot size:)						
1.								Prevalence Index works	sheet:	
2. 3.								OBL species	x 1	Multiply by:
4.								FACW species	x2	=
5.						·		FAC species	x 3 x 4	=
		(D) 1 -				= Total Cover		UPL species	x 5	=(D)
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(A)	(B)
1.	Lolium multiflorum				70%	yes	FAC	Prevalence Index = B/A =	=	
2. 3.	Schedonorus aruno	dinaceus			30	yes	FAC			
4.								Hydrophytic Vegetation	n Indicators:	
5. 6								Rapid Test	for Hydrophytic V Test is >50%	egetation
7.								Prevalence	Index is <3.0 ⁽¹⁾	
8.								Morphologic	cal Adaptations ⁽¹⁾	(Provide supporting
9. 10						·		data in Rem	arks or on a sepa	rate sheet)
11	·							Problematic	Hydrophytic Veg	etation ⁽¹⁾ (Explain)
					100%	= Total Cover		(1) Indicator	s of hydric soil ar	id wetland hydrology
	Woody Vine Stratu	m (Plot size:)						
1.								Hydrophytic		
2.								Vegetation		
						= Total Cover		Present?	Yes <u>x</u>	No
	M D C H									
	% Bare Ground in H	Herb Stratum								
	Remarks:							-		

001				Sampling Point:	SP-29					
SOIL Profile Des	cription: (Desc	ribe to the	depth needed to doc	ument the	indicator of co	onfirm the abse	nce of indicators.)			
Dooth	Motrix		Dodov Footuroo							
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	- Texture	Rem	arks	
((_)				
0-9	10YR 3/2	100					sicl			
9-17	10YR 3/2	95%	10YR 4/4	5	C	M	sicl			
(1)Type [.] C=	Concentration	D=Depletio	n RM=Reduced Matrix	CS=Cov	ered of Coated S	and Grains (2)	location [.] PI =Pore I in	ing M=Matrix		
(1)1300.0		5 Depictio		u, 00 000						
Hydric Soil	Indicators: (Ap	plicable to	o all LRRs, unless oth	nerwise no	oted.)		Indicators of Problem	ematic Hydric Soils(3).		
	Historol (A1)				Sandy Peday	(95)		2 cm Muck (A10)		
	Histic Epipedo	on (A2)	-		Stripped Matr	ix (S6)		Red Parent Material (TF2)		
	Black Histic (A	(3)	-		Loamy Mucky	/ Mineral (F1)		Other (Explain in Remarks)		
	Hydrogen Sulf	fide (A4)	-		(except MLRA	A 1)				
	Depleted Belo	w Dark Su	face (A11)		Loamy Gleye	d Matrix (F2)				
	Thick Dark Su	rface (A12)		_ Depleted Mat	rix (F3)	(3) indicators of hy and watland bydra	drophytic vegetation		
	Sandy Mucky	Matrix (S4)		Redox Dark S	k Surface (F0)	unless disturbed o	nogy must be present,		
					Redox Depres	ssions (F8)		problemate.		
			_							
Restrictive	layer (if presen	it):								
Tupo										
Type.										
Depth (inc	ches):						Hydric Soil Present	t? Yes	No	x
Remarks:										

HYDROLOGY

IIIBROEDOT		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required: (check all that	apply)	Secondary Indicators (2 or more required)
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water Stained Leaves (B9) (except MLRA 1,2,4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Field Observations:		
Surface Water Present? Yes	No x Depth (inches):	Wetland Hydrology Present?
Water Table Present? Yes	No x Depth (inches):	Yes No x
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	_
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, previous inspections), if available:	
Remarks:		
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industria	l		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-30	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	cal relie	- ef (concave, cor	vex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44.	529142° N	Lona:	-123.933778° W	Datum: HARN NA	D83
	Soil Man Unit N	lame [.] Clacka	mas variant silt loam			NWI class	sification	upland		
	Are Climatic / bydro		on the site typical for this t	time of a	uear?	Vec	v	No	(If no exp	ain in remarks)
					Cianificantlu di	eturbed2	Are"Nermal C			Ne Ne
	Are vegetation	501			_Significantiy di	sturbed?	Are Normai C	incumstances present?	res <u>x</u>	N0
	Are Vegetation	Soil	or Hydrology		Naturally probl	ematic?	(If needed, ex	plain any answers in Rema	irks.)	
	SUMMARY OI	F FINDINGS	- Attach site map	show	ving sampli	ng point loc	ations, tra	insects, important f	eatures, etc.	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes x	No No		ls the Sample	d Area within	a Wetland?		
	Wetland Hydrology	Present?	Yes x	No		• • •		Yes	x	No
	Remarks:	Plot located in v	vetland depression on sou	th side	of creek near si	ite entrance.				
	VEGETATION	- Use scient	tific names of plan	ts.						
	Tree Chrohum	(Dist size)	-	`	Absolute	Dominant	Indicator	Dominance Test Works	heet:	
	Tree Stratum	(Plot size.)	% Cover	Species?	Status	Number of Dominant Spe	cies	
1. 2.								That are OBL, FACW, or	FAC:	<u>1</u> (A)
3.								Total Number of Dominar	nt	
4.						·		Species Across All Strata		<u>1</u> (B)
						= Total Cover		Percent of Dominant Spe	cies FAC:	100 (A/B)
	Sapling/Shrub Stra	tum (Plot size:)						(100 (100)
1.								Prevalence Index works	heet:	
2.								Total % Cover of:	<u>Mu</u>	Itiply by:
3. 4.								FACW species	x 1 = x 2 =	
5.						·		FAC species FACU species	x 3 = x 4 =	
	Llash Chrohum	(Dist size)	E ft dia	`		= Total Cover		UPL species	x 5 =	(D)
	Herb Stratum	(Piot size.)				Column Totals.	(A)	(B)
1. 2.	Lolium multiflorum				90%	yes	FAC	Prevalence Index = B/A =		
3.									la dia atauna	
4. 5.								Rapid Test f	or Hydrophytic Vegetat	ion
6. 7.								x Dominance Prevalence	Test is >50% ndex is <3.0 ⁽¹⁾	
8.								Morphologic	al Adaptations ⁽¹⁾ (Provi	de supporting
9. 10								Wetland Nor	arks of on a separate s n-Vascular Plants ⁽¹⁾	neet)
11								Problematic	Hydrophytic Vegetatior	⁽¹⁾ (Explain)
					90%	= Total Cover		(1) Indicator	s of hydric soil and wet	and hydrology
	Woody Vine Stratu	m (Plot size:)				must be pres	sent, unless disturbed o	or problematic.
1		_						Hydrophytic		
2.								Vegetation		
						= Total Cover		Present?	Yes <u>x</u>	No
	% Porc Orectation	Horb Strate	10							
	% Bare Ground In F	Herb Stratum	10							
	Remarks:									

SP-30

SOIL									
Profile Des	cription: (Des	cribe to the	depth needed to doc	ument the i	indicator of	confirm the abse	nce of indicators.)		
Donth	Motrix		Dodov Footuroo						
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Rer	marks
(
0-7	10YR 3/2	100					sicl		
7-11	10YR 3/2	95%	10YR 4/4	5	<u> </u>	<u>M</u>	sicl		
11-10	10TR 3/2	95%	101R 4/0	5	U	IVI	SICI		
	·								
					_		-		
							. <u> </u>		
	·		·						
(1)Type: C=	Concentration,	D=Depletion	, RM=Reduced Matrix	, CS=Cover	red of Coated	d Sand Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.	
	,		,	,				0.	
Hydric Soil	Indicators: (A	pplicable to	all LRRs, unless oth	erwise not	ed.)		Indicators of Proble	matic Hydric Soils(3).	
	Histosol (A1)				Sandy Red	ox (S5)		2 cm Muck (A10)	
	Histic Epiped	lon (A2)	-		Stripped Ma	atrix (S6)		Red Parent Material (TF2)	
	Black Histic ((A3)			Loamy Muc	cky Mineral (F1)		Other (Explain in Remarks)	
	Hydrogen Su	Ilfide (A4)			(except ML	RA 1)			
	Depleted Bel	low Dark Surf	ace (A11)		Loamy Gle	yed Matrix (F2)	(3) indicators of by	translutic vegetation	
	Sandy Mucky	v Mineral (S1) –	x	Redox Darl	k Surface (F6)	and wetland hydrol	oav must be present.	
	Sandy Gleye	d Matrix (S4)			Depleted D	ark Surface (F7)	unless disturbed or	problematic.	
	-		_		Redox Dep	ressions (F8)			
Postrictivo	lavor (if proco	nt).							
Resultive	layer (ii prese	int).							
Type:									
Depth (inc	ches):						Hydric Soil Present	? Yes <u>x</u>	No
Remarks [.]									
	067								
Wetland Hy	_OGT	ators.							
Primary Indi	icators (minimu	im of one req	uired: (check all that a	ipply)				Secondary Indicators (2 or r	nore required)
				11.77					<u> </u>
	Surface Wate	er (A1)	_		Water Stair	ned Leaves (B9) (e	except MLRA	Water Stained	Leaves (B9) (MLRA 1,2,
	High Water I	able (A2)	_		1,2,4A, al Salt Crust (nd 4B) (B11)		4A, and 4B)	erns (B10)
	Water Marks	(B1)	_		Aquatic Inv	ertebrates (B13)		Dranage Paul Drv-Season V	/ater Table (C2)
	Sediment De	eposits (B2)			Hydrogen S	Sulfide Odor (C1)		x Saturation Vis	ible on Aerial Imagery (C9)
	Drift Deposits	s (B3)	_		Oxidized R	hizospheres along	Living Roots (C3)	x Geomorphic F	Position (D2)
	Algal Mat or	Crust (B4)	_		Presence o	of Reduced Iron (C	4) d Saila (CG)	Shallow Aquit	ard (D3)
	Surface Soil	Cracks (B6)	_		Stunted or	Stressed Plants (D	01) (LRR A)	Raised Ant Mo	ounds (D6) (LRR A)
	Inundation Vi	isible on Aeri	al imagery (B7)		Other (Exp	lain in Remarks)	,, ,	Frost-Heave H	lummocks (D7)
	Sparsely Veg	getated Conc	ave Surface (B8)						
Field Obser	vations:								
	vations.								
Surface Wa	ter Present?	Yes		No	х	Depth (inches):		Wetland Hydrology Prese	nt?
	_					_			
Water Table	e Present?	Yes	·	No	Х	Depth (inches):		Yes x	No
Saturation F	Present?	Yes		No	x	Depth (inches):			
(includes ca	pillary fringe)				^		-		
Describe Re	ecorded Data (s	stream gauge	e, monitoring well, aeria	al photos, p	revious inspe	ections), if available	e:		
Remarks:									
-									
US Army Cor	ps of Engineers							Western Mountains, Valleys an	d Coast - Version 2.0
··	×								

	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn	:	Sampling Date :	8/17/2017	
	Applicant/Owner:	City of Lebanor	I		State:	OR	:	Sampling Point:	SP-31	
	Investigator(s):	A. Martin			Section, Towr	nship, Range:	16, T12S, R02	2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	ocal reli	ef (concave, co	nvex, none):	none		Slope (%):	0%
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HAF	N NAD83
	Soil Map Unit N	ame: Clacka	mas variant silt loam	-		NWI class	sification:	upl		
	Are Climatic / hvdro	logic conditions	on the site typical for this	time of	vear?	Yes.	× _	No:	(If n	o explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly	listurbed?	Are"Normal C	ircumstances" present?	 Ves	No
		001			Neturally preh		/If needed av			
		301					(ii needed, ex		diks.)	
	SUMMARY OF	FINDINGS	- Attach site map	show	ing sampli	ing point loc	ations, tra	insects, important	features, etc.	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes <u>x</u> Yes	No No	X	Is the Sample	d Area within	a Wetland?		
	Wetland Hydrology	Present?	Yes	No	x			Yes	s	No <u>x</u>
	Remarks:	Plot located on	slightly elevated terrace o	n south	side of creek					
	VEGETATION	- Use scien	tific names of plan	ts.				1		
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:	
		(Number of Dominant Spo	ecies	4 (4)
1. 2.				-		·		That are OBL, FACW, of	r FAC:	<u> </u>
3. 4				-				Total Number of Domina Species Across All Strat	int a:	1 (B)
				-						(=)
						= Total Cover		Percent of Dominant Spe That are OBL, FACW, or	ecies r FAC:	100 (A/B)
	Sapling/Shrub Strat	tum (Plot size:)						
1.				-				Prevalence Index work	sheet:	
2. 3.				-				Total % Cover of: OBL species	x 1 =	Multiply by:
4.				-				FACW species	x 2 =	=
ວ.				-				FAC species FACU species		·
	Herb Stratum	(Plot size:	5 ft dia)		= Total Cover		UPL species Column Totals:	x 5 = (A)	=(B)
	1 - 15	_ 、			100%		540	Descelar a ladar D(A	()	、
1. 2.	Lolium multiflorum			-	100%	yes	FAC	Prevalence Index = B/A		
3. 4				-				Hydrophytic Vegetation	n Indicators:	
5.				-				Rapid Test	for Hydrophytic Ve	getation
6. 7.				-		· <u> </u>		x Dominance Prevalence	I est is $>50\%$ Index is $<3.0^{(1)}$	
8. 9.				-				Morphologie data in Rem	cal Adaptations ⁽¹⁾ (parks or on a sepa	Provide supporting rate sheet)
10				-				Wetland No	on-Vascular Plants	(1)
11.				-				Problematic	: Hydrophytic Vege	etation ⁽¹⁾ (Explain)
					100%	= Total Cover		(1) Indicator	rs of hydric soil an	d wetland hydrology
	Woody Vine Stratur	m (Plot size:)						
1.								Hydrophytic		
2.				-				Vegetation Present?	Vec v	No
						= Total Cover			169 1	
	% Bare Ground in H	Herb Stratum								
	Pemarka			-						
	Remarks.									

Sampling Point:	SP-31	
nce of indicators.)		

SOIL						
Profile Description: (Describe to t	he depth needed to doo	ument the i	ndicator of o	confirm the abse	nce of indicators.)	
Depth Matrix	Redox Features					
(Inches) Color (moist) %	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
0-10 10YR 3/2 100	10/15 0/1				sicl	
10-18 <u>10YR 3/2</u> 95%	10YR 3/4	5	<u> </u>	M	SICI	
				·	<u> </u>	
(1)Type: C=Concentration, D=Deple	tion, RM=Reduced Matrix	x, CS=Cover	red of Coated	Sand Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.
Hudria Sail Indicators: (Applicable	to all I BBs, unloss of	onvice not	od)		Indicators of Brobb	amatia Hudria Saila(2)
Hydric Soil Indicators: (Applicable	to all LKKS, unless ou	ierwise nou	eu.)		indicators of Proble	ematic hydric Solis(3).
Histosol (A1)	_		Sandy Redo	ox (S5)		2 cm Muck (A10)
Histic Epipedon (A2)	-		Stripped Ma	atrix (S6)		Red Parent Material (TF2)
Black Histic (A3)	-		Loamy Muc	ky Mineral (F1)		Other (Explain in Remarks)
Depleted Below Dark	Surface (A11)		Loamy Gley	ved Matrix (F2)		
Thick Dark Surface (A	12)		Depleted M	atrix (F3)	(3) indicators of hy	drophytic vegetation
Sandy Mucky Mineral	(S1)		Redox Dark	Surface (F6)	and wetland hydro	logy must be present,
Sandy Gleyed Matrix (54) <u>-</u>		Depleted Da	ark Surface (F7)	unless disturbed of	r problematic.
	-		Redux Depi	63310113 (1 0)		
Restrictive layer (if present):						
Tupor						
туре						
Depth (inches):					Hydric Soil Present	Yes <u>No x</u>
HYDROLOGY Wetland Hydrology Indicators:						
Primary Indicators (minimum of one	required: (check all that a	apply)				Secondary Indicators (2 or more required)
Surface Water (A1)	-		Water Stain	ed Leaves (B9) (e	except MLRA	Water Stained Leaves (B9) (MLRA 1,2,
High Water Table (A2, Saturation (A3)	-		Salt Crust (I	10 4B) 311)		4A, and 4B) Drainage Patterns (B10)
Water Marks (B1)	-		Aquatic Inve	ertebrates (B13)		Dry-Season Water Table (C2)
Sediment Deposits (B)	2)		Hydrogen S	ulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	· -		Oxidized Rh	izospheres along	Living Roots (C3)	Geomorphic Position (D2)
Iron Deposits (B5)) –		Recent iron	Reduction in Tille	+) d Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (E	6)		Stunted or S	Stressed Plants (D	01) (LRR A)	Raised Ant Mounds (D6) (LRR A)
Inundation Visible on A	Aerial imagery (B7)		Other (Exp	lain in Remarks)		Frost-Heave Hummocks (D7)
Sparsely Vegetated C	oncave Surface (B8)					
Field Observations:						
Surface Water Present?	/es	No	x	Depth (inches):		Wetland Hydrology Present?
Water Table Present?	/es	No	x	Depth (inches):		Yes No x
Saturation Present?	/es	No	x	Depth (inches):		-
(
Describe Recorded Data (stream ga	uge, monitoring well, aer	ial photos, p	revious inspe	ctions), if available	9:	
Remarks:						

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	Project/Site:	Airport Industria	al		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017
	Applicant/Owner:	City of Lebanon	I		State:	OR		Sampling Point:	SP-32
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	02W	
	Landform (hillslope,	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, cor	nvex, none):	none		Slope (%): 2%
	Subregion (LRR):	LRR A		_	Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HARN NAD83
	Soil Map Unit N	ame: Dayton	silt loam			NWI class	sification:	PSSA	
	Are Climatic / hydro	logic conditions	on the site typical for this t	ime of y	ear?	Yes:	x	No:	(If no explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly d	- isturbed?	Are"Normal (Circumstances" present?	Yes x No
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed, e	xplain any answers in Rema	urks.)
			- Attach site man	show	ving sampli	ina noint loc	ations tr	ansects important	features etc
		tion Brogent?		No	ing sump				
	Hydric Soil Present	? Present?	$\frac{1}{2}$	No		Is the Sample	d Area within	a Wetland?	v Na
	vvetiand Hydrology	Present?	Yes <u>x</u>					Yes	<u> </u>
	Remarks:	Plot located on	east side of SA in east fiel	d					
	VEGETATION	- Use scien	tific names of plan	its.	Absolute	Dominant	Indicator	Dominance Test Works	heet:
	Tree Stratum	(Plot size:)	% Cover	Species?	Status	-	
1.				_				That are OBL, FACW, or	FAC: <u>3</u> (A)
2. 3				-		·		- Total Number of Dominar	nt
4.				-		·		Species Across All Strata	: <u>3</u> (B)
						= Total Cover		Percent of Dominant Spe	cies
	Quality (Ohmuh Ohmuh			`				That are OBL, FACW, or	FAC: <u>100</u> (A/B)
	Sapling/Shrub Strat	tum (Plot size:		_)					
1. 2				-				Prevalence Index works	heet:
2. 3.				-		·		OBL species	x 1 =
4. 5				-		·		FACW species	x 2 =
				-				FACU species	x 4 =
	Herb Stratum	(Plot size:	5 ft dia)		= I otal Cover		UPL species Column Totals:	x 5 =(A) (B)
1	Agrestia conillaria	_		-	60%	Vee	EAC	Provolonoo Indox - P/A -	
1. 2.	Holcus lanatus			-	20	yes	FAC		
3. 4.	Schedonorus arund	linaceus		-	20	yes	FAC	- Hydrophytic Vegetation	Indicators:
5.				-				Rapid Test fo	or Hydrophytic Vegetation
6. 7.				-		·		x Dominance Prevalence I	√est is >50% ndex is <3.0 ⁽¹⁾
8. a				-				Morphologic	al Adaptations ⁽¹⁾ (Provide supporting
9. 10				-				Wetland Nor	1-Vascular Plants ⁽¹⁾
11				-		·		Problematic	Hydrophytic Vegetation ⁽¹⁾ (Explain)
					100%	= Total Cover		(1) Indicators	of hydric soil and wetland hydrology
	Woody Vine Stratur	n (Plot size:)				must be pres	ent, unless disturbed or problematic.
1								Hydrophytic	
2.				-		·		Vegetation	
						= Total Cover		Present?	Yes <u>x</u> No
	% Bare Ground in 1	Herh Stratum				-			
				-					
	Remarks:								

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SOIL									
Profile Des	cription: (Des	cribe to the	depth needed to doo	cument the i	ndicator of o	confirm the abse	nce of indicators.)		
(Inches)	Matrix Color (moist)	0/2	Color (moist)	%	Type (1)	loc(2)	Texture	Remarks	
(menes)		/0		70		200 (2)		Kemarka	
0-8	10YR 3/2	100					sicl		
8-20	10YR 3/2	95%	10YR 4/4	5	С	М	sicl		
			·						
			·						
	· ·						·		
	·								
(UT 0			B1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B 1 B B 1 B B 1 B B B B B B B B B B 	~~~~					
(1)Type: C=	Concentration,	D=Depletion	, RM=Reduced Matri	x, CS=Cover	ed of Coated	Sand Grains. (2)	Location: PL=Pore Linir	ig, M=Matrix.	
Hvdric Soil	Indicators: (A	oplicable to	all LRRs. unless oth	herwise note	ed.)		Indicators of Proble	matic Hvdric Soils(3).	
			· · · · · · · · · · · · · · · · · · ·		,				
	Histosol (A1)		-		Sandy Redo	ox (S5)		2 cm Muck (A10)	
	Histic Epiped	lon (A2)	-		Stripped Ma	atrix (S6)		Red Parent Material (TF2)	
	Hydrogen Su	(A3) Ilfide (A4)	-		Loamy Muc			Other (Explain in Remarks)	
	Depleted Bel	linue (A4) low Dark Surf	ace (A11)		Loamy Glev	ved Matrix (F2)			
	Thick Dark S	urface (A12)			Depleted Ma	atrix (F3)	(3) indicators of hyd	Irophytic vegetation	
	Sandy Mucky	y Mineral (S1)	Х	Redox Dark	Surface (F6)	and wetland hydrolo	ogy must be present,	
	Sandy Gleye	d Matrix (S4)	-		Depleted Da	ark Surface (F7)	unless disturbed or	problematic.	
			-		Redox Depr	essions (F8)			
Restrictive	laver (if prese	ent):							
		,.							
Type:									
Depth (inc	nes):						Hydric Soil Present	Yes <u>x</u>	N0
Remarks:									
	067								
Wetland Hy	drology Indic:	ators.							
Primary Indi	cators (minimu	im of one req	uired: (check all that a	apply)				Secondary Indicators (2 or more re	equired)
			(* * * * * * * * *						<u> </u>
	Surface Wate	er (A1)	-		Water Stain	ed Leaves (B9) (e	except MLRA	Water Stained Leave	es (B9) (MLRA 1,2,
	High Water T	Table (A2)	-		1,2,4A, an	nd 4B)		4A, and 4B)	240)
	Saturation (A Water Marks	(B1)	-		Salt Crust (E	311) artebrates (B13)		Drainage Patterns (E	310) Table (C2)
	Sediment De	posits (B2)	-		Hvdroaen S	ulfide Odor (C1)		x Saturation Visible or	Aerial Imagery (C9)
	Drift Deposits	s (B3)	-		Oxidized Rh	nizospheres along	Living Roots (C3)	x Geomorphic Position	n (D2)
	Algal Mat or	Crust (B4)			Presence of	f Reduced Iron (C4	4)	Shallow Aquitard (D	3)
	Iron Deposits	s (B5)	-		Recent iron	Reduction in Tille	d Soils (C6)	FAC-Neutral Test (D	95) (DO) (LDD A)
	Surface Soil	Cracks (B6)	al imageny (B7)		Other (Evol	Stressed Plants (D	01) (LRR A)	Raised Ant Mounds	(D6) (LRR A) ocks (D7)
	Sparsely Vec	netated Conc	ave Surface (B8)			iain in Remarks)			
		,							
Field Observ	vations:								
Surface Ma	tor Drocont?	Vaa		No		Donth (inchoo);		Watland Hudralam, Present?	
Surface wa	ter Present?	res		NO	X	Depth (inches):		wetland Hydrology Present?	
Water Table	Present?	Yes		No	х	Depth (inches):		Yes x	No
						,			
Saturation F	Present?	Yes		No	х	Depth (inches):			
(includes ca	pillary fringe)								
Describe Re	corded Data (s	stream dauge	monitoring well aer	ial nhotos nr	evious inspe	ctions) if available	<u>-</u> .		
Describerte		sican gauge	, monitoring weil, aer	iai priotos, pi					
Remarks:									
US Army Cor	ps of Engineers							Western Mountains, Valleys and Coas	t - Version 2.0

	Project/Site:	Airport Industrial			City/County:	Lebanon/Linn		Sampling Date :	8/17/2017		
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-33		
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R0	2W			
	Landform (hillslope	, terrace, etc.):	terrace Lo	cal reli	ef (concave, cor	ivex, none):	none		Slope (%):		0%
	Subregion (LRR):	LRR A			- Lat: 44.		Long:	-123.933778° W	Datum: H	IARN NAD83	
	Soil Map Unit N	lame: Clackan	nas variant silt loam			NWI class	ification:	PSSA			
	Are Climatic / bydro	plonic conditions o	n the site typical for this ti	ime of v	/ear?	Yes.	¥	No:	(If no explain in	remarks)
	Are Vegetation	Soil	or Hydrology	ine or j	Significantly di	sturbed?	Are"Normal (ircumstances" present?	Vec	v	No
	Are Vegetation	001			Noturally probl		(If pooded as		orko)		
			- Attach site man	shov	ving sampli	na noint loc	ations tr	ansects important	features e	te	
		ation Present?	Vos	No	ing campi	ing point los					
	Hydric Soil Present Wetland Hydrology	? Present?	Yes	No No	x x	Is the Sample	d Area within	a Wetland? Yes	i		No <u>x</u>
	Remarks:										
	VEGETATION	I - Use scient	ific names of plan	ts.							
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:		
1								Number of Dominant Sp	ecies FAC:	2	(A)
2.											(
3. 4.								Total Number of Domina Species Across All Strat	int a:	2	(B)
						= Total Cover		Percent of Dominant Sp	ecies		
								That are OBL, FACW, or	FAC:	100	(A/B)
	Sapling/Shrub Strat	tum (Plot size:)							
1. 2								Prevalence Index work	sheet:	Multiply I	w.
3.								OBL species	x	.1 =	
4. 5.								FACW species FAC species	×	2 =	
						= Total Cover		FACU species	x	4 =	
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(/	A)	(B)
1.	Schedonorus arund	dinaceus			70%	yes	FAC	Prevalence Index = B/A	= _		
2.	Agrostis capillaris				30	yes	FAC	-			
4.								Hydrophytic Vegetation	n Indicators:		
5. 6.						·		x Dominance	for Hydrophytic Test is >50%	Vegetation	
7.								Prevalence	Index is <3.0 ⁽¹⁾	(1) (D aga data a su	
o. 9.								data in Ren	arks or on a se	parate sheet)	porung
10								Wetland No	n-Vascular Pla	nts ⁽¹⁾	
11	·					<u> </u>		Problematio	: Hydrophytic V	egetation ⁽¹⁾ (Ex	kplain)
					100%	= Total Cover		(1) Indicato	rs of hydric soil	and wetland h	ydrology
	Woody Vine Stratur	m (Plot size:)				must be pre	sent, unless dis	sturbed or prob	ematic.
1	· · ·							Hudrophytic			
1. 2.								Vegetation			
						= Total Cover		Present?	Yes	<u>x</u>	No
	% Para Cround in k	Horb Stratum									
	Remarks:										

Sampling Point: SP-33

Point:	SP-33

SOIL									
Profile Des	cription: (Desc	cribe to the	depth needed to doo	ument the i	ndicator of o	confirm the abse	nce of indicators.)		
Denth	Matrix		Redox Features						
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	٩	lemarks
0-10	10YR 3/2	100					sicl		
10-19	10YR 3/2	95%	10YR 3/4	5	С	М	sicl		
						<u> </u>			
	·								
	·								
(1)Type: C=	Concentration,	D=Depletio	n, RM=Reduced Matriz	x, CS=Cover	ed of Coated	I Sand Grains. (2)	Location: PL=Pore Lini	ng, M=Matrix.	
Hydric Soil	Indicators: (A	pplicable to	o all LRRs, unless otl	herwise not	ed.)		Indicators of Proble	ematic Hydric Soils(3).	
	Histosol (A1)		-		Sandy Red	ox (S5)		2 cm Muck (A10)	
	Histic Epiped	on (A2)	-		Stripped Ma	atrix (S6)		Red Parent Material (TF2)
	Black Histic (A3) Ifide (Δ4)	-		Loamy Muc	RA 1)		Other (Explain in Remark	5)
	Depleted Bel	ow Dark Sur	face (A11)		Loamy Gley	/ed Matrix (F2)			
	Thick Dark S	urface (A12)			Depleted M	atrix (F3)	(3) indicators of hydratic structure (3) indicators of hydrogenetic structure	drophytic vegetation	
	Sandy Mucky	Mineral (S1	l) <u>-</u>		Redox Dark	Surface (F6)	and wetland hydrol	ogy must be present,	
	Sandy Gleye	d Matrix (S4) _		Redox Dep	ark Surface (F7)	unless disturbed or	problematic.	
			-		Redux Depi		-		
Restrictive	layer (if prese	nt):							
Туре:									
Depth (inc	hes):						Hydric Soil Present	? Yes	No <u>x</u>
Pomarka:									
HYDROI	LOGY								
Wetland Hy Primary Indi	drology Indica	ators: m of one rec	wired: (check all that a	annly)				Secondary Indicators (2 o	r more required)
i fiifiary filu	icators (minimu			арріу)	-			Secondary Indicators (2 0	r more required)
	Surface Wate	er (A1)	-		Water Stain	ed Leaves (B9) (e	except MLRA	Water Stain	ed Leaves (B9) (MLRA 1,2,
	High Water T	able (A2)	-		1,2,4A, ar	nd 4B)		4A, and 4E	3)
	Saturation (A	3) (B1)	-		Salt Crust (I	B11) artebrates (B13)		Drainage Pa	atterns (B10) Water Table (C2)
	Sediment De	posits (B2)	-		Hydrogen S	Sulfide Odor (C1)		Saturation \	/isible on Aerial Imagery (C9)
	Drift Deposits	(B3)	-		Oxidized Rh	nizospheres along	Living Roots (C3)	Geomorphic	Position (D2)
	Algal Mat or 0	Crust (B4)	-		Presence of	f Reduced Iron (C	4)	Shallow Aqu	uitard (D3)
	Iron Deposits	(B5) Cracks (B6)	-		Recent iron	Reduction in Tille	d Soils (C6)	FAC-Neutra	l Test (D5) Mounds (D6) (LPP A)
	Inundation Vi	sible on Aer	ial imagery (B7)		Other (Exp	lain in Remarks)		Frost-Heave	e Hummocks (D7)
	Sparsely Veg	etated Cond	cave Surface (B8)			,			
Field Obser	vations:								
Surface Wa	ter Present?	Yes		No	x	Depth (inches):		Wetland Hydrology Prese	nt?
Water Table	Present?	Yes	5	No	x	Depth (inches):		Yes	No x
Saturation F	Present?	Ver		No		- Depth (inches):			
(includes ca	pillary fringe)	100		110	^				
Describe Re	ecorded Data (s	stream gauge	e, monitoring well, aer	ial photos, p	revious inspe	ctions), if available	e:	•	
Remarks:									
US Army Cor	ps of Engineers							Western Mountains, Valleys	and Coast - Version 2.0

	Project/Site:	Airport Industria	ıl		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017		
	Applicant/Owner:	City of Lebanor	1		State:	OR		Sampling Point:	SP-34		
	Investigator(s):	A. Martin			Section, Towr	nship, Range:	16, T12S, R0	2W			
	Landform (hillslope	, terrace, etc.):	terrace Lo	ocal relie	ef (concave, co	nvex, none):	none		Slope (%):	0%	
	Subregion (LRR):	LRR A			Lat: 44	.529142° N	Long:	-123.933778° W	Datum: HA	RN NAD83	
	Soil Map Unit N	lame: Clacka	mas variant silt loam	_		NWI class	sification:	PSSA			
	Are Climatic / hvdro	logic conditions	on the site typical for this t	time of v	vear?	- Yes:	x	No:	(lf r	no explain in remarks)	
	Are Vegetation	Soil	or Hydrology		Significantly d	listurbed?	Are"Normal C	ircumstances" present?	Yes x	No No	
	Are Vegetation	Soil	or Hydrology		Naturally prob	lematic?	(If needed as	relain any answers in Rem	arke)		
				. h					f f -		
	SUMMARY OF	FFINDINGS	- Attach site map	snow	ing sampli	ing point loc	ations, tra	insects, important	teatures, etc	•	
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes <u>x</u> Yes <u>x</u>	No No		Is the Sample	d Area within	a Wetland?			
	Wetland Hydrology	Present?	Yes <u>x</u>	No				Yes	5 <u>X</u>	No	
	Remarks:	Plot located in I	ower terrace at southeast	corner	of TL 2804						
L											
	VEGETATION	- Use scien	tific names of plan	ts.							
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:		
1				_				Number of Dominant Sp That are OBL_EACW_O	ecies	1 (4)	
1. 2.						·		That are ODE, I AGW, 0	ITAC.	<u> </u>	
3. 4.				•				Total Number of Domina Species Across All Strat	int a:	1 (B)	
				•						()	
						= I otal Cover		That are OBL, FACW, o	ecies r FAC:	100 (A/B)	
	Sapling/Shrub Strat	tum (Plot size:)							
1.								Prevalence Index work	sheet:		
2. 3						·		Total % Cover of: OBL species	x 1	Multiply by:	
4.						·		FACW species	x 2	=	
5.				-				FAC species FACU species	x 3 x 4	=	
	Llach Chrotum	(Dist size)	5 th dia	`		= Total Cover		UPL species	x 5	=(D)	
	Herb Stratum	(Piot size.)				Column Totals.	(A)	(B)	
1. ว	Agrostis capillaris				80%	yes	FAC	Prevalence Index = B/A			
2. 3.	Hypochaeris radica	ita			5	- <u> </u>	FACU				
4. 5	Daucus carota				5		FACU	Hydrophytic Vegetation	n Indicators:	agatation	
5. 6.								x Dominance	Test is >50%	egetation	
7.								Prevalence	Index is <3.0 ⁽¹⁾		
8.								Morphologi	cal Adaptations ⁽¹⁾	(Provide supporting	
9. 10.	·			•				Wetland No	on-Vascular Plants	s ⁽¹⁾	
11.	- <u></u>							Problematic	Hydrophytic Veg	etation ⁽¹⁾ (Explain)	
					100%	- Total Cover		(1) Indiaata	ra of hydria agil ar	ad watland bydrology	
					100 /8			must be pre	esent, unless distu	irbed or problematic.	
	Woody Vine Stratur	m (Plot size:)							
1.								Hydrophytic			
2.				•		·		Vegetation Present?	Yes x	. No	
						= Total Cover					
	% Bare Ground in H	Herb Stratum		-							
	Remarks:										

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Dopai	Matrix		Redox Features					
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	Loc (2)	Texture	Remarks
-6	10YR 3/2	100					sicl	
8	10YR 3/2	98% 1	10YR 4/4	2	С	PL	sicl	2% OR
18	10YR 3/2	95% 1	10YR 4/4	5	С	М	sicl	
Type: C=	Concentration, E	D=Depletion, F	RM=Reduced Matr	ix, CS=Cove	red of Coated	Sand Grains. (2)	Location: PL=Pore Lin	ing, M=Matrix.
dric Soi	Indicators: (Ap	plicable to al	I LRRs, unless of	therwise no	ed.)		Indicators of Probl	ematic Hydric Soils(3).
	Histosol (A1)	n (A 2)			Sandy Redo	0X (S5)		2 cm Muck (A10) Red Percent Material (TEQ)
	Histic Epipedo	n (A2)			Stripped Ma	trix (S6)		_ Red Parent Material (TF2)
	Black Histic (A	(3)			Loamy Mucl	ky Mineral (F1)		Other (Explain in Remarks)
	- Hydrogen Sull		- (444)		(except MLF	KAI)		
	Thick Dark Su	w Dark Suriac rface (A12)	e (ATT)		Depleted M	eu Mallix ($\Gamma 2$)	(3) indicators of b	(drophytic vegetation
	Sandy Mucky	Mineral (S1)		×	Redox Dark	Surface (F6)	and wetland hydro	alogy must be present
	Sandy Gleyed	Matrix (S4)			Depleted Da	ark Surface (F7)	unless disturbed o	or problematic.
					Redox Depr	essions (F8)		
estrictive	layer (if presen	t):						
Туре:								
Depth (ind	ches):						Hydric Soil Presen	t? Yes <u>x</u> No
- F - X								
emarks:								
emarks:								
emarks:	LOGY							
emarks: YDROI Vetland Hy rimary Ind	LOGY /drology Indicat icators (minimum	tors: n of one requir	ed: (check all that	apply)				Secondary Indicators (2 or more required)
YDROI etland Hy imary Ind	LOGY vdrology Indicat icators (minimun Surface Water	tors: 1 of one requir (A1)	ed: (check all that	apply)		ed Leaves (B9) (e	xcept MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1.2
YDROI etland Hy imary Ind	LOGY ydrology Indicat icators (minimun Surface Water High Water Ta	tors: 1 of one requir • (A1) bble (A2)	ed: (check all that	apply)		ed Leaves (B9) (e d 4B)	xcept MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1, 4A, and 4B)
YDROI etland Hy imary Ind	LOGY ydrology Indicat icators (minimun Surface Water High Water Ta Saturation (A3	tors: 1 of one requir • (A1) ible (A2) i)	ed: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E	ed Leaves (B9) (e d 4B) 311)	•xcept MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,4 4A, and 4B) Drainage Patterns (B10)
YDROI etland Hy imary Ind	LOGY ydrology Indicat icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (tors: n of one requir · (A1) ible (A2) i) B1)	ed: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve	ed Leaves (B9) (e d 4B) 311) ritebrates (B13)	xcept MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROI etland Hy imary Ind	LOGY ydrology Indicat icators (minimun High Water Ta Saturation (A3 Water Marks (Sediment Dep	tors: 1 of one requir (A1) ible (A2) i) B1) osits (B2)	ed: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1)	except MLRA	Secondary Indicators (2 or more required) Water Stained Leaves (B9) (MLRA 1,: 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (iteration visible on
YDROI etland Hy imary Ind	LOGY ydrology Indicat icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits	tors: of one requir (A1) ible (A2)) B1) osits (B2) (B3)	ed: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along	Except MLRA	Secondary Indicators (2 or more required)
emarks: IYDROI fetland Hy rimary Ind	LOGY ydrology Indicat icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C	tors: n of one requir (A1) (ble (A2) (c) B1) osits (B2) (B3) rust (B4)	ed: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C	except MLRA Living Roots (C3)	Secondary Indicators (2 or more required)
emarks: IYDROI /etland Hy rimary Ind	LOGY ydrology Indicat icators (minimun High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits	tors: n of one requir (A1) ible (A2) i) B1) osits (B2) (B3) rust (B4) (B5)	ed: (check all that	apply)	Water Staim 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron	ed Leaves (B9) (e d 4B) 311) rtebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C Reduction in Tille	except MLRA Living Roots (C3) 4) d Soils (C6)	Secondary Indicators (2 or more required)
emarks: PYDROI Vetland Hy rimary Ind	LOGY ydrology Indicat icators (minimun Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Deps Drift Deposits (Algal Mat or C Iron Deposits (Surface Soil C	tors: • (A1) bble (A2) •) B1) osits (B2) (B3) rust (B4) (B5) iracks (B6)	ed: (check all that	apply)	Water Stain 1,2,4A, an Salt Crust (I Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reducced Iron (C- Reduction in Tille Stressed Plants (D	Eliving Roots (C3) 4) d Soils (C6) 11) (LRR A)	Secondary Indicators (2 or more required) 44, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (fx Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
YDROI etland Hy imary Ind	LOGY ydrology Indicat icators (minimun High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift Deposits Algal Mat or C Iron Deposits (Surface Soil C Inundation Vis Sparsely Vege	tors: 1 of one requir (A1) ible (A2) i) B1) osits (B2) (B3) rust (B4) (B5) iracks (B6) ible on Aerial i etated Concave	ed: (check all that imagery (B7) e Surface (B8)	apply)	Water Staim 1,2,4A, an Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent iron Stunted or S Other (Expl	ed Leaves (B9) (e d 4B) 311) ertebrates (B13) ulfide Odor (C1) izospheres along Reduced Iron (C- Reduction in Tille Stressed Plants (D ain in Remarks)	Except MLRA Living Roots (C3) 4) 4 Soils (C6) 21) (LRR A)	Secondary Indicators (2 or more required) 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) x Saturation Visible on Aerial Imagery (fx Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
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US Army Corps of Engineers

Western Mountains, Valleys and Coast - Version 2.0

	Project/Site:	Airport Industria	I		City/County:	Lebanon/Linn		Sampling Date :	8/17/2017	
	Applicant/Owner:	City of Lebanon			State:	OR		Sampling Point:	SP-35	
	Investigator(s):	A. Martin			Section, Town	ship, Range:	16, T12S, R02	2W		
	Landform (hillslope	, terrace, etc.):	terrace Lo	cal relie	f (concave, co	nvex, none):	none		Slope (%):	6%
	Subregion (LRR):	LRR A			Lat: 44.	.529142° N	Long:	-123.933778° W	Datum: HAI	RN NAD83
	Soil Map Unit N	lame: Clackar	nas variant silt loam			NWI class	ification:	upl		
	Are Climatic / hvdro	logic conditions	on the site typical for this	time of v	ear?	Yes:	×	No:	(lf n	o explain in remarks)
	Are Vegetation	Soil	or Hydrology		Significantly di	isturbed?	Are"Normal C	ircumstances" present?	Yes x	No.
		Soil	or Hydrology		Naturally prob	lematic?	(If needed or	relain any answers in Rem	arke)	
									6	
	SUMMARY OF	- FINDINGS	- Attach site map	snow	ing sampli	ng point loca	ations, tra	insects, important	features, etc	•
	Hydrophytic Vegeta Hydric Soil Present	ation Present?	Yes <u>x</u> Yes	No No	x	Is the Sample	d Area within	a Wetland?		
	Wetland Hydrology	Present?	Yes	No	x			Yes		No <u>x</u>
	Remarks:	Plot located on s	slightly higher terrace in s	outheas	t corner of stud	ly area.				
	VEGETATION	- Use scient	ific names of plan	ts.				<u> </u>		
	Tree Stratum	(Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Works	sheet:	
1								Number of Dominant Spe That are OBL_EACW_or	EAC:	2 (Δ)
2.				•		· ·		That are obe, I Aow, of	1 40.	<u> </u>
3. 4.								Total Number of Domina Species Across All Strata	nt a:	3 (B)
						- Total Cover		Percent of Dominant Spo		
								That are OBL, FACW, or	FAC:	<u>67</u> (A/B)
	Sapling/Shrub Strat	tum (Plot size:)						
1.								Prevalence Index works	sheet:	N An 16 m In a large
2. 3.				·		· ·		OBL species	x 1	=
4. 5								FACW species	x2	=
5.						· ·		FACU species	x3 x4	 =
						= Total Cover		UPL species	x 5	=(D)
	Herb Stratum	(Plot size:	5 ft dia)				Column Totals:	(A)	(B)
1.	Agrostis capillaris				50%	yes	FAC	Prevalence Index = B/A =		
2.	Schedonorus aruno	dinaceus			20	yes	FAC			
3. ⊿	Anthoxanthum odol	ratum			20	yes	FACU	Hydrophytic Vogotation	Indicators	
 5.	Hypochaeris radica	ta			5	· ·	FACU	Rapid Test	for Hvdrophytic V	egetation
6.						· ·		x Dominance	Test is >50%	0
7.								Prevalence	Index is <3.0 ⁽¹⁾	
8.								Morphologic	al Adaptations ⁽¹⁾	(Provide supporting
9.						· ·		data in Rem	arks or on a sepa	rate sheet)
10						· ·		Problematic	Hydrophytic Veg	etation ⁽¹⁾ (Evolain)
	·									
					100%	= Total Cover		(1) Indicator	s of hydric soil ar	nd wetland hydrology
	Woody Vine Stratur	m (Plot size:)				must be pre	sent, unless distu	ibed of problematic.
1								Hydrophytic		
2.						· ·		Vegetation		
						= Total Cover		Present?	Yes <u>x</u>	No
	0/ Bara C	Lasta Otaasi								
	% Bare Ground in F	Herb Stratum								
	Remarks:									

001							Sampling Point:	SP-35		
SOIL Profile Des	cription: (Desc	ribe to the	depth needed to do	cument the	e indicator of co	onfirm the abse	nce of indicators.)			
	····p···· (••••••						
Depth (Inches)	Matrix	0/	Redox Features	0/	T:::::::::::::::::::::::::::::::::::::	1 == (2)	- Tautura	Demedia		
(Inches)	Color (moist)	%	Color (moist)	%	Type (1)	LOC (2)	l'exture	Remarks		
0-10	10YR 3/2	100					sicl			
10-18	10YR 3/2	95%	10YR 3/4	5	С	М	sicl			
			_							
					·					
1)Type: C=	Concentration, I	D=Depletio	n, RM=Reduced Matr	ix, CS=Cov	vered of Coated S	Sand Grains. (2)	Location: PL=Pore Lin	ning, M=Matrix.		
Hydric Soil	I Indicators: (Ap	plicable to	o all LRRs, unless of	therwise n	oted.)		Indicators of Probl	lematic Hydric Soils(3).		
-		•				()				
	Histosol (A1)	n (A2)			Sandy Redox	(S5) ix (S6)		_ 2 cm Muck (A10) Red Parent Material (TE2)		
	Black Histic (A	(3)			Loamy Mucky	/ Mineral (F1)		Other (Explain in Remarks)		
	Hydrogen Sulf	ide (A4)			(except MLRA	A 1)		_		
	Depleted Belo	w Dark Su	rface (A11)		Loamy Gleye	d Matrix (F2)	(3) indicators of by	vdrophytic vegetation		
	Sandy Mucky	Mineral (S) 1)		Redox Dark S	Surface (F6)	and wetland hydro	ology must be present,		
	Sandy Gleyed	Matrix (S4)		Depleted Dark Surface (F7) unless disturbed of			or problematic.		
					Redox Depres	ssions (F8)				
Restrictive	layer (if presen	it):								
Туре:	_									
Denth (in	ches).						Hydric Soil Presen	nt? Yes No x		
Doptil (int										
Remarks:										
HYDRO	LOGY									
Vetland Hy	ydrology Indica	tors:		opply)				Cooperations (December 2)		
mary ind	licators (minimun	i of one re	quired: (cneck all that	appiy)				Secondary Indicators (2 or more required)		
	Surface Water	· (A1)			Water Stained	d Leaves (B9) (except MLRA	Water Stained Leaves (B9) (MLRA 1,2		
	High Water Ta	ble (A2)			1,2,4A, and	4B)		4A, and 4B)		
	_ Saturation (A3	9			Salt Crust (B1	11)		Drainage Patterns (B10)		

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: (check all that apply)		Secondary Indicators (2 or more required)	
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial imagery (B7) Sparsely Vegetated Concave Surface (B8)	Water Stained Leaves (B9) (except MLRA 1,2,4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent iron Reduction in Tilled Soils (C6) Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)	Water Stained Leaves (B9) (MLRA 1,2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)	
Field Observations:			
Surface Water Present? Yes	No x Depth (inches):	Wetland Hydrology Present?	
Water Table Present? Yes	No Depth (inches):	Yes No x	
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	-	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if available:		
Remarks:			
US Army Corps of Engineers		Western Mountains, Valleys and Coast - Version 2.0	



Photo 1: View looking south from north end of TL 2802 (8/14/17).



Photo 2: North end of TL 2802 looking west (8/14/17).



Photo 3: Looking south from north end of TL 2804 (8/17/17).



Photo 4: View of north end of TL 2804 looking west (8/17/17).



Photo 5: Looking north along east side of TL 2804 (8/17/17).



Photo 6: North end of TL 2804 (8/17/17).



Photo 7: Looking west across upland in north end of study area (8/17/17).



Photo 8: View looking south in weedy mowed field in TL 2804 (8/17/17).



Photo 9: View looking southeast at wetland swale near center of study area (8/17/17).



Photo 10: View of backhoe pits on north end of TL 2802 (8/14/17).



Photo 11: Looking south at wetland covering rye grass field on TL 2802 (8/14/17).



Photo 12: Wetland on west side of TL 2802 looking north (8/14/17).



Photo 13: Looking north in Tax Lot 2402 along fence line separating the two tax lots (8/17/17).



Photo 14: View of east side of TL 2404 looking to the east with airport buildings in the distance (8/17/17).



Photo 15: Looking west at wetland swale in TL 2402. (8/17/17).



Photo 16: View from west side of TL 2402 looking south (8/14/17).



Photo 17: View looking southeast at horse pasture, barn and residence in southeast corner of TL 2404 (8/17/17).



Photo 18: View of south end of TL 2404 with storage buildings on adjacent property in distance (8/17/17).



Photo 19: View looking north across upland area in small pasture north of residence (8/17/17).



Photo 20: View of upland in southeast corner of TL 2402 (8/17/17).



Photo 21: Looking across line of backhoe pits in southwest corner of TL 2404 (8/17/17).



Photo 22: Looking toward southeast corner of TL 2802 with intermittent tributary on photo right (8/14/17).

APPENDIX E: Literature Citations

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