Sutherlin Festival Grounds Preliminary Wetland Delineation Report

Assessor's Map 25-05-20, Lot 100 25-05-20AA, Lots 100, 200 and 400 25-05-21, Lots 300 and 400



March 10, 2008

Prepared for City of Sutherlin 126 East Central Ave. Sutherlin, OR 97479

Submitted to

Oregon Department of State Lands 775 Summer Street NE, Suite 100 Salem, OR 97301-1279

Department of the Army Corps of Engineers, Portland District Eugene Field Office 1600 Executive Parkway, Suite 210 Eugene, Oregon 97401-2156

Prepared by

Satre Associates, P.C. Planners, Landscape Architects and Environmental Specialists 101 East Broadway, Suite 480 Eugene, Oregon 97401 phone 541.465.4721 fax 541.465.4722 www.safrepc.com



WETLAND DELINEATION / DETERMINATION REPORT COVER FORM This form must be included with any wetland delineation report submitted to the Department of State Lands for review and approval. A wetland delineation report submitted to the Department of State Lands for review and approval. A wetland delineation report submitted is not "complete" unless the fully completed and signed report cover form and the required fee are submitted. <u>Attach the form to the front of an unbound report and submit to</u>: Oregon Department of State Lands, 775 Summer Street NE, Suite 100, Salem, OR 97301-1279 <u>Mail a copy of the completed form with payment of the required report review fee to</u>: Oregon Department of State Lands, P.O. Box 4395, Unit 18, Portland, OR 97208-4395.

For new credit card payment option, see DSL web site.

Applicant Owner Name, Firm and Address:	Business phone # (541) 459-2856 ext. 207			
City of Sutherlin Oregon	Mobile phone # (optional)			
126 E. Central Ave,	FAX#			
Sutherlin, Oregon 97479	E-mail: D. Schinidu@cl. Suther11n.or.us			
Authorized Legal Agent, Name and Address:	Business phone #			
	FAA # Mabila abaaa #			
I either own the property described below or I have legal authority to allow access to the property. I authorize the Department to access the property for the purpose of confirming the information in the report, after prior notification to the primary contact. Typed/Printed Name: Arthur J Schmidt Signature:				
Date: Special instructions regarding site access	3.			
Project and Site Information (for latitude & long	itude, use centroid of site or start & end points of linear project)			
Project Name: Sutherlin Festival Grounds	Latitude: 43° 23.318' N Longitude: 123° 18.467' W			
Proposed Use: Formalized Festival Grounds with	Tax Map # 25-5-20AA, 25-5-20, 25-5-21			
Rodeo, tractor pull and other activities				
Project Street Address (or other descriptive location):	Township 25 Range 05 Section (20), [21] QQ			
	Tax Lot (s) {100,100,200,400} [300,400]			
	Waterway: wetland, Sutherlin creek River Mile: 8.2			
City: Sucherin County: Douglas	NWI Quad(s): Sutherlin			
Wetland Delin	eation Information			
Wetland Consultant Name, Firm and Address:	Phone # 541.465.4721			
Satre Associates P.C.	Wobile prone # $541.644.8883$			
101 East Broadway Suite 480	FAX # 0 III 100 11/12			
Eugene, OR 97401				
The information and conclusions on this form and in the attached report are true and correct to the best of my knowledge.				
Consultant Signature:	Date: March 30, 2008			
Dimensional all Miles				
Primary Contact for report review and site access is [A]	ConsultantApplicant/OwnerAuthorized Agent			
Wetland/Waters Present? X Yes D No Study Area	size: 25.9 Acres Total Wetland Acreage: 1.55			
Check Box Below if Applicable: Fees:				
□ R-F permit application submitted	☑ Fee payment submitted \$ [∦] <u>350,0</u> 0			
□ Mitigation bank site	Fee (\$100) for resubmittal of rejected report			
U Wetland restoration/enhancement project (not mitigation)	Name of Payor:			
Industrial Land Certification Program Site				
Other Information:	Y N			
Has previous delineation/application been made on parcel?	/ LJ L2 If known, previous DSL #			
Does LWI, if any, show wetland or waters on parcel?				
For Office Use Only				
DSL Reviewer: Fee Paid Date:	_// DSL WD #			
Date Delineation Received:/ / DSL Pro	ject # · DSL Site #			
Scanned: 🗆 Final Scan: 🗆 🛛 DSL WN	DSL App. #			

Form Effective January 1, 2008



March 10, 2008

Department of the Army Corps of Engineers, Portland District Eugene Field Office 1600 Executive Parkway, Suite 210 Eugene, Oregon 97401-2156 State of Oregon Department of State Lands 775 Summer Street, Suite 100 Salem, Oregon 97301-1279

Re: City of Sutherlin Arthur J Schmidt 126 East Central Ave. Sutherlin, OR 97479

Wetland Delineation: Festival Grounds

Dear ODSL and ACOE personnel:

Enclosed please find a Preliminary Wetland Delineation for Sutherlin Festival Grounds. The following materials are included for your review and development plans are anticipated to be submitted within a JPA in the future:

Item:			
Bound herein:		Pages	Copies
Wetland Delineation Text		6	1
Appendix A:	Figures 1-5, Sheets 6a-6d	Many	1
Appendix B:	Data Forms	Many	1
Appendix C:	Ground Level Color Photos	Many	1
Appendix D:	Hydrology, Climate and Weather Data	Many	1
Appendix E:	Literature Cited	2	1
			1
			1
······································			1
			· 1
			1
			1
			1
	Total		

To clarify some of the content:

1. This Wetland Delineation has been compiled using the revised wetland delineation format mandated by DSL.

As the applicant's designated contact, Satre Associates is available to answer any questions you may have or provide additional materials if needed. We thank you in advance for your review and consideration of these application materials.

Sincerely, Brian Meiering

Planners, Landscape Architects, and Environmental Specialists

A) Landscape Setting and Land Use (previous and current) OAR141-090-0035 (7)(a)

The Sutherlin Park Festival Grounds are located within the City of Sutherlin between South State St. west of the site and Southeast Waite Ave east of the site. Sutherlin Creek runs through a ditch comprising the north boundary of the site and the south boundary is comprised of a gravel road (and perimeter ditch) which at one time was a railroad line used by the mining industry and Weyerhaeuser Company. The site is surrounded by low, medium, and high residential, light industrial, and commercial land uses. There is also undeveloped land to the southeast that is zoned for low density residential. The site is currently zoned and used as public open space and conservation land. The site is also host to local gatherings each year consisting of a Stampede Rodeo and Timber Parade Destination and the City's annual Blackberry Festival. Previous land use activities at this site have consisted of an old railroad line running beneath the gravel road abutting the southern edge of the site, and mine tailings were once deposited beneath the existing capped road bed.

B) Site Alterations OAR141-090-0035 (7)(c)

Alterations have included historic fill (pre 1970's), historic channel alterations (1850s-1960's⁴), damming of Sutherlin creek in the late 1960's-early $1970s^4$ and dirt road building in various places throughout the site (South of Sutherlin creek, and just east of western perimeter ditch). According to historic aerial photos the site appeared to be used for agricultural purposes (1939-1960's).

According to local accounts² and local watershed assessments⁴ drain tiles were installed in the area for local orchards and fields during the late 1890's. Many of these tiles are assumed to have been damaged to date, although the soccer field and some areas surrounding the rodeo may still contain intact drain tiles. The extent and location of tiles is not known.

A road running east-west along the Sutherlin Creek Canal appears¹⁶ to have been constructed around the same time as the Sutherlin creek widening, likely during the 60's^{4,16}. It appears to consist primarily of sidecast from the creek widening and a light gravel surface. Other fill was deposited in the eastern area of the site (where the current Ash woodland exists) and may have been related to pre 1970's orchards described in local watershed assessments⁴. This fill also has a small road which connects the old rail line to the south to the Sutherlin creek levee to the north.

The historic railroad line running the southern edge of the site seemed to have been created in the late 1800s in association with the arrival of the O&C Railroad⁴ and subsequently abandoned/converted to a roadbed sometime prior to 1982. At one point, the roadbed was capped to reduce metal tailing contamination.

The soccer field in the western portion of the park was built before $1985^{2,16}$ likely using fill deposited there decades before. The property was purchased by the City of Sutherlin in 1988 or 1989². Ditches along the southern boundary of the site were likely established formally when the housing developments went in along the western half of the site in the mid to late 1990's, although local accounts relate the ditches to historic conditions decades $ago^{2,16}$. The rodeo arena and bleachers were installed sometime after 1994, according to aerial photos¹⁶. During the field investigation, several areas throughout the site seemed to be subject to vehicular use as indicated by muddy rutted areas. When these areas were evident within and around sample plots, evidence was documented on appropriate data sheets (See Appendix B).

C) Precipitation Data and Analysis OAR141-090-0035 (7)(i)

The average annual precipitation for Roseburg, Oregon (the closest weather data station) is between 29.07 and 37.14 inches^{7,13}. Field investigations were done on March 20 and 21, 2007 and on May 2, 8, 10, 2007. Cumulative precipitation for the two weeks prior to the initial survey date (March 20 and 21) was 0.97 inches, with no precipitation occurring on these investigative field days. Cumulative precipitation for the two weeks prior to the May survey dates (2, 8, and 10) was 0.87, 1.37, and 1.37 inches, respectively. Field days had 0.14 inches of precipitation on May 2 and were dry on May 8th and 10^{th 7}. Percent of normal rainfall year to date was 89.6% by March 1and 78% by May 1. Monthly percent of normal precipitation for each of the three months preceding the field investigations were Dec 110%, Jan 56.4%, Feb 77.5%, Mar 45.0%, Apr 62.0%, and May 34.2% (Percent is per individual month, not a running total).

Subsequent field investigations dates to monitor soil hydrology include February 20, February 26 and March 04. Cumulative precipitation for the two weeks prior to the first survey date (February 20) was 0.2 inches, with no precipitation occurring on this investigative field day. Precipitation on February 26 and March 04 were 0 inches and 0.02 inches, respectively. A running average of normal water year rainfall year to date was 105.8% by February 1 and 91.1% by March 1. Monthly percent of normal precipitation for each of the four months preceding the field investigations were Oct 124.2%, Nov 67.5%, Dec 93.1%, Jan 105.8% and Feb 33.7% (In this case, percent is per individual month, not a running total). Please note that there is a WETS station in Sutherlin but there is no longer a weather station in Sutherlin. The WETS table for Sutherlin was used against weather station recordings from Roseburg station cxus56 kmfr 051000cf6rbg. Please also note that the Sutherlin WETS table doesn't include growing dates. Growing dates were taken from the Roseburg WETS table as it is the nearest and most appropriate second choice.

D) Methods (<u>site-specific</u> methods for field investigation, determining wetland boundaries and geographic extent of other waters) OAR141-090-0030, OAR141-090-0035 (7)(d-e), (g-h), (16)(a-b), (f), (d) or (g), (17), & (19-20)

Permission was granted by The City of Sutherlin to conduct an on-site investigation of the approximately 25.9 acre study area. The field investigation was conducted in accordance with methodology specified in the Corps Manual¹². The study area was initially walked to gain familiarity with existing site conditions.

Sampling Points were established at locations that would best characterize the local conditions between upland and wetland areas (See Appendix A, Sheets 6A-6D: Wetland Delineation Maps). At each Sample Point, observations and notes were made regarding vegetative cover, visible hydrology or other indicators of wetland hydrology, and soil characteristics. Visual observations were used to estimate percent vegetative cover for each plant species observed within a 5 foot radius for herbaceous cover and a

30 foot radius for trees and shrubs/saplings. Plots were sized based on local topography and were shaped to meet one condition of particular interest. Data sheets contain specific plot shape information if different from the standard plot type described above. Soil pits were dug to an average depth of 16 inches to observe and describe the soil type, to observe subsurface hydrologic conditions, and to confirm or refute the assigned soil type described in the Soil Survey for Douglas County. Additional observations were made on soil texture, moisture content, and hydric indicators. Examination of aerial photographs and on-site observations were collectively considered when determining the current site hydrology. Photo documentation was conducted to add qualitative information regarding the site and context to this report (See Appendix C: Ground Level Color Photographs).

The majority of plots onsite were considered atypical due to disturbance. Data sheets contain this information and describe what characteristics of wetlands and non-wetlands were used. In the case of the soccer field within the western portion of the study area, an atypical approach was taken to determine whether wetlands were present. After review of past aerial photographs it was determined that this area was filled well before 1972. This led the investigator to not attempt to discern the soil profile below 16 inches from the current profile. Instead, current conditions were judged as the norm and indicators were used as appropriate to judge whether areas were upland or wetland. In this case, indicators of hydrology were the primary factor when making determinations.

The boundary of WL9 was determined using ordinary high water indicators which were readily obvious. An attempt was made to determine the true ordinary high water versus an atypical flood event. Very old rack-lines were evident along the levee of Sutherlin creek and appear to be the product of one or few major flood events. Normal water line deposits containing racks of wood debris were apparent at varying levels along the levee, and the highest of these rack lines with recent deposits was used to determine the boundary. Seasonal drawdown along Sutherlin creek has created an average of 9 feet of wetlands on each side of the creek for the majority of its length through the site. These wetlands are completely contained within the ordinary high water line as delineated.

Initial fieldwork was conducted by Brian Meiering and Susie Holmes (Satre Associates, P C) and all field observations were recorded on data sheets (See Appendix B: Data Forms). Field investigations were done initially on 21 March 2007 and May 2nd, 8th and 10th of 2007 and subsequently on February 20th, 26th and March 4th of 2008 to confirm or refute hydrology. Hydrology monitoring was thought to be necessary due to the atypical complexity of portions of the site containing difficult soils and vegetation. Several dozen soil pits were dug and evaluated at least one time. Necessary plots were chosen based on field conditions and the suitability of previously collected data. All. points were mapped using a baseline set of points surveyed in during the original wetland survey. A consistent distance and azimuth were used to field locate plots from surveyed points to within 1 meter. This data was used to confirm, refute and adjust the primary data synthesized in 2007. Please see Appendix D: 2008 Hydrology Data and 2008 Hydrology Monitoring Map.

E) Description of All Wetlands and Other Non-Wetland Waters (their characteristics and boundaries, e.g. whether they extend offsite) OAR141-090-0035 (2), (7)(b), & (17)

The study area contains nine discernable features with varying degrees of connectivity to each other. These features are mapped and described as WL1 through WL9.

WL1: 0.005 acre pocket wetland within the western portion of the site among historic fill. This wetland is classified as a palustrine emergent seasonally flooded/saturated feature (PEME). This feature more than likely drains south into WL3 beneath fill or evaporates in the early part of the growing season. The boundaries of WL1 were determined primarily based on vegetation and direct observations of hydrology.

WL2: 0.040 acre pocket wetland within the western portion of the site among historic fill. This wetland is classified as a palustrine emergent seasonally flooded/saturated feature (*PEME*). This feature more than likely drains south into WL3 beneath fill or evaporates in the early part of the growing season. The boundaries of WL2 were determined based on current vegetation, and current hydric soil indicators and direct observations of hydrology.

WL3: 0.055 acre linear wetland within the western portion of the site adjacent historic fill and a housing development to the south. This wetland is classified as a palustrine emergent seasonally flooded/saturated feature (PEME). It drains to a standing pipe and into Sutherlin creek just east of the footbridge. It isn't accessible to fish. The boundaries of WL3 were determined primarily based on current vegetation and current indicators of hydrology, and are hydrologically contiguous with WL4.

WL4: 8.115 acre feature dominating the east central portion of the site and directly connected to WL5, WL3 and WL7. This wetland is classified as a palustrine emergent seasonally flooded/saturated feature (PEME). WL4 is contiguous with WL5. There is no apparent connectivity of WL4 with Sutherlin creek with the possible exception of the water table. It is not accessible to fish as WL7. The boundaries of WL4 were based primarily on hydrology and mapping hydric soils. Vegetation within this wetland was problematic due to the species which were present. Topographical variations due to fill/adjacent development were also used to map the boundary.

WL5: 0.973 acre feature dominating the east portion of the site and directly connected to WL4 (And is indirectly connected with WL 7 via WL4). This wetland is classified as a palustrine forested seasonally flooded/saturated feature (PFOE). WL4 is contiguous with WL5. There is no apparent connectivity of WL4 with Sutherlin creek with the possible exception of the water table. It is not accessible to fish. The boundaries of WL5 were based on all three parameters of soils, hydrology, and vegetation as well as obvious topographical details due to historic fill.

WL6: 0.387 acre linear wetland within the southern portion of the site adjacent to the old rail line to the north and a housing development to the south. This wetland is classified as a riverine intermittent unconsolidated bottom seasonally flooded/saturated feature (R4UB6E). It drains west along the rail line and is directly connected in part to off-site wetlands to the south (east of the housing development). The wetland eventually drains west through a culvert along the western boundary of the site and is assumed to drain to Sutherlin creek approximately one

quarter (1/4) mile to the west. It isn't accessible to fish unless Sutherlin creek flooded extensively.

WL7: 0.077 acre linear wetland within the southern portion of the site adjacent Waite avenue to the east. This wetland is classified as a riverine intermittent unconsolidated bottom seasonally flooded/saturated feature (R2UB6E). It drains to Sutherlin creek. It isn't accessible to fish unless Sutherlin creek flooded extensively.

WL8: 0.385 acre linear wetland within the southern portion of the site adjacent the old rail line to the south and a housing development to the north. This wetland is classified as a riverine intermittent unconsolidated bottom seasonally flooded/saturated feature(R2UB6E). The wetland eventually drains west through a culvert along the western boundary of the site and is assumed to drain to Sutherlin creek approximately a quarter mile west. A very small segment of palustrine emergent seasonally flooded/saturated has been included within this wetland. WL8 isn't accessible to fish unless Sutherlin creek flooded extensively.

WL9: 1.808 acre linear wetland within northern portion of the site. This wetland is classified as a riverine permanent unconsolidated bottom semi-permanently flooded feature (R2UB3F). The wetland eventually drains west along the northern boundary of the site. A portion of this wetland as delineated includes the area between the wetland and the ordinary high water line. The ordinary high water contains wetlands in their entirety along the delineated reach. Topography was used extensively to delineate this feature due to its engineered nature. Upstream wetlands and ordinary high water were mapped using paired plots and drift lines indicative of ordinary high water. Ordinary high water was also collected at points downstream. After these points were surveyed, the creek was delineated in between points based on elevation along both sides of the creek. Fish have been documented as using Sutherlin creek including records of coho salmon and winter steelhead⁹.

F) Deviation from LWI or NWI (if any, wetland determination data or explanation required.) OAR141-090-0035 (16)(e)

Findings are nearly consistent with the Sutherlin Local Wetlands Inventory data. Exceptions include some upland areas around the rodeo arena, the filled eastern edge of the study area near the ash woodland, and some subtle lowland concavities within old fill on soccer field. These areas were confirmed by presence or absence of hydrophytic vegetation and, more importantly, by hydric soil characteristics and direct observations of hydrology.

G) Mapping Method (including mapping precision estimate) OAR141-090-0035 (7)(f), (11), (12), (13), (18), & (22)

Wetland boundaries were determined using the field investigation methods described above (See Section D: Methods), hydrology data, topography and spot elevation data. Plot locations and boundaries were marked with flagging for surveyor. Waters of the state and U. S. were delineated by obtaining ordinary high water mark locations and widths along the observed ditches and canals and flags were placed accordingly to inform the surveyor. The survey was performed by registered professional land surveyors, The Dyer Partnership Inc., in June 2007. Precision is estimated at 0.1 foot accuracy for all points and plus or minus 5 feet for boundaries. Digital survey data was managed by Satre Associates using AutoCAD software. The maps produced are at an approximate scale of 1": 100' (See Appendix A, Sheets 6A-6D).

H) Additional Information (i.e., if needed to establish state jurisdiction) OAR141-085-0015 (1-7), OAR141-090-0030 (2), OAR141-090-0035 (6)(c), (16)(c), & (21)

Sutherlin creek is accessible to fish, including at least winter steelhead and coho salmon⁹. All other wetlands onsite are not considered accessible to fish except in very high water due to their outfalls into Sutherlin creek. Outfalls typically are five or more feet up the side of the south bank of the Sutherlin creek levee.

I) Results and Conclusions OAR141-090-0035 (7)(j)

The field study examined the entire Study Area and the presence or absence of wetland indicators and wetland features within the Study Area were documented. The field study identified three (palustrine emergent, palustrine forested, riverine) types of wetlands and a series of jurisdictional waters of the state and U. S within the study area. All sample points and jurisdictional waters are mapped in Sheets 6A-6D.

The field study documented 8.215 acres of *Palustrine Emergent Seasonally Flooded/Saturated* (PEME) wetland. 0.973 acres of *Palustrine Forested Seasonally Flooded/Saturated* (PFOE) wetland, and 2.657 acres of various *Riverine* (R2UB3F, R4UB6E) and jurisdictional waters of the State and U. S.

J) Disclaimer OAR141-090-0035 (7)(k)

This report of findings includes observations of the project team, relevant information supplied by the client, relevant information supplied by other sources, and documents the best professional judgment of the investigator. This report should be considered a Preliminary Jurisdictional Determination and used at your own risk until it has been reviewed and approved in writing by the Oregon Division of State Lands in accordance with OAR 141-090-0005 through 141-090-0055.





Figure 1: Location Map USGS 7.5 Minute Quadrangle

1 inch anuale ? NNN feat











Figure 3a: Local Wetlands Inventory Sutherlin, Oregon 2001





325 162.5 0 325 Feel

1 inch equals 325 feet

Figure 3b: National Wetland Inventory USFWS/USGS 7.5 Minute Quadrangle Data V.2006 Soil Map–Douglas County Area, Oregon (Sutherlin Festival Grounds)





Figure 4 Douglas County Soils Map Soil Map–Douglas County Area, Oregon (Sutherlin Festival Grounds)



USDA

Natural Resources Conservation Service Web Soil Survey 2.0 National Cooperative Soil Survey



Douglas County Area, Oregon (OR649)					
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
44A .	Conser silty clay loam, 0 to 3 percent slopes	153.7	91.2%		
215E	Rosehaven loam, 12 to 30 percent slopes	0.2	0.1%		
224B	Sibold fine sandy loam, 0 to 5 percent slopes	4.0	2.4%		
235C	Sutherlin silt loam, 3 to 12 percent slopes	10.5	6.3%		
Totals for Area of Interest (Ad	DI)	168.4	100.0%		

Map Unit Legend

.







Study_Area

162.5 ٥ 325 Feet Figure 5c 1950 Aerial Photograph Sutherlin Festival Grounds Source: U of O Map Library











 Legend
 1 inch equals 325 feet

 Study_Area
 325

 Study_Area
 325



 1 inch equals 325 feet

 325
 162.5
 0
 325 Feet

Figure 5h 1982 Aerial Photograph Sutherlin Festival Grounds Source: U of O Map Library

____ Study_Area







Legend	1 inch equals 325 feet	Figure 5j 1985 Aerial Photograph
Study_Area	325 162.5 0 325 Feet	Sutherlin Festival Grounds Source: U of O Map Library









Figure 5I 1994 Aerial Photograph Sutherlin Festival Grounds Source: U of O Map Library







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County: <u>Douglas</u> Project/Contact: <u>Sutherlin</u> Plant Community: <u>Disturt</u> Plot location: <u>Just east of</u> Recent Weather: <u>Mean tr</u> Do normal environ. condi Has Vegetation ⊠ Soli D Explain: <u>Plot</u> activities. Roadside built	n Parks/ Satre A bed/ Compacter I S State St. nor emp ~44 decree itions exist? Y E I Hydrology I is located withir well before 197	City: <u>Suthe</u> <u>issociates</u> , P.C. <u>i Roadside Ditch</u> th of dirt road in ci <u>is partly cloudy. 1</u> <u>3</u> N I If No, e been significant! <u>a roadside, man</u> <u>2</u> .	date perc	ipitation cted soils and d	Date: <u>21/March</u> / diverted hydrology, t	2007 I I Sile is allered	File # <u>0349</u> Det. by: <u>Br</u> Plot # <u>SP1</u> <u>by adjace</u>	9 <u>lan Melerino</u> L nt developm	<u>/ Susie Ho</u> ent. and p	olmes revious fill	
wenneedeed naennaed na	i ci Malil Sala Sezi Mi		200122222222222 \	VEGET	TATION	***************	222222222222	12922299			
<u>Tree Stratum</u> 1 2		Status/ Raw % C	Cover/ Rel % Co	over	Herb Stratum 1. <u>Festuca aru</u> 2. <u>Holcus iana</u>	ndinacea*		Status/ Ra FAC- FAC	w % Cover/ 30 25	Rel % Co 27 23	ver
3		Status/ Raw % C FACU- 40	Cover/ Rel % Co	over	3. <u>Hypochaeris</u> 4. <u>Daucus carr</u> 5. <u>Centaurea p</u> 6 7 8 9 10 11	s radicata* ota* pratensis		FACU NOL NOL	20 20 15	<u>18</u> <u>18</u> <u>14</u>	
Percent of Dominant Spe Other Hydrophytic Veget Criteria Met? YE	ecies that are Ol ation Indicators S 🔲 NO 🛛	BL, FACW, FAC (not FAC-): <u>20%</u> /egetation not u	sed in de	elermination (di	ue to atypical nature	e of ditch)				
Man Unit Name: 44 A Co	anser Silby Clav	030		SO	ILS	ainane Class: Poorl	v Drained				
On Hydric Soils List? Y		Has hydric	inclusions? Y			ambye 01833. <u>- 0011</u>	<u>y Didined</u>				
Depth Range M of Horizon (Matrix Color		Redox Concer * abund./size/	ntrations contrast/c	color/location (r	Redox D natrix or pores/peds	epletions)		Texture		
0-5" 5	iyr 5/2-3		7.5yr 6/8 @ 5"	' C/M/D/ I	Matrix				SCL w/fill		
R	Refusal at 5"										
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Condition Gleyed or low chror Redox features with	ns (tests positive ma colors nin 10° (e.g., co) ncentrations)		Concret High org Organic Organic Listed o Meets h Supplen	ions/Nodules (i ganic content in streaking (in S pan (in Sandy n Hydric Soils I ydric soil criteri nental indicajor	w/in 3"; > 2mm) a surface (in Sandy : andy Soils) Soils) List (and soil profile ia 3 or 4 (ponded o (e.g., NRCS field in	Soils) matches) r flooded for Ic ndicator):	ong duratic			_
Criteria Met? YES	S 🛛 NO 🗌	Comments: Si	oils in this area	are fairly	red at times du	ue to historic red tail	ings, although	mottling v	was obvious		
Recorded Data				HYDRO	OLOGY						
Recorded Data Availa	able 🛛 Aer	ial Photos	🗌 Siream gaug	je	🗌 Olher	No Recorded I	Data Available	•			
Field Data Depth of inundation: N	<u>lone</u> Di	epth to Saturation	: <u>None</u>	Depth	to free water:	None					
Primary Hydrology Indi Inundated Saturaled in upper 12 Water Marks Drift Lines Sediment Deposits Drainage Patterns	icators: 2 inches		Secondary H	ydrology Oxidized Water-s Local So FAC-Ne Other: _	Indicators (2 d Root Channe tained Leaves oil Survey Data outral Test	or more required): ls (upper 12")					
Criteria Met? YES	з 🛛 NO 🗌	Comments: Pe	erimeter ditch h	as obviou	us high water m	narks.	*****				
			DE	ETERN	INATION						

WETLAND? YES X NO Comments: Hydrology evident to driftlines as ordinary high water. Atypical excavated ditch is well defined by elevation gradient. This plot very weedy. Hydrology evidence is strong and the normal circumstance points to wetland characteristics throughout the extent of the ditch.

County: <u>Doualas</u> Project/Contact: <u>Sutherlin Parks/ Satre</u> Plant Community: <u>Disturbed/ Compac</u> Plot location: <u>Just south/upland of SP</u> Recent Weather: <u>Mean temp ~44. dea</u>	y: <u>Doualas</u> City: <u>Sutherlin</u> Date: <u>21/March/2007</u> File # <u>0349</u> Det. by: <u>Brian Mejering/ Susie Holmer</u> UContact: <u>Sutherlin Parks/ Satre Associates. P.C.</u> Community: <u>Disturbed/ Compacted Roadside</u> ccation: <u>Just south/hubland of SP1</u> It Weather: <u>Mean temp ~44 degrees partly cloudy. 1.05 " month to date percipitation</u>								
Has Vegetation IX Soil IX Hydrology Explain: Plot is located alo development, and previous fill activitie	IX N L If No, explain: been significantly disturbed? ing the shoulder of a roadside, it s. Rail line built well before 197	<u>ust above a</u> 2.	man-made ditch with compacted soils and divi	erted hydrology	site is altered by adjacent				
- Ile in a contracted established in the second s	iz 280 <i>960,0000000000000000000000000000000000</i>	VEGE	TATION		5 m m m m <u>m m m m m m m m m m m m m m</u> m M				
Tree Stratum	Status/ Raw % Cover/ Rel %	Cover	Herb Stratum	Statue/ Raw	% Cover/ Pel % Cover				
1		-	1. Avena cf. fatua*	NOL 6	<u>) 57</u>				
3.			3. Hypochaeris radicata	FACI 6	<u> </u>				
			4. Daucus carola	NOL 5	5				
Sapling/Shrub Straium	Status/ Raw % Cover/ Rel %	Cover	5. <u>Centaurea pratensis</u> 6. Vicia sativa var sativa	NOL 5	<u> </u>				
1. Rubus armeniacus*	FACU- t t	00001	7						
2. Rosa cf. eqlanteria*	FACW_t_t		8.	·					
4.			9						
5			11		***************************************				
Percent of Dominant <u>Species</u> that are Other Hydrophytic Vegetation Indicato Criteria Met? YES INO	OBL, FACW, FAC (not FAC-): <u>2</u> rs: <u>None</u> ⊠ Comments: <u>Roadbed</u>	<u>20</u> %							
		SC	DILS						
Map Unit Name: Conser silty clay loan	n		Drainage Class: Poorly drained						
On Hydric Soils List? Y 🛛 N 🗌	Has hydric inclusions?	YOND			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
Depth Range Matrix of Horizon Color	Redox Con * abund./si;	centrations ze/contrast/	Redox Depletions color/location (matrix or pores/peds)	Te	exture				
Refusal				G	ravel				
			en an eine ander eine andere eine eine Anteren eine eine eine eine eine eine eine						
		••••••••••••••••••••••••••••••••••••••	i		ali Mangala Mangala ang Kanala ng Kang Pang Kang Kang Kang Kang Kang Kang Kang K				
Hydric Soil Indicators: Histosol Sulfidic Odor Reducing Conditions (tests positi Gleyed or low chroma colors Redox features within 10" (e.g.,	ive) concentrations)	Concret High org Organic Corganic Listed o Meets h Suppler	tions/Nodules (w/in 3"; > 2mm) ganic content in surface (in Sandy Soils) c streaking (in Sandy Soils) c pan (in Sandy Soils) on Hydric Soils List (and soil profile matches) nydric soil criteria 3 or 4 (ponded or flooded for mental indicator (e.g., NRCS field indicator):	long duration)					
Criteria Met? YES 🗌 NO 🛛	Comments: <u>Atypical, road</u>	bed is capp	ed with gravel from old rail line.						
ی از این میز زند وی این این این این این این این این این ای	na fina ang ang ang ang ang ang ang ang ang a	HYDR	OLOGY						
Recorded Data	Aerial Photos 🛛 Stream g	auge	Other No Recorded Data Availab	ble					
Field Data Depth of inundation: 0	Depth to Saturation: None	Dept	h to free water: <u>None</u>						
Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Drianage Patterns	Secondary	Hydrology Oxidize Water-s Local S FAC-Ne Other:	y Indicators (2 or more required): d Root Channels (upper 12") stained Leaves böll Survey Data eutral Test 	·					
Criteria Met? YES 🗌 NO 🛛	Comments:								
_		DETERN	/INATION						

:

WETLAND? YES INO Comments: Plot taken to describe capped roadway bisecting perimeter ditch.

County: <u>Doualas</u> Project/Contact: <u>Sutherlin Park</u> Plant Community: <u>Disturbed/ C</u> Plot location: <u>Just west of first H</u> Recent Weather: <u>Mean temp</u> Do normal environ. conditions e Has Vegetation Soil Hyd Explain:	007 File # 0349 Det. by: <u>Bri</u> Plot # <u>SP3</u>	an Mejerin <u>o/ Susie Holmes</u>			
		VEGETAT	ION	92852800222N28280283	
Tree Stratum 1. Cratageus monogyna* 2. Fraxinus latifolia* 3. Matus of X domestica Saplino/Shrub Stratum 1. Cratageus monogyna* 2. 3. 4. 5.	Status/ Raw % Cover/ FACU+ 25 FACW 20 UPL 5 Status/ Raw % Cover/ FACU+ 15	Heri 50 1. E 40 2. J 10 3. M 5. C 5. C 7. G 5. C 100 7. G 100 7. G 100 7. G 100 7. G 100 1. I. 100 1. I.	o Stratum estuca arundinacea* uncus patens* entha pulegium aucus carola entaurea pratensis iosacus fullonum sso sylvestris eranium dissectum araxicum officianale	Status/ Rav FAC- FACW OBL UPL UPL FAC UPL FACU	w % Cover/ Rel % Cover <u>60</u> 53 <u>25</u> 22 <u>8</u> 7 <u>5</u> 4 <u>5</u> 4 <u>5</u> 4 <u>5</u> 4 <u>5</u> 4 <u>1</u> 1 <u>1</u> 1
Percent of Dominant <u>Species</u> the Other Hydrophytic Vegetation is plot center so were therefore Criteria Met? YES Crataegus cover shouldn't be e	at are OBL, FACW, FAC (not FA dicators: <u>see non-dominants w</u> <u>omitted from the 50/20</u> NO X Comments: <u>Festuca</u> equally weighted because it was t	C-): <u>(2/5</u> % thin herb stratum lis arundinaceae AND C ruly not dominant.	t. NOL species occurred ard	ound the periphery of i	plot and weren't indicative of eq would have passed without it.
Map Unit Name: Conser silly of	' av loam	SOILS	Drainage Class' Poorly	Drained	
On Hydric Soils List? Y 🛛 N	Has hydric inclus	ons?Y 🗋 N 🗍	510 mage 6,650 r <u>-551 r</u>	0101100	
Depth Range Matrix of Horizon Color	Redo * abu	Concentrations nd./size/contrast/color	Redox De location (matrix or pores/peds)	pletions	Texture
0 - 16" 10yr 3/2	2-1 5yr 6/	8 C/F/D @ 9"	***************************************		SCL
Hydric Soil Indicators: Histosol Sulfic Epipedon Sulfidic Odor Reducing Conditions (test Gleyed or low chroma colo Redox features within 10"	s positive) rs (e.g., concentrations)	Concretions/ High organic Organic stra: Organic pan Listed on Hy Meets hydric Supplementa	Nodules (w/in 3"; > 2mm) content in surface (in Sandy S aking (in Sandy Solis) (in Sandy Solis) dric Solis List (and soil profile n soil criteria 3 or 4 (ponded or 1 i indicator (e.g., NRCS field inc	oils) natches) Rooded for long duratior dicator):))
Criteria Met? YES 🛛	NO Comments: Mottling	begins within 3"			
Recorded Data		HYDROLO	θGY		
Recorded Data Available	Aerial Pholos	am gauge 🛛 🗋 C	Other D No Recorded D	ata Available	
Field Data Depth of inundation: <u>0</u>	Depth to Saturation: 8"	Depth to fi	ee water: <u>9.5"</u>		
Primary Hydrology Indicators Inundated Saturated in upper 12 inche Water Marks Drift Lines Sediment Deposits Drainage Patterns	: Seco	ndary Hydrology Indi Oxidized Ror Water-staine Local Soil Su FAC-Neutral Other:	cators (2 or more required): ot Channels (upper 12'') d Leaves rvey Data Test		
Criteria Met? YES 🛛	NO Comments: <u>Hydroloc</u>	y provided by perimet	er dilch.		
		DETERMINA	TION		

WETLAND? YES NO Comments: <u>Although vegetation is somewhat problematic, hydrology + soils are strongly suggestive</u> of wetland characteristics

County: Douglas City: Sutherlin Date: 21/March/2007 File # 0349 Project/Contact: Sutherlin Parks/ Satre Associates, P.C. Det. by: Brian Meiering/ Susie He Plant Community: Disturbed/ Compacted Roadside Plot # SP4							
Recent Weather: <u>Mean</u> Do normal environ. con Has Vegetation ⊠ Soil Explain: <u>Plc</u>	temp -44 degrees p ditions exist? Y ⊠ N I ⊠ Hydrology ⊠ be bl is located along the woll brockers 1072	artly cloudy, 1.05 " month t I I If No, explain: en significantly disturbed? shoulder of a roadside, just	o date perc - st above a	ipitation ditch with compacted soils and diverted hydro	logy, site is	altered by and	d previous fill
	<u> weil belote 1972.</u>	d at oosseessesses					=============
			VEGET	ATION			
Tree Stratum	Sta	itus/ Raw % Cover/ Rel %	Cover	Herb Stratum	Status/ Ra	aw % Cover/ F	Rel % Cover
1			-	1. Festuca arundinacea*	FAC-	80	<u>76</u>
3			-	3. Hypochaeris radicata*	FACU	5	5
			-	4. Daucus carola*	NOL	5	5
Sapling/Shrub Stratum	Sta	itus/ Raw % Cover/ Rel %	Cover	5. <u>Centaurea pratensis</u> * 6. <u>Dipsacus follonum ssp sylvestris</u> *	NOL FAC	<u>5</u> 5	<u>5</u> 5
1			-	7. Trifolium repens	FACU+	<u>t</u>	<u>+</u>
3.			-	9. Rumex crispus	FACt	<u>_</u>	_ <u></u> t
4		·	-	10. Rumex acetosella	FACU+	t	_1
5			-	11			
Percent of Dominant S Other Hydrophytic Veg Criteria Met? Y	pecies that are OBL, etation Indicators: ES INO X	FACW, FAC (not FAC-): <u>3:</u> Comments: <u>Community is</u>	<u>3</u> % disturbed F	AC dominant			ی محمد بنده محمد ما
			SO	ILS			
Map Unit Name: Conse	er silly clay loam			Drainage Class: Poorly drained			
On Hydric Soils List?		Has hydric inclusions?	YOND				
Depth Range of Horizon	Matrix Color	Redox Cond * abund./siz	centrations e/contrast/c	Redox Depletions olor/location (matrix or pores/peds)		Texture	
	Refusal @ 0"						
			iiiiiii		<u> </u>		
Hydric Soil Indicators Histosol Histic Epipedon Sulfidic Odor Reducing Conditio Gleyed or low chrr Redox features wi	: ons (lests positive) oma colors ithin 10" (e.g., concer	ntrations)	Concreti High org Organic Organic Listed or Meets hy Supplerr	ions/Nodules (w/in 3"; > 2mm) (anic content in surface (in Sandy Soils) streaking (in Sandy Soils) pan (in Sandy Soils) n Hydric Soils List (and soil profile matches) ydric soil criteria 3 or 4 (ponded or flooded for nental indicator (e.g., NRCS field indicator):	long durati	on)	
Criteria Met? YE	S NO 🛛 🛛	Comments: <u>Atypical- Grave</u>	el roadbed e	dge			
			HYDRO	DLOGY			
Recorded Data	ilable 🛛 Aerial f	Photos 🔲 Stream ga	luge	Other No Recorded Data Availab	le		,
Field Data Depth of inundation:	None Depth	to Saturation: None	Depth	to free water: <u>None</u>			
Primary Hydrology In Inundated Saturated in upper ' Water Marks Drift Lines Sediment Deposits Drainage Patierns	dicators: 12 inches	Secondary	Hydrology Oxidized Water-st Local So FAC-Net Other:	Indicators (2 or more required): I Root Channels (upper 12") ained Leaves iil Survey Data utral Test 			
Criteria Met? YE	S 🗌 NO 🛛 🤉	Comments: <u>Same as soil co</u>	ommentary				
		[DETERM	INATION			

WETLAND? YES NO X Comments: Gravel roadbed edge. Hasn't been recently disturbed. (Plot taken to describe rail line edge.)

County: <u>Douglas</u> Project/Contact: <u>Sulhe</u> Plant Community: <u>Ast</u> Plot location: <u>Plot is al</u> Recent Weather: <u>Mea</u> Do normal environ. cc Has Vegetation <u>So</u> Explain: _	arlin Parks/ Satre Ass <u>Woodland</u> long western side of e in termo ~44 degrees r inditions exist? Y I i iii I Hydrology I be 	Date: <u>21/March/2007</u>	File # <u>034</u> Det. by: <u>B</u> Plot # <u>SP</u>	<u>9</u> rian Melering 5	<u>I/ Susie Holmes</u>			
د در بر بیر بر میشون ای میشاند کا ک		ی بین از اینا کار بنا کار این کار بین کار این ک این این از این کار این ک	VEGE	TATION	**************************************			[.]
Tree Stratum	64	atual Bau % Covarl Bal %	Cover	Herb Stratum		Station/ D	w % Covort	
1. Fraxinus latifolia*	FA	CW 90 100	Gover	1. Carex densa	* ·	OBL	20	20
2			-	2. Juncus pater	15*	FACW	20	20
3.				3. Lathyrus aph	aca"		15	15
Sapling/Shrub Stratun	n			5. Camassia cf.	nuamash*	FACW	15	15
	St	atus/ Raw % Cover/ Rel %	Cover	6. Lathyrus sylv	restris	NOL	10	10
1. Cratageus monogy	na* FA	CU+ 50 100		7. Mentha puleo	pium	OBL	5	5
2			-	8. Sanicula cras	ssicaulis	NOL		
3			-	9. Daucus carol	aligosperma	NOL EAC	<u></u>	<u></u>
5.			-	11. C. pendulific	ora	OBL		
Percent of Dominant Other Hydrophytic Ve Criteria Met?	Species that are OBL, getation Indicators: se YES X NO	FACW, FAC (not FAC-): <u>8</u> e list of non-dominants u Comments: <u>Also passes F</u>	<u>0</u> % nder herb AC-Neutra	stratum al test				
Map Unit Name: <u>44A</u>	Conser silty clay loam		SC	DILS	inage Class: <u>Poorly draine</u>	<u>d</u>		
On Hydric Solls List?	YND	Has hydric inclusions?		1				
Depth Range of Horizon	Matrix Color	Redox Con * abund./siz	centrations e/contrast/	color/location (m	Redox Depletion: atrix or pores/peds)	3	Texture	, Port
0 - 8"	2.5yr 4/1	7.5yr 6/8					SCL	
8 - 16"	5yr 3/1	7.5 yr 6/8			10yr 6/1		SC	
16 - 20	10yr 6/1						С	
Hydric Soil Indicator Histosol Sulfidic Odor Reducing Condil Gleyed or low ch Redox features w Criteria Met? Y	ions (tests positive) roma colors within 10" (e.g., conce ES X NO	entrations)	Concre High or Organic Organic Organic Listed c Meets t Suppler	tions/Nodules (w ganic content in t c streaking (in Sa c pan (in Sandy S on Hydric Soils Li nydric soll criteria mental Indicator (/in 3"; > 2mm) surface (in Sandy Soils) ndy Soils) Soils) Isl (and soil profile matches I 3 or 4 (ponded or flooded (e.g., NRCS field indicator)	s) i for long durati :	on)	
			HYDR	OLOGY				
Recorded Data	ailable 🛛 Aerial	Photos 🔲 Stream ga	auge	Other	No Recorded Data Ava	ailable		
Field Data Depth of inundation	n: <u>0</u> Depti	to Saturation: 7"	Dept	h to free water: <u>8</u>	<u>n</u>	•		
Primary Hydrology I Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	ndicators: * 12 inches s	Secondary	Hydrology Oxidize Water-s Local S FAC-Ne Other.	y Indicators (2 or d Root Channels stained Leaves toil Survey Data eutral Test	r more required): 9 (upper 12")			
Criteria Met? Y	es 🛛 No 🗌	Comments:						
₩₽₩₩₩₩₩₩₩₩₩₩₩₩₩ ₩₽₩₩₩₩₩₩₩₩₩₩₩₩	=======================================		DETERN	AINATION				

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WETLAND? YES NO Comments: This was one of the least disturbed of the plots. Plot taken to describe least altered condition within eastern ash stand. Established a baseline to judge historic fill that occurred to the east (pre-70's) and to differentiate the disturbed western field

County: <u>Douolas</u> Project/Contact: <u>Su</u> Plant Community: <u>V</u> Plot location: <u>Plot is</u> Recent Weather: <u>M</u> Do normal environ. Has Vegetation [] Explain:	therlin Parks/ Satre Asso Vat Meadow i just west of ash woodla ean temp -44 decrees p condilions exist? Y⊠ h Soil □ Hydrology □ be meadow is a muddy oit	21/March/2007	File # <u>0349</u> Det. by: <u>Brian Mei</u> Plot # <u>SP6</u>	erina <u>l Susie Holmes</u>			
HIRINGI HIRING	.sooddo ganaasedau	=085#3#325555555555556;	VEGE	TATION	_ = = = = = = = = = = = = = = = = = = =	# <u>########</u> ###########################	
<u>Tree Stratum</u> 1 2	Str	atus/ Raw % Cover/ Rel % Co	over	Herb Stratum 1. Hordeum jubatum* 2. <u>Glyceria occidentalis*</u>		Status/ Raw % Co FAC 50 OBL 20	over/ Rel % Cover 50 20
3 Sapling/Shrub Strat 1 2 3 4 5	Um Sta	atus/ Raw % Cover/ Rel % Co	over	Menina puleatum Juncus marginalus S. Camassia cf. guamas Parentucellia viscosa Lathyrus sphaericus Lolium eerenne Festuca arundinacea Io. Ranunculus occiden Luzula multiflora	h talis	DBL 20 NOL 10 FAC+ t FAC- t	$ \begin{array}{r} 20 \\ 10 \\ t \\ t \\ t \\ t \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$
Percent of Dominar Other Hydrophytic V Criteria Met? field.) (Juncus marc	nt <u>Species</u> that are OBL, /egetation Indicators: YES X NO iinatus has national indic	FACW, FAC (not FAC-): <u>100</u> —— Comments: <u>25% of plot is st</u> ator status of at least FACW,	!% anding w)	ater/plot exemplary exan	nple of undisturbed ve	aetation relative to	other pants in eastren
. <u>1999 - 1999 - 1999 - 1999 - 1999 - 1999</u>			so	ILS			
Map Unit Name: 44	A Conser silly clay loam			Drainage Cla	ass: Pourly drained		
On Hydric Soils List	17 Y 🗆 N 🗖	Has hydric inclusions? Y		***		******	
Deplh Range of Horizon	Matrix Color	Redox Conce * abund /size/	ntrations contrast/c	color/location (matrix or p	Redox Depletions ores/peds)	Textu	re
0-8	2.5yr 3/1	10yr 7/8 C/F/I	D/M,po,pe	•		SCL	
8 - 18	10yr 6/1	F/F/F				C	
Hydric Soil Indicat Histosol Histic Epipedo Sulfidic Odor Reducing Con Gleyed or low Redox feature Criteria Met?	tors: on ditions (tests positive) chroma colors s within 10" (e.g., conce YES X NO	ntrations)	Concret High or Organic Organic Listed o Meets h Suppler er of dist	ions/Nodules (w/in 3"; > : ganic content in surface (i streaking (in Sandy Soils) pan (in Sandy Soils) n Hydric Soils List (and s ydric soil criteria 3 or 4 (nental indicator (e.g., NR urbed soil profiles on site	2mm) in Sandy Soils) s) oil profile matches) ponded or flooded for CS field indicator):	long duration)	
Recorded Data			H I DKI				
Recorded Data	Available 🛛 Aerial	Photos 🔲 Stream gau	ge	Other No R	lecorded Data Availab	le	
Field Data Depth of inundat	ion: <u>0</u> Depli	to Saturation: <u>To surface</u>	Depth	to free water: <u>2"</u>			
Primary Hydrology Inundated Saturated in upp Water Marks Drift Lines Sediment Depos Drainage Patter	y Indicators: per 12 inches sits ns	Secondary H	ydrology Oxidized Water-s Local So FAC-Ne Other: _	Indicators (2 or more re d Root Channels (upper 1 tained Leaves oil Survey Data utral Test	equired): 12")		
Criteria Met?	YES 🛛 NO 🗌	Comments: From this point w	estward.	atypical situlations are th	<u>ie norm.</u>		
		D	ETERN	IINATION			: a sui Naitteata sta tin M

WETLAND? YES NO Comments: Plot is just east of the beginning of standing water. (Soil profile of this plot is typical of open field, within common vehicular disturbance.)

County: Douglas City: Sutherlin Date: 02/May/2007 File # 0349 Project/Contact: Sutherlin Parks/ Sate Associates, P.C. Det. by: Brian Meiering/ Susie Holms Plant Community: Crassy Lawn/ Meadow Plot location: Along northern central edge of soccer field within a slight topographic depression Plot within a slight topographic depression Recent Weather: Mean temp 50-depress, partly cloudy, 0.14" percipitation, 0.34" month to date percipitation Dot Plot within a slight topographic depression Do normal environ. conditions exist? Y N N If No, explain: Site was recently mowed (typical of management) Has Vegetation Soil Hydrology been significantly disturbed? Hydrology been significantly disturbed?									
			2222000000	VEGE'	TATION				
<u>Tree Stratum</u> 1 2 3		Status/ Raw %	Cover/ Rel %	Cover	Herb Stratum 1. <u>Mentha pul</u> 2. <u>Hordeum ju</u> 3. <u>Plagiobothr</u>	eoium Ibalum ys cf. figuratis	Status/ Rav OBL FAC FACW	r % Cover/ Rel % Cover 65 42 60 39 20 13	
Saplino/Shrub Stratu	<u>mı</u>	Status/ Raw %	Cover/ Rel %	Cover	4. <u>Poa annua</u> 5. <u>Rumex crís</u> 6. <u>Hypochaer</u> 7 8.	pus is radicata	FAC FAC+ FACU	3 2 3 2 3 2	
3 4 5					9 10 11				
Percent of Dominant Other Hydrophytic V Criteria Met?	t <u>Species</u> that a legelation Indica YES 🔀 N	re OBL, FACW, FAC ators: O Comments:	(not FAC-): 1	<u>100</u> %					
Map Unit Name: <u>44/</u>	A Conser silty cl	ay loam		SC	DILS	ainage Class: <u>Poorly drain</u>	ed		
On Hydric Soils List	7 Y 🛛 N 🗆	Has hydri	ic inclusions?	YDNL			•		
Depth Range of Horizon	Matrix Color		Redox Con * abund./siz	centrations ze/contrast/	color/location (Redox Depletio matrix or pores/peds)	ns	Texture	
0 - 1"	7.5yr 3/3					***			
2 - 4"	10yr 5/3		5yr 6/8 C/N	N/D/matrix/p	ds			B/G	
4 - 9"	10yr 3/3		5yr 5/8 C/W	NDI				B/G	
9 - 17"	2.5yr 2.5/1		7.5yr 5/8 C	/F/D				SCL	
Hydric Soil Indicate Histosol Histic Epipedon Sulfidic Odor Reducing Cont Gleyed or low o Redox features	ors: 1 Jilions (lests po chroma colors 5 wilhin 10" (e.g	silive) ., concentrations)		Concret High or Organic Organic Listed c Meets h Suppler	tions/Nodules (ganic content in ; streaking (in S ; pan (in Sandy on Hydric Soils nydric soil criter mental indicato	w/in 3"; > 2mm) n surface (in Sandy Soils) Soils) Soils) List (and soil profile match ia 3 or 4 (ponded or floode r (e.g., NRCS field indicato	es) ed for long duratior r):	1)	
Criteria Met?	YES 🛛 NO	Comments:	9 - 7" 13 old (a	apparently n	native) (9-11" or	rganic 0 horizon)			
Decision 1 de la				HYDR	OLOGY				
Recorded Data	vailable 🗵	Aerial Photos	🗋 Stream g	auge	C Other	No Recorded Data A	vailable		
Field Data Depth of inundation	on: <u>0</u>	Depth to Saturatio	n: <u>None</u>	Dept	h to free water:	None			
Primary Hydrology Inundated Saturated in uppi Water Marks Drift Lines Sediment Depos Drinage Pattern	Indicators: er 12 inches its is		Secondary	Hydrology Oxidize Water-s Local S FAC-Ne Other:	y Indicators (2 d Root Channe stained Leaves oil Survey Data eutral Test	or more required): els (upper 12") a			
Criteria Met?	YES 🛛 NO	Comments:							
				DETERN	INATION				

WETLAND? YES X NO Comments: S Fill within field needs to be established as to the date it was placed [see 3 Dec. 2008 TELCON with J. Carnate.]. Soccer field built (filled) before 1985 according to local accounts, but was more than likely filled much earlier originally.

County: <u>Douglas</u> Project/Contact: <u>Sutherlin Park</u> Plant Community: <u>Grassy Lawr</u> Plot location: <u>East-northeast of</u> Recent Weather: <u>Mean temp 5</u> Do normal environ. conditions & Has Vegetation ⊠ Soll ⊠ Hyd Explain: <u>Site was re</u>	City: <u>Sutherlin</u> <u>s/ Satre Associates, P.C.</u> <u>/ Meadow</u> <u>i the comer of SP7</u> <u>0-degrees, partity cloudy, 0.14" percipitation, 0.3-</u> <u>xist?</u> Y I N I If No, explain: rology I been significantly disturbed? <u>xcently mowed (typical of management), althougi</u>	Date: <u>02/May/2007</u> 4" month to date percipitation h. plants are still recognizable regardless of recer	File # <u>0349</u> Det. by: <u>Brian Meiering/ Susie Holmes</u> Plot # <u>SP8</u> <u>nt mowing</u>
	VEG	ETATION	
Tree Stratum	Status/ Raw % Cover/ Rel % Cover	Herb Stratum	Status/ Raw % Cover/ Rel % Cover
1		1. Festuca arundinacea* 2. Trifolium repens*	<u>FAC- 95 81</u> FACU+ 10 8
3		3. Bellis perennis*	NOL B 7
Sapling/Shrub Stratum	Status/ Raw % Cover/ Rel % Cover	Stepana media Sepana media	<u>FACU I t</u> FAC+ I t
2.		8	
3.		9	
4 5		11	
Percent of Dominant <u>Species</u> II Other Hydrophytic Vegetation I Criteria Met? YES the almost monoculture vegeta	hat are OBL, FACW, FAC (not FAC-): <u>0</u> % ndicators: NO X Comments: <u>atvoical mowed weedy</u> <u>tion structure of fest. arund.</u>	r fieldplants identifieable recardless of mowing.	Used all species greater than trace due to
	S	SOILS	
Map Unit Name: 44A Conser si	Ily clay loam	Drainage Class: Poorly drained	
On Hydric Soils List? Y 🛛 N	Has hydric inclusions? Y		
Depth Range Matrix of Horizon Color	Redox Concentration * abund./size/contras	ns Redox Depletions st/color/location (matrix or pores/peds)	Texture
0 - 7" 10.5yr 3	Negligible		SCL+fill
Refusal@7" due to f	10	สามีรับการที่สามารถสมารณสารสมารณสารสารสารสารสารสารสารสารสารสารสารสารสารส	**************************************
Hydric Soil Indicators: Histosol Sulfidic Ddor Reducing Conditions (tesl Gleyed or low chroma coi Redox features within 10"	s positive)	retions/Nodules (w/in 3"; > 2mm) organic content in surface (in Sandy Soils) nic streaking (in Sandy Soils) nic pan (in Sandy Soils) d on Hydric Soils List (and soil profile matches) s hydric soil criteria 3 or 4 (ponded or flooded for lemental indicator (e.g., NRCS field indicator):	long duration)
Criteria Met? YES 🗌	NO 🔀 Comments:		
		ROLOGY	
Recorded Data	🛛 Aerial Photos 🗌 Stream gauge	Other No Recorded Data Availab	Die
<u>Field Data</u> Depth of inundation: <u>None</u>	Depth to Saturation: <u>None</u> De	plh to free water: <u>None</u>	
Primary Hydrology Indicator: Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Drianage Patterns	s: Secondary Hydrolo Oxidia s Quida S	ogy Indicators (2 or more required); zed Root Channels (upper 12") r-stained Leaves i Soil Survey Data Neutral Test :	
Criteria Met? YES	NO 🔀 Comments: <u>Topographically slightly</u>	above sp7	
	DETER	RMINATION	

WETLAND? YES NO Comments: <u>Fill here is more inpenitrable due to larger rock</u>. Plot impacted by pre-1972 slope fill due to sidecast and levee construction. see sp 7 notes.

County: <u>Douglas</u> Project/Contact: <u>Sutherlin Parks/ Satur</u> Plant Community: <u>Grassy Lawn/ Mear</u> Plot location: Western edge of SP7	City: <u>Sutherlin</u> e Associales, P.C. <u>low</u>		Date: <u>02/May/2007</u>	File # <u>034</u> Det. by: <u>B</u> Plot # <u>SP</u>	1 <u>9</u> Irlan Meiering/ Susie Holmes 9
Recent Weather: <u>Mean temp 50-degr</u> Do normal environ. conditions exist? M Has Vegetation ⊠ Soil ⊠ Hydrology Explain: <u>Site was recently</u>	ees, partly cloudy, 0.14" percipita (🛛 N 🗍 If No, explain: ☐ been significantly disturbed? mowed (typical of management).	ation, 0.34" - although p	month to date percipitation	ecent mowing	
		VEGET	TATION		
Tree Stratum	Status/ Raw % Cover/ Rel %	Cover	Herb Stratum	Status/ R	aw % Cover/ Rel % Cover
2		-	2. Trifolium repens*	FACU+	<u>10 9</u>
SSaplino/Shrub Stratum	Status/ Raw % Cover/ Rel %	- Cover	4. Plantago lanceolata* 5. Hypochaeris radicata 6. Rumex crispus 7. Taraxicum officianale	FACU+ FACU FAC+ FACU	$\begin{array}{c} 3 \\ 3 \\ t \\$
234		-	8. Trifolium subterranium 9 10	NOL	
5 Percent of Dominant <u>Species</u> that are Other Hydrophytic Vegetation Indicato Criteria Met? YES NO	OBL, FACW, FAC (not FAC-): 0 Irs: Comments: Used all signif	% licant veget	11	l, seeded field.	
		SO	ILS		
Map Unit Name: 44A Conser silty clay	<u>r Ioam</u>		Drainage Class: Poorly Drain	led	
On Hydric Soils List? Y 🛛 N 🗋	Has hydric inclusions?	YOND			•
Depth Range Matrix of Horizon Color	Redox Conc * abund./siz	centrations e/contrast/c	Redox Depletion color/location (matrix or pores/peds)	ns	Texture
0 - 12" 10yr 4/3	None				
refusal due to			**************************************		
	****				·····
Hydric Soil Indicators: Histosol Sulfidic Odor Reducing Conditions (lests posit Gleyed or low chroma colors Redox features within 10" (e.g.,	ive) concentrations)	Concreti High org Organic Organic I Crganic I Listed of Meels h Supplen	ions/Nodules (w/in 3"; > 2mm) ganic content in surface (in Sandy Soils) streaking (in Sandy Soils) pan (in Sandy Soils) n Hydric Soils List (and soil profile matche ydric soil criteria 3 or 4 (ponded or floode nental indicator (e.g., NRCS field indicato	es) ed for long durati r):	on)
Criteria Met? YES 🗌 NO	Comments: Fill needs to be	e penetrater	to reach native profile.		
wenterenterenterenteren an de se	***************************************	HYDR	DLOGY	***********	
Recorded Data	Aerial Photos 🛛 🗍 Stream ga	luge	Other No Recorded Data A	vailable	
<u>Field Data</u> Depth of inundation: <u>None</u>	Depth to Saturation: None	Depth	n to free water: <u>None</u>	·	
Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Drianage Patterns	Secondary	Hydrology Oxidized Water-si Local Sc FAC-Ne Other:	Indicators (2 or more required): d Root Channels (upper 12") tained Leaves oil Survey Data utral Test		
Criteria Met? YES 🗌 NO	Comments:				
		DETERM	IINATION	52X272X2X2X	
WETLAND? YES NO Stable. Need to monitor hydrol	Comments: <u>Fill either</u>	originall an be es	y deeper or has settled less tha stablished earlier than CWA.	n SP7 due to	o differentiated water

County: <u>Douglas</u> City: <u>Sutherlin</u> Date: <u>02/May/2007</u> File # <u>0349</u> Project/Contact: <u>Sutherlin Parks/ Satre Associates, P.C.</u> Plant Community: <u>Grassy Lawn/ Meadow</u> Plot location: <u>Western end of soccer field just northwest of goal posts</u> Plot Dication: <u>Western end of soccer field just northwest of goal posts</u> Plot Dication: <u>Western end of soccer field just northwest of goal posts</u>								
Do normal environ. co Has Vegetation S Sc Explain: S	onditions exist? Y onditions exist? Y oil	 barny cloudy, 0, 14 percip N I If No, explain: been significantly disturbed wed (typical of managemen 	7 1), although r	plants are still re	cognizable regardless (of recent mowing.	Soil profile seems	intact below fill
	re Comencaeriean A		VEGE	TATION		634#2506232 23:		
Tree Stratum		Status/ Raw % Cover/ Rel 9	6 Cover	Herb Stratum		Status/ Re	aw % Cover/ Rel	% Cover
1				1. Festuca aru 2. Mentha pule	ndinacea *	FAC	<u>70 56</u> 30 24	<u>5</u> 1
3.				3. Hordeum jul	patum *	FAC	20 10	5
Sapling/Shrub Stratur	<u>n</u>	Status/ Raw % Cover/ Rel %	6 Cover	4. <u>Poa annua *</u> 5. <u>Rumex crisr</u> 6.	ous *	FAC FAC+	5 4 t i	
1				7 8.				
3.				9				
4 5	······			10 11	1			
Percent of Dominant Other Hydrophytic Ve Criteria Met?	Species that are OE getation Indicators: YES X NO	BL, FACW, FAC (not FAC-): Comments: <u>Used all vec</u>	80% elation due	to lack of tree +	shrub layers		1700000000000	
Map Unit Name: <u>44A</u>	Conser silly clay los	am	SC	DILS Dra	ainage Class: <u>Poorly dr</u>	ained		
On Hydric Soils List?	YMND	Has hydric inclusions'	YLINL] 			*****	
Depth Range of Horizon	Matrix Color	Redox Co * abund./s	ncentrations ize/contrast/	color/location (n	Redox Deple natrix or pores/peds)	tions	Texture	
0-1"	7.5yr 3/3							
2-4"	10yr 5/3	5yr 6/8 C/	M/D/matrix/p	ds			B/G	
4 - 8"	10yr 3/3	5yr 5/8 C/	M/D				B/G	
8 - 17"	7.5yr 5/8 C/F/D			•	the and an interpretation and a second the second the second the second the part of the second the part of the		SCL	
Hydric Soil Indicato Histosol Histic Epipedon Sulfidic Odor Reducing Condi Gleyed or low ct Redox features	rs: ilons (lests positive) rroma colors within 10" (e.g., cor) ncentrations)	Concre High or Organic Organic Listed o Meets h Suppler	tions/Nodules (v ganic content in s streaking (in S s pan (in Sandy on Hydric Soils L nydric soil criteri mental indicator	v/in 3"; > 2mm) surface (in Sandy Soils andy Soils) Soils) ist (and soil profile mat a 3 or 4 (ponded or floo (e.g., NRCS field indica	s) ches) oded for long durati ator):	on)	
Criteria Met? Y	es 🛛 No 🗌	Comments: Plot is slight	y less distrut	ed portion of fie	ld near fenceline. Due l	lo non-native soll pr	ofile this was cor	isidered hydric.
			HYDR	OLOGY				
Recorded Data	vallable 🛛 🛛 Aer	ial Photos 🔲 Stream	gauge	C Other	No Recorded Data	Available		
Field Data Depth of inundation	n: <u>None</u> De	pth to Saturation: None	Dept	h to free water:	None			
Primary Hydrology Dinundated Saturated in uppe Water Marks Drift Lines Sediment Deposit Drainage Pattems	Indicators: r 12 inches s	Secondar	y Hydrology S Oxidize U Waler-s Local S FAC-Na Other:	y Indicators (2 d d Root Channel stained Leaves oil Survey Data eutral Test	or more required): s (upper 12")			
Criteria Met? Y	es 🛛 no 🗌	Comments:					* 14° pro 140 au 100 100 au 100 au 100 au 100 au	an waa hadi ama siya gaa
			DETERN	JINATION	~~~===================================			
				-				1

WETLAND? YES NO Comments: This is an insignificant area and is negligible unless considered contiguous beneath fill across entire soccer field. Vegetation and hydrology strong within atypical plot. See sp 7 notes on fill date.

County: <u>Douglas</u> Project/Contact: <u>Suther</u> Plant Community: <u>Gra</u> Plot location: <u>Northwer</u> Recent Weather: <u>Mea</u> Do normal environ. co Has Vegetation ⊠ So Explain: Si	City: Sutherlin Date: 02/May/2007 File # 0349 Project/Contact: Sutherlin Parks/ Satre Associates. P.C. Det. by: Brian Mejering/ Susie Holmes Plant Community: Grassy Lawn/ Meadow Plot # SP11 Plot location: Northwest corner of soccer field within a slight topographic depression Plot # SP11 Plot location: Northwest corner of soccer field within a slight topographic depression Plot # SP11 Plot on ormal environ. conditions exist? Y S N I If No, explain: If No, explain: Las Vegetation Stewast recently mowed (typical of management), although plants are still recognizable regardless of recent mowing File # 0349									
		VEGET	ATION							
Tree Stratum			Herb Stratum	,						
1	Status/ Raw %	6 Cover/ Rei % Cover	1 Hordeum jubatum *	Status/ Raw % Cover/ Rel % Cover						
2			2. Mentha pulegium *	OBL 22 29						
3			3. Plagiobothrvs cf. figuratis *	FACW 18 24						
Sapling/Shrub Stratum	ı		5. Festuca arundinacea	FAC- 3 4						
September Children	Status/ Raw %	6 Cover/ Rel % Cover	6. Agrostis cf. tenuis	FAC 3 4						
1			7. Medicado polymorpha	NOL t t						
2			8. <u>Taraxicum officianale</u>	FACU t t						
3			10. Ludwinia nalustris							
5.			11.							
Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 100% Other Hydrophytic Vegetation Indicators: Criteria Met? YES NO Comments: Used top 3 species due to likelihood of any difference btw figuratus and pulegium % cover. SOILS Map Unit Name: 44A Conser silly clay loam Drainage Class: poorly drained On Hydric Soils List2 Y X N D Has bydric inclusions? Y D										
On Hydric Soils List?	Y KIN LI Has hyd	ric inclusions? Y LI N LI								
Depth Range of Horizon	Matrix Color	Redox Concentrations * abund./size/contrast/c	Redox Depletions color/location (matrix or pores/peds)	Texture						
0 - 6"	10yr 3/3	5yr 6/8 soft masses	C/D/M=1%	SCL+fill						
6 - 16"	2.5yr 3/2	5yr 6/8 soft masses	C/D/M=5%	SCL+fill						
Hydric Soil Indicator Histosol Histosol Sulfidic Odor Reducing Condit Gleyed or low ch Redox features v Criteria Met? YI Recorded Data Recorded Data Depth of inundation Primary Hydrology In Inundated Saturated in upper Water Marks Drift Lines Schment Deposits Drainage Pattems Criteria Met? XI	s: ions (tests positive) roma colors within 10° (e.g., concentrations) ES X NO Comments: ailable Aerial Photos : <u>None</u> Depth to Saturatin indicators: 12 inches	Concreti High org Organic Organic Usted on Supplerr Profile is fill to 6" - old hori HYDRC Stream gauge on: None Depth Secondary Hydrology Oxidized Vater-st Local SC X FAC-Net Other: _	ions/Nodules (w/in 3"; > 2mm) anic content in surface (in Sandy Soils) streaking (in Sandy Soils) pan (in Sandy Soils) n Hydric Soils List (and soil profile matches) ydric soil criteria 3 or 4 (ponded or flooded for nental indicator (e.g., NRCS field indicator):	r long duration)						
Criteria Met? Y	ES X NO Comments:	میں است. است کا ایک بند کا بار کا ایک ایک کا ایک ک								
	,	DETERM	INATION							

WETLAND? YES NO Comments: This area is insignificant and negligible unless considered contiguous beneath fill across entire soccer field. See sp7 notes on fill.

County: <u>Doublas</u> Project/Contact: <u>Suther</u> Plant Community: <u>Gras</u> Plot location: <u>Just upla</u> Recent Weather: <u>Mear</u> Do normal environ. con Has Vegetation 🖾 Sol Explain: <u>Si</u>	CI clin Parks/ Satre Associate ssy Lawn/ Meadow nd and northeast of SP11 i 1 emp 50-decrees, partly nditions exist? Y ⊠ N I ☐ Hydrology ☐ been sig te was recently mowed (the been signed as the second se	ty: <u>Sutherlin</u> <u>n northwest corner of</u> <u>cloudy, 0.14" percipita</u> If No, explain: nilicantly disturbed? <u>bical of management</u>),	soccer fiel tion, 0,34" although p	d month to date provident to d	Date: <u>02/May/200</u> ercipitation cognizable regardles	7 File # Det. Plot #	# <u>0349</u> by: <u>Brian Meierin</u> # <u>SP12</u> ing	ig/ Susie Holmes
			VEGE	TATION				
<u>Tree Stratum</u> 1	Status/	Raw % Cover/ Rel % (Cover	Herb Stratum 1. Stellaria med 2. Festuca arun	lia *	Statu FACI	us/ Raw % Cover U 25 - 20	7 Rel % Cover
2	Status/	Raw % Cover/ Rel % (- Cover - -	2. <u>residua atum</u> 3. <u>Poa annua*</u> 4. <u>Taraxicum of</u> 5. <u>Hordeum jub</u> 6. <u>Plantaco lan</u> 7. <u>Trifolium sub</u> 8. <u>Bellis perenn</u> 9	fficianale patum ceolata lerraneum lis	FAC FAC FAC FAC FAC FAC	20 20 U 10 10 U+ 5 U+ t t	20 10 10 5 t t
5. Percent of Dominant <u>S</u> Other Hydrophytic Veg Criteria Met?	pecies that are OBL, FAC etation Indicators: 'ES NO X Com	N, FAC (not FAC-): 33	<u>-</u> <u>3</u> %	11				
Map Unit Name: <u>44A C</u> On Hydric Solls List?	Conser silty clay loam	as hydric inclusions?	SC Y LT N LT	Dra Dra	inage Class: <u>Poolry</u>	drained		
Depth Range of Horizon	Matrix Color	Redox Conc * abund./size	centrations	color/location (m	Redox Dep atrix or pores/peds)	oletions	Texture	
0-6	10yr 3/3			·	••••••••••••••••••••••••		Fill	;
6 - 16	2.5yr 3/2				<u></u>		SCL	
******			*****					
Hydric Soil Indicators Histosol Histic Epipedon Sulfidic Odor Reducing Conditi Gleyed or low chu	s: ons (tests positive) oma colors ithin 10" (e.g., concentrati	ons)	Concrel High org Organic Organic Listed o Meets h Suppler	tions/Nodules (w ganic content in streaking (in Sa pan (in Sandy § n Hydric Soils Li nydric soil criteria nental indicator	r/in 3"; > 2mm) surface (in Sandy So andy Soils) Soils) ist (and soil profile m a 3 or 4 (ponded or f (e.g., NRCS field ind	bils) Natches) Nooded for long c Nicator):	luration)	
Criteria Met? YI	ES 🗌 NO 🖾 Comr	nents:	23238082					
Recorded Data	nilable 🛛 Aerial Photo	is 🔲 Stream ga	HYDR	OLOGY	No Recorded Da	ata Available		
Field Data Depth of inundation	0 Depth to S	aturation: <u>None</u>	Dept	h to free water: <u>h</u>	lone			
Primary Hydrology Ir Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	ndicators: 12 inches	Secondary 	Hydrology Oxidize Water-s Local S FAC-Ne Other:	v Indicators (2 o d Root Channels stained Leaves oil Survey Data eutral Test	r more required): s (upper 12")			
Criteria Met? YI	ES 🗌 NO 🔀 Comr	nents:					****	
		Ε	DETERN	INATION				

WETLAND? YES NO Comments: <u>Represents deeper fill and lack of hydrology w/in 12"</u>. Fill from road along Sutherlin Creek is from levee, not from field fill. Levee appears to be built from side cast material from Sutherlin Creek. BPJ debates that this plot represents the edge of fill from levee and beginning of fill from the soccer field.

County: <u>Douglas</u> Project/Contact: <u>S</u> Plant Community: Plot location: East	Sutherlin Parks/ Satre Asso : <u>Grassy Lawn/ Meadow</u> 1-southeast of eastern goal	City: <u>Sutherlin</u> <u>ciates, P.C.</u> of soccer field	Date: <u>02/Mav/2007</u> Det. by: <u>Brian Meiering/ Susie Ho</u> Plot # <u>SP13</u>				
Recent Weather: Do normal environ Has Vegetation [Explai	Mean temp 50~degrees, pr n. conditions exist? Y ⊠ N] Soil □ Hydrology □ ber in:	Intly cloudy, 0,14" percipitation, 0.	.34" month to date	<u>percipitation</u>			
		VEC	JETATION			an dari yaran filosofi kara kara da	97 999 999 999 999 999 999 999 999 999
Tree Stratum	Sta	us/ Raw % Cover/ Rel % Cover	Herb Stratum		Status/ R	aw % Cover	/ Rel % Cover
1			1. Festuca an	ndinacea *	FAC-	30	24
3			2. <u>Aarostis ct.</u> 3. Juncus mar	tenuis *	LIPI	15	<u>24</u> 12
v , <u></u>			4. Juncus ens	folius *	FACW	15	12
Sapling/Shrub Str	alum		5. Hordeum ju	balum *	FAC	10	8
	Sta	us/ Raw % Cover/ Rel % Cover	6. <u>Glyceria oc</u>	cidentalis *	OBL	10	8
1			7. Carex dens 8. Vicia sativa	a : var saliva		3	2
3.			9. Trifolium su	blerraneum	FACU+	 t	<u>-</u>
4			10. Rumex cri	SDUS	FAC+	ł	_1
5			11. Ranunculu	s occidentalis	FAC	<u> t </u>	_1
Percent of Domin Other Hydrophytic Criteria Met?	ant <u>Soecies</u> that are OBL, I c Vegetation Indicators: YES X NO	ACW, FAC (not FAC-): <u>71</u> % Comments: <u>Used top 7 dominant</u>	species due to lac	k of other stratum.			
Map Unit Name: 4	44A Conser silty clay loam		SOILS	ainage Class: Poorly drained			
On Hydric Soils L	ist?Y⊠N□	Has hydric inclusions? Y 🗌 N	10				
Depth Range of Horizon	Matrix Color	Redox Concentrali * abund./size/confr	ons' ast/color/location (Redox Depletions natrix or pores/peds)		Texture	
0-9"	10yr 3/2	5yr 5/8 C/M/D				SCL	
10 - 26"	10yr 2.5/1	Too different to dis	t			SC	
Hydric Soil India	ators: don r onditions (tests positive) w chroma colors res within 10° (e.g., concer	□ Con □ Higi □ Org □ Lista Itrations) □ Mee	ncretions/Nodules (h organic content ir anic streaking (in S anic pan (in Sandy ed on Hydric Soils ets hydric soil criter pilemental indicato	w/in 3"; > 2mm) surface (in Sandy Soils) andy Soils) Soils) List (and soil profile matches) a 3 or 4 (ponded or flooded f (e o. NECS field indicator)	for long durati	on)	
Criteria Met?		comments: Probably a more typic	al soil - outside fill	rom soccer field.			
************		HYL	DROLOGY	.==			
Recorded Data	a Available 🛛 🖾 Aerial F	hotos 🔲 Stream gauge	Other	No Recorded Data Avai	lable		
<u>Field Data</u> Depth of inund	ation: <u>None</u> Depth	to Saturation: <u>None</u> D	epth to free water:	None			
Primary Hydrolo Inundated Saturated in u Water Marks Drift Lines Sediment Dep Drainage Patto	ogy Indicators: pper 12 inches posits erns	Secondary Hydrol ☐ Oxic ☐ Wat ☐ Loc: ⊠ FAC ☐ Othe	logy Indicators (2 dized Root Channe ler-stained Leaves al Soil Survey Data C-Neutral Test er:	or more required): is (upper 12")			
Criteria Met?		comments: <u>Hydrology may be cau</u>	used by fill in SP14	now a normal environmental	circumstance		15555556685
		DETE	RMINATION				
WETLAND?	YES 🛛 NO 🗌 C	omments: Seasonal wetla	and constricted	I by historic fill to north	n. This sec	tion of we	tland marked b

distinct fall out of Juncus Spp. in upland and district fill pattern, apparent in photographs as pre-1972...

County: <u>Douglas</u> Project/Contact: <u>Sulhe</u> Plant Community: <u>Ope</u> Plot location: <u>~15 ft no</u> Recent Weather: <u>Mear</u> Do normal environ. con Has Vegetation IS Soi Explain:	City: <u>Sutt</u> rlin Parks/ <u>Satre Associates, P.C.</u> <u>n Meadow</u> <u>th of plot center of SP13</u> <u>1 temp 50-decrees, partly cloudy,</u> nditions exist? Y ⊠ N □ If No, I ⊠ Hydrology ⊠ been significar	<u>02/May/2007</u> 0 <u>n</u>	File # <u>0349</u> Det. by: <u>Brian Meiering</u> Plot # <u>SP14</u>	<u>/ Susie Holmes</u>		
	***************************************	VEGE				
Tree Stratum	. Status/ Raw %	Cover/ Rel % Cover	Herb Stratum	*	Status/ Raw % Cover/	Rel % Cover
2			2. Bromus mollis *		UPL 20	<u>17</u>
Sapling/Shrub Stratum	Status/ Raw %	Cover/ Rel % Cover	 <u>Daucus carota</u> <u>Anthoxanthum odoratu</u> <u>Vicia sativa var. sativa</u> <u>Rumex crispus</u> 	<u>החת</u> ו	FACU 5 NOL 5 FAC+ 3	4
2			8			
3 4 5			5 10 11		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	
9. Percent of Dominant <u>S</u> Other Hydrophytic Veg Criteria Met? Y	pecies that are OBL, FACW, FAC tetation Indicators:	(not FAC-); <u>0</u> %				
Man Dait Name: 446.0	anar allhi alay laam	S	DILS	ar Dondu drafnad		
On Hydric Soils List?			Dialnage Ga	iss. <u>Poony dramed</u>		
Depth Range	Matrix Color	Redox Concentration:	s /color/location (matrix or p	Redox Depletions	Texture	
0 - 10"	10vr 4/3	Scarce, too faint			cobly fill	
10 - 16"	2.5yr 4/3	7.5yr 5/8 F/F/D				
	- 					
Hydric Soil Indicators Histosol Histic Epipedon Sulfidic Odor Reducing Conditi Gleyed or low chr Redox features w	s: ons (lests positive) roma colors ilthin 10" (e.g., concentrations)	Concre High o Organi Corgani Listed Meets Supple	elions/Nodules (w/in 3"; > 2 rganic content in surface (i c streaking (in Sandy Soils c pan (in Sandy Soils) on Hydric Soils List (and so hydric soil criteria 3 or 4 (g emental indicator (e.g., NR)	2mm) in Sandy Soils) s) oil profile matches) ponded or flooded for CS field indicator):	long duration)	
Criteria Met? YE	ES 🗌 NO 🔀 Comments:	2% redox				
		HYDR	ROLOGY			
Recorded Data	ailable 🛛 🛛 Aerial Photos	Stream gauge	Other No R	ecorded Data Availal	ble	
Field Data Depth of inundation:	None Depth to Saturatio	n: <u>None</u> Dep	th to free water: <u>None</u>			
Primary Hydrology Ir Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	ndicators: 12 inches	Secondary Hydrolog Oxidizi Water Local 3 FAC-N Other:	y Indicators (2 or more re ed Root Channels (upper 1 stained Leaves Soil Survey Data eutral Test	:quired): 2")		
Criteria Met? YI	ES 🔲 NO 🔀 Comments:)	-ill may be reason for hy	drology in SP13, but it is n	ow the normal circum	istance.	
x x X Z II Z X Z X Z X Z X Z X Z X X X X X		DETERI	VINATION			

WETLAND? YES NO Comments: Fill is obvious, rectangular and easy to distingush where the wetland boundary conforms to the edges. May be necessary to confirm hydrology + soils in spring. Ultimately, this fill appears in photos to be old with fill between 1950 and 1960. Expanded between 1960 and 1967 form down buildings by 1979.

County: <u>Douglas</u> Project/Contact: <u>Sutt</u> Plant Community: <u>O</u> Plot location: <u>South</u> Recent Weather: <u>Me</u> Do normal environ. c Has Vegetation [] S Explain:	herlin Parks/ S on Meadow of plots SP13 a an temp 66~d conditions exist Soit IX Hydrolo Possibly fill ma	City: <u>Sul</u> atre Associates, P.C and SP14 egrees, <u>sunny, no pe</u> cress, sunny, no pe egress,	<u>herlin</u> <u>-</u> ercipitation, 0.7- , explain: ntly disturbed? <u>I as recent.</u>	<u>4" month to</u>	date percipitat	Date: <u>08/May/2</u>	<u>007</u>	File # <u>034</u> Det. by: <u>B</u> Plot # <u>SP1</u>	<u>9</u> rian Meierind 15	a <u>/ Susie Holmes</u>
	**********	د بر در بر ایر ایر ایر او تا و تا و تا و تا بر ایر ایر ایر ایر ایر ایر ایر ایر ایر ای	****	VEGE	TATION					
Tree Stratum		Status/ Raw %	6 Cover/ Rel %	Cover	Herb Stratum			Status/ Ra	w % Cover/	Rel % Cover
1				-	1. Festuca aru	Indinacea *		FAC-	90	86
2				-	 Adrostis ci. Trifolium su 	ibierraneum*		UPL	5	5
					4. Hypochaeri	s radicala	·····	FACU	<u>t</u>	t
Sapling/Shrub Stratu	IM	Ciphun (Dour 9)	Countinal	Cover	5. Hordeum ju	balum		FAC	1	!
1.		Status/ Raw %	Cover/ Rei %	Cover	7. Centaurea	pus		NOL	<u>t</u>	<u>1</u>
2					8. Bellis perer	inis		NOL	t	
3					9. Geranium d	lissectum		NOL	<u>t</u>	<u>-</u> +
45				-	10. <u>Myosotis c</u>	liscolor		FACW	<u> </u>	1
Percent of Dominant Other Hydrophytic V Criteria Met? determination	t <u>Species</u> that a egetation Indic YES N	are OBL, FACW, FA ators: O X Comments	C (not FAC-): <u>3</u> : <u>Very subjectiv</u>	ve to weedy	veg. data/nee	d soils + hydrology	to qualify.Use	d all relativ	ely abundar	nt species to make
				SC	DILS					
Map Unit Name: 444	A Conser silly c	lay loam			Dr	ainage Class: <u>Poor</u>	rly drained			
On Hydric Soils List?	γ⊠N□	Has hyd	ric inclusions?	Y 🗆 N 🗆	l	· · · · ·				
Depth Range of Horizon	Matrix Color		Redox Con * abund./siz	centrations ce/contrast/	color/location (r	Redox D matrix or pores/ped	Depletions s)		Texture	
0 - 9"	2.5yr 3/3		7.5yr 6/8 F/	F/D	************				SCL	
Refusal@ 9"										*****
Hydric Soil Indicato Histosol Histic Epipedor Sulfidic Odor Reducing Conc Gleyed or low o Redox features	ors: ditions (tests po chroma colors s within 10". (e.	osilive) g., concentrations)		Concrel High org Organic Organic Listed o Meets f Suppler	tions/Nodules (ganic content ir streaking (in S pan (in Sandy on Hydric Soils rydric soil criter mental indicato	w/in 3"; > 2mm) 1 surface (in Sandy Sandy Soils) Soils) List (and soil profile ia 3 or 4 (ponded o r (e.g., NRCS field i	Soils) e matches) or flooded for I indicator):	ong duratio	on)	
Criteria Met?	YES 🛛 NO	Comments:	Refusal due to	gravel and	l rock, soil mixe	d with some cobble	e. Redox sugg	ests soils i	now hydric,	
				HYDR	OLOGY					•
Recorded Data	vailable	Aerial Photos	🗌 Stream ga	auge	C Other	No Recorded	Data Availabl	e		
Field Data Depth of inundation	on: <u>None</u>	Depth to Saturati	on: <u>None</u>	Dept	h to free water:	None				
Primary Hydrology I Inundaled Saturated in uppa Water Marks Drift Lines Sediment Deposi Drainage Pattern	Indicators: er 12 inches its s		Secondary	Hydrology Oxidize Water-s Local S FAC-Ne Other:	y Indicators (2 d Root Channe stained Leaves oil Survey Data eutral Test	or more required): Is (upper 12") I	·			
Criteria Met?	YES 🗍 NO	Comments:	Slight topogram	ohic rise fro	m swale and S	P13. Need more da	ata due to a tvi	cal soils/h	vdro.	
، والم المانية عن الله عن الله الله عن الله الله عن الله إليه الله الله عن الله الله الله الله الله الله الله ا الله الله	nice san cons		:==========	DETERN	INATION				nii an a an	**********

WETLAND? YES NO Comments: Point taken to describe a slightly higher bench that runs east-west along the southern side of the swale described by SP13. Needto monitor hydrology + do further soil sampling in the spring if mandated to confirm a lack of hydrology.

County: <u>Douglas</u> Project/Contact: <u>Sutherlin Parks/ Satre</u> Plant Community: <u>Open Meadow</u> Plot location: <u>Plot is located ust south</u> Recent Weather: <u>Mean temp 66-deors</u> Do normal environ, conditions exist? <u>Y</u>	City: <u>Sutherlin</u> <u>Associates. P.C.</u> <u>vest of SP15 within ditch along south edg</u> <u>ses. partly cloudy, no percipitation. 0.74"</u> Shopp nignifecantly disturbed?	ge of field month to date perc	Date: <u>08/Mav/2007</u>	File # <u>0349</u> Det. by: <u>Brian Melering/ Susie Holmes</u> Plot # <u>SP16</u>							
Explain: <u>Atypical ditch som</u>	ewhat void of vegetationplot size too la	arge and extended	well outside of ditch.								
	VEGI	ETATION									
Tree Stratum		Herb Stratum									
1	Status/ Raw % Cover/ Rel % Cover	1. Festuca arun	dinacea *	Status/ Raw % Cover/ Rel % Cover FAC- 80 68							
2		2. Anthoxanthu	n odoratum *	FACU 15 13							
3.		 <u>1 ritolium repe</u> Mentha puleo 	2 <u>ns *</u> iium *	<u>FACU+ 10 8</u> OBL 10 8							
Sapling/Shrub Stratum		5. Bellis perenn	is	FACU 3 3							
1.	Status/ Raw % Cover/ Rei % Cover	 Myosoils disc Poa annua 	olor	FAC t t							
2		8. Dipsacus foll	onum ssp svivestris	NOL I							
4.		9. <u>Daucus carol</u> 10. Linum bienr	a	NOL t t							
5.	······································	11. Galium apar	ine	FACW+ t t							
Percent of Dominant <u>Species</u> that are OBL, FACW, FAC (not FAC-): <u>25%</u> Other Hydrophytic Vegetation Indicators: <u>see list of non-dominant species in herb stratum</u> Criteria Met? YES NO Comments: <u>Veg, a typical + problematic plot extended too far out of bottom of ditch.</u> SOILS											
Map Unit Name: 44A Conser silty clay	loam	Drai	nage Class: Poorly drained								
On Hydric Soils List? Y⊠N□	Has hydric inclusions? Y 🗌 N I										
Depth Range Matrix of Horizon Color	Redox Concentratior * abund./slze/contras	ns st/color/location (m	Redox Depletions atrix or pores/peds)	Texture							
0 - 5" 2.5yr 3/2	10yr 4/6 F/F/D			SCL							
5 - 17" 2.5yr 4/2	10yr 6/8 C/M/D/matri	ix	******	CL							
Hydric Soil Indicators:											
☐ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☐ Reducing Conditions (tests posiliv ☐ Gleyed or low chroma colors ☐ Redox features within 10° (e.g., c	re)	retions/Nodules (w. organic content in s nic streaking (in Sa nic pan (in Sandy S d on Hydric Soils Li s hydric soil criteria lemental indicator (fin 3"; > 2mm) surface (in Sandy Soils) ndy Soils) oils) st (and soil profile matches) 3 or 4 (ponded or flooded for e.g., NRCS field indicator):	long duration)							
Criteria Met? YES 🛛 NO	Comments: Redox significant starting	<u>a at 6"</u>	r frig men men ens ans ans ann airs ann airs ann ann ann ann ann ann ann ann ann an								
	HYDI	ROLOGY									
Recorded Data	erial Photos 🛛 🗍 Stream gauge	C Other	No Recorded Data Availat	ble							
Field Data Depth of inundation: <u>None</u> I	Depth to Saturation: 7" Dep	pth to free water: <u>N</u>	one								
Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Dranare Patterns	Primary Hydrology Indicators: Secondary Hydrology Indicators (2 or more required): Inundated Oxidized Root Channels (upper 12") Saturated in upper 12 inches Water-stained Leaves Water Marks Local Soil Survey Data Drift Lines SFAC-Neutral Test Sediment Deposits Other:										
Criteria Met? YES 🛛 NO	Comments: Saturated w/in top 7" bu	ut dry below. I due t	o heavy clay.]								
	DETER	MINATION	,dwccccaddadna2m2	rrssufficielliggssacterspinco							
WETLAND? YES NO the southern edge of soccer fi wetland vegetation and straig	Comments: <u>Plot taken to cha</u> eld. Veg not strong, but atypica ht forward hydrology.	aracterize a pe al situation lea	erimeter ditch running a des to BPJ that normal	along the North side of houses at circumstances would exhibit more							

.

County: <u>Douglas</u> Project/Contact: <u>Sutherlin Part</u> Plant Community: <u>Disturbed m</u> Plot location: <u>Plot is in a small</u> Recent Weather: <u>Mean temp 6</u> Do normal environ. conditions Has Venetation SI Soli XI but	City: <u>Sutherlin</u> <u>is/ Satre Associates, P.C.</u> <u>juddy seasonally emergent lowland</u> <u>lowland area within the middle of a n</u> <u>6-degrees, partly cloudy, no percipit</u> exist? Y 🖾 N 🔄 If No, explain: <u></u>	badbed where vegetation ation, 0.74" month to date	Date: <u>08/May/2007</u> has persisted a percipitation	File # <u>0349</u> Det. by: <u>Brian Melerino/ Su</u> Plot # <u>SP17</u>	File # <u>0349</u> Det. by: <u>Brian Meierino/ Susie Holmes</u> Plot # <u>SP17</u>		
Explain: <u>Muddy rut</u>	s indicate recent traffic leading to cor	npacted soils and disturb	ed ground		uyug SéSeén		
		VEGETATION					
Tree Stratum 1. 2. 3.	Status/ Raw % Cover/ Re	Herb Strat % Cover 1. Glyceria 2. Lemna 3. Ludwich	um a occidentalis * minor * a paluetia *	Status/ Raw % Cover/ Rel OBL 50 6i OBL 10 14 OBL 8 11	% Cover <u>3</u> 1		
Sapling/Shrub Stratum	Status/ Raw % Cover/ Re	4. Hordeu 5. Festuca % Cover 6. Veronic 7. Plagiob 8. Mentha 9. Matricar 10 11.	n iubatum * I arundinacea * a cf. pereurina olhrys cf. figuratus pulegium ria discoidea	FAC 3 4 FAC- 3 4 OBL t t FACW t t OBL t t NOL t t			
Percent of Dominant Species to Other Hydrophylic Vegetation Criteria Met? YES	hat are OBL, FACW, FAC (not FAC- Indicators:): <u>80%</u> bid of vegetation, standing	1 waler 2-3".				
Map Unit Name: <u>44A Conser</u>	silly clay loam	SOILS	Drainage Class: poorly drained				
On Hydric Soils List? Y 🖾 N	Has hydric inclusion	s? Y 🗌 N 🗍	****				
Depth Range Matrix of Horizon Color	Redox C * abund.	oncentrations /size/contrast/color/locatio	Redox Depletions on (matrix or pores/peds)	Texture			
0-12" 2.5y 3/	2 7.5yr 5/8	C/M/D		SCL			
	•						
Hydric Soil Indicators: Histosol Sulfidic Odor Reducing Conditions (les Gleyed or low chroma col Redox features within 10'	ls positive) ors ′ (e.g., concentrations)	Concretions/Nodul High organic conte Organic streaking (Organic pan (in Sa Listed on Hydric So Meets hydric soil c Supplemental indic	es (w/in 3"; > 2mm) nt in surface (in Sandy Soils) (in Sandy Soils) ndy Soils) Dils List (and soil profile matches) riteria 3 or 4 (ponded or flooded f rator (e.g., NRCS field indicator):	for long duration)			
Criteria Met? YES 🛛	NO Comments: cracked sol	surface along dried out r	nargins. Atypical soils and hydrol	ooy due to compaction, used S	P13 for reference		
Description of the later	و این می این پیل اس بین میں بین پیل میں این	HYDROLOGY					
Recorded Data	🛛 Aerial Photos 🛛 🗌 Stream	i gauge 🗌 Other	No Recorded Data Avail	lable			
Field Data Depth of inundation: 3	Depth to Saturation: <u>-</u>	Depth to free wa	ter: <u>-</u>				
Primary Hydrology Indicator Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Drainage Patterns	s: Second: Is	ary Hydrology Indicators Oxidized Root Cha Water-stained Leas Local Soil Survey D FAC-Neutral Test Other:	s (2 or more required): nnels (upper 12'') <i>v</i> es Data				
Criteria Met? YES 🛛	NO Comments: 2-3" standir	o water in lowest area. Al	vpical hydrology referenced to SF	213.			
	au	DETERMINATIO	N .				

WETLAND? YES X NO Comments: Disturbed road bed (2 track). North of this plot was filled before 70's w/ 1-3 feet which tapers into edge of this wetland.

County: <u>Douglas</u> Project/Contact: <u>Sulherlin Parks/ Satre Associa</u> Plant Community: <u>Ash Woodland becomming Q</u> Plot location: <u>Plot is just east-southeast of SP1</u> Recent Weather: <u>Mean temp 66-deorees</u> , part Do normal environ. conditions exist? Y ⊠ N [Has Vegetation] Soil] Hydrology] been Explain:	City: <u>Sutherlin</u> ates, P.C. <u>Deen Meadow</u> 7, and west of the western edge of ly cloudy, no percipitation, 0.74" mc ly cloudy, no percipitation, 0.74" mc li fi No, explain: significantly disturbed?	Date: <u>08/May/2007</u> westemmost fenced-off popcorn flower po onth to date percipitation	File # <u>0349</u> Det. by: <u>Brian Meiering/ Susie Holmes</u> Plot # <u>SP18</u> p <u>pulation</u>						
**************************************	VEGE	TATION	kapac 2'aacata kabatatata jens pach						
<u>Tree Stratum</u> Status 1. <u>Fraxinus latifolia*</u> FACV	s/ Raw % Cover/ Rel % Cover V70100	Herb Stratum 1. Bromus of. mollis *	Status/ Raw % Cover/ Rel % Cover UPL 35 38 FACW 25 27						
2. 2. Alobecurus oratensis* FACW 25 27 3. 3. 3. 5 Status/ Raw % Cover/ Rel % Cover 6. Galium aparine FACU+ 3 3 1. Fraxinus latifolia* FACW 20 100 7. Trifolium repens FACU+ 3 3 2. Rubus armeniacus FACU- t 8. Carex densa OBL t t 3. 9. Carmassia ouamash FACW t t 10. Rumex crispus FACV t t 5. 10. Rumex crispus FACV t t t t 7. Trifolium repens FACU+ 3 3 3 3 3 4. 10. Rumex crispus FACV+ t t 10 Rumex crispus FAC+ t t 5. 10. Rumex crispus FAC+ t t 11. Juncus marqinatus UPL t t 11. UPL t t 11. UPL t t 11.									
SOILS Map Unit Name: 44A Conser silty clay loam On Hydric Soils List? Y X N I									
Depth Range Matrix of Horizon Color	Redox Concentrations	Redox Depletion	s' Texture						
0 - 5" 2.5yr 3/2	7.5yr 6/8 C/M/D/Matrix		SCL						
5 - 19" 2.5yr 3/2	10yr 5/6 C/M/D/Redox	channels 10G 5/1 10%	SC						
5-19" 2.5yr 3/2	10yr 5/6 C/M/D/Redox	channels 10yr 2.5/1 30%	SC						
Hydric Soil Indicators: Histosol Histic Epipedon Sufficic Odor Reducing Conditions (tests positive) Gleyed or low chroma colors Redox features within 10" (e.g., concentra	Listed o ations)	ions/Nodules (w/in 3"; > 2mm) janic content in surface (in Sandy Soils) streaking (in Sandy Soils) pan (in Sandy Soils) n Hydric Soils List (and soil profile matche ydric soil criteria 3 or 4 (ponded or floode nental indicator (e.g., NRCS field indicator	s) j for long duration) ;						
Criteria Met? YES X NO Cor	mments: This is probably a typical p	orofile pre - 1930's. 	#85225555555555555555555555555555555555						
Recorded Data	otos 🗍 Stream gauge	Other No Recorded Data Av	ailable						
Field Data Depth of inundation: 0 Depth to	Saturation: <u>17"</u> Depth	to free water: <u>19"</u>							
Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Drianage Patterns	Secondary Hydrology Oxidized Water-s Local So FAC-Ne Other: _	Indicators (2 or more required): I Root Channels (upper 12") tained Leaves oil Survey Data utral Test							
Criteria Met? YES 🛛 NO 🗌 Cor	nmenls:								
	DETERM	INATION							

WETLAND? YES NO Comments: Plot taken within isolate ash stand within the north/central portion of the site. Used in conjunction with SP19 to define WL boundary defined by levee fill slope.

County: <u>Douglas</u> Project/Contact: <u>Sutherlin Parks/</u> Plant Community: <u>Open Meadow</u> Plot location: <u>Plot is just northeas</u> Recent Weather: <u>Mean temp 66-</u> Do normal environ, conditions ex Has Vegetation I Soil I Hydro Explain: <u>Levee fill sto</u>	City: <u>Sutherlin</u> <u>Satre Associates, P.C.</u> <u>it and upland of SP18</u> <u>deorees, partly cloudy, no percipitation</u> ist? Y 🛛 N 🗍 If No, explain: logy 🖾 been significantly disturbed? <u>pe/basically non-soil</u>	<u>Mav/2007</u>	File # <u>0349</u> Det. by: <u>Brian Meiering/ Susie Holmes</u> Plot # <u>SP19</u>		
	***************************************	VEGET	ATION		
<u>Tree Stratum</u>	Status/ Raw % Cover/ Rel % (Cover	Herb Stratum 1. <u>Festuca arundinacea *</u>		Status/ Raw % Cover/ Rel % Cover FAC- 70 46
2	Status/ Raw % Cover/ Rel % (Cover	2. Bromus cf. mollis * 3. Agrostis tenuis * 4. Lolium perenne 5. Alopecurus pratensis 6. Dactylis glomerata 7. Geranium dissectum 8. Vicia sativa var sativa 9. Rumex crispus 10.		UPL 40 26 FAC 20 13 FACU 10 7 FACU 5 3 FACU 5 3 NOL 3 2 NOL t t
Criteria Met? YES	NO X Comments: FAC neutral te	st also con	irms no dominant hydroph	vtic veg (33%). We	edy community typical of fill slope.
Map Unit Name: <u>44A Conser sillt</u> On Hydric Solls List? Y ⊠ N □	<u>v clay loam</u> Has hydric inclusions? \	SO	LS Drainage Class	: poorly drained	
Depth Range Matrix of Horizon Color	Redox Conce * abund./size	entrations /contrast/c	Recolor/location (matrix or pore	edox Depletions es/peds)	Texture .
	· · · · · · · · · · · · · · · · · · ·				·
Hydric Soil Indicators: Histosol Sulfidic Odor Reducing Conditions (tests Gleyed or low chroma color Redox features within 10" (positive) [s	Concreti High org Organic Organic Listed or Meets hy Supplem	ons/Nodules (w/in 3"; > 2m anic content in surface (in 4 streaking (in Sandy Soils) pan (in Sandy Soils) Hydric Soils List (and soil idric soil criteria 3 or 4 (po ental indicator (e.g., NRCS	im) Sandy Soils) profile matches) nded or Rooded for 5 field indicator):	long duralion)
Criteria Met? YES N	O Comments: Atypical fill at 3	(approach	of slopefill for levee), refus	al due to slope/fill	1252200002222222000000525252555
Recorded Data	🛛 Aerial Photos 🛛 Stream gau	HYDRC	DLOGY	orded Data Availab	le
<u>Field Data</u> Depth of inundation: <u>None</u>	Depth to Saturation: unknown	Depth	to free water: <u>unknown</u>		
Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Drainage Patterns	Secondary F [[[[[[[[[[lydrology Oxidized Water-st Local So FAC-Net Other:	Indicators (2 of more requ Rool Channels (upper 12" ained Leaves il Survey Data ttral Test	iired):)	
Criteria Met? YES	IO 🛛 Comments:				
	D	ETERM	INATION		
WETLAND? YES IN	0 🕅 Comments: Plot taken	to char	acterize levee slope.		

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County: Douglas City: Sutherlin Date: 08/May/2007 Project/Contact: Sutherlin Parks/ Satre Associates, P.C. Plant Community: Dpen Meadow Plot location: Plot is just northwest of northwest corner of rodeo and just south/upland of road across from wooded area o Recent Weather: Mean 66-degrees, partly cloudy, no percipitation, 0.74" month to date percipitation Do normal environ. conditions exist? Y ⊠ N □ If No, explain: Has Vegetation ⊠ Soit □ Hydrology □ been significantly disturbed? Explain: Yeagetation moderately unflunced by recreational use of area as a rodeo area viewing fenceline,								le # <u>0349</u> et. by: <u>Bri</u> ot # <u>SP20</u> }	an Melerini 2	<u>a/ Susie Holr</u>	<u>nes</u> ·
				VEGET	ATION			i de set en se se		********	===c
<u>Tree Stratum</u> 1 2		Status/ Raw %	% Cover/ Rel % C	Cover	<u>Herb Stratum</u> 1. <u>Festuca arı</u> 2. <u>Trifolium re</u>	indinacea*	St F/ F/	atus/ Rav \C- \CU+	v % Cover/ 90 18	Rel % Cove 63 13	r
3 Sapling/Shrub Sira 1 2 3 4 5	<u>tum</u>	Status/ Raw %	6 Cover/ Rel % C	Cover	3. <u>Alopecurus</u> 4. <u>Agrostis ter</u> 5. <u>Bellis perer</u> 6. <u>Lolium pere</u> 7. <u>Medicado p</u> 8. 9. 9. 10. 11.	pratensis* nuis* nis nine olymorpha	F/ F/ UI F/ UI	ACW AC PL AC PL	15 10 3 3 3 3	11 7 2 2 2 2 	
Percent of Dominant <u>Species</u> that are OBL, FACW, FAC (not FAC-): <u>50</u> % Other Hydrophytic Vegetation Indicators: Criteria Met? YES NO X Comments: <u>Vegetation problematic. Top 4 species used due to problematic weedy plot.</u>											
Map Unit Name: 44 On Hydric Soils Lis	A Conser silty (<u>clay loam</u> Has hyd	ric inclusions?	so	ILS Dr	ainage Class: <u>Poorly</u>	<u>drained</u>				32 '
Depth Range of Horizon	Matrix Color		Redox Conce * abund./size	entrations /contrast/c	olor/location (r	Redox Dep natrix or pores/peds)	letions		Texture		-
0 - 8"	2.5yr 3/2								SCL	******	-
8 - 16"	2.5yr 3/1		10yr 7/8 C/F/	Matrix					SCL		r.
Hydric Soll Indica Histosol Histic Epipedo Sulfidic Odor Reducing Cor Gleyed or Iow Redox feature	tors: on dilions (tests p chroma colors is within 10" (e.	ositive) g., concentrations)		Concreti High org Organic Organic Listed or Meets hy Supplem	ons/Nodules (anic content ir streaking (in S pan (in Sandy n Hydric Solls ydric soil criter tental indicator	w/in 3"; > 2mm) n surface (in Sandy So sandy Soils) Soils) List (and soil profile m ia 3 or 4 (ponded or f r (e.g., NRCS field ind	bils) alches) looded for lon icator):	g duration	1)		
Criteria Met?	YES 🛛 NO	Comments:	Soils very strong	gly charact	eristic of wetle	ands in this area,					
Depended Data				HYDRO	DLOGY						
Recorded Data	Available	Aerial Photos	🗌 Stream gau	ıge	C Other	No Recorded Da	ata Avallable				
Field Data Depth of inundat	ion: <u>None</u>	Depth to Saturati	on: <u>None</u>	Depth	to free water:	None					
Primary Hydrolog Inundated Saturated in upp Water Marks Drit Lines Sediment Depo: Drainage Patter	y Indicators; per 12 inches sits ns		Secondary H C C C C C C C	Hydrology Oxidized Water-st Local Sc FAC-Nei Other:	Indicators (2 I Root Channe Iained Leaves iil Survey Data utral Test	or more required): Is (upper 12")					
Criteria Met? area is inundated re		D 🔀 Comments:	Slight lopograpi	c rise force	s standing wa	ter away from rodeo b	oundary, but :	soils data	very stron	aly suggests	that this
			D	ETERM	INATION						
				anianal	luideominat	head on dails a	مارد أايطحم		ontinnal		مطلمان

WETLAND? YES NO Comments: Best professional judgement based on soils only. Hydrology questionable and could be monitored in spring to confirm determination.

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County: <u>Douglas</u> Project/Contact: <u>Suther</u> Plant Community: <u>Ope</u> Plot location: <u>Plot is es</u> Recent Weather: <u>Meat</u> Do normal environ. con Has Vegetation Soi Explain: <u>An</u>	File # <u>0349</u> Det. by: <u>Brian Melerinc</u> Plot # <u>SP21</u>	<u>a/ Susie Holmes</u>			
		VEGE	ETATION		
Tree Stratum	Status/ Raw S	% Cover/ Rel % Cover	Herb Stratum	Status/ Raw % Cover/	Rel % Cover
1			1. Festuca arundinacea	FAC- 70	56
2			2. Alopecurus pratensis	FACW 20	<u>16</u>
ð			4. Medicano polymorpha	NOL 7	<u>0</u> 6
Sapling/Shrub Stratum	1		5. Agrostis tenuis	FAC 5	4
	Status/ Raw 9	% Cover/ Rel % Cover	6. Bromus cf. mollis	UPL 5	4
1			7. Hordeum jubatum	FAC 5	4
2		·	8. Lolium perenne	FAC 5	_4
4.		······································	10		
5.			11		
Percent of Dominant S Other Hydrophytic Veg Criteria Met?	ipecies that are OBL, FACW, FA letation Indicators: /ES NO 🔀 Comment	C (not FAC-): <u>25</u> % s: <u>Falls FAC-Neutral, but :</u>	<u>vegetation oroblematic due lo recreational use.</u>		
Man Unit Name: 44A (Conser silly clay loam	S	OILS		
On Hydric Soils List?		tric inclusions? V 🗂 M [
Danih Rongo			-J Boday Doplaiona'	Town	
of Horizon	Color	* abund./size/contras	t/color/location (matrix or pores/peds)	lexiure	
0 - 8	2.5yr 3/2			SCL	
8 - 16	2.5 yr 3/1	10yr 7/8 C/M/D/matrix	x	SCL	
**************************************	مریک میں بر اور میں کر میں میں اور میں کر اور میں کر اور میں کر اور میں کر میں میں کر میں کر میں کر میں کر میں مریک میں میں اور میں کر میں کر میں کر میں کر اور میں کر اور میں کر اور میں کر میں کر میں کر میں کر میں کر میں کر				
Hydric Soil Indicators Histosol Histic Epipedon Sulfidic Odor Reducing Conditi Gleyed or low chu Redox features v.	s: ons (lests positive) roma colors rithin 10" (e.g., concentrations)	Concr High c Organ Listed Meets Supple	retions/Nodules (w/in 3"; > 2mm) organic content in surface (in Sandy Soils) iic streaking (in Sandy Soils) iic pan (in Sandy Soils) ion Hydric Soils List (and soil profile matches) i hydric soil criteria 3 or 4 (ponded or flooded for emental indicator (e.g., NRCS field indicator): _	long duration)	
Criteria Met? YI	ES 🔀 NO 🗌 Comments				
		HYDF	ROLOGY		
Recorded Data	ailable 🛛 Aerial Photos	Stream gauge	Other No Recorded Data Availat	ble	
Field Data Depth of inundation	None Depth to Saturat	ion: <u>None</u> Dep	oth to free water: <u>None</u>		
Primary Hydrology Ir Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	udicators: 12 inches	Secondary Hydrolog Oxidiz Water Local FAC-N Other	gy Indicators (2 or more required): ted Root Channels (upper 12") -slained Leaves Soil Survey Data Neutral Test 		
Criteria Met? YI	ES 🗍 NO 🔀 Comments	Hydrology not detectable	e due to slight topographic rise as in sp20.		
		DETER	MINATION		

WETLAND? YES X NO Comments: Plot taken to judge slight topographic rise adjancent rodeo grounds. BPJ based determination on soils, as veg. + hydrology were problematic. Soils data strongly suggests that wetlands are present within the plot.

County: <u>Douglas</u> Project/Contact: <u>Suthe</u> Plant Community: <u>Ope</u> Plot location: <u>Plot is jus</u> Recent Weather: <u>Mear</u> Do normal environ. cor Has Vegetation S Soi Explain: <u>Ve</u>	City: <u>Strin Parks/ Satre Associates, P.(n Meadow</u> st NE of SP21 within mud pit are 1 temp 66-degrees, partly cloud ndifions exist? Y ⊠ N ☐ If N i ☐ Hydrology ☐ been signific agetation problematic due to adji	<u>Mav/2007</u>	File # <u>0349</u> Det. by: <u>Brian Melering/ Susie Holmes</u> Plot # <u>SP22</u>						
	0============================	VEGE	TATION	ر های ادهای کاری می او می <u>او</u> می این	x=`xx=================================				
Tree Stratum	Status/ Raw	% Cover/ Rel % Cover	Herb Stratum		Status/ Raw % Cover/ Rel % Cover FAC- 40 42				
2 3.			2. <u>Festuca myuros*</u> 3. Juncus tenuis*		FACU 10 11 FACW 10 11				
Sapling/Shrub Stratum	l Status/ Raw	% Cover/ Rel % Cover	4. <u>Medicado polymorpha*</u> 5. <u>Hordeum jubatum</u> 6. <u>Trifoljum repens</u> 7. <u>Bellis perennis</u> 8. <u>Givceria occidentalis</u>		UPL 15 16 FAC 5 5 FACU+ 5 5 UPL t 1				
3.			9. Ranunculus occidentalis	3	FAC 1 1				
4, 5			10 11						
Percent of Dominant <u>Species</u> that are OBL, FACW, FAC (not FAC-): <u>25</u> % Other Hydrophytic Vegetation Indicators: Criteria Met? YES NO Comments: <u>Vegetation problematic due to unseasonbly low precp. and disturbed land use history.</u> SOILS Map Unit Name: <u>44A Conser silty clay loam</u> Drainage Class: <u>poorly drained</u> On Hydric Soils List? Y N N Has hydric inclusions? Y N N									
Depth Range	Matrix	Redox Concentration	- s' R	edox Depletions	Texture				
of Horizon	Color	* abund./size/contras	/color/location (matrix or por	es/peds)	TEXIDIE				
0 - 8	2.5yr 3/2		, , , , , , , , , , , , , , , , , , ,	**************************************	SCL				
8 - 16	2.5 yr 3/1	10yr 7/8 C/M/D/matrix			SCL.				
Hydric Soil Indicators Histosol Histic Epipedon Sulfidic Odor Reducing Conditi Gleyed or low chr Redox features w	s; ons (tests positive) roma colors ithin 10" (e.g., concentrations)	☐ Concr ☐ High o ☐ Organ ☐ Organ ☐ Listed ☐ Meets ☐ Supple	elions/Nodules (w/in 3"; > 2m rganic content in surface (in ic streaking (in Sandy Soils) ic pan (in Sandy Soils) on Hydric Soils List (and soil hydric soil criteria 3 or 4 (pc emental indicator (e.g., NRC	nm) Sandy Soils) profile matches) inded or flooded for 5 field indicator):	long duration)				
Criteria Met? YE	ES 🛛 NO 🗌 Comments			********	Foundales and the second s				
Recorded Data		HYDF	ROLOGY						
Recorded Data Ava	allable 🛛 Aerial Photos	Stream gauge	Other No Rec	corded Data Availab	le				
Field Data Depth of inundation:	None Depth to Satura	lion: <u>None</u> Dep	th to free water: <u>None</u>						
Primary Hydrology Im Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	Idicators: 12 Inches	Secondary Hydrolog Oxidiz Water Local FAC-N Other:	y Indicators (2 or more request ed Root Channels (upper 12' stained Leaves Soil Survey Data leutral Test	ılred): ')					
Criteria Met? YE	ES 🔀 NO 🗌 Comments	: <u>Obvious deep/ wide soil</u>	cracks						
	a wa alay 1990 ka	DETER	MINATION	, 201 201 201 201 201 201 201 201 201 201					

WETLAND? YES X NO Comments: Determination based on soils and hydrology.

County: <u>Douglas</u> City: <u>Sutherlin</u> Project/Contact: <u>Sutherlin Parks/ Satre Associates</u> , P.C. Plant Community: <u>Open Meadow</u>				Date: <u>08/May/2007</u>	File # <u>0349</u> Det. by: <u>Brian Meiering/ Susie Holmes</u> Plot # <u>SP23</u>	
Recent Weather: <u>M</u> Do normal environ, Has Vegetation X Explain	ean temp 66~degre conditions exist? Y Soil IX Hydrology [2 Area used for rode	es, partly cloudy, no p N If No, explain been significantly di soils compressed b	ercipitation, 0.74" m ain: sturbed? v horses, veg. tram	nonth to date percip pled, creates low po	<u>itation</u> <u>pint within rodeo.</u>	
· WICH IN LOW IN		د بر	VEGE	TATION	و یر ه او هم هر همی بیمه می و بر هم هم می	-6-66-66-66-55-755-65555555555555555555
<u>Tree Stratum</u>		Status/ Raw % Cove	er/ Rei % Cover	<u>Herb Stratum</u>	nacea	Status/ Raw % Cover/ Rel % Cover
2				 <u>Glyceria occide</u> 3. 	entalis	OBL 100 95
Sapling/Shrub Strat	lum	Status/ Raw % Cove	er/ Rel % Cover	4 5 6		
1				7 8		۰
3				9 10		
5			FAO 1: 40001	11		
Other Hydrophytic V Criteria Met?	Vegetation Indicator YES X NO	BL, FACW, FAC (not <u>s:</u> Comments: <u>User</u>	FAC-): <u>100</u> % I only olyceria beca	iuse it was almost a	monoculture	
	-86866828588288		S(OILS	20025325252525252525	usaass <i>seettekskokdikke</i> tnistin
Map Unit Name: 44	A Conser silty clay	oam ,		Draina	age Class: poorly drained	·
On Hydric Soils List		Has hydric inc	lusions? Y 🗌 N 🗌]` 		
Depth Range of Horizon	Mairix Color	Re * a	dox Concentration: bund./size/contrast	s /color/location (mat	Redox Depletions rix or pores/peds)	Texture
0 - 8	2.5yr 3/2				Lay da PA- WAA TANy da da ya tany a da a dawaa	SCL
8 - 16	2.5 yr 3/1	10	yr 7/8		C/M/D/matrix	SC ·
2. 2.		erre de marco et altre genere en al Marten d'Agarer				
Hydric Soil Indicat Histosol Sulidic Epipedo Sulidic Odor Reducing Con Sleyed or low Redox feature	tors: on iditions (tests positiv chroma colors is within 10° (e.g., c	e) oncentrations)	Concre High o Organi Listed Meets Supple	etions/Nodules (w/in rganic content in su ic streaking (in Sanc ic pan (in Sandy So on Hydric Soils List hydric soil criteria 3 mental indicator (e.	1 3"; > 2mm) rface (in Sandy Soils) dy Soils) ils) (and soil profile matches) or 4 (ponded or flooded fi g., NRCS field indicator):	pr long duration)
Criteria Met?	YES 🛛 NO 🗌	Commenis:	Semancananaan			
Described Date			HYDF	ROLOGY		
Recorded Data	Available 🛛 🕅 Ad	erial Photos 🔲 S	Stream gauge	Other C	No Recorded Data Avail	able
Field Data Depth of inundati	ion: <u>None</u> D	epth to Saturation: <u>No</u>	ne Dep	th to free water: <u>No</u>	ne	
Primary Hydrology Inundated Saturated in upp Water Marks Drift Lines Sediment Depos Drinage Pattern	y Indicators: per 12 inches sits ns	Se	condary Hydrolog Dxidiz: Water- Local S FAC-N Other:	y Indicators (2 or r ed Root Channels (i stained Leaves Soil Survey Data leutral Test	nore required): upper 12")	
Criteria Met?	YES 🛛 NO 🗌	Comments: Soil is	deeply and widely	cracked		•
			DETERI	MINATION	<u> </u>	

WETLAND? YES NO Comments: This plot defines the outer edge of the rodeo grounds which was highly cracked mud at the point when the survey was taken. Gate surrounding rodeo defines a boundary of the depression explicitly.

County: Doualas City: Sutherlin Date: 10/May/2007 Project/Contact: Sutherlin Parks/ Satre Associates, P.C. Plant Community: Open Meadow Plant Community: Open Meadow Plot location: Plot is just north, or upland, of SP25 and east of western flagged popcorn flower site Recent Weather: Mean terms 66~degrees, partly cloudy, no percipitation, 0.74" month to date percipitation Do normal environ. conditions exist? Y ⊠ N □ If No, explain: Has Vegetation □ Soil □ Hydrology □ been significantly disturbed? Explain:						File # 0 Det. by: Plot # S	<u>349</u> Brian Meierir P24	nal/Susie Holmes	
	zzuzenati zzauzz:		-20-225223:	VEGE	TATION	oper de la perio de la p			
Tree Stratum Total Plot Cover:	%	50%: <u>%</u> Status/ Raw %	20%: _ Cover/ Rel %	% Cover	Herb Stratum Total Plot Cove	er: <u>%</u> 50%: <u>%</u> 20%	6: <u>%</u> Status/	Raw % Cove	r/ Rel % Cover
1 2	<u></u>				1. <u>Pestuca art</u> 2. <u>Anthoxanth</u>	um odoratum	FAC- FACU	50	38
3					 Bromus site Aarostis ter 	thensis nuis	FACU FAC	<u>30</u> 10	<u>19</u> 6
Sapling/Shrub Stra Total Plot Cover:	<u>tum</u> <u>%</u> 50%: <u>%</u> 20%:	: <u>%</u> Status/ Raw %	Cover/ Rel %	Cover	5. <u>Stellaria me</u> 6. <u>Medicado p</u> 7. <u>Juncus mar</u> 8. <u>Festuca my</u> 9. Poa annua	edia olymorpha iginatus iuros	FACU FACU FACU FACU FACU	3 3 t	2 1 1
4					10. Bellis pere	ennis	FACU	<u>t</u>	1
Percent of Domina Other Hydrophytic Criteria Met?	nt <u>Species</u> that are C Vegetation Indicator YES NO [DBL, FACW, FAC s: Comments:	: (not FAC-): <u>(</u>	% 		=======================================			
Man Linit Name: 44	A Conser silly clay i	nam		S	DILS.	ainage Class: poorly d	Irained		
On Hydric Soils Lis	17 Y⊠N□	Has hydr	ic inclusions?]	undge olass. <u>poorty o</u>	ininga .		
Depth Range of Horizon	Matrix Color	*****	Redox Cor * abund./si	ncentrations ze/contrast	color/location (Redox Dep matrix or pores/peds)	letions	Texlure	
0-8"	7.5YR 4/4		pinheads		*******	none		. loamy	
refusal at 8"									
Hydric Soil Indica	fore								
Histic Soli Initia Histic Epipedo Sulfidic Odor Reducing Cor Gleyed or Iow Redox feature	on nditions (tests positiv chroma colors s within 10* (e.g., c	e) oncentrations)		Concre High o Organi Organi Listed Meets Supple	tions/Nodules (ganic content ir c streaking (in S c pan (in Sandy on Hydric Soils hydric soil criter mental indicato	w/in 3"; > 2mm) n surface (in Sandy So Sandy Soils) Soils) List (and soil profile ma ia 3 or 4 (ponded or file r (e.g., NRCS field indi	lls) atches) poded for long dura cator):	ation)	
Criteria Met?	YES 🗌 NO 🗵	Comments:							
				HYDR	OLOGY	*=========			
Recorded Data	Available 🛛 🛛 Ad	erial Photos	🗋 Stream g	auge	C Other	No Recorded Da	ta Available		
Field Data Depth of inundat	lion: <u>0*</u>	Depth to Saturatio	on: <u>N/A</u>	Dep	Ih to free water:	<u>N/A</u>			
Primary Hydrolog Inundated Saturated in up Water Marks Drift Lines Sediment Depo Drainage Patter	y Indicators: per 12 inches sits ns		Secondary	/ Hydrolog Dividize Water- Local S FAC-N Other.	y Indicators (2 ad Root Channe stained Leaves foil Survey Data eutral Test	or more required): ils (upper 12'') a			
Criteria Met?	YES 🗌 NO 🛛	Comments:							
				DETERI	VINATION				
WETLANDO									

WETLAND? YES NO X Comments:

County: <u>Douglas</u> City: <u>Sutherlin</u> Project/Contact: <u>Sutherlin Parks/ Satre Associates, P.C.</u> Plant Community: <u>Doen Meadow</u>				Dat	e: <u>10/May/2007</u>	File # <u>0349</u> Det. by: <u>Brian Meiering/Susle Holmes</u> - Plot # <u>SP25</u>		
Recent Weather: <u>Me</u> Do normal environ. c Has Vegetation S Explain:	ant of plot SP24 in an temp 66~degree conditions exist? Y [Soil] Hydrology [es, partly cloudy, no	percipitation. 0.74" olain: disturbed?	month to date percipitation	<u>2n</u>	`		
		و هم هم اين کا عند يک من اين کل من خوان من	VEG	ETATION				
<u>Tree Stratum</u> Total Plot Cover: <u>9</u>	<u>6</u>	50%: <u>%</u> Status/ Raw % Co	20%: <u>%</u>	<u>Herb Stratum</u> Total Plot Cover: <u>%</u>	L.	50%: <u>%</u> Status/ Raw % C	20%; <u>%</u> over/ Rel % Cover	
1 2 3				1. <u>Carex densa</u> 2. <u>Juncus tenuis</u> 3. <u>Festuca arundinac</u>	2a	OBL 30 FACW- 25 FAC- 20	29 24 19	
Sapling/Shrub_Stratu Total Plot Cover: 1	<u>Im</u> ፩ 50%:% 20%;	% Status/ Raw % Co	ver/ Rel % Cover	4. <u>Anthoxanthum odo</u> 5. <u>Glyceria occidentall</u> 6. <u>Alopecurus pratens</u> 7. <u>Medicado polymor</u>	ratums sis Dha	FACU 10 OBL 15 FACW 5 FACU t	<u>10</u> <u>14</u> <u>5</u>	
2 3 4 5				8. <u>molum rebens</u> 9 10 11				
Percent of Dominant Other Hydrophytic V Criteria Met?	Species that are O egetation Indicators YES X NO [BL, FACW, FAC (n :: Comments:	ot FAC-): <u>100</u> %					
Man Hall Manne dia			S	OILS				
On Hydric Soils List		Has hydric ir	nclusions? Y 🗌 N		Class: <u>poony drained</u>			
Depth Range of Horizon	Matrix Color	[Redox Concentration abund./size/contras	ns sl/color/location (matrix o	Redox Depletions r pores/peds)	Textu	ſe	
10-12"	10YR 2/1	1	Vone		None	Silly	Clay Loam	
12-16"	10YR 3/2	I	.ow (5-10%) 10YR	5/8 Concretions in Matrix	None	Silty (Clay Loam	
Hydric Soil Indicato Histosol Histic Epipedor Sulfidic Odor Reducing Cond Gleyed or low o Redox features	ors: 1 litions (tests positive hroma colors wilhin 10" (e.g., co	e) oncentrations)	Conc High Orgar Orgar Listec Meets Suppl	retions/Nodules (w/in 3"; organic content in surfac nic streaking (in Sandy S nic pan (in Sandy Soils) d on Hydric Soils List (an s hydric soil criteria 3 or 4 lemental indicator (e.g., 1	 2mm) e (in Sandy Soils) oils) d soil profile matches) 1 (ponded or flooded fo NRCS field indicator): 	r long duration)		
Criteria Met?		Comments:						
Recorded Data	wailable 🛛 Ae	rial Photos	HYDI Stream gauge	ROLOGY	Recorded Data Availa	ble		
Field Data Depth of inundation	on: <u>O"</u> D	epth to Saturation: I	<u>V/A</u> De	pth to free water: <u>N/A</u>				
Primary Hydrology Inundated Saturated in uppe Water Marks Drift Lines Sediment Deposi Drainage Pattern	Indicators: er 12 inches ts s	S	Secondary Hydrolo Coxidiz Water Local FAC-1 Other	gy Indicators (2 or more zed Root Channels (uppo r-stained Leaves Soil Survey Data Neutral Test :	e required): er 12")			
Criteria Met?	YES 🛛 NO 🗌	Comments: Dra	inage patterns visibl	e from surface				
			DETER					

WETLAND? YES 🛛 NO 🗌 Comments:

County: <u>Douglas</u> Project/Contact; <u>Su</u> Plant Community: <u>C</u> Plot location: <u>South</u> Recent Weather: M	therlin Parks/ S Doen Meadow Jern edge of prir Jean temp 66~d	City: <u>St</u> atre Associates, P.C nary contiguous we egrees, partly cloud	<u>itherlin</u> 2. Iland v. no percipitatior	1. 0.74" m	onth to date p	Date: <u>10/M</u> ercipitation	av/2007	File # <u>03</u> Det. by: <u>[</u> Plot # <u>SF</u>	<u>49</u> 3rian Meierin 226	g/ Susie Holmes
Do normal environ. Has Vegetation 🖾 Explain	conditions exis Soil 🔀 Hydrolo : Site is a mud r	I? Y ⊠ N □ If No gy ⊠ been signific bit with recent vehicl	o, explain: antly disturbed? e ruls_				,			
				VEGE						
Tree Stratum		Status/ Raw	% Cover/ Rel % (Cover	Herb Stratum	<u>]</u> ocidantalin		Status/ F	Raw % Cover	/ Rel % Cover
2					2. Hordeum j	ubatum		FACW-	25	24
3					4. Medicago	polymorpha		FACU	10	10
Sapling/Shrub Strat	tum	Status/ Raw	% Cover/ Rel % (Cover	5 6					
1					7 8					**************************************
3					9		<u></u>			
5,					11					······································
Percent of Dominar Other Hydrophytic V Criteria Met?	nt <u>Species</u> that a Vegetation Indic YES X N	are OBL, FACW, FA ators: IO Comment	S (not FAC-): <u>10</u> s: <u>Vecetation dist</u>	0% lurbed by	vehicles, uplar	nd trace species	only on mounds	created by	<u>y tire ruts</u>	
				S	DILS					
Map Unit Name: 44	A Conser silty of	<u>clay loam</u>			0)rainage Class:	poorly drained			
On Hydric Soils List	1? Y⊠N□	Has hy	dric inclusions?]					• • • • • • • • • • • • • • • • • • •
Depth Range of Horizon	Matrix Color		Redox Conc * abund./size	entrations /contrast	color/location	Red (malrix or pores	lox Depletions" /peds)		Texture	
0-6"	10 yr 3/2		10 yr 7/8 C/F	D/living	roots				SCL	
6-16"	2.5 y 2.5/1		10 y 2.5/1 C/	F/D/pore	3		<u></u>		SCL	······
Hydric Soil Indical Histosol Histic Epipedo Sulfidic Odor Reducing Con Gleyed or Iow Redox feature	tors: on chroma colors s within 10° (e.	psitive) g., concentrations)		Concre High or Organi Organi Listed Meets Supple	etions/Nodules ganic content c streaking (in c pan (in Sand on Hydric Solls hydric Solls hydric soil crite mental indicate	(w/in 3"; > 2mm in surface (in Sa Sandy Soils) y Soils) s List (and soil p; ria 3 or 4 (ponc or (e.g., NRCS f) indy Soils) rofile matches) ied or flooded for ield indicator):	long durat	ion)	
Criteria Met?		Comments	: >ASS=queuxeuxeu			1800-2212-22				
Recorded Data				HYDR	OLOGY					
Recorded Data	Available [Aerial Photos	🔲 Stream gai	Jge	Other	No Recor	ded Data Availat	le		
Field Data Depth of inundati	ion: <u>None</u>	Depth to Saturat	ion: <u>None</u>	Dep	th to free water	r: <u>None</u>				
Primary Hydrology Inundated Saturated in upp Water Marks Drift Lines Sediment Depos Drainage Patter	y Indicators: per 12 inches sits ns		Secondary [[] [] [] []	Hydrolog ☑ Oxidize ☑ Water- ☑ Local § ☑ FAC-N ☑ Other:	y Indicators (2 ed Root Chann stained Leaves Soil Survey Dat eutral Test	2 or more requir els (upper 12') s a	ed):			
Criteria Met?		Comments	: Hydrology incre	ased in d	uration due to a	atypical situation	n. (vehicle ruts)			
	t dox to maister of	==================	 C	ETERI	WINATION	وهر الأخادة الأهري سنجيه وا				500 CH 211 CH 21 CH
WETLAND?	YES 🛛 NO	Commen	ts: <u>Internal</u> d	epressi	on localizes	<u>s (BPJ) stan</u>	ding water fu	rther into	o the grow	<u>ing se</u> ason. F

WETLAND? YES X NO Comments: Internal depression localizes (BPJ) standing water further into the growing season. Plot was taken to establish wetland boundary on the south side. Soils are disturbed but still maintain a hydric profile that matches soil maps.

County: <u>Douglas</u> Project/Contact: <u>Sutherlin Parks/ S</u> Plant Community: <u>Open Meadow</u> .	Date: <u>10/May/2007</u>	File # <u>0349</u> Det. by: <u>Brian Meleríng/ Susie Holmes</u> Plot # <u>SP27</u>		
Plot location: <u>Just south</u> , or <u>upland</u> Recent Weather: <u>Mean temp 66-d</u> Do normal environ. conditions exis Has Vegetation ⊠ Soil ⊠ Hydrolo Explain: <u>fill for rail line/</u>	of plot SP26 outside southern boundar earees, partly cloudy, no percipitation. 0 [? Y ⊠ N □ If No, explain: gy ⊠ been significantly disturbed? <u>non-soll</u>	<u>y of welland area</u> .74" month to date pe	rcipitation	
	V	EGETATION	ی میں اس سا ان این پی ملے اور ہے جو سے اور سے اور ایک اس سا اس میں اور ایک اور ایک اور اور اور اور اور اور اور	ین می بین می این می این می این که معاون اس معربی میرین می بین می این اساس کا اساس می بین دی این اس م
Tree Stratum 1 2	Status/ Raw % Cover/ Rel % Cov	Herb Stratum rer 1. <u>Festuca arr</u> 2. <u>Vicia tetras</u> 3. Trifolium co	undinacea*	Status/ Raw % Cover/ Rel % Cover FAC- 90 68 FACU 30 23 EACU 6 4
Sapling/Shrub Stratum 1. 2. 3. 4. 5.	Status/ Raw % Cover/ Rel % Cov	4. Anthoxant 5. <u>Medicaop</u> p per 6. <u>Rumex cris</u> 7. <u>Dactvlis dr</u> 8 9 10 11.	poris num odoratum oplymorpha popus pomerata	FACU 5 4 FACU 5 4 FACU 3 2 FAC+ t t FACU t t
Percent of Dominant <u>Species</u> that Other Hydrophytic Vegetation Indic Criteria Met? YES IN	are OBL, FACW, FAC (not FAC-): <u>0</u> % ators: IO 🔀 Comments: <u>Highly a typical ve</u>	eg, due to fill material	sub straight.	
Map Unit Name: <u>44A Conser silty o</u>	lay loam	SOILS D	rainage Class: poorly drained	
Depth Range Matrix of Horizon Color	Redox Concenti * abund /size/co	rations on trast/color/location (Redox Depletions matrix or pores/peds)	Texture
fill				۱۹۳۳ تیک دور و بروی میکرد. ۱۹۳۳ تیک دور و بروی و بروی میکرد به و و و و و و و و و و و و و و و و و و
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor		Concretions/Nodules (ligh organic content il Organic streaking (in S	(w/in 3"; > 2mm) n surfaçe (in Sandy Soils) Sandy Soils)	· · · · · · · · · · · · · · · · · · ·
 Reducing Conditions (tests pr Gleyed or low chroma colors Redox features within 10" (e. 	positive) g., concentrations) S S S	Diganic pan (in Sandy listed on Hydric Soils Meets hydric soil criter Supplemental indicato	/ Soils) List (and soil profile matches) ria 3 or 4 (ponded or flooded fo r (e.g., NRCS field indicator):	or long duration)
Criteria Met? YES 🗌 NG	Comments: Atypical fill, not use	ed to make determation	on,	
Recorded Data	H ⊠ Aerial Photos	YDROLOGY	No Recorded Dala Availa	able
<u>Field Data</u> Depth of inundation: <u>0</u>	Depth to Saturation: None	Depth to free water:	None	
Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Drift Lines Sediment Deposits Drainage Patterns	Secondary Hyd C S S S S S S S S S S S S S S S S S S	Irology Indicators (2 Dxidized Root Channe Nater-stained Leaves Local Soil Survey Data AC-Neutral Test Dther.	or more required): els (upper 12") a	
Criteria Met? YES 🗍 NG	D 🖾 Comments:			
	DE	TERMINATION		
WETLAND? VES T NO	M Commente: Area is filled	l rocontiv plong r	ail line fill. May need to	monitor by drology for directly

WETLAND? YES NO Comments: <u>Area is filled recently along rail line fill. May need to monitor hydrology for directly</u> adjacent hydrology] to finalize determination (if necessary). Fill creates upland environment that may have recently been partially wetland.

.

County: <u>Douolas</u> Project/Contact: <u>Sutherlin</u> Plant Community: <u>Perimet</u> Plot location: <u>Just north, o</u> Recent Weather: <u>Mean te</u> Do normal environ. conditi Has Vegetation 🖾 Soll 🖾 Explain: <u>Entire</u>	City: <u>Suth</u> Parks/ Satre Associates. P.C. er drainage ditch, disturbed roz r ubland, of plot SP29 outside of <u>no 66~degrees, partly cloudy.</u> ons exist? Y ⊠ N □ If No, a Hydrology ⊠ been significan plot is within road bed of histro	erlin Id bed If ditch 10 percipitation, 0.74" explain: Xplain: Id disturbed? ic rall line/non-soil.	month to date perci	Date: <u>10/May/2007</u> pil <u>ation</u>	File # <u>0349</u> Det. by: <u>Bria</u> Plot # <u>SP28</u>	n Meiering/ Susie Holmes
	keénciisiissezackaakaa	VEG	ETATION	.a=_:::##################################		
Tree Stratum	Status/ Raw %	Cover/ Rel % Cover	Herb Stratum		Status/ Raw	% Cover/ Rei % Cover
1			1. Festuca aruno 2. Medicago pol	dinacea*	FAC- E	50 <u>36</u> 10 <u>29</u>
3		-	 Vicia tetraspe Festuca myur 	rma*	FACU 2 FACU 1	20 <u>14</u> 107
Sapling/Shrub Stratum	Status/ Raw %	Cover/ Rel % Cover	5. Trifolium repe 6. Avena ct. barl	ns bata	FACU FACU	10 7 10 7
2			8. <u>Hypochaeris r</u>	adicata	FACU t	L
4			9 10	***************************************		
Percent of Dominant <u>Spec</u> Other Hydrophytic Vegeta Criteria Met? YES Map Unit Name: <u>44A Con</u>	ies that are OBL, FACW, FAC lion Indicators: DI NO Comments: Ser silty clay loam	(not FAC-): <u>0</u> % atypical weedy veg	SOILS Drain	nage Class: <u>poorly drained</u>		
On Hydric Soils List? Y	N 🔲 Has hydri	inclusions? Y 🗌 N				
Depth Range M of Horizon C	atrix Jor	Redox Concentration	ns st/color/location (ma	Redox Depletions atrix or pores/peds)	٦	fexture
Road bed fill	ᄡᆊᇊᆓᅕᅛᅸ _ᇏ ᠣᠳᠳᠧᡖᡖᡩᡷᢜ᠁᠁ᆣᡣᡊ᠁ᡔᢢᠾᡄᡣ᠅ᢞᡀ᠅ᡤᡏᡀᡘᢥᠮᡯᡁᡷᢂᠮᡮᡄᠥ	*****				
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions Gleyed or low chrom Redox features within Criteria Met? YES	(tests positive) a colors 1 10" (e.g., concentrations)	Conc High Orga Orga Liste Meet Supp on-soil	pretions/Nodules (w/ organic content in s nic streaking (in Sar nic pan (in Sandy S d on Hydric Soils Lis s hydric soil criteria lemental indicator (r	in 3"; > 2mm) urface (in Sandy Soils) dy Soils) oils) st (and soil profile matches) 3 or 4 (ponded or flooded fo e.g., NRCS field indicator): _	Pr long duration)	· · ·)
وهما بإراعي المترجر بيه بالمراجع المراجع		HYD	ROLOGY	وي موجو بالتي و التي		
Recorded Data	le 🛛 Aerial Photos	🗌 Stream gauge	C Other	🗌 No Recorded Data Availa	ble	
Field Data Depth of inundation:	Depth to Saturation	1: Da	pth to free water:			
Primary Hydrology Indic Inundated Saturated in upper 12 i Water Marks Drift Lines Sediment Deposits Drainage Patterns	ators: nches	Secondary Hydrolo Oxid Wate Loca FAC Othe	ogy Indicators (2 or. zed Root Channels r-stained Leavés I Soil Survey Data Neutral Test r:	.more required): (upper 12")		
Criteria Met? YES		III from rail line create	s obvious ordinary h	igh water line,		
822#626698809#69#6		DETE	RMINATION	======================================		

WETLAND? YES NO X Comments: Fill for rail line very old, pre. 1972.

County: <u>Douglas</u> Project/Contact: <u>Sutherlin Parks/ Satre Associates, P.C.</u> Plant Community: <u>Perimeter drainage ditch</u> Plot location: <u>Within ditch along southerm boundary, just south of SP29</u> Parent Westhern Mass temp Stadegreer, partly sloudy on perclipitation, 0.74" month.				Date: <u>10/May/2007</u>	File # <u>034</u> Det. by: <u>B</u> Plot # <u>SP</u> :	File # <u>0349</u> Det. by: <u>Brian Meiering/ Susie Holmes</u> Plot # <u>SP29</u>		
Recent Weather: <u>Mean</u> Do normal environ. cor Has Vegetation D Soil Explain:	I temp 66~dedrees, Iditions exist? Y⊠ I □ Hydrology □ t	Darily cloudy, no percipita N I If No, explain: Deen significantly disturbe	ation, 0.74" mi	onth to date percipitation				
			VEGE	TATION				
<u>Tree Stratum</u> Total Plot Cover: <u>%</u>	50%:	<u>%</u> 20%: <u>%</u> Itatus/ Raw % Cover/ Rel	% Cover	Herb Stratum Total Plot Cover: _% 50	0%: <u>%</u> Status/ R	20%: <u>%</u> aw % Cover/ Rel % Co	ver	
1. <u>Fraxinus latitolia*</u> 2.	<u> </u>	<u>ACVV 10 1</u>	00	Lemna minor Juncus patens*	FACW	<u></u>		
3				3. Mentha pulegium	OBL	10 15		
Daulian/Ohush Ohushum				4. <u>Centaurea pratensis</u>	FACU	<u>10 15</u>		
Total Plot Cover: _%	5	0%: _% 20%: _%	6	5. <u>Carex deweyana</u>		5/		
1. Contractor and a second	-	Status/ Raw % Cover/ R	tel % Cover	6. Anthoxanthum odoratum	FACU	3 4		
 Cratageus monogyn Cutieus econatius 	a <u>r r</u>	ACU+ 20 6	<u>1</u> 5	<u>Festuca arunoinacea</u> <u>B</u> Dineacus follopum sen, sylvestris	FAC-			
3. Rubus armeniacus		ACU- 5 1	5	9. Polystichum munitum	FACU	t t		
4. Prunus sp		3 9		10. Rumex crispus	FAC+	<u>t t</u>		
5			-	11. Epilobium ciliatum	FACW-	<u>t</u>		
Other Hydrophytic Veg Criteria Met? Y	etation Indicators:	Comments:			<u>نے عن میں جہ میں میں این میں میں میں میں میں میں میں میں میں میں</u>	n bes Reiden de a se se se		
Map Unit Name: 44A C	Conser silly clay loar	<u>n</u>	30	Drainage Class: <u>poorly drainage</u>	ined			
On Hydric Soils List?		Has hydric inclusion	s? Y □ N □]				
Depth Range of Horizon	Matrix Color	Redox C * abund.	Concentrations /size/contrast/	Redox Deplet color/location (matrix or pores/peds)	ions	Texture		
0-7"	2.5Y 4/1	None		None		Silty Clay		
refusal at 7"								

Hydric Soil Indicators:								
Criteria Met? YE	oma colors ithin 10" (e.g., conc ES 🔀 NO 🗌	comments:	Listed c Meets I Supple	c pan (in Sandy Soils) on Hydric Soils List (and soil profile matc hydric soil criteria 3 or 4 (ponded or floo mental indicator (e.g., NRCS field indica	thes) ded for long durati lor):	ion)		
☐ Redox features w	oma colors ithin 10" (e.g., conc ES 🖾 NO 🗔	comments:	Listed of Meets I	: pan (in Sandy Solls) on Hydric Solls List (and soll profile matc hydric soll criteria 3 or 4 (ponded or floo mental indicator (e.g., NRCS field indica	ihes) ded for long durati tor):	ion) ====================================	2 	
Criteria Met? YE	oma colors ilhin 10" (e.g., conc ES 🔀 NO 🗌	comments:	Listed c Meets I Supples HYDR	pan (in Sandy Soils) n Hydric Soils List (and soil profile matc hydric Soils List (and soil profile matc hydric soil criteria 3 or 4 (ponded or floo mental indicator (e.g., NRCS field indica OLOGY OLOGY Other No Recorded Data	ihes) ded for long durati lor): ================================	ion) ================================		
Li Redox features w Criteria Met? YE Recorded Data ⊠ Recorded Data Ava Field Data Depth of inundation:	oma colors ithin 10" (e.g., conc ES 🔀 NO 🗌 silable 🖾 Aeria 2" Dep	centrations) Comments: Il Photos C Stream Il to Saturation: <u>N/A</u>	Listed c Meets I Supples HYDR	: pan (in Sandy Soils) on Hydric Soils List (and soil profile matc hydric soil criteria 3 or 4 (ponded or floo mental indicator (e.g., NRCS field indica OLOGY	ihes) ded for long durati lor): ================================	ion) ========	ta titara	
I Redox features w Criteria Met? YE Recorded Data Recorded Data Ava Field Data Depth of inundation: Primary Hydrology In Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	oma colors ilhin 10" (e.g., conc ES 🔀 NO 🗌 ailable 🖾 Aeria <u>2</u> " Dep idicators: 12 inches	comments:	Listed c Meets I Supplet HYDR n gauge Dept Oxidize Water-s Coxidize Hary Hydrology Oxidize Hara Ara Coxidize Coxidize Hara Ara Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize Oxidize	pan (in Sandy Soils) n Hydric Soils List (and soil profile matc nydric Soils List (and soil profile matc nydric soil criteria 3 or 4 (ponded or floo mental indicator (e.g., NRCS field indica OLOGY Other	ihes) ded for long durati lor): ================================	lon)		
Li Redox features w Criteria Met? YE Recorded Data Recorded Data Ava Field Data Depth of inundation: Primary Hydrology In Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Criteria Met? YE	oma colors ithin 10" (e.g., conc ES X NO ailable X Aeria 2" Dep Idicators: 12 inches ES X NO	comments:	Listed c Meets I Supplet HYDR n gauge Dept ary Hydrology Oxidize Oxidize Nater-3 Local S FAC-Ne Other:	pan (in Sandy Soils) n Hydric Soils List (and soil profile match nydric Soils List (and soil profile match nydric soil criteria 3 or 4 (ponded or floo mental indicator (e.g., NRCS field indica OLOGY Other	ihes) ded for long durati tor):	ion) 		
L Redox features w Criteria Met? YE Recorded Data ⊠ Recorded Data Ava Field Data Depth of inundation: Primary Hydrology In ⊠ Inundated Datarted in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns Criteria Met? YE	oma colors ithin 10" (e.g., conc ES 🖾 NO 🗌 silable 🖾 Aeria 2" Dep ndicators: 12 inches ES 🖾 NO 🗌	comments:	Listed c Meets I Supplet HYDR n gauge Dept ary Hydrology Oxidize Mater Cocal S FAC-Na Other:	pan (in Sandy Soils) n Hydric Soils List (and soil profile match hydric Soils List (and soil profile match hydric Soil criteria 3 or 4 (ponded or floo mental indicator (e.g., NRCS field indica OLOGY Other	ihes) ded for long durati lor): Available	ion)		

WETLAND? YES X NO Comments:

County: Douglas City: Sutherlin Date: 10/May/2007 Project/Contact: Sutherlin Parks/ Satre Associates, P.C. Plant Community: Open Meadow. Plot location: Eastern side of Ash Woodland within eastern side of site Recent Weather. Mean temp 66~degrees. partly cloudy, no percipitation, 0.74" month to date percipitation Do normal environ. conditions exist? Y ⊠ N □ If No, explain: Hydrology ⊠ been significantly disturbed? Explain: Toe of a fill pile extends to this boundary Explain: Toe of a fill pile extends to this boundary								<u>49</u> 3rian Meierina/ Susie Holmes 30
oraciaeseeeeeeeeeee	iejsewschiedweb:		tiassiigsdu	VEGE	TATION		ının qərə ənın	هید <u>و با اور می</u> ان می دونین میندم <u>با با</u> بر بر
Tree Stratum 1. Fraxinus latifolia * 2. 3. Sapling/Shrub Stratum 1. Crataegus monogyn 2. 3. 3. 3. 3. 3. 3. 3. 3. 3.	1 1a *	Status/ Raw % Co FACU 40 Status/ Raw % Co FACU+ 30	ver/ Rel % C 100 ver/ Rel % C 100	Cover	Herb Stratum 1. Camassia qi 2. Mentha pule 3. Juncus Pule 4. Festuca arur 5. Unknown Gr 6 7 8 9	lamash * gium * gium * idinacea ass	Status/ R FACW OBL FACW FAC-	aw % Cover/ Rel % Cover 15 30 10 20 20 40 5 10 0 D
4 5 Other Hydrophytic Veg Criteria Met? Y	Species that are 0 getation Indicator /ES 🔀 NO [DBL, FACW, FAC (n s: Comments: <u>Ad</u>	ot FAC-): <u>80</u> jacent plot ir	% n Ash Woo	10 11	ical of this habitat compo	sillon.	
				SC	ILS			o
Map Unit Name: 44A C	Conser silty clay I	loam			Dra	inage Class: poorly drain	led	
On Hydric Soils List?	YXND	Has hydric ir	IClusions?					
Depth Range of Horizon	Matrix Color	-	Redox Conce abund./size	entrations e/contrast/o	color/location (m	Redox Depletio natrix or pores/peds)	INS	Texture
0-5" 2.5 y 3/1 F/F/F/matrix SCL							SCL	
5-16"	5-16" 10 yr 3/1 5 yr 4/6 C/F/D/root channels SCL							
Hydric Soil Indicators Histosol Histo Epipedon Sulfidic Odor Reducing Conditi Gleyed or low chr Redox features w	s: ions (tests positiv roma colors vithin 10° (e.g., c	re) oncentrations)		Concret High org Organic Organic Isted o Meets h Suppler	ions/Nodules (w ganic content in streaking (in Sa pan (in Sandy S n Hydric Soîls L ydric soîl criteria nental indicator	<i>rl</i> in 3"; > 2mm) surface (in Sandy Solls) andy Solls) Solls) ist (and soll profile match a 3 or 4 (ponded or flood (e.g., NRCS field indicato	ies) ed for long durat rf):	ion)
Criteria Met? YE	ES 🛛 NO 🗌	Comments:		-=======		******		
Reported Date				HYDR	OLOGY			
Recorded Data Ava	ailable 🛛 🖾 A	erial Photos	Stream gau	uge	C Other	No Recorded Data A	vailable	
Field Data Depth of inundation:	: <u>None</u> [Depth to Saturation: J	None	Depti	n to free water: <u>I</u>	None		
Primary Hydrology In Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	ndicators: 12 inches	5	Secondary I [[[[[[[[Hydrology ⊇ Oxidized ⊇ Water-s ⊇ Local Se ⊒ FAC-Ne ⊒ Other: _	Indicators (2 d d Root Channels tained Leaves oil Survey Data utral Test	or more required): s (upper 12")		
Criteria Met? YI	ES 🛛 NO 🗌	Comments:						•
ac 2260220222222	199559220555555		D	ETERN	IINATION	###################################		FFREEREREFEENSCORES
WETLAND? YE	S 🛛 NO 🗌 paired with S	Comments: P 31.	Plot taken	<u>ı to desc</u>	cribe obvious	s fill most likely pre-	1970's that e	extends into Ash

.

County: Douglas City: Sutherlin Date: 10/M Project/Contact: Sutherlin Parks/ Satre Associates, P.C. Plant Community: Disturbed upland Plot location: Eastern side of upland area within Ash Woodland near eastern side of site Recent Weather: Mean termo 66-degrees, partly cloudy, no percipitation, 0.74" month to date percipitation Do normal environ. conditions exist? Y ⊠ N □ If No, explain: Has Vegetation ⊠ Soil ⊠ Hydrology □ been significantly disturbed? Explain: Obvious Fill							2 <u>007</u>	File # <u>0349</u> Det. by: <u>Briar</u> Plot # <u>SP31</u>	<u>n Mélering</u> i	<u> Susie Holmes</u>
			************	VEGE	TATION					
<u>Tree Stratum</u> 1 2		Status/ Raw %	Cover/ Rel %	Cover - -	<u>Herb Stratum</u> 1. <u>Festuca ar</u> 2. <u>Rubus arm</u>	undinacea* neniacus*		Status/ Raw 1 FAC- 1 FACU 1	% Cover/ I 05	Rel % Cover 10 15
3Sapling/Shrub Stratun	<u>n</u>	Status/ Raw %	Cover/ Rel %	- Cover -	3. <u>Unknown (</u> 4. <u>bare groun</u> 5 6 7	Grass*		7	3	_ <u>2</u> _ <u>73</u>
2 3 4 5				- - -	9 10 11					······································
Percent of Dominant Other Hydrophytic Ver Criteria Met?	Species that a getation Indication VES N	re OBL, FACW, FAC ators: O 🔀 Comments:	C (not FAC-): 0	% entire fill s	ope					
Map Unit Name: 44A Mon Hydric Soils List?	Conser sility c	<u>lay loam</u> Has hydi	ric inclusions?	SO Y 🗆 N 🗆	ILS D	rainage Class: <u>por</u>	orly drained			
Depth Range of Horizon	Matrix Color		Redox Cono * abund./siz	centrations e/contrast/c	color/location (Redox (matrix or pores/pe	Depletions ds)	· T	exture	
0-B"	2.5 YR 4/3							S	 iL	·····
>8"	Refusal									
Hydric Soil Indicator Histosol Histic Epipedon Sulfidic Odor Reducing Condit Gleyed or low ch Redox features v	ions (lests po roma colors vilhin 10" <u>(</u> e.ç	sitive) p., concentrations)		Concret High org Organic Organic Listed o Meets h Suppler	ions/Nodules janic content i streaking (in pan (in Sandy n Hydric Soils ydric soil crite nental indicato	(w/in 3"; > 2mm) in surface (in Sand Sandy Soils) y Soils) List (and soil profi ria 3 or 4 (ponded or (e.g., NRCS field	ly Soils) le matches) or flooded for d indicator);	long duration)		
Criteria Met? Y		Comments:								
Recorded Data	ailable 🛛	Aerial Pholos	🗋 Stream ga	HYDR(DLOGY	No Recorde	d Data Availab	le		
Field Data Depth of inundation	: <u>None</u>	Depth to Saturation	on: <u>None</u>	Depti	n to free waler	: <u>None</u>				
Primary Hydrology Ii Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	ndicators: 12 inches		Secondary	Hydrology Oxidized Water-s Local So FAC-Ne Other:	Indicators (2 Root Chann Iained Leaves oil Survey Dat utral Test	? or more required) els (upper 12") a a	:			
Criteria Met? Y	ES 🗌 NC	Comments:	Fill pile extends	above hyd	irology wilhin	the site				
			l	DETERN	INATION					

WETLAND? YES NO Comments: Plot taken to describe obvious fill pre-1985 that extends into Ash Woodland, characterized by Armenian blackberry and English hawthorn. When paired with SP 30

Explain:	County: <u>Doublas</u> Project/Contact: <u>Sutherlin Parks/ S</u> Plant Community: <u>Open Meadow</u> Plot location: <u>Within ditch along ea</u> Recent Weather: <u>Mean temp 66-di</u> Do normal environ. conditions exist Has Vegetation Soil Hydrolo	City: <u>Sutherlin</u> <u>atre Associates, P.C.</u> <u>atern boundary, just east of SP33</u> <u>corees, partly cloudy, no percipitation, 0.74</u> <u>orees, partly cloudy, no percipitation, 0.74</u> <u>orees, partly cloudy, no percipitation, 0.74</u> <u>orees, partly cloudy</u> <u>orees, p</u>	Date: <u>10/May/2007</u> <u>" month to date percipitation</u>	File # <u>0349</u> Det. by: <u>Brian Meiering/ Susie Holmes</u> Plot # <u>SP32</u>
Tree Stratum Herb Stratum Status/ Raw % Cover/ Rel % Cover Status/ Raw % Cover/ Rel % Cover 1. Fraxinus latifolia * FACW 40 80 1. Juncus patens * FACW 80 89 2. Cratageus monogyna * FACU+ 10 20 2. Agrostis tenuis FAC 10 11 3.	Explain:		GETATION	
2. Jatabasis intermediate 1740 10 11 3	Tree Stratum 1. <u>Fraxinus latifolia *</u>	Status/ Raw % Cover/ Rel % Cover FACW 40 80 FACU 40 20	Herb Stratum 1. Juncus patens *	Status/ Raw % Cover/ Rel % Cover FACW 80 89 FAC 10 11
Number Num Number Number Number Number Number Number Number Number Number Nu	Sapling/Shrub Stratum	Status/ Raw % Cover/ Rel % Cover	3. <u>Gallum aparine</u> 4. <u>Vicia sativa var. sativa</u> 5	FACU t t FACU t t
	Rubus armeniacus * Prunus ceresiformis 'intermediate 4. 5.	FACU- 40 80	7899	
Percent of Dominant Species that are OBL, FACW, FAC (not FAC-): 66% Other Hydrophytic Vegetation Indicators: Criteria Met? YES NO Comments: This plot would not include most of the tree + shrub species if shaped along buttom of channel, plot domininated by FAC and greater ssp.	Percent of Dominant <u>Species</u> that a Other Hydrophytic Vegetation Indic Criteria Met? YES X N FAC and greater ssp.	re OBL, FACW, FAC (not FAC-): <u>66</u> % ators: O Comments: <u>This plot would not in</u>	nclude most of the tree + shrub species if shaped a	long buttom of channel, plot domminated by
Map Unit Name: <u>44A Conser silty clay loam</u> Drainage Class: <u>poorly drained</u>	Map Unit Name: <u>44A Conser silty c</u>	lay loam	SOILS Drainage Class: poorly drained	
On Hydric Soils List? Y ☑ N □ Has hydric inclusions? Y □ N □	On Hydric Soils List? Y 🛛 N 🗋	Has hydric inclusions? Y 🔲 N	N 🗆	
Depth Range of Horizon Matrix Redox Concentrations Redox Depletions Texture of Horizon Color * abund./size/contrast/color/location (matrix or pores/peds) Texture	Depth Range Matrix of Horizon Color	Redox Concentrali * abund./size/contra	ons Redox Depletions ast/color/location (matrix or pores/peds)	Texture
0-4" 10yr 3/2 . SCL	0-4" 10yr 3/2			SCL
4-8" 2.5yr 3/1 10yr 5/8 C/M/P SC	4-8" 2.5yr 3/1	10yr 5/8 C/M/P		SC
8-20"" 10yr 4/1 10yr 5/6 C/F/D (root channels C	8-20"" 10yr 4/1	10yr 5/6 C/F/D	(root channels	C
Hydric Soil Indicators: Concretions/Nodules (w/in 3"; > 2mm) Histosol High organic content in surface (in Sandy Soils) Sulfidic Odor Organic streaking (in Sandy Soils) Reducing Conditions (tests positive) Organic pan (in Sandy Soils) Gleyed or low chroma colors Listed on Hydric Soils List (and soil profile matches) Redox features within 10" (e.g., concentrations) Meets hydric soil criteria 3 or 4 (ponded or flooded for long duration) Supplemental indicator (e.g., NRCS field indicator):	Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (tests po Gleyed or low chroma colors Redox features within 10" (e. Criteria Met? YES	Silive)	Acretions/Nodules (w/in 3"; > 2mm) h organic content in surface (in Sandy Soils) anic streaking (in Sandy Soils) anic pan (in Sandy Soils) ed on Hydric Soils List (and soil profile matches) ets hydric soil criteria 3 or 4 (ponded or flooded for plemental indicator (e.g., NRCS field indicator): channels usu 10yr 4/1,	long duralion)
HYDROLOGY			DROLOGY	e din Bakatika kara karaka ku
Recorded Data Image: Stream gauge Image: Other No Recorded Data Available	Recorded Data] Aerial Photos 🛛 🗍 Stream gauge	Other No Recorded Data Availab	le
Field Data Depth of inundation: None Depth to Saturation: None Depth to free water: None	Field Data Depth of inundation: None	Depth to Saturation: <u>None</u> D	Pepth to free water: <u>None</u>	
Primary Hydrology Indicators: Secondary Hydrology Indicators (2 or more required): Inundated Oxidized Root Channels (upper 12") Saturated in upper 12 inches Water-stained Leaves Water Marks Local Soil Survey Data D Drift Lines FAC-Neutral Test Sediment Deposits Other: Ø Drainage Patterns Other:	Primary Hydrology Indicators: Inundated Saturated in upper 12 inches Water Marks Dirtit Lines Sediment Deposits Dirainage Patterns	Secondary Hydrol Secondary Hydrol Wat Loca FAC Othe	logy Indicators (2 or more required): dized Root Channels (upper 12") ter-stained Leaves al Soil Survey Data -Neutral Test er:	
Criteria Met? YES NO Comments:	Criteria Met? YES 🛛 NC	Comments:		
DETERMINATION		DETE	RMINATION	

WETLAND? YES X NO Comments: Ditch appears to occur with road around 1960.

County: Douglas City: Sutherlin Date: 10 Project/Contact: Sutherlin Parks/ Satre Associates. P.C. Plant Community: Open Meadow. Plot location: Just west, or upland, of ditch and plot SP32 Recent Weather: Mean termo 66-degrees. partly cloudy, no percipitation, 0.74" month to date percipitation Do 74" month to date percipitation Do normal environ. conditions exist? Y ⊠ N □ If No, explain: Has Vegetation ⊠ Soil ⊠ Hydrology ⊠ been significantly disturbed? Explain: Old road bed, probably to access orchard east of ash stand created pre-1970's.							File # <u>03/</u> Det. by: <u>F</u> Plot # <u>SP</u>	<u>19</u> Brian Meiering 33	<u>a/ Susíe Holmes</u>
	ing and an and an	inun sex a pun :		VEGET	ATION				ی کانن ک کا نظ کا کر او در او در او در او در او
<u>Tree Stratum</u> 1	Ę	Status/ Raw %	Cover/ Rel %	Cover	<u>Herb Stratum</u> I. <u>Festuca an</u>	undinacea*	Status/ R FAC-	aw % Cover/ 90	Rel % Cover
2				- 2	2. <u>Avena fatua</u> 3. <u>Anthoxanth</u> 4. <u>Vicia tetras</u>	a um odoralum perma	FACU FACU FACU	<u>10</u> 5 t	7 4 1
Sapling/Shrub Stratum	٤	Status/ Raw %	Cover/ Rel %	Cover 6	5. <u>Bellis perer</u> 6. <u>Centaurea</u> 7. <u>Rumex cris</u>	nnis pratensis pus	FACU FACU FAC+		
2335					3. <u>Rubus arm</u> 9 10	eniacus*	FACU-	30	<u>_22</u>
Percent of Dominant S Other Hydrophytic Veg Criteria Met? Y	Decies that are OB etation Indicators: ES NO X	L, FACW, FAG	(not FAC-): <u>0</u>	%		-			
Map Unit Name: <u>44A C</u>	onser silly clay loa	0		SOI	LS	rainage Class: poorly drained	1		
On Hydric Soils List?	\boxtimes N \square	Has hydri	c inclusions?	YDND					
Depth Range of Horizon	Matrix Color		Redox Con * abund./siz	centrations e/contrast/co	olor/location (i	Redox Depletions matrix or pores/peds)	; ;	Texture	
0-6"	10yr 4/3					refusal @ 6"			
Hydric Soil Indicators	:	· · ·			ons/Nodules (w/in 3"; > 2mm)			
Histe Epipeucin Unitidic Odor Reducing Conditio Gleyed or low chm Redox features wi	ons (lests positive) oma colors ihin 10" (e.g., cond	centrations)		☐ Fight organic s ☐ Organic s ☐ Listed on ☐ Meets hy ☐ Suppleme	streaking (in S ban (in Sandy Hydric Soils dric soil criter ental indicato	sandy Soils) Soils) List (and soil profile matches ia 3 or 4 (ponded or flooded r (e.g., NRCS field indicator)	i) for long durat	on)	
Criteria Met? YE	<u>s 🗌 no 🛛</u>	Comments: <u>H</u>	listroic road b	ed (see belov	<u>w)</u> ==========	وها و در و به در از و در از و در از و و و و و و و			nàzazarraza
Recorded Data	ilable 🛛 Aeria	il Photos	🗌 Stream ga	HYDRO auge [🗋 No Recorded Data Ava	illable		
Field Data Depth of inundation:	<u>None</u> Dep	oth to Saturation	n: <u>None</u>	Depth	to free water:	None			
Primary Hydrology Im Inundated Saturated in upper 4 Water Marks Drift Lines Sediment Deposits Drainage Patterns	dicators: 12 inches		Secondary	Hydrology I Oxidized Water-stz Local Sol FAC-Neu Other:	Indicators (2 Root Channe ained Leaves I Survey Data tral Test	or more required): els (upper 12") a	•.		
Criteria Met? YE	S 🗌 NO 🛛	Comments:							
			. I	DETERMI	NATION				

WETLAND? YES NO Comments: Ditch appears on photos around 1960, edge of old roadbed highly disturbed with occassional remnants of red ore from fill.

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County: Douglas City: Sutherlin Project/Contact: Sutherlin Parks/ Satre Associates. P.C. Plant Community: Riparian edge of perimeter drainage ditch Plot location: Just south of waters edge along the northern edge of the propert Recent Weather: Mean termo 66-degrees. partly cloudy, no percipitation, 0.74" Do normal environ. conditions exist? Y ⊠ N □ If No, explain: Has Vegetation □ Soii ⊠ Hydrology □ been significantly disturbed? Explain: A typical soils impacted by			Date: <u>10/May/2007</u> <u>, see map</u> nonth to date percipitation	File # <u>0349</u> Det. by: <u>Brian Melering/ Susie Holmes</u> Plot # <u>SP34</u>
		VEGE	ETATION	
Tree Stratum	Status/ Raw S	% Cover/ Rel % Cover	<u>Herb Siratum</u> 1. Typha latifolia *	Status/ Raw % Cover/ Rel % Cover OBL 60 38
2			2. <u>Camassia leichtlinii *</u> 3. Festuca agundinacea *	FACW- 25 16 FAC- 30 19
Sapling/Shrub Stratum	Status/ Raw	% Cover/ Rel % Cover	A. Scirpus cf. acutis Acutis Anthoxanthum odoralum G. Equiselum arvense	OBL 10 6 FACU 10 6 FAC 10 6
Rubus armeniacus * Salix cf. scouleriana * Alnus rubra *	FACU- 10 FAC 10 FAC 10	0 <u>25</u> 0 <u>25</u> 0 <u>25</u>	7. Daciylis glomerata 8. Ranunculus uncinatus 9. Centaurea pratensis	FACU 5 3 FAC 5 3 FACU 5 3
4. Cratageus monogyna 5. Toxicodendron diversilobu	FACU 5 m FACU 5	<u>12</u> 12	10. Epilobium ciliatum 11. Plantago lanceolata	FACW- t t
Percent of Dominant <u>Species</u> Other Hydrophytic Vegetation Criteria Met? YES [that are OBL, FACW, FA Indicators: NO Comment	C (not FAC-): <u>67</u> % s: <u>Plot was not shaped pra- </u>	actically, therefore it captured many veg Description OILS Drainage Class: poorly dr	etation aspects up stope.
Depth Range Matr of Horizon Colo		Redox Concentration * abund./size/contrasi	s Redox Depl Vcolor/location (matrix or pores/peds)	elions Texture
0-7" 10vr	3/1			SCL
7" Fill (r	ock]			
Hydric Soll Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions (te Gleyed or low chroma c Redox features within 1 Criteria Met? YES	sts positive) ofors of (e.g., concentrations) NO □ Comments	Concra High o Organ Listed Meets Supple	etions/Nodules (w/in 3"; > 2mm) rganic content in surface (in Sandy Soi ic streaking (in Sandy Soils) ic pan (in Sandy Soils) on Hydric Soils List (and soil profile ma hydric soil criteria 3 or 4 (ponded or flo emental indicator (e.g., NRCS field indic k probably associated with histroic dur	ls) oded for long duration) rator):
				1 <u>10111.</u> 13 de xue - Reference de la compañía de compañía de compañía de la compañía de compañía de compañía de compañía 14 de xue - Reference de la compañía de
Recorded Data	🛛 Aerial Photos	Stream gauge	Other No Recorded Dat	a Available
Field Data Depth of inundation: 0	Depth to Saturat	ion: <u>None</u> Dep	oth to free water: <u>None</u>	
Primary Hydrology Indicato	prs: nes	Secondary Hydrolog Oxidizi Water- Local ; X FAC-N Other:	gy Indicators (2 or more required): ed Root Channels (upper 12") -stained Leaves Soll Survey Data leutral Test sulfur odor	
Criteria Met? YES 🔀	NO Comments	Sulfuric odor when soil p	it examed.	
	******	DETER	MINATION	<i>i glaites</i> feliaiteite poduuteite 58622 _.

WETLAND? YES NO Comments: Plot taken to describe well defined boundary of Sutherlin Creek. Wetland boundary will defined by elevation gradient. Average of 9 feet emergent vegetation on each side of primary channel flow, completley within ordinary high water. Paired with SP 35.

County: <u>Douglas</u> Project/Contact: <u>Sutherlin</u> Plant Community: <u>Open m</u> Plot location: <u>Just south</u> <u>c</u> Recent Weather: <u>Mean ter</u> Do normal environ. condlit Has Vegetation IX Soli IX Explain: <u>Histro</u>	City: <u>Sut</u> Parks/ Satre Associates, P.C. eadow upland of riparian area r upland, of plot SP34 no 66-degrees, partly cloudy, ons exist? Y ⊠ N □ If No, Hydrology ⊠ been significa c, 1960's dike location domin	Date: <u>10/May/2007</u> cipilation	File # <u>0349</u> Det, by: <u>Brian Melerir</u> Plot # <u>SP35</u>	ig/ Susie Holmes		
920000000000000000000000000000000000000		VEGE	TATION	:=====================================		
Tree Stratum 1 2	Status/ Raw %	Cover/ Rel % Cover	Herb Stratum 1. <u>Anthoxanth</u> 2. <u>Festuca aru</u>	um odorałum* ndinacea*	Status/ Raw % Cover FACU 70 FAC- 20	r/ Rei % Cover <u>61</u> <u>17</u>
3 Sapling/Shrub Stratum 1 2 3	Status/ Raw %	Cover/ Rel % Cover	3. <u>Hypochaen</u> 4. <u>Centaurea</u> 5. <u>Bromus sitc</u> 6. <u>Daucus car</u> 7. <u>Crysantherr</u> 8 9	s radicata oratensis hensis ola num leucanthemum	FACU 10 FACU 5 FACU 5 FACU 5 FACU 1	
4 5 Percent of Dominant <u>Spec</u> Other Hydrophytic Vegetat Criteria Met? YES	es that are OBL, FACW, FAC ion Indicators: i NO X Comments:	: (not FAC-): <u>0</u> %	10 11			
Map Unit Name: <u>44A Cons</u>	er silly clay loam	S	OILS Dr	ainage Class: poorly drained		
On Hydric Soils List? Y 🗵	N 🗌 Has hydr	ic inclusions? Y 🔲 N 🛛	. נ			
Depth Range Ma of Horizon Co	alrix Ilor	Redox Concentration * abund./size/contrast	s I/color/location (r	Redox Depletions natrix or pores/peds)	Texture	
Refusal @ sur	face	مستغالي ويستعر وغنائه وسنال ليستغالي ويستبرو وغاليها				
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Reducing Conditions Gleyed or low chroma Redox features within	(tests posilive) a colors 10* (e.g., concentrations)	☐ Concr ☐ High o ☐ Organ ☐ Usted ☐ Meets ☐ Supple	elions/Nodules (rganic content ir ic streaking (in S ic pan (in Sandy on Hydric Soils hydric soil criteri emental indicator	w/in 3"; > 2mm) surface (in Sandy Soils) andy Soils) Soils) List (and soil profile matches) a 3 or 4 (ponded or flooded fo (e.g., NRCS field indicator): _	or long duration)	
Criteria Met? YES	NO S Comments:	A typical road fill				
Recorded Data		HYDF	ROLOGY			
Recorded Data Availab	le 🛛 Aerial Photos	Stream gauge	C Other	No Recorded Data Availation	able	
Field Data Depth of inundation: No	ne Depth to Saturation	n: <u>None</u> Dep	th to free water:	None		
Primary Hydrology Indic: Inundated Saturated in upper 12 in Water Marks Drift Lines Sediment Deposits Drainage Patterns	ators: Inches	Secondary Hydrolog Oxidiz Water- Local : FAC-N Other:	y Indicators (2 ed Root Channe stained Leaves Soil Survey Data leutral Test	or more required): Is (upper 12")		
Criteria Met? YES	NO 🛛 Comments:	Well defined at top of dik	<u>e.</u>		ر سه ها ها ها ها ها منه ما است مر است این این و ای ا	وبي وي
	, an	DETER	MINATION		en 19 en 19 en 19 en 19 en 19 El 20 El	
WETLAND? YES [NO 🛛 Comment	s: <u>Paired with SP 3</u>	4 to define S	utherlin Creek. OHW i	s obvious below th	<u>iis plot.</u>
DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM-Full Method

County: <u>Douglas</u> Project/Contact: <u>Sutherlin Part</u> Plant Community: <u>Open Mead</u> Plot location: <u>Plot is east of rog</u> Recent Weather: <u>Mean temp 6</u> Do normal environ. conditions Has Vegetation ⊠ Soil _ Hyo Explain: Veg. and	City: <u>Sutherlin</u> <u>ks/ Satre Associates. P.C.</u> <u>ow</u> <u>deo area and just west/upland of dirt road</u> <u>36-degrees, partly cloudy, no percipitation, 0.7</u> exist? Y ⊠ N ☐ If No, explain: forlogy ⊠ been significantly disturbed? hydrology both impacted by rodeo groungs. Ro	Date: <u>08/May/2007</u> 74" month to date percipitation odeo depression diverts some hydrology off of the d	File # <u>0349</u> Det. by: <u>Brian Meiering/ Susie Holmes</u> Plot # <u>SP36</u> listrubed plot.									
***************************************		CETATION										
Tree Stratum	Status/ Raw % Cover/ Rel % Cover	Herb Stratum	Status/ Raw % Cover/ Rel % Cover									
1.		1. Festuca arundinacea*	FAC- 70 56									
3		2. Alopecurus pratensis-	FACULE 8 6									
· ·		4. Medicago polymorpha	NOL 7 6									
Sapling/Shrub Stratum		5. Agrostis tenuis	FAC 5 4									
	Status/ Raw % Cover/ Rel % Cover	r 6. Bromus cf. mollis	<u>UPL 5 4</u>									
1		7. Hordeum jubalum	<u>FAC 5 4</u>									
2		8. Lolium perenne	FAC 5 4									
۵		9. Vicia ci. disperma	NOL <u>t</u> t									
5.		10										
Other Hydrophytic Vegetation Criteria Met? YES	Indicators: NO 🛛 Comments: <u>A typical veg, due te</u>	o rodeo grounds operation. Would more than likely	be hydrophylic if there was no alypical									
Man Unit Name: 44A Conserv	silly clay toam	Drainane Class: poorly										
map on Name, 44A Obliger	Sity Clay Iobiti	Draillage Class. DUDIV										
On Hydric Soils List? Y 🛛 N	Has hydric inclusions? Y	N										
Depth Range Matrix of Horizon Color	Redox Concentra * abund./size/con	itions Redox Depletions trast/color/location (matrix or pores/peds)	Texture									
0 - 8 2.5yr 3	/2		SCL									
8 - 16 2.5 yr 3	3/1 10yr 7/8 C/M/D/m	natrix	SCL									
		·										
Hydric Soil Indicators: Histosol Sulfidic Odor Reducing Conditions (les Gleyed or low chroma co Redox features within 10	its positive) Co Or Iors Lis " (e.g., concentrations) Me Su	procretions/Nodules (w/in 3"; > 2mm) gh organic content in surface (in Sandy Soils) ganic streaking (in Sandy Soils) ganic pan (in Sandy Soils) sted on Hydric Soils List (and soil profile matches) eets hydric soil criteria 3 or 4 (ponded or flooded for upplemental indicator (e.g., NRCS field indicator):	r long duration)									
Criteria Met? YES 🔀	NO Comments: Soils primary detemi	inant of welland status.										
	HY	/DROLOGY										
Recorded Data	Aerial Photos	Other INo Recorded Data Availat	pie									
Field Data Depth of inundation: None	Depth to Saturation: None	Depth to free water: None										
Primary Hydrology Indicators: Secondary Hydrology Indicators (2 or more required): Inundated Oxidized Root Channels (upper 12") Saturated in upper 12 inches Water-stained Leaves Water Marks Local Soil Survey Data Drift Lines FAC-Neutral Test Sediment Deposits Other:												
Criteria Met? YES	NO 🔀 Comments: Hydrology not delect	table due to slight topographic rise from SP 23.										

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DETERMINATION

WETLAND? YES NO Comments: Plot establishes a typical wetlands adjacent to rodeo. Paried with SP23. Hydrology will need to be monitored if client wishes to provide evidence that wetlands aren't in this area.

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DEPARTMENT OF STATE LANDS WETLAND DETERMINATION DATA FORM-Full Method

County: <u>Doublas</u> Project/Contact: <u>Suther</u> Plant Community: <u>Ope</u> Plot location: <u>Plot is er</u> Recent Weather: <u>Mea</u> Do normal environ. co Has Vegetation S So Explain: <u>Ai</u>	erlin Parks/ Satre an Meadow ast of rodeo area n temp 66~degre nditions exist? Y il 🖾 Hydrology [rea affected by ve	File # <u>0349</u> Det. by: <u>Brian Meie</u> Plot # <u>SP37</u>	<u>ring/ Susie Holmes</u>					
<i></i>	1865999999999999999999999999999999999999	**************	10222772222	VEGE	TATION		الفاحة بالأخاص الأعد الأحديث الإحاجي الاحتيان الاحتيان	
<u>Tree Stratum</u> 1		Status/ Raw %	Cover/ Rel % (Cover	Herb Stratum 1. <u>Bare ground</u> 2.		Status/ Raw % Cor	ver/ Rel % Cover 100
3 Sapling/Shrub Straturr 1 2 3 4	1	Slatus/ Raw %	Cover/ Rel % (Cover	3 4 5 6 7 8 9 10			
5. Percent of Dominant <u>6</u> Other Hydrophytic Veg Criteria Met?	Species that are C getation Indicators YES NO [DBL, FACW, FAC s: Comments:	(not FAC-):	<u>%</u>	11			
Man Unit Nome: 44A (Concor cilly day h			sc	DILS	ninaga Class: poortu	a gara and diff and fore bolt gar and this gar and out gan bob out and fore this and are pape	
On Hydric Solls List?		<u>uain</u> Has hvdri	c inclusions?	Y [] N []	Die I	inage class. <u>poony</u>		
Depth Range of Horizon	Matrix Color		Redox Conc * abund./size	entrations e/contrast/	color/location (m	Redox Depletion natrix or pores/peds)	rs Texture	3
0-8	10yr 3/2		7.5YR 5/8 C	/M/D			SCL	
8 - 16	10yr 3/2		7.5YR 5/8 C	/F/D			CL	
							اليوني من المراجع من المراجع والمراجع والمراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع و المراجع المراجع والمراجع والمر المراجع والمراجع والم	
Hydric Soil Indicator Histosol Histic Epipedon Sulfidic Odor Reducing Condit Gleyed or low ch X Redox features w	s: ions (tests positiv roma colors vithin 10* (e.g., ce	e) oncentrations)		Concre High or Organic Organic Listed c Meets I Supple	tions/Nodules (w ganic content in c streaking (in Sa c pan (in Sandy t on Hydric Soils L nydric soil criteria mental indicator	<i>i/</i> in 3"; > 2mm) surface (in Sandy Soils) andy Soils) Soils) ist (and soil profile matche a 3 or 4 (ponded or floode (e.g., NRCS field indicator	rs) d for long duration)):	
Criteria Met? YI	ES 🛛 NO 🗌	Comments: §	Soils disturbed	within last	year but hydric	soil characteristics are evi	dent	
	≠₽₽₩₽₩₽₽₩₩₽©₩₽			HYDR	OLOGY	29222222228288288288		===================================
Recorded Data	ailable 🖾 Ac	erial Photos	🗌 Stream ga	uge	C Other	No Recorded Data Av	ailable	
Field Data Depth of inundation	: <u>None</u> D	lepth to Saturation	n: <u>None</u>	Dept	h to free water: <u>I</u>	None		
Primary Hydrology It Inundated Saturated in upper Water Marks Drift Lines Sediment Deposits Drainage Patterns	ndicators: 12 inches		Secondary [[[[[Hydrolog Oxidize Water-s Local S FAC-Ne Other:	y Indicators (2 c d Root Channels stained Leaves oil Survey Data eutral Test	or more required): s (upper 12")		
Criteria Met? YI	ES 🛛 NO 🗌	Comments: .						
				DETERN	NINATION	**************************************		

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WETLAND? YES NO Comments: Plot establishes atypical disturbed conditions within Eastern field. Best professional judgement provides evidence that wetlands are present on-site unless proven otherwise by hydrology monitoring.

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Ground Photo Point Locations: Sutherlin Festival Grounds

Legend

Photo Point Standard Plots Study Area

162.5 325 1 inch equals 325 feet

σ

325 Feel

Appendix C: Ground Level Color Photographs





PP1: Looking East across Plagiobothrys hirtus protection area



PP2: Looking SE towards SP6 and palustrine forsted ash stand.



PP3: Looking E from just N of SP26



PP4: Looking E from just E of SP27



PP4: Looking W from just E of SP27



PP5: Looking E from near center of field



PP6: Looking E from just SE of SP18



PP6: Looking NE from just SE of SP18



PP7: Looking E from just NE of SP18



PP8: Looking W from just N of SP17



PP8: Looking S from just N of SP17



PP9: Looking S from just just NW of SP20



PP9: Looking ESE from just just NW of SP20 (across SP20)



PP10: Looking W from just W of SP16



PP11: Looking W from SP9



PP12: Looking W along Sutherlin creek from footbridge

End February 6, 2007

Begin March 21, 2007



PP13: Looking W across SP1&SP2



PP14: Looking E along ditch (SP3 in foreground)



PP15: Looking E along property line just N of SP3



PP17: Looking E along the bottom of Sutherlin creek from SP34



PP18: Looking S over SP30 (Munsel book) and SP31 (Blue flag above fill)



PP19: Looking E from just S of SP25



PP20: Looking E across SP24(left center)



PP21: Looking E across SP18 (just right of center)



PP22:Looking WNW across SP13(blue left) and SP14(blue right)



PP24: Looking SW across SP12(foreground) and SP11(background)



PP26: Looking E across SP32 from SP33



	2008 Hydrology Monitoring Data														
Plot Number	Join	Installed yh	Depth of Pit	Soji Notes	Hydrology Indicators	Hydric S.	Depth to Hydric o	Siloc Star	Surface	Depth Of Sure	Water r (in) Water	Depth to San	Depth to Water r	Determinary	Notes Notes
1	1	N				Y									
4	1	N				v									
1	1	<u>N</u>				Y						·			
2	2	N	*****			Y	<u> </u>	·······							<u></u>
2	2	N	····		·	<u>Y</u>	<u></u>			<u>-</u> -					
2	2	<u>N</u>			<u>11-11-11-11-11-11-11-11-11-11-11-11-11-</u>	Y	····								argan meta ana ana ana ana ana ana ana ana ana a
3	3	N				Y									
3	3	N				Y									an a
3	. 3	N				Y									
4	4	N		unreally and a state of some		Y	•••								
Δ	4	N			9 / Januari 10 (Transfeld al 17) anno 100 anno 107 anno 107 anno 107 anno 117 anno 117 anno 117 anno 117 anno 1	v									
4		N.	**************************************		{	· · · ·									
	= +	jin j	1711		· · · · · · · · · · · · · · · · · · ·	V V		2/20/2008					16.08		
		. Ү 			None	<u> </u>		2/20/2008	<u></u>	IN/A	<u> </u>		10,0		Irregular saturation due to fill, 6"
5	5	Ŷ	16"	````````````````````````````````````	water within 12"	<u>Y</u>		2/26/2008	<u>N</u>	<u>_N/A</u>	<u>Y</u>	6.0"	15.0"	<u>Y</u>	nearest to surface
5	5	Y]	17"		water within 12"	Y	•	3/4/2008	N	N/A	Y	6.0"	7.0"	<u>Y</u>	
6	6	N.				<u> </u>									
66	6	Y	12"		None	Y		2/26/2008	N	N/A	<u>N:</u>	NONE	N/A	N	Refusal at 12"
66	6	Y	16"		None	Y		3/4/2008	N	N/A	N	NONE	N/A	N	Extremely hard fill
<u> </u>	7	N				Y									
7	7	N				Y									
7	7	Y	20"		water marks	Y		3/4/2008	N	N/A	Y	16"	16.5"	N	Same as SP10, appears to be irregularly inundated during storm events-swater marks. Used BPJ,
8	8	N				Y									
8	8	N				Y									
8	8	N		}		Y									· · · · · · · · · · · · · · · · · · ·

Suthenin Festival Grounds Welland Delineation Report

	2008 Hydrology Monitoring Data													
Plot Number	Join Installed	Depth of Pit	Soil Notes	Hydrology Indicators	Hydric .	Depth to Hydrin C	DATE Doils	Surface	Depth Of Sheer yh	Water L. (in) Water	Depth to Sat	Depth to Water r	Determiners	Notes Woles
9	9 N				Y			•						
9	9 N				Y									
9	9 N				Y									
10	10 N				Y									
10	10 N	πτη διαμουτική προγραφική το μετά με το που πορολογιστική τη μετά τη τη τη μετά τη		a an internet and a second and a second and a second second second second second second second second second s	Y						· ·			
10	10. N				Y		·							
11	11 Y	15°		None	Y		2/20/2008	N	N/A	Y		13.0"	?	
11	11 Y	16"		water within 12"	Y		2/26/2008	N	N/A	Y	12.0"	13.0"	Y	
11	<u>11</u> Y	16"		water within 12"	Y		3/4/2008	N	N/A	Y	1:1*	12"	Y	
12	<u>12</u> Y	16"		None	Y		2/20/2008	N	N/A	N	NONE	N/A	N	
12	12 Y	16"	-	None	Y		2/26/2008	N	N/A	N	NONE	N/A	N	
12	12 Y	16"	·	None	Y		3/4/2008	N	N/A	N	NONE	N/A	N	·
13	13 N				Y					`				******
13	13 N				Y									
13	13 N				Y									
14	14 N				Y								17 74 - 1414 - 1774 - 1414 - 1414 - 1414 - 1414 - 1414 - 1414 - 1414 - 1414 - 1414 - 1414 - 1414 - 1414 - 1414	
14	14N				Y									
14	14 N				Y									
15	15 N				Y									
15	15 N				Ŷ									
15	15 N		T		Y									
16	16 N	s -	7		Y									من مقال المراجع المالية (ما المراجع الم
16	16 N				Y									
16	16 N				Y									
		10 0000 0 0000 1 000 1 0000 1 0000000000		-								Sul	unila Festi	val Grounds Welland Delineation Report

2008 Hydrology Monitoring Data

Plot Number	Join	Installed yin	Depuli of Pit	Soil Notes	Hydrology Indicators	Hydric o	Depth to Hydri	DATE	Surfac	Depth Of Succe Vin	Water (in) Water	Depth to c	Depth to Water -	Determin	Noles Noles
17	17 N					v									
17	17 N		999			v									الله المراجع المالية ومن المالية ومن المالية ومن المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع
47	47					v v		-					·	•	
17			**************************************		· · · · · · · · · · · · · · · · · · ·			-							
18	<u>18 N</u>					<u> </u>					•				
18	<u>18 N</u>			**************************************		<u> </u>								<u></u>	
18	<u>18 N</u>					Y	 	\ 						<u></u>	
19	<u>19 N</u>				·	<u> </u>	<u></u>								
19	<u>19 N</u>					Y	<u> </u>	-							
19	19 N					<u>Y</u> .	<u> </u>								paired with H21 and previous plot
20	<u>20</u> Y	r	12"	**************************************	water within 12"	Y	 	2/20/2008	<u>Y</u>	0.01"	Y	surface	surface	<u>Y</u>	data paired with H21 and previous plot
20	20 Y	,	16"		water within 12"	Y	· ·	2/26/2008	<u>N</u> .	N/A	Y	0"	0.5"	<u>Y</u>	data
20	<u>20</u> Y		16"		water within 12"	Y		3/4/2008	Y	0"	<u>Y</u>	surface	surface	<u>Y</u>	data
21	21 Y	,	16"		water within 12"	Y		2/20/2008	N	N/A	Y	7"	12.0"	Y	paired with 1420
21	<u>21</u> Y	,	16"	·	water within 12"	Y		2/26/2008	N	N/A	Y	6.0"	7.0"	Y	paired with H20
21	21 Y	,	16"		water within 12"	Y		3/4/2008	N	N/A	Y	8.0"	10"	Y	paired with H20
22	<u>22</u> Y	,	16"		water within 12"	Y		2/20/2008	N	N/A	Y		8.0"	Y	
22	<u>22</u> Y	,	16"		water within 12"	Y		2/26/2008	N	N/A	Y	2.5"	5.0"	Y	
22	<u>22</u> Y	,	16"		water within 12"	Y		3/4/2008	N	N/A	Y	2.0"	5.0"	Ŷ	
23	23 Y	,	16"		water within 12"	Y	· ·	2/20/2008	N	N/A	Y		12.0"	Y	
23	23 Y	r	16"	*	water within 12"	Y		2/26/2008	N	N/A	Y	3.5"	5.5"	Y	
23	23 Y		16"		water within 12"	Y		3/4/2008	N	N/A	Y	10",	13"	Y	
24	24 Y	,	16"		water table within 12"	Y		2/20/2008	N	N/A	Y	6.0"	14.5"	Y	
24	24 Y		16"		Inundation	Y		2/26/2008	N	N/A	Ŷ	0.5"	0.5"	Y	-
24	24 Y	,	16"		Inundation	Y		3/4/2008	N	N/A	Y	7"	10"	Y	3" STANDING WATER 6" EAST OF HOLE

Sutherlin Festival Grounds Wetland Delineation Report

	2008 Hydrology Monitoring Data													
Plot Number	Join Installed	Depth of Pit	Soil Notes	Hydrology Indicators	Hydrie c.	Depth to Hydric D	DATE DATE	Surface	Depth Of Suiter yh	Water I (in) Water	Depth to Sar	Depth to Water r	Determin-	Noles Moles
25	25 Y	23"	445945949945555574745555747	None	Y		2/20/2008	N	N/A	Y		22.5"	Y	10" Fill, Check saturation
25	25 Y	16"		water within 12"	Y		2/26/2008	'N	N/A	Y	15.0"	16.0"	Y	FILL
25	<u>25</u> Y	16"		water within 12"	Y		3/4/2008	N	N/A	Y	15.0"	16.0"	Y	Measured from top of hole. 10" OF
26	<u>26</u> Y	16"		inundation	Y		2/20/2008	Y	1.5"	N/A	N/A	N/A	Y	within arena
26	<u>26</u> Y	16"		inundation	Y		2/26/2008	Y	1.0"	N/A	N/A	N/A	Y	within arena
26	<u>26</u> Y	16"	****	inundation	Y	•	3/4/2008	Y	2.0"	<u>N/A</u>	N/A	N/A	Y	within arena
27	<u>27</u> Y	16"		None	Y		2/20/2008	Ň	N/A	Y		15.5"	?	content
27	<u>27</u> Y	16"		water within 12"	Y	·	2/26/2008	N	N/A	<u>Y</u>		3.0"	Y	content
27	<u>27</u> Y	16"		water within 12"	Y		3/4/2008	N	N/A	Y	1.0"	3.0"	Y	content
28	<u>28</u> Y	16"		water within 12"	Y		2/20/2008	N	N/A	Y		9.5"	Y	
28	<u>28</u> Y	16"		water within 12"	Y		2/26/2008	N	N/A	<u>Y</u>		9.5"	Y	
28	<u>28</u> Y	16"		water within 12"	Y		3/4/2008	N	N/A	Y		10"	Ý	
29	<u>29</u> Y	16"		water within 12"	Y		2/20/2008	N	N/A	<u>Y</u>		10.5"	Y	
29	<u>29</u> Y	16"		water within 12"	Y		2/26/2008	N	N/A	<u>Y</u>		8.0"	<u>Y</u>	
29	<u>29</u> Y	16"		water within 12"	Y		3/4/2008	N	N/A	<u>Y</u>	4"	6"	<u>Y</u>	
30	30 Y	16"		water within 12"	Y		2/20/2008	N	N/A	Y		11.5"	Y	
30	30 Y	16"		water within 12"	Y		2/26/2008	N	N/A	Y		3.5"	Ŷ	
30	<u>30</u> Y	16"		water within 12"	Y		3/4/2008	N	N/A	<u>Y</u>	surface	2"	Y	
31	<u>31</u> Y	16"		None	Y		2/20/2008	N	N/A	Y		13.0"	?	
31	<u>31</u> Y	16"		water within 12"	<u>Y</u>		2/26/2008	N	N/A	<u>Y</u>		3.0"	Y	• • • • • • • • • • • • • • • • • • •
31	<u>31</u> Y	16"		water within 12"	Y		3/4/2008	N	N/A	Y	surface	2"	Y	
32	<u>32</u> Y	16"		None	Y		2/20/2008	N	N/A	Y		19.5"	?	-
32	<u>32</u> Y	16"		None	Y		2/26/2008	'N	<u>N/A</u>	N	N/A	N/A	N	a nigitar militiki kana manana man
32	32 Y	16"		None	Y		3/4/2008	N	N/A	<u>Y</u>	15 <u>"</u>	18"	N	
33	33 N		*****		Ý	-			<u> </u>					

Sutherlin Festival Grounds Wetland Delineation Report

<u></u>	2008 Hydrology Monitoring Data													
¹¹ ber		¹ Yuh	'gy Indicators		o Hydrin C	us voils		Water yin	(in) Water	n Pilyin o o	o Water F	burface Trom	uation Y _N	
Plot Niu	loin Install_	Depth o	Soil No	Hydrol	Hydrie	Depth t	DATE	Surface	Depth (Water ,	Depth t	Depth t	Determ	Notes
33	33 N		/ v		Y			[
33	33 N. 34 N				Y	=								
34	34 N		· · · · · · · · · · · · · · · · · · ·		Y									
35	34 N	16"		saturation within 12"	Y		2/20/2008	N	N/A	Y	8.0"	16.0"	Y	Clay soils draw water upward a great deal
35	35 N				Y									Not Sampled
35	<u>35</u> Y	16"		water within 12"	Y.		3/4/2008	N	N/A	Y	<u>3"</u>	<u>5"</u>	Y	
36	36 Y	20"		None	Y		2/20/2008	N	N/A	N	N/A	N/A	N	west extent of wetland
36	36 N				Y									Not Sampled
36	<u>36</u> Y	20"		None	Y		3/4/2008	N	N/A	N	N/A	N/A	N	paired with H35 to determine east west extent of wetland
37	<u>37</u> Y	16"		water within 12"	Y		2/20/2008	N	N/A	Y		7.0"	Y	
37	<u>37</u> Y	16"		water within 12"	Y		2/26/2008	N	N/A	Y		5.5"	<u>Y</u>	
37	<u>37</u> Y	16"		water within 12"	Y	<u></u>	3/4/2008	N	N/A	<u>Y</u> .	4.5"	6.0"	Y	
38	<u>38</u> Y	16"		None	Y		2/20/2008	N	N/A	N		<u>N/A</u>	N	
38	<u>38</u> Y	16"	-	None	Y		2/26/2008	N	N/A	<u>N</u>	N/A	N/A	N	
38	<u>38</u> Y	16"		None	<u>Y</u>		3/4/2008	N	N/A	N	N/A	N/A	N	
39	<u>39</u> Y	16"		None	Y		2/20/2008	N	N/A	Y		16,5"	?	
39	<u>39</u> Y	16"		None	Y		2/26/2008	N	N/A	N	N/A	N/A	N	
39	<u>39</u> Y	16"		None	Y		3/4/2008	N	N/A	N	14"	16.5"	N	. <u> </u>
40	<u>40</u> Y	16"		water within 12"	<u>Y</u>		2/20/2008	N	N/A	<u>Y</u>		10.0"	Y	
40	<u>40</u> Y	<u>16"</u>		water within 12"	Y		2/26/2008	N	N/A	<u>Y</u>		4.5"	<u>Y</u>	
40	40 Y	16"		water within 12"	<u>Y</u>		3/4/2008	N	N/A	Y	3"	4"	Y	
41	97 Y	8"	**	None*	N		2/20/2008	N	N/A	N	N/A	N/A	N	Same SP24; levce fill slope
41	97 Y	16"		None			2/26/2008	N	N/A	N	N/A	N/A	N	Same SP24
41	97 N												N	Same SP24, Levee fill slope.
42	<u>98</u> Y	16"		Data	<u>Y</u>		2/20/2008	N	N/A	<u>N*</u>			?	Same as SP25; "Allow to fill Visit 2
42	98 Y	16"		Drainage Patterns/See Veg Data	Y		2/26/2008	N	N/A.	N	N/A	N/A	?	be dry due to vehicle compaction of surrounding soils?
				ومحجرة الانتفاعه الالانتفاعية الالتحصيلة فاعتبر المحصورة محصية المحصرة المحصر										······

Sutherlin Festival Grounds Wotland Delineation Report

2008 Hydrology	Monitoring Data

Plot Number	Join Installes	Depth of Pit	Soil Notes	Hydrology Indicators	Hydric c.	Depth to Hydric	DATE DATE	Surface	Depth Of Saler yra	Water , (in)	Deputy to c	Depth to Water r	Determin-	Notes Woles
42	<u>98</u> Y	16"		Drainage Patterns/See Veg Data	Y		3/4/2008	N	N/A	<u>N</u>	N/A	N/A	?	Visible surface water marks, pit may be dry due to vehicle compaction of surrounding soils?
43	<u>43</u> Y	. <u>7"</u>		Inundation	<u>Y</u>		2/20/2008	Y	2"	Y	surface	surface	Y	Same as SP29; single observation ok
43	N					**		<u></u>						No need to redo (Plot at base of ditch)
	<u>44</u> Y	16"		water within 12"	<u>Y</u>		2/26/2008	N	N/A	Y	3.0"	3.5"	Y	Flagged, 25' @ 180 from H32
44	<u>44</u> Y	16"		water within 12"	Y		3/4/2008	N	N/A	Y	3.5"	6"	Y	Flagged, 25' @ 180 from H33
45	<u>45</u> Y	16"		None	<u>Y</u>		2/26/2008	N	N/A	N	13.0"	N/A	N	Not flagged, 20' @ 240 from H32
45	45 Y	16"		water within 12"	Y		3/4/2008	N	N/A	Y	6"	9"	Y	Not flagged, 20' @ 240 from H33
46	<u>46</u> Y	16"		None	Y		2/26/2008	N	N/A	N	N/A	N/A	N	Not flagged, 28' @ 180 from H38
46	<u>46</u> Y	24"		None	Y		3/4/2008	N	N/A	Y	19"	21"	N	loam
47	<u>47</u> Y	<u>16"</u>		None	Y		2/26/2008	N	N/A	N	N/A	N/A	N	Not flagged, 38'@ 360 from H38
47	47 Y	16"	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	None	Y		3/4/2008	N	N/A	N	N/A	N/A	N	probable 12" sandy loam fill
48	<u>48</u> Y	16"		water within 12"	Y	***	3/4/2008	N	N/A	Y	6"	8"	Y	Not flagged, 32' @ 90 from H39
48	<u>48</u> Y	16"		water within 12"	Y		2/26/2008	N	N/A	Y	10.5"	11.0"	Y	Not flagged, 32' @ 90 from H39
49	<u>49</u> Y	16"		water within 12"	Y		2/26/2008	N	N/A	Y	11.0"	12.0"	Y	Not flagged, 35' @ 144 from H28
49	49 Y	16"		water within 12"	Y		3/4/2008	N	N/A	Y	11"	12"	Y	Not flagged, 35' @ 144 from H28
50	50 Y	16"		None	Y		2/26/2008	N	N/A	N	N/A	N/A	N	due west from ash tree
50	50 Y	16"		None	Y		3/4/2008	N	N/A	Y	15"	16"	N	sandy loam
51	51 Y	16"		water within 12"	Y		2/26/2008	N	N/A	<u>Y</u>	6.0"	15.0"	Y	Not flagged, 28' @ 180 from 1498
51	<u>51</u> Y	16"		water within 12"	<u>Y</u>		3/4/2008	<u>n</u>	N/A	Y	6"	16"	Y	8' @ 360 from H20, immediately
52	52 Y	16"		water within 12"	Y		2/26/2008	N	N/A	Y	7.0"	8.0"	Y	north of here it begins to slope up and refusal
52	52 Y	16"		water within 12"	Y		3/4/2008	N	N/A	Y	4 ¹¹	6"	Y	
53	53 Y	16"		water within 12"	Y		2/26/2008	N	N/A	Y	10.0"	12.5"	Y	82' @ 270 from H20 & due south of telephone pole
53	53 Y	16"		water within 12"	Y		3/4/2008	N	N/A	Y	7"	9"	Y	

Sutherlin Festival Grounds Wetland Delineation Report

Plot Number	Join Installed y/n Depth of Pit	Soil Notes	Hydrology Indicators	Hydrico	Depth to Hydric	DA TE	Surfa	Depth Of Such	Water r (in)	Depth to Sec.	Depth to Water	Surface From	Notes Villa
54	54 Y <u>16"</u>		None	Y		2/26/2008	N	N/A	Y	14.0"	15.5"	N	105' @ 270 trom H20
54	<u>54</u> Y <u>16"</u>		water within 12"	Y		3/4/2008	N	N/A	Y	12"	12.5"	• N	Borderline saturation/used BPJ
55	55 V 16"		Nous	v		2/26/2008	N	NT/A	v	10.04	12.0	v	Used BPJ. 82' @ 270 from H21 & due south of telephone pole, begin
55	55 Y 16"		water within 12"			3/4/2008	N	N/A	1 Y	6"	8"	Y Y	to stope up west nom here into
56	56 y 20"		None	Y		3/4/2008	N	N/A	N	N/A	N/A	N	n
57	. 57 Y 20"		water within 12"	Y		3/4/2008	N	N/A	Y	4"	6"	Y	Same as SP20
58	58 Y 16"		None	Y		3/4/2008	N	N/A	Y	10"	11"	Y	Tip of "duckbill" wetland near Soccer field

WETS Station : SUTHERLIN 4 NE, OR8260

Start 07 Water Year

*OBSERVED INCHES ARE FROM ROSEBURG CXUS56 KMFR 051000CF6RBG PRELIMINARY LOCAL CLIMÁTOLOGICAL DÁTA (WS FORM: F-6)

Year	2006	2006	2006	2007	2007	2007	2007	2007	2007	2007	2007	2007
Month	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Observed (in.)	1.04	8.55	6.92	3.23	4.23	1.9	2.19	0,91	0.36	0.51	0,96	1.17
Average (in.)	2.98	6.33	6,25	5.73	5.46	4.22	3.53	2.66	1.43	0.64	0.78	1.32
Normal Variation	1.60-3,63	4.36-7.54	3.86-7.57	3.73-6.88	3.71-6.52	3.28-4.88	2.5-4.18	1,70-3,20	0.83-1.74	0.19-0.76	0,04-0,84	0.44-1.65
Percent of Average	34.9%	135.1%	110.7%	56.4%	77.5%	45.0%	62.0%	34.2%	25.2%	79.7%	123.1%	88.6%
Water YTD AVG	34.9%	103.0%	106.1%	92.7%	89.6%	83.5%	81.3%	6 78.0%	76.0%	76.1%	77.0%	77.4%

Min. Variance	1.6	4,36	3.86	3.73	3.71	3.28	2.5	1.7	0.83	0.19	0.04	0,44
Max Variance	3.63	7.54	7.57	6,88	6,52	4.88	4,18	3.2	1.74	0.76	0.84	1.65

Below Bar	1.38	1.97	2.39	2	1.75	0.94	1.03	0.96	0.6	0.45	0.74	0.88
Above Bar	0.65	1.21	1.32	1.15	1,06	0.66	0.65	0.54	0.31	0.12	0.06	0.33

Start 08 Water Year

OBSERVED INCHES ARE FROM ROSEBURG CXUS56 IXMFR 051000CF6RBG PRELIMINARY LOCAL CLIMATOLOGIC AL DATA (WS FORM: F-6)

2007	2007	2007	2008	2008	2008	Water Year
Oct	Nov	Dec	Jan	Feb	Mar(04)	2008
3.7	4.27	5.82	8,73	1,84	0,15	24.51
2.98	6.33	6,25	5.73	5,46	4,22	30.97
1.60-3.63	4,36-7.54	3.86-7.57	3,73-6.88	3.74-6.52	3.28-4.88	
124.2%	· 67,5%	93,1%	152.4%	33,7%	3.6%	79,1%
124.2%	85.6%	88.6%	105.8%	91.1%	79.1%).

	.6	4,36	3.86	3.73	3.71	3.28
3.	.63	7.54	7.57	6.88	6.52	4,88

1.38	1.97	2.39	2	1.75	0.94
0.65	1.21	1.32	1.15	1.06	0.66





Appendix E: Literature Cited

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