WETLAND DETERMINATION REPORT

FOR THE

SOUTHEAST 40TH SITE

Prepared for:
Firestone Pacific Developing
C/O Stan Firestone
P.O. Box 61928
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360-772-3445

Prepared by:
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October 18, 2007

ELS Project Number 1543.02

SIGNATURE PAGE

The information and data in this report were compiled and prepared under the supervision and direction of the undersigned.

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Biologist

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Biologist/ Project Manager

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INTRODUCTION

Ecological Land Services, Inc. (ELS) has completed a wetland determination for Firestone Pacific Developing on an approximately 11-acre site located at 20305 S.E. 40th Street in the City of Camas, Clark County, Washington (Figure 1). The site consists of four parcels (tax parcel numbers 125646-000, 125645-000, 125634-000, and 125635-000) located in the Northwest 1/4 of Section 8, Township 1 North, Range 3 East of the Willamette Meridian. The site was investigated for the presence of critical areas on October 5, 2007 in accordance with Camas Municipal Code (CMC 16.50). the property boundaries have not been professionally surveyed.

SITE DESCRIPTION

Much of the subject site is pastureland with a few scattered trees. Site topography generally slopes south and west, with the lowest point being a man-made ditch in the southwestern region of the site. A single family residence is located in the northwestern region of the site (Figure 2). Surrounding land uses include residential homes to the east and west, NE 40th Street to the north and a functionally isolated wetland to the south. The residence is accessed by a paved driveway from Southeast 40th Street and a gravel driveway off of 202nd Court. A private road, 202nd Court, bisects the property and runs the entire length of the property from north to south. An aboveground water conveyance pipe, located near the southern property boundary in the eastern parcel, transports water draining from a neighboring development to the east. The pipe is approximately 320 feet long on-site, extending from the eastern property boundary to 202nd Court.

METHODS

The wetland determination completed by ELS followed the Routine Determination Method for delineating wetlands according to the U.S. Army Corps of Engineers, *Wetlands Delineation Manual* (Environmental Laboratory 1987) and the Washington State Department of Ecology, *Washington State Wetlands Identification and Delineation Manual* (1997).

The Routine Determination Method examines three parameters—vegetation, hydrology, and soils—to determine if wetlands exist in a given area. Hydrology is critical in determining what is wetland but is often difficult to assess because hydrologic conditions can change periodically (hourly, daily, or seasonally). Consequently, it is necessary to determine if hydrophytic vegetation and hydric soils are present, which would indicate that water is present for long enough duration to support a wetland plant community. By definition, wetlands are those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands are regulated as "Waters of the United States" by the U.S. Army Corps of Engineers (USACE), as "Waters of the State" by the Department of Ecology (DOE), and locally by Clark County.

ELS evaluated the property for wetlands on October 5, 2007. Vegetation, hydrology, and soil data were collected from six test plots. Test plots were chosen randomly throughout the property in order to verify the absence of wetland hydrology, soils, and vegetation.

VEGETATION

Dominant vegetation observed within the perimeter of test plots are listed below. The indicator status, following the common and scientific names, indicates how likely a species is to be found in wetlands. Listed from most-likely to least-likely to be found in wetlands, the categories are:

- OBL (obligate wetland) occur almost always (estimated probability >99%) under natural conditions in wetlands.
- FACW (facultative wetland) usually occur in wetlands (estimated probability 67%-99%), but occasionally found in non-wetlands.
- FAC (facultative) equally likely to occur in wetlands or non-wetlands (estimated probability 34%-66%).
- FACU (facultative upland) usually occur in non-wetlands (estimated probability 67%-99%), but occasionally found in wetlands (estimated probability 1%-33%).
- UPL (obligate upland) occur almost always (estimated probability >99%) under natural conditions in non-wetlands.
- NI (no indicator) insufficient data to assign to an indicator category.
- A positive (+) or negative (-) sign, when used with indicators, attempts to more-specifically define the frequency of occurrence in wetlands. The positive sigh indicates "slightly more frequently found in wetlands: and the negative sign indicates "slightly less-frequently found in wetlands".

On-site vegetation included tall fescue (Festuca arundinacea, FAC-), velvet grass (Holcus lanatus, FAC), English plantain (Plantago lanceolata var. lanceolata, FAC), northern bentgrass (Agrostis borealis, FACU).

SOILS

On-site soil types are mapped as Hesson clay loam, 0-8 percent slopes (HcB), Olympic stony clay loam, 3-30 percent slopes (OmE) and Powell silt loam, 8-20 percent slopes (PoD; Figure 3). Hesson clay loam is a well drained soil occurring on high ridges along mountain foot slopes. Olympic stony clay loam is a well drained soil that occurs on ridgetops, on long side slopes, and on short slopes along drainage. Powell silt loam is a somewhat poorly drained soil that occurs on long, smooth side slopes below ridges and on foot slopes (NRCS 2006). None of the soils mapped on-site by the NRCS are listed as hydric in Clark County.

Soils observed on-site generally agreed with the mapped soil series. No hydric soils were located on-site during site investigation.

Mapped hydric soils do not necessarily mean that the area is a wetland; hydrology, wetland vegetation, and hydric soils must all be present to classify an area as a wetland. Conversely, wetlands may be found in areas where the soils are not mapped as hydric.

HYDROLOGY

Soils on the subject site did not display primary or secondary hydric soil indicators above 10 inches below ground surface (BGS) as described in the USACE 1987 Wetlands Delineation Manual. Significant redoximorphic features, including oxidized root channels and/or Iron or

Manganese concretions were not observed in test holes to a depth of 16 inches BGS. Site topography generally sloped to the south with few or no depressional areas to trap water. Mottles were observed in some test plots; however, they are likely relic due to the absence of evidence of recent hydrology in the form of oxidized channels of living roots.

A Type N (non fish-bearing) stream is mapped off-site to the south by Washington Department of Natural Resources Stream Type Mapping (Figure 6). As mapped, the stream originates off-site to the east from the current location of a single family residence. This discrepancy is likely due to a mapping error An above-ground pipe was located on-site near the southern property boundary and drains beneath 202nd Court into a man-made ditch in the western region of the property. DNR Stream Type maps are created on a large scale and can be inaccurate due to a lack of ground-truthing. There is an adjacent wetland south of parcel 125635-000 with a functionally isolated buffer, due to the existing gravel road. No wetland buffer will extend onto the site.

NATIONAL AND LOCAL WETLANDS INVENTORIES

The National Wetlands Inventory (NWI) map did not show any wetlands on or adjacent to the subject site. ELS agrees that no wetlands are located on-site (Figure 4). As a cautionary note, National Wetlands Inventory map information should be used with discretion because they are used to gather general wetland information about a regional area; therefore, they are limited in accuracy for smaller sites because of their large scale.

The Clark County Wetland Inventory maps does not show any wetlands on or adjacent to the subject site. ELS agrees no wetland were located on-site (Figure 5).

CLARK COUNTY CRITICAL AREAS MAPPING

The Clark County Priority Species-Habitat map shows a Riparian Habitat Conservation Area designated within the buffer of the mapped stream (Figure 5). ELS does not concur with the location of the mapped stream as shown encroaching within the site boundary. It is possible that a type Ns stream is located south of the site; ELS has not conducted field reconnaissance outside the site boundaries.

CONCLUSIONS

ELS found no jurisdictional wetlands on the subject site. The upland areas investigated were dominated by facultative (FAC) and facultative upland (FACU) herbaceous vegetation. There were no hydrologic indicators present within 10 inches BGS in the form of redoximorphic features, oxidized root channels, and/or concretions. The soils mapped and observed on-site were not hydric.

Buffers

No wetlands or streams are present on-site. The wetland and stream located south of the subject site are functionally isolated by a gravel road. CMC states that pre-existing roads are excluded from the buffer, terminating the buffer to the south (CMC 16.60.040 (B)(4)(b)(i)).

LIMITATIONS

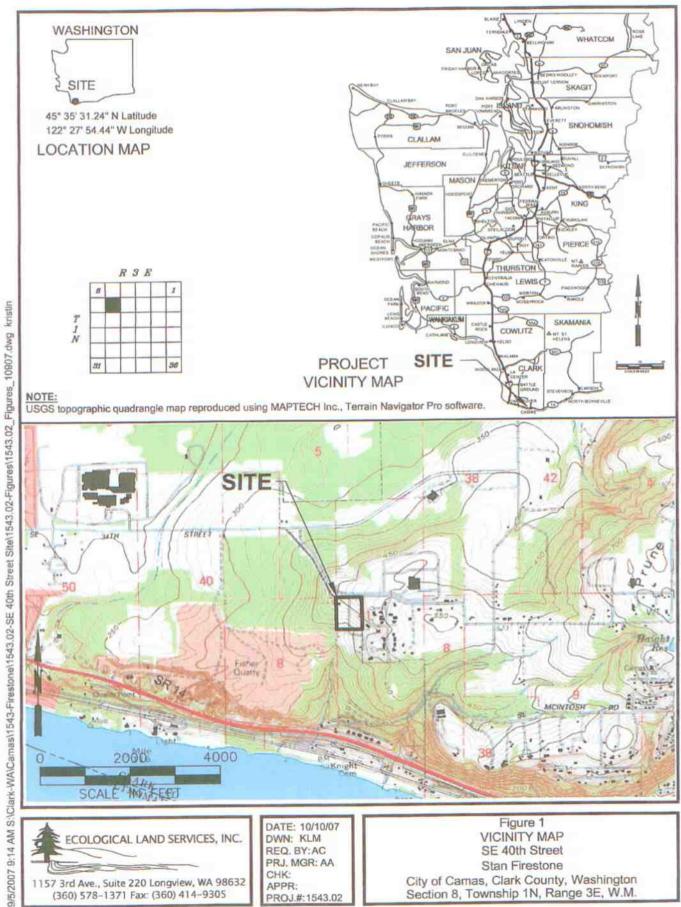
We base the above listed determinations and conclusions on standard scientific methodology and best professional judgment. In our opinion, the conclusions should agree with local, state, and federal regulatory agencies. However, it should be considered a Preliminary Jurisdictional Determination and used at your own risk until it has been reviewed and approved in writing by the appropriate regulatory agencies.

REFERENCES

- Camas Municipal Code. http://bpc.iserver.net/codes/camas/index.htm. Accessed October 2007.
- Clark County Geographic Information System website. http://gis.clark.wa.gov/applications/gishome/index.cfm. Accessed October 2007.
- Environmental Laboratory, 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1. U.S. Army Waterways Experiment Station, Vicksburg, Mississippi.
- Hruby, T. 2006. Washington State Wetland Rating System for Western Washington Revised. Washington State Department of Ecology Publication #04-06-025.
- Soils Conservation Service. 2006. Hydric Soils for Washington. Online documenthttp://soils.usda.gov/soils_use/hydric/states/wa.htm. Accessed October 2007.
- U.S.D.A. Natural Resources Conservation Service website for Clark County. Accessed October 2007. http://www.or.nrcs.usda.gov/pnw_soil/washington/wa015.html.
- Washington State Department of Ecology. 1997. Washington State Wetlands Identification and Delineation Manual. Publication #96-94. Olympia, Washington.

Appendix A

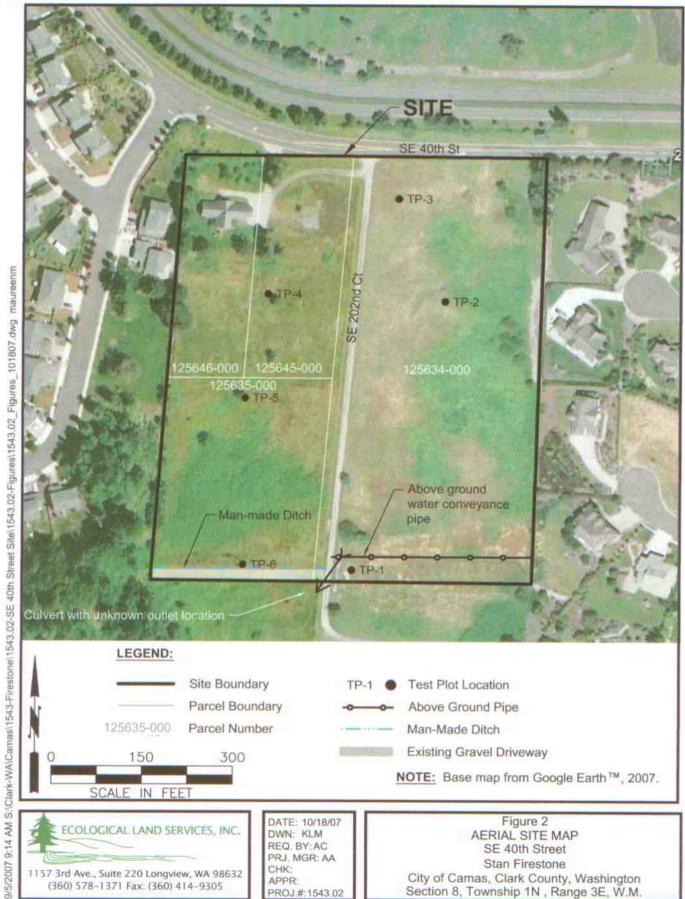
Figures





DATE: 10/10/07 DWN: KLM REQ. BY: AC PRJ. MGR: AA CHK: APPR: PROJ.#:1543.02

Figure 1 VICINITY MAP SE 40th Street Stan Firestone City of Camas, Clark County, Washington Section 8, Township 1N, Range 3E, W.M.





DATE: 10/18/07 DWN: KLM REQ. BY: AC PRJ. MGR: AA CHK: APPR: PROJ.#:1543.02

Figure 2 AERIAL SITE MAP SE 40th Street Stan Firestone City of Camas, Clark County, Washington Section 8, Township 1N, Range 3E, W.M.

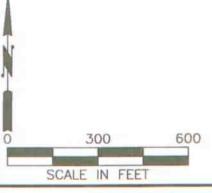
PoB - Powell silt loam, 0 to 8 percent slopes. Not hydric.

PoD - Powell silt loam, 8 to 20 percent slopes. Not hydric.

PoE - Powell silt loam, 20 to 30 percent slopes. Not hydric.

HcB - Hesson clay loam, 8 to 20 percent slopes. Not hydric.

OmE - Olympic stony clay loam, 3 to 30 percent slopes. Not hydric.



NOTE: Map provided on-line by NRCS at web address: www.wa.nrcs.usda.gov/pnw_soil/wa_reports.html



DATE: 10/9/07 DWN: KLM REQ. BY: AC PRJ. MGR: AA CHK: APPR: PROJ.#:1543.02 Figure 3
SOIL SURVEY MAP
SE 40th Street
Stan Firestone
City of Camas, Clark County, Washington
Section 8, Township 1N, Range 3E, W.M.



DWN: KLM REQ. BY: AC PRJ. MGR: AA CHK: APPR: PROJ.#:1543.02 NATIONAL WETLANDS INVENTORY MAP SE 40th Street Stan Firestone City of Camas, Clark County, Washington Section 8, Township 1N, Range 3E, W.M.







Wetlands



Hydric Soils



Clark County Species-Habitat



Riparian Habitat Conservation Area

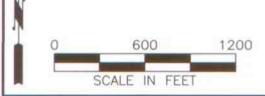


Clark County Topography



Topographic Contours





NOTE: Map provided on-line by Clark County, Washington at web address: http://gis.clark.wa.gov/gishome/property



DATE: 10/18/07 DWN: KLM REQ. BY: AC PRJ. MGR: AA CHK: APPR: PROJ#:1543.02 Figure 5
SENSITIVE & HABITAT AREAS MAP
SE 40th Street
Stan Firestone
City of Camas, Clark County, Washington
Section 8, Township 1N, Range 3E, W.M.



DATE: 10/10/07 DWN: KLM REQ. BY: AC PRJ. MGR: AA CHK: APPR: PROJ.#:1543.02

Figure 6 DNR STREAM TYPING MAP SE 40th Street Stan Firestone City of Camas, Clark County, Washington Section 8, Township 1N, Range 3E, W.M.

Appendix B

Routine On-site Wetland Determination Data Forms



1157 3rd Avenue, Suite 220, Longview, Washington 98632 (360)578-1371 FAX (360)414-9305 DATA FORM - Routine Onsite Wetland Determination 1987 COE Wetlands Delineation Manual 1997 Washington State Delineation Manual

									contention (vianua)			
Project Site: SE		Date: 10/5/07 Project #: 1543.02										
Applicant/Owne		County/State: Clark, WA Sec/Town/Range: S08, T1N, R3E										
Test Plot Locati	on: E of SE	202nd Ct.in southern r	egion		Sec/Town/I	Cang	e: S08,	11N, R3E				
Do normal circu	marke was a sel	et at the circ?			Myw	Tr	ING	107	D. 200			
				_								
		bed (atypical situatio	n)7		Yes Yes		No No	The second second second	munity ID:			
Is the site a pote	ntiai probien	i area?			L 1 cs	1 6	SINO	Iran	sect ID:			
Dominant Plant		, sapling, shrub, woo	dy vine, herb) Scientific	e Name				Strata	% Cover Inc	licator Status		
Trailing black		Rubus urs		, , , , , , , , , , , ,				Herb	20	FACU		
2. Tall fescue	outy		rundinacea				_	Herb	10	FAC-		
Velvet grass*		Holcus la					_	Herb	20	FAC		
4. Northern bents	racc*	Agrostis b					_	Herb	40	FACU		
5. Canadian thist		Cirsium a					_	Herb	10	FACU+		
6.	16	X-tr31um u	VERIAL:				_	ricio.	10	TACUT		
7.							_					
8.							_					
Other species pre	initia This is the total	Timure in Turn e triangres										
	minant specie	s per the 50/20 rule.							Vegetation Criteria	a Met? □Yes ⊠No		
HYDROLOGY Recorded data at Is it the growing Is site inundated Depth of surface Depth to free was Depth to saturate Remarks:	Type(s): Wetland Hydrology Indicators											
Field observation	roup): <u>Claye</u> us confirm m	r loam (HcB) ry, kaolinitic, mesic Xo apped soil type? ⊠Y				Ī	Drainage	Class:	Excessively Drained Somewhat Excessi Well Drained Moderately Well I Somewhat Poorly Poorly Drained Very Poorly Drain	vely Drained Drained Drained		
Profile Description		Matrix action	Mottle Color		3.6-145	AL	milione		Manta Dia	Toutou		
Depth (inches)	Horizon	Matrix color	Mottle Color				ndance n, many)		(fine, med, coarse)	Texture		
0-12"	-	10YR 3/3		+	(tew, cor	nmo	m, many)		(inic, med, coarse)	silt loam		
0.12		10310202		_						- 3113 1470211		
Hydric Soil Indic		Histosol (-ists) Histic Epipedo Sulfidic Odor Aquic Moistur			Reducing Co Gleyed or Lo Mn or Fe Co High Organi Layer of Sar	nere e Co	hroma C tions intent in		Organic Streakin Organic Pans Listed on Local F Other (explain in	Iydric Soils List		
WETLAND DET Hydrophytic Veg Wetland Hydrold Hydric Soil Press Remarks; Wetlan	etation Dom ogy Present? ent?	inant?	⊠No ⊠No ⊠No									

Name: Amanda Castro & Kelsey Woods

Is test plot within a wetland? Sheetl of 6

☐Yes ⊠No



1157 3rd Avenue, Suite 220, Longview, Washington 98632 (360)578-1371 FAX (360)414-9305
DATA FORM – Routine Onsite Wetland Determination 1987 COE Wetlands Delineation Manual 1997 Washington State Delineation Manual

The Samuel Control	and and					Christa .		I by 77 mm			
Project Site: SE					Date: 10/5			Project # :	1543.02		
Applicant/Owne					County/Sta						
Test Plot Location	on: East Central	of SE 202nd CL			Sec/Town/l	Range: S0	8, TIN, R3E				
Do normal circu	mstances exist a	t the site?			⊠Yes .	□ No	Plot l	D: TP2			
Is the site signific	antly disturbed	(atypical situation	1)?		Yes	⊠No	Com	munity ID:			
Is the site a poter			house		Ves	⊠No	The second secon	sect ID:			
To the site is posses						1 6 4					
Dominant Plant		pling, shrub, wood	ly vine, herb) Scientific	Name			Strata	% Cover	Indica	tor Status	
1. Velvet grass*		Holcus lar	tatus				Herb	50		FAC	
2. Soft rush*		Juncus eff	usus				Herb	40		FACW	
3. Evergreen blac	kherry*	Rubus laci	CALL CONTRACTOR CONTRA				Shrub	5		FACU	
4. Himalayan bla		Rubus arn					Shrub	5		FACU	
5.	CRIPCITY	AMORA LIVE	TETHIAC HS			_	-			12500	
6.										•	
7.							•				
8.	120	grass-trace, Canadi	The second second							*	
Remarks: * = dominant species per the 50/20 rule.					Type(s): Wetland Hydrology Indicators						
Field observation	is confirm mapp	ed soil type?	es No					Poorly Draine			
n. er n	525							☐ Very Poorly I	rained		
Depth (inches)		Matrix color	Mottle Color			Abundane mmon, ma		Mottle Size	(e)	Texture	
0-14"		10YR 3/4	10YR 4/6			ommon		medium		silt loam	
MTITE		IVIII, 201	10115 710							2012 12:0015	
Hydric Soil Indicators Histosol (-ists) Histic Epipedon (8-16") Sulfidic Odor Aquic Moisture Regime					Reducing Co Gleyed or L Mn or Fe Co High Organ Layer of Sa	ow Chrom oncretions ic Content		Organic Streaking in Sandy Soils Ors Organic Pans Listed on Local Hydric Soils List Other (explain in remarks)			
Remarks:charcoa	l observed throug	ghout 0-14"						Soils Cr	riteria M	et? □Yes ⊠No	
WETLAND DET Hydrophytic Veg Wetland Hydrold Hydric Soil Prese Remarks: Wetlan	getation Domina ogy Present? ent?	nt?	⊠No ⊠No ⊠No				Is test plot	within a wetland?]Yes ⊠No	
Name: Amanda C	astro & Kelsey V	Woods						Sheet2 of 6			



1157 3rd Avenue, Suite 220, Longview, Washington 98632 (360)578-1371 FAX (360)414-9305 DATA FORM – Routine Onsite Wetland Determination 1987 COE Wetlands Delineation Manual 1997 Washington State Delineation Manual

Project Site: SE	40th St			Date: 10/	Date: 10/5/07 Project #: 1543.02								
	r: Stan Firestone			County/Sta	5-15.02								
	on: Northeast of	Sec/Town/Range: S08, T1N, R3E											
				T will									
THE RESIDENCE OF THE PARTY OF T	mstances exist at	CHARLES AND ADVANCED		⊠ Yes	□No	100 475 475	D: TP3						
and the following of the first transmission of the first fact of t	cantly disturbed (THE RESERVE AND PERSONS ASSESSMENT OF THE PE	n)?	Yes	⊠No	The second second second	nunity ID:						
Is the site a pote	ntial problem are	а?		☐ Yes	⊠No	Trans	ect ID:						
Dominant Plant	Mintel Spatial Society Company	ling, shrub, woo		241		A11							
	non Name		Scientific	Name		Strata	% Cover	Indicator Status					
1. Tall fescue*		Festuca a	rundinacea			Herb	100	FAC-					
2.						-							
4.						-		2					
5.						-		-					
6.						-							
7.													
8.						-							
% of dominant s	sent velvet grass to pecies OBL, FAC minant species per	W, FACW-, FA	C+, FAC 0%	(more than 50)% required)		Vegetation Cri	teria Met? □Yes ⊠No					
HYDROLOGY Recorded data a Is it the growing Is site inundated Depth of surface Depth to free wa Depth to saturate Remarks:	season? [water: ter in pit:	No No No	Type(s): - Wetland Hydrology Indicators Inundated Oxidized Root Channels < 12 in. Saturated < 12 in. Local Soil Survey Data Water Marks Water Stained Leaves Drift Lines FAC-Neutral Test Sediment Deposits Other (Explain in remarks) Drainage Patterns in wetlands Hydrology Criteria Met? Yes										
(Series and Phase Taxonomy (Subg	roup): Fine silty	mixed, mesic Ty	pic Fragiochrepts Yes □No		Drainage	Class:	Excessively Dr Somewhat Exc Well Drained Moderately W Somewhat Poo Poorly Drained Very Poorly D	essively Drained ell Drained orly Drained d					
Depth (inches)	Horizon	Matrix color	Mottle Color	Mottle	Abundance		Mottle Size	Texture					
				(few, co	mmon, many)	(fine, med, coarse						
0+15"	-	10YR 3/2	10100 111				-	silt loam					
15-16"	4	10YR 4/3	10YR 4/6	C	ommon		medium	silt loam					
Hydric Soil Indio	ators	on (8-16") re Regime	Mn or Fe C	ow Chroma Concretions tic Content in		Organic Streaking in Sandy Soils Organic Pans Listed on Local Hydric Soils List Other (explain in remarks)							
WETLAND DE	TERMINATION getation Dominan ogy Present?		⊠No ⊠No ⊠No				Soils Cri	iteria Met? □Yes ⊠Ne					
Remarks: Wetlan	nd criteria not met				1	s test plot v	within a wetland?	□Yes ⊠No					

Name: Amanda Castro & Kelsey Woods

Sheet3 of 6



1157 3rd Avenue, Suite 220, Longview, Washington 98632 (360)578-1371 FAX (360)414-9305 DATA FORM – Routine Onsite Wetland Determination 1987 COE Wetlands Delineation Manual 1997 Washington State Delineation Manual

Project Site: SE	40 th St				Date: 10/	5/07			Project #: 1	543.02	
Applicant/Owne		County/State: Clark, WA									
Test Plot Location	CL.		Sec/Town/			-					
Do normal circu	mstances exi	st at the site?			⊠Yes		No	Plot	ID: TP4		
Is the site signific			tuation)?		Yes		⊠No		munity ID:		
Is the site a poter	and the second s	And the second second second second second second	tuation).		□Yes		⊠No		sect ID:		
as the site a point	idar problem						24730	1140	ister in.		
Dominant Plant	Species	, sapling, shrub	, woody vine, herb)								
	non Name		Scienti	fic Nam	e			Strata	% Cover	Indicator Status	
 Himalayan bla 		Rub	us armeniacus					Shrub	- 5	FACU	
2. English hawth	orne*	Cra	taegus monogyna					Shrub	40	FAC	
3. Tall fescue		Fes	tuca arundinacea					Herb	10	FAC-	
 Northern bents 	rass*	Agr	ostis borealis					Herb	75	FACU	
Lance-leaf plan	itain	Plan	ntago lanceolata					Herb	10	FAC	
6											
7.										¥	
8.										*	
Other species pres % of dominant s Remarks: * = dom	pecies OBL,			9	(more than 5	0% 1	required)		Vegetation Cri	teria Met? □Yes ⊠No	
Depth of surface water: N/A Saturated < 12 in. Local Depth to free water in pit: N/A Water Marks Water Depth to saturated soils: N/A Drift Lines FAC- Sediment Deposits Other Drainage Patterns								Secondary Indicate Oxidized Root Local Soil Sur Water Stained FAC-Neutral Other (Explain	ry Indicators (2 required) dized Root Channels < 12in. bgs al Soil Survey Data ter Stained Leaves		
SOILS: Map Unit Name: (Series and Phase) Taxonomy (Subgi Field observation	roup): <u>Fine s</u>	silty, mixed, mes	sic Typic Fragiochrepts				Drainage	Class:	Excessively Dr Somewhat Exc Well Drained Moderately W Somewhat Poo Poorly Drained Very Poorly D	essively Drained ell Drained orly Drained d	
Depth (inches)	Horizon	Matrix col	or Mottle Color		Mottle	Ab	undance		Mottle Size	Texture	
- Printing	240112011	Little La Citt	DANIEL SOUTH		- Annual Contract Con		on, many)	(fine, med, coarse		
0-16"	- 2	10YR 3/3							-	silt loam	
Hydric Soil Indic		Reducing C Gleyed or L Mn or Fe C High Organ Layer of Sa	aking in Sandy Soils al Hydric Soils List n in remarks)								
Remarks;charcoa	observed thr	ougnout 0-12"							Soils Cri	teria Met? □Yes ⊠No	
WETLAND DET Hydrophytic Veg Wetland Hydrold Hydric Soil Press Remarks: Wetlan	etation Dom ogy Present? ent?	inant?	Yes ⊠No Yes ⊠No Yes ⊠No				1	s test plot	within a wetland?	∐Yes ⊠No	

Name: Amanda Castro & Kelsey Woods

Sheet4 of 6



1157 3rd Avenue, Suite 220, Longview, Washington 98632 (360)578-1371 FAX (360)414-9305 DATA FORM – Routine Onsite Wetland Determination 1987 COE Wetlands Delineation Manual 1997 Washington State Delineation Manual

Project Site: SE		Date: 10/5/07 Project #: 1543.02												
Applicant/Own		County/Sta	te: C	lark, W/	4									
Test Plot Locat		Sec/Town/l												
Do normal circu	umstances exi	st at the site?			⊠Yes		No	Plot	ID: TP5					
Is the site signif			Yes		No		munity ID:							
Is the site a pote			□Yes				sect ID: -							
VECETATION	(Charles too	and the shoot was	decision banks											
Dominant Plant		, sapling, shrub, woo	dy vine, nerb)											
	mon Name		Scientific	Nam	2			Strata	% Cover	Indicator Status				
I. Himalayan bl		Rubus ar			-			Shrub	15	FACU				
2. Tall fescue			ırındinacea					Herb	15	FAC-				
3. Pearly everlas	sting	Anaphali	s margaritacea					Herb	5	NI				
4. Northern bent		Agrostis						Herb	40	FACU				
5. Lance-leaf pla	Name of the last o		lanceolata				_	Herb	25	FAC				
6.		7 1471060	nance orang				_	11010	40	170				
7.							_			T.				
8.							+	4)		-				
Other species pre	Situate 1						-	4)		*				
		FACW, FACW-, FA	C+, FAC 33%		more than 50	% req	uired)		Vegetation Cri	teria Met? Yes No				
HYDROLOGY														
HYDROLOGY Recorded data a	vailable?	☐ Yes ⊠	No		Type(s):									
Is it the growing			No		Type(s).	-7	v	Vetland	Hydrology Indicator	0				
Is site inundated			No		Primary In	dicato		v Channu	Secondary Indicate					
as are munuated	4.	L 163 KH	10		Inunda		1.3			Channels < 12in, bgs				
Depth of surface	e water:	N/A			Satura		2 in.		Local Soil Sur					
Depth to free wa		N/A			Water				Water Stained Leaves					
Depth to saturat		N/A			Drift L	ines			☐ FAC-Neutral Test					
Co.					Sedime	nt De	osits		Other (Explain					
					☐ Draina									
					in wet	lands		Hydrology Criteria Met? □Yes ⊠No						
Remarks:														
SOILS:						Dr	ainage (Class-	Excessively Dr	hania				
Map Unit Name	· Hesson clas	Ioam (HcR)				171	amage	1855		essively Drained				
(Series and Phase		A STATE OF THE PARTY OF THE PAR							Well Drained	Assirtly Drained				
		y, kaolinitic, mesic X	eric Palehumults						Moderately W	ell Drained				
The state of the state of	group's sands	J. Michigan	SHAR A MISABINIAN						Somewhat Poo					
Field observatio	ns confirm m	apped soil type? 🖂	Yes No						Poorly Drainer					
									☐ Very Poorly D					
Profile Descripti	1 22	Mateleonie	Mettle Color		Mount	Alberta	dance		Mattle Class	Tours				
Depth (inches)	Horizon	Matrix color	Mottle Color		Mottle (few, cor				Mottle Size (fine, med, coarse	Texture				
0-10"	-	10YR 3/3	-		(457)				-	silt loam				
11-13"		10YR 4/4	-							silt loam				
19.803.99		- ACA MAN (\$1.57)								3,11,10,1111				
					100072510073174577457									
Hydric Soil Indi	cators	Histosol (-ists			Reducing Co					iking in Sandy Soils				
		Histic Epiped	The state of the s		Gleyed or Le			olors	Organic Pans					
		Sulfidic Odor			Mn or Fe Co					al Hydric Soils List				
		Aquic Moistu	re Regime		High Organi				Other (explai	n in remarks)				
= 5 U	12 tan 1204	V 0.20041			Layer of Sai	idy So	ils							
Remarks:charcos	at observed thr	oughout 0-13"							Soils Cri	teria Met? □Yes ⊠No				
									Sons CII					
WETLAND DE			57h											
Hydrophytic Ve	Section of the sectio		⊠No											
Wetland Hydrol	logy Present?		⊠No											
Hydric Soil Pres		Yes	⊠No											
Remarks: Wetls	and criteria not	met								□Yes ⊠No				
									within a wetland?					

Name: Amanda Castro & Kelsey Woods

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1157 3rd Avenue, Suite 220, Longview, Washington 98632 (360)578-1371 FAX (360)414-9305
DATA FORM – Routine Onsite Wetland Determination 1987 COE Wetlands Delineation Manual 1997 Washington State Delineation Manual

Project Site: SE 40th St					Date: 10/5	/07			Project # :	1543.0	2	
Applicant/Owner: Stan F	Date: 10/5/07 Project #: 1543.02 County/State: Clark, WA											
Test Plot Location: Sout	Sec/Town/Range: S08, T1N, R3E											
Do none of the	and the second second				N.:	1	7					
Do normal circumstances			⊠Yes		No	_	D: TP6					
Is the site significantly dist	the state of the s	situation)?			Yes		No	-	munity ID:			
Is the site a potential prob	lem area?				Ves	10	No	Tran	sect ID:	_		
VEGETATION (Strata: t	rce, sapling, shr	ub, woody v	ine, herb)									
Dominant Plant Species	- January Still											
Common Name			Scientific	Name				Strata	% Cover	Indi	cator Status	
Soft rush	J	uncus effusu:	8					Herb	10		FACW	
2. Tall fescue*	F	estuca aruno	linacea					Herb	30		FAC-	
 Velvet grass* 		lolcus lanatu						Herb	30		FAC	
4. Northern bentgrass*	A	grostis borea	alis					Herb	30		FACU	
5.								-				
6.								*				
7.												
8.											•	
Other species present Rober % of dominant species OB Remarks: * = dominant spe	L, FACW, FAC	W-, FAC+,	FAC <u>33%</u>	(n	nore than 50	% r	equired)		Vegetation C	riteria	Met? □Yes ⊠No	
HYDROLOGY Recorded data available? Is it the growing season? Is site inundated? Depth of surface water: Depth to free water in pit: Depth to saturated soils: Remarks: SOILS: Map Unit Name: Hesson of (Series and Phase) Taxonomy (Subgroup): Cla	Type(s): Wetland Hydrology Indicators Inundated Oxidized Root Channels < 12i Saturated < 12 in. Local Soil Survey Data Water Marks Water Stained Leaves Drift Lines FAC-Neutral Test Sediment Deposits Other (Explain in remarks) Drainage Patterns in wetlands Hydrology Criteria Met? Y							mels < 12īn. bgs ata es emarks) Met? □Yes ⊠No				
Field observations confirm Profile Description									Somewhat Pe	oorly D	rained	
Depth (inches) Horizon	Matrix c	color	Mottle Color				ndance		Mottle Size		Texture	
21 1/2-1					(few, con	nmo	n, many)		(fine, med, coar	se)		
0-16 ^e -	10YR 3	3/2	740			-			*		silt loam	
	-			-						_		
Hydric Soil Indicators Histosol (-ists) Histic Epipedon (8-16") Sulfidic Odor Aquic Moisture Regime					Reducing Co Gleyed or Lo Mn or Fe Co High Organi Layer of San	nere e Co	hroma C etions entent in	olors	Organic Pa			
Remarks:									Soils C	riteria l	Met? □Yes ⊠No	
WETLAND DETERMINA Hydrophytic Vegetation Do Wetland Hydrology Presen Hydric Soil Present? Remarks: Wetland criteria	ominant? [at? [Yes	⊠No ⊠No ⊠No				Is	test plot	within a wetland?		∐Yes ⊠No	

Name: Amanda Castro & Kelsey Woods

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