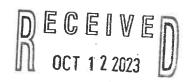


Wetland Delineation · Habitat Management Plans · Riparian Restoration · Mitigation · Biological Evaluations
Eastside Division · (509) 899-0355 Westside Division · (360) 620-0618

WETLAND INVENTORY OF STARLIGHT PROPERTY Ellensburg, Washington

Prepared For: Encompass Engineering December 10, 2006

Prepared By:
J.R. Gilbert
Plant Ecologist
Agricultural Wetland Specialist
The Wetland Corps



Kittitas County CDS

Field Delineation

Methodology used for wetland delineation (if necessary) is consistent with the technical approaches articulated in the 1987 Corps of Engineers (COE) Manual and in the 1997 Washington State Wetlands Identification and Delineation Manual. These documents are the wetland delineation manuals that are used in determining wetland areas when applying federal, state and local government regulations under the Clean Water Act (Section 404), the Shoreline Management Act and the Growth Management Act in Washington State.

The project site field work was conducted over the course of four days in November and December 2006. A general field review of this property was also performed (Wetland Corps 2005) in May of 2005, as part of a feasibility study with the former land owner. Field work (2006) was conducted under cloudy skies with an ambient temperature ranging between 30 and 40 degrees Fahrenheit. The time of year and recent precipitation history was considered in assessing the type and extent of any wetlands existing on site.

Specific field methodology used in determining the extent and location of wetland areas include:

- As part of the initial project site reconnaissance, the site was walked to determine the general extent and location of potential wetland areas in relation to property boundaries.
- Potential wetland and upland sample plots were established in the identified potential wetland areas and in the adjacent upland area; and
- Potential wetland boundaries (if identified) were delineated with flagging, by noting localized topography and vegetation patterns and comparing parameters of hydrology, soil, and vegetation with data collected at the wetland and upland sample plots.

WETLAND EVALUATION

The project area was investigated; soil, vegetation and hydrologic data were collected at twenty-two sample plot locations. Data collected at each sample plot was entered onto a Routine Wetland Determination Data Form (Washington State Department of Ecology 1997). (Appendix B).

Any wetlands identified on the property would be classified and rated using the categories set forth in Washington State Wetland Rating System, Eastern Washington, 2nd Edition, or as amended hereafter (Department of Ecology 1993). This wetland evaluation would use the new rating manual, Washington State Wetland Rating System for Eastern Washington (Hruby 2004). This system identifies various complexities within wetland structures, habitat attributes and various functions associated with wetlands.

National Wetlands Inventory

The USFWS NWI map - Online wetlands mapper shows potential wetlands on the subject property. (Appendix A)

NRCS / USDA Online Soil Survey - No information available

WETLAND INVENTORY RESULTS

Data was collected at twenty two sample plot locations within potential wetland areas and adjacent known uplands. Suspected wetland areas included any portion of the site containing hydrophytic vegetation. The sample plots would normally be staked, flagged, and labeled with numbered ribbons for identification (DP 1, 1a 2, 2 a, 3, 3a, etc...), but the presence of cattle on the property at the time of soil pit excavation, prevented staking and labeling the pits. The pits were also filled in after soil data was recorded, to eliminate any possible liability to the Wetland Corps. However, all soil pits are located and labeled on the attached Data Points Map (Appendix C). For each soil pit dug (1.) in a potential wetland area (based on topography and vegetation), a corresponding soil pit was dug in a known upland (1a.).

Soils

Soils inspected in soil pits ranged from 10YR 2/2 to 10YR 4/4 and 7.5YR 2.5/2 to 7.5YR 2.5/3. The Soil Survey of Kittitas County is not published and there is no available soil information. Information collected in most soil pits was fairly consistent, revealing dry to moist silt loams, cobbley silt loams, silt clay loams, fine sandy loams and sandy clay loams. These soils are underlain by a wavy loamy-gravelcobble lens, which varied in depth from 14" to 18". None of the soil pits down to 14 inches showed any significant indicators of wetland hydrology, except for pits dug directly in irrigation ditches, in which soils had hydric characteristics. Pits dug in irrigation ditches, serve as reference points, to help determine what conditions to look for in other portions of the property. Data points in potential wetland areas were located at the point of lowest general topography. No data points revealed outside of irrigation ditches revealed any saturated soils or standing water. Soil pits near head ditches and near or in the most heavily irrigated portions revealed common, fine and faint/distinct mottling with a matrix of 5YR 4/6. Mottling of the soil is indicative of a fluctuating water table, and Gleyed soil is indicative of areas of long term saturation, neither of these soil conditions is predominant.

Hydrology

This ownership is located within proximity of Cascade Canal. The property receives irrigation flows from the canal, via a made-made ditch system. Overall, there is a general rise in the water-table in the Kittitas Valley during the irrigation season. This water-table rise is considered natural and the "normal circumstance" of the environment. Areas of land that are directly affected by high water table which results in wetland conditions are valid and are regulated. Hydrology that clearly results from surface irrigation flows, can be shut off and hydrological connectivity is ceased. Therefore, wetland-like areas created from this conveyance are not regulated. No inundation or standing water in pits was observed.

We trust this information is sufficient for your needs at this time. Thank you for choosing The Wetland Corps as your environmental consultant. If you have any questions feel free to call. (509) 899-0355

Respectfully submitted,

Joe Gilbert Plant Ecologist

Senior Wetland Specialist

Figure 1a, 1b, 1c: Property Maps



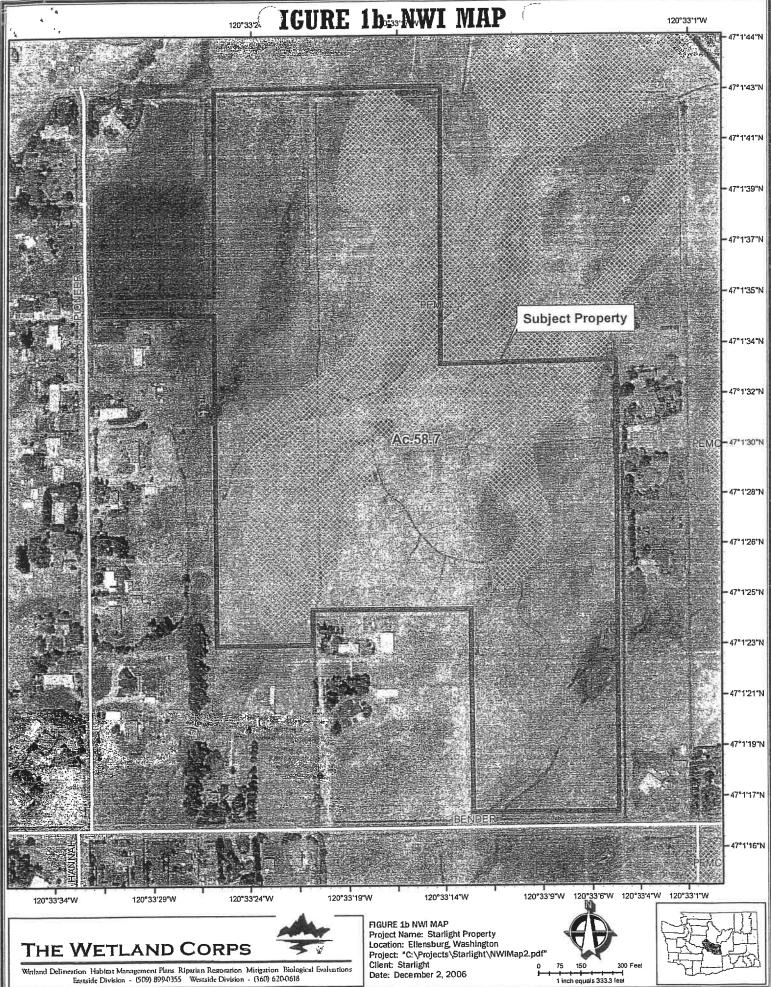
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Date: December 2, 2006

150 1 inch equals 333.3 feel



Appendix A: NWI Maps



Date: December 2, 2006

1 inch equals 333.3 feet



Appendix B: Routine Wetland Determination Data Forms

	Name (Ser (subgroup	ies and Phase) :)	Unknown	Drainage (Field obse	(Class: Unknown rvations confirm mapped t	ype? N/A		
Profile Des	cription				T	Don't a of sell profile		
Depth		Matrix color	Mottle colors	Mottle abundance	Texture, concretions,	Drawing of soil profile (match description)		
(inches)	Horizon	(Munsell moist)	(Munsell moist		structure, etc.	(Inatch description)		
0-10		5YR 3/3	5YR 4/6	F, F, D	Silt loam			
10-16		7.5YR 2.5/3			Silt Clay loam			
401					Gravelly sandy loam			
16+								
a				14				
		()						
-		: (check all that a	ppiy)	☐ Matrix chr	roma ≤ 2 with mottles			
_] Histosol	odon		☐ Mg or Fe				
] Histic Epip] Sulfidic Od			☐ High Orga	anic Content in Surface Layer	r of Sandy Soils		
_		sture Regime			Streaking in Sandy Soils			
] Reducing (☐ Listed on	☐ Listed on National/Local Hydric Soils List			
		Low-Chroma (=1)	matrix	Other (ex	plain in remarks)			
	ils present?	_						
Dationale i	for decision/	Remarks: No prim	ary indicators p	resent				
	eterminatio							
wettand L	etermmanc	<u> </u>						
Hydrophyti	ic vegetation	present?	☐ Yes X	No				
Hydric soil			☐ Yes X	No				
	ydrology pre	sent?		No				
Is the sam	pling point w	vithin a wetland?		No				
Rationale	Remarks:	Negative for all th	ree parameter	s				

NOTES: Located in between irrigation ditches

SOILS : Map Unit Taxonom	Name (Ser y (subgroup	ies and Phase) :	Unknown	Drainage Cl Field observ	ass: Unknown /ations confirm mapped t	ype? N/A
Profile De		Matrix color	Mottle colors (Munsell moist)	Mottle abundance size and contrast	Texture, concretions, structure, etc.	Drawing of soil profile (match description)
(inches) 0-12	Horizon	(Munsell moist) 10 YR 3/3	(Mulisen moist)		Sandy Clay Loam	1
12+		10 YR 3/3			Gravelly loam	
						.=:
[Histosol Histic Epip Sulfidic Oo Aquic Moi Reducing Gleyed or	dor sture Regime Conditions Low-Chroma (=1)	matrix 'es X No	☐ Mg or Fe C ☐ High Organ ☐ Organic St ☐ Listed on N ☐ Other (exp	oma ≤ 2 with mottles Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils I	
Rationale	for decision. Determinati	/Remarks: No prin	nary or Secondary	indicators present		
Hydrophy Hydric so Wetland	tic vegetationils present? hydrology promoting point	n present?	☐ Yes X N ☐ Yes X N ☐ Yes X N ☐ Yes X N	lo lo lo		п

NOTES: Known upland

SOILS Map Unit Taxonomy	Name (Seri	ies and Phase) :)	(Unknown	Drainage Cl Field observ	ass: Unknown rations confirm mapped t	ype? N/A
Profile Des	scription	Matrix color	Mottle colors	Mottle abundance	Texture, concretions, structure, etc.	Drawing of soil profile (match description)
(inches)	Horizon	(Munsell moist)	(Munsell moist)	size and contrast	Sandy Clay Loam	
0-14		10 YR 3/3				
					Gravelly loam	
14+						
		1				-
						1 1
[Histosol Histic Epip Sulfidic Oc Aquic Mois Reducing Gleyed or	dor sture Regime Conditions Low-Chroma (=1)	matrix 'es X No	☐ Mg or Fe C☐ High Orgal☐ Organic St☐ Listed on N	oma ≤ 2 with mottles Concretions nic Content in Surface Laye creaking in Sandy Soils National/Local Hydric Soils I	
Wetland	Determinati	on				
Hydric so Wetland	tic vegetation ils present? hydrology pre npling point v	esent? within a wetland?	☐ Yes X III YES	lo lo lo		
Rational	e/Remarks:	Negative for all t	hree parameters			

NOTES: Within NWI, appears to be upland

SOILS Map Unit I	Name (Seri	ies and Phase):	(Unknown	Draina Field o	ge Class: Unknown bservations confirm mappe	ed type? N/A
	(subgroup			rieiu c	D26149110119 German	
Profile Des	scription				l	, Drawing of soil profile
Depth		Matrix color	Mottle colors (Munsell moist	Mottle abundar		(match description)
(inches)	Horizon	(Munsell moist) 10 YR 3/3	(Muliocit Hiotox	,	Sandy Loam	
0-14		10 111 0.0		1	Gravelly loam	
14+						
Hydric So	il Indicators	: (check all that a	pply)	[] b d _ d	x chroma ≤ 2 with mottles	
	Histosol				r Fe Concretions	
	Histic Epip			☐ High	Organic Content in Surface L	ayer of Sandy Soils
	Sulfidic Oc	or sture Regime		☐ Orga	nic Streaking in Sandy Soils	
	Aquic wor Reducing				d on National/Local Hydric Sc	oils List
1 1	Gleved or	Low-Chroma (=1)	matrix	☐ Othe	r (explain in remarks)	
	the exponent?	О П Ү	es X No			
Rationale	for decision/	Remarks: No prim	nary or Seconda	ry indicators prese	ent	
	Determination					¥)
-		10	□ Voc. ¥	No		
Hydrophy	tic vegetation	n present?		No		
Hydric so	ils present?	eent?	□	No		
Wetland I	hydrology pre	within a wetland?		No		
Pational	e/Remarks:	Negative for all t	hree parameter	'S		
Nauvilan					•	

NOTES: Known Upland

Profile De	scription			Mottle abundance	Texture, concretions,	Drawing of soil profile
Depth	Horizon	Matrix color (Munsell moist)	Mottle colors (Munsell moist)	size and contrast	structure, etc.	(match description)
(inches) 0-8	FIORZOII	10 YR 2/2			Silt Loam	
U-0 	1				Silt clay Loam	
8-16					Gravelly loam	
16+					-	-
						-
Hydric Se	oil Indicator	s: (check all that a	pply)	Motrix chr	oma < 2 with mottles	
	☐ Histosol ☐ Histic Epi ☐ Sulfidic O ☐ Aquic Mo ☐ Reducing ☐ Gleyed o	dor isture Regime Conditions r Low-Chroma (=1)	matrix /es X No	☐ Mg or Fe (☐ High Orga☐ Organic S☐ Listed on ☐ Other (exp	oma ≤ 2 with mottles Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils I	
Hydric s Rationale	Histosol Histic Epi Sulfidic O Aquic Mo Reducing Gleyed o oils present	pedon dor isture Regime Conditions Low-Chroma (=1) Remarks: No prir	matrix /es X No	☐ Mg or Fe 0☐ High Orga☐ Organic S'☐ Listed on 1☐	Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils I	
Hydric s Rationale Wetland	Histosol Histic Epi Histic Epi Sulfidic O Aquic Mo Reducing Gleyed o oils present e for decision Determinat	pedon dor isture Regime Conditions Low-Chroma (=1) Remarks: No printion on present?	matrix /es X No	Mg or Fe (High Orga Organic S Listed on l Other (exp	Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils I	
Hydric s Rationale Wetland Hydroph	Histosol Histic Epi Sulfidic O Aquic Mo Reducing Gleyed o oils present e for decision	pedon dor isture Regime Conditions r Low-Chroma (=1) Remarks: No prin	matrix /es X No nary or Secondary	Mg or Fe (High Orga Organic S Listed on I Other (exp	Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils I	

Profile De	escription			Mottle abundance	Texture, concretions,	Drawing of soil profile
Depth	Horizon	Matrix color (Munsell moist)	Mottle colors (Munsell moist)	size and contrast	structure, etc.	(match description)
(inches) 0-8	110122011	10 YR 2/2			Silt Loam	
					Silt clay Loam	
8-16					Gravelly loam	1
16+						-
Hudric C	ti in diameter	(check all that a	(Vlane			
	☐ Histosol	rs: (check all that a	-FF-37	□ Ma or Fe (oma ≤ 2 with mottles Concretions	or of Candy Sails
	☐ Histosol☐ Histic Epi	ipedon	er»	☐ Mg or Fe (☐ High Orga	Concretions nic Content in Surface Laye	er of Sandy Soils
	☐ Histosol☐ Histic Epi☐ Sulfidic C	ipedon Odor	FF-97	☐ Mg or Fe 0 ☐ High Orga ☐ Organic Si	Concretions nic Content in Surface Laye treaking in Sandy Soils	
	☐ Histosol ☐ Histic Epi ☐ Sulfidic C ☐ Aquic Mo ☐ Reducing	ipedon Odor oisture Regime g Conditions		☐ Mg or Fe 0☐ High Orga☐ Organic Si☐ Listed on I	Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils	
	☐ Histosol ☐ Histic Epi ☐ Sulfidic C ☐ Aquic Mo ☐ Reducing ☐ Gleyed o	ipedon odor oisture Regime g Conditions or Low-Chroma (=1)	matrix	☐ Mg or Fe 0☐ High Orga☐ Organic Si☐ Listed on I	Concretions nic Content in Surface Laye treaking in Sandy Soils	
	☐ Histosol ☐ Histic Epi ☐ Sulfidic C ☐ Aquic Mo ☐ Reducing ☐ Gleyed o	ipedon Odor oisture Regime g Conditions or Low-Chroma (=1)	matrix Yes X No	☐ Mg or Fe 0 ☐ High Orga ☐ Organic Si ☐ Listed on I ☐ Other (exp	Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils	
Hydric s	☐ Histosol ☐ Histic Epi ☐ Sulfidic C ☐ Aquic Mc ☐ Reducing ☐ Gleyed of the collapse of the co	ipedon Odor Sisture Regime G Conditions or Low-Chroma (=1) t?	matrix Yes X No	☐ Mg or Fe 0☐ High Orga☐ Organic Si☐ Listed on I	Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils	
Hydric s	☐ Histosol ☐ Histic Epi ☐ Sulfidic C ☐ Aquic Mo ☐ Reducing ☐ Gleyed o	ipedon Odor Sisture Regime G Conditions or Low-Chroma (=1) t?	matrix Yes X No	☐ Mg or Fe 0 ☐ High Orga ☐ Organic Si ☐ Listed on I ☐ Other (exp	Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils	
Hydric s Rational	Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed o coils present e for decision	ipedon Odor Sisture Regime G Conditions or Low-Chroma (=1) t?	matrix Yes X No	☐ Mg or Fe (☐ High Orga☐ Organic Si☐ Listed on ☐ Other (exp	Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils	
Hydric s Rational Wetlance	Histosol Histic Epi Sulfidic C Aquic Mc Reducing Gleyed o Goils presente for decision Determination	ipedon odor oisture Regime g Conditions or Low-Chroma (=1) t?	matrix Yes X No mary or Secondary	☐ Mg or Fe C ☐ High Orga ☐ Organic S ☐ Listed on ☐ ☐ Other (exp y indicators present	Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils	
Hydric s Rational Wetlanc Hydroph	Histosol Histic Epi Sulfidic C Aquic Mo Reducing Gleyed o coils present e for decision	ipedon Odor Sisture Regime G Conditions or Low-Chroma (=1) t?	matrix Yes X No mary or Secondary	☐ Mg or Fe C ☐ High Orga ☐ Organic Si ☐ Listed on I ☐ Other (exp y indicators present	Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils	

Profile De	scription		La ul salam	Mottle abundance	Texture, concretions,	Drawing of soil profile
Depth (inches)	Horizon	Matrix color (Munsell moist)	Mottle colors (Munsell moist)	size and contrast	structure, etc.	(match description)
0-12		10 YR 3/3			Sandy clay Loam	
12+		7.5YR 2.5/3			Gravelly loam	-
12+						
		(-back oil that s	ennly)			
Hydric s	☐ Histosol ☐ Histic Epi ☐ Sulfidic C ☐ Aquic Mo ☐ Reducing ☐ Gleyed o	odor isture Regime j Conditions r Low-Chroma (=1) i? D/Remarks: No pri) matrix	☐ Mg or Fe 0☐ High Orga☐ Organic S☐ Listed on	oma ≤ 2 with mottles Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils olain in remarks)	

			p		Ę.	
SOILS	i (Sor	ies and Phase):	Unknown	Drainage Cl	ass: Unknown	
-			O (mail o m		ations confirm mapped t	ype? N/A
Taxonomy	(subgroup	")		0.71		
		1				
Profile Des	cription		· · · · · · · · · · · · · · · · · · ·	La ut. showdenen	Texture, concretions,	Drawing of soil profile
Depth		Matrix color	Mottle colors	Mottle abundance	structure, etc.	(match description)
(inches)	Horizon	(Munsell moist)	(Munsell moist)	size and contrast		(Hidtor: desaripasis)
0-8		10 YR 3/3			Silt Loam	
		40.7/5.4/6			Sandy clay Loam	
8-14		10 YR 4/6				-
14+				1	Gravelly loam	
14,						1
Hydric So	I Indicators	: (check all that a	pply)			
] Histosol	•	42		ma ≤ 2 with mottles	
_] Histic Epip	edon		☐ Mg or Fe C	oncretions	
_	Sulfidic Oc				ic Content in Surface Layer	r of Sandy Soils
		sture Regime			eaking in Sandy Soils	
	Reducing			Listed on National/Local Hydric Soils List		
		Low-Chroma (=1)	matrix	Other (expl	ain in remarks)	
Hydric so	ils present?	P □ Y	es X No			
Rationale i	for decision/	Remarks: No prim	ary or Secondary	indicators present		
Wetland L	<u>eterminatio</u>	<u>Dili</u>				
Hydrophyt	ic vegetation	n present?	☐ Yes X N	0		
	s present?	27	☐ Yes X N	0		
	ydrology pre	sent?	☐ Yes X N	0		
is the sam	pling point v	vithin a wetland?	☐ Yes X N	0		
Rationale	/Remarks:	Negative for all the	ree parameters			

49			7.			
SOIL'S	Name (Ser	ies and Phase):	Unknown	Drainage Cl	ass: Unknown	
				Field observ	rations confirm mapped t	ype? N/A
Taxonomy	y (subgroup	''				
		1				
Profile De	scription			Mottle abundance	Texture, concretions,	Drawing of soil profile
Depth		Matrix color	Mottle colors	size and contrast	structure, etc.	(match description)
(inches)	Horizon	(Munsell moist)	(Munsell moist)	Size and contrast	Sandy Clay Loam	
0-15		10 YR 3/3			Salidy Oilly Louis	
					Gravelly loam	
15+						-
Undric Sc	vil Indicators	s: (check all that a	pply)			
	Histosol				ma ≤ 2 with mottles	•
] Histoce.	nedon		☐ Mg or Fe C	oncretions	
	Sulfidic O			☐ High Organ	ic Content in Surface Laye	r of Sandy Soils
		sture Regime		Organic Str	reaking in Sandy Soils	
	Reducing				lational/Local Hydric Soils L	ist
L	Readoning	Low-Chroma (=1)	matrix	Other (expl	ain in remarks)	
	oils present					
Hyaric so	tor docicion	/Remarks: No prim	nary or Secondary	indicators present		
Wetland	<u>Determinati</u>	<u>on</u>				
			X Yes	Mo		
	rtic vegetatio	n present?	A			
	ils present?		<u> </u>			
Wetland I	hydrology pre	esent?	<u> </u>			
Is the san	npling point v	within a wetland?				
Rational	e/Remarks:	Negative for two	of three parame	leis		

SOILS Map Unit Taxonom	Name (Sei y (subgroup	ries and Phase) :	Unknown	Drainage Cl Field observ	lass: Unknown vations confirm mapped t	ype? N/A
Profile De	scription			Mottle abundance	Texture, concretions,	Drawing of soil profile
Depth (inches)	Horizon	Matrix color (Munsell moist)	Mottle colors (Munsell moist)	size and contrast	structure, etc.	(match description)
0-8		10YR 3/2				-
0.44		10YR 3/3			Sandy Clay Loam	
8-14	-				Gravel -Cobble	
14+		1				
						-
Hydric s Rational	☐ Histosol ☐ Histic Epi ☐ Sulfidic O ☐ Aquic Mo ☐ Reducing ☐ Gleyed o	odor isture Regime Conditions Low-Chroma (=1) Remarks: No prin	matrix /es X No	☐ Mg or Fe 0☐ High Orga☐ Organic S☐ Listed on ☐	oma ≤ 2 with mottles Concretions inic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils I plain in remarks)	
wettano	Determinat	1011				
Hydroph	ytic vegetation	on present?	☐ Yes X M			
Hydric s	oils present?	nt?	☐ Yes XI			
Wetland	hydrology p	within a wetland?	Yes XI		, , , , , , , , , , , , , , , , , , ,	
is the sa	unband bour	Negative for all	hree parameters			

NOTES: Located just above irrigated depression

SOILS			l belon man	Drainage C	lass: Unknown			
Map Unit	Name (Ser	ries and Phase):	Unknown	Field obser	vations confirm mapped	type? N/A		
Taxonom	y (subgroup	o)		Lieid obsei	Valions commit mapped	3,		
Profile De	scription					Drawing of soil profile		
Depth		Matrix color	Mottle colors	Mottle abundance	Texture, concretions,	(match description)		
(inches)	Horizon	(Munsell moist)	(Munsell moist) size and contrast	structure, etc.	(Match description)		
0-8		7.5 YR 2.5/3			Silt loam			
0.40	-	10YR 3/1			Silt Clay Loam			
8-16		TOTICOL			Gravel -Cobbie			
16+					Glavei -Cobbie			
		1						
Undric Sc	il Indicator	s: (check all that a	pply)					
	∏ Histosol	. (0.,00		_	oma ≤ 2 with mottles			
	_ Histic Epip	nedon		☐ Mg or Fe (Concretions			
1	☐ Sulfidic O				nic Content in Surface Laye	r of Sandy Soils		
		sture Regime		☐ Organic St	treaking in Sandy Soils			
	Reducing				Listed on National/Local Hydric Soils List			
		Low-Chroma (=1)	matrix	Other (exp	olain in remarks)			
Hydric so	ils present	? DY	es X No					
Rationale	for decision	Remarks: No prim	ary or Seconda	ry indicators present				
	Determinati							
		-			9			
Hydrophy	tic vegetatio	n present?		No				
Hydric so	ils present?			No				
	nydrology pre			No	160			
is the sar	npling point v	within a wetland?		No				
Rational	e/Remarks:	Negative for all the	ree parameter	<u>s</u>				

	Name (Ser / (subgroup	ies and Phase) :)	Unknown	Drainage Cl Field observ	lass: Unknown vations confirm mapped t	type? N/A
Profile Des	scription			Mottle abundance	Texture, concretions,	Drawing of soil profile
Depth (inches)	Horizon	Matrix color (Munsell moist)	Mottle colors (Munsell moist)	size and contrast	structure, etc.	(match description)
0-6		7.5 YR 2.5/3			Silt loam	-
6-14		10YR 3/3			Sandy Clay Loam	1
14+					Gravel -Cobble	
	Histosol Histic Epip Sulfidic Od Aquic Moi Reducing Gleyed or	dor sture Regime Conditions Low-Chroma (=1)	matrix 'es X No	☐ Mg or Fe C☐ High Organic St☐ Cisted on N	oma ≤ 2 with mottles Concretions nic Content in Surface Laye reaking in Sandy Soils National/Local Hydric Soils I	
	tor decision		iary or occommen			
Hydrophy Hydric so Wetland I	tic vegetationis present? nydrology prengling point vegetations.	n present?	☐ Yes X N ☐ Yes X N ☐ Yes X N ☐ Yes X N	lo lo lo		

	Name (Ser y (subgroup	ies and Phase) :	Unknown	Dr · Eie	ainage Cla eld observ	ass: Unknown ations confirm mapped	type? N/A
Profile De Depth (inches) 0-8 8-14 14+	Horizon	Matrix color (Munsell moist) 7.5 YR 2.5/3 10YR 3/1	Mottle colors (Munsell mois	Mottle abu		Texture, concretions, structure, etc. Sitt loam Silt Clay Loam Gravel -Cobble	Drawing of soil profile (match description)
	☐ Histosol ☐ Histic Epip ☐ Sulfidic O	dor isture Regime	pply)		Mg or Fe C High Organ Organic Str Listed on N	iic Content in Surface Laye reaking in Sandy Soils lational/Local Hydric Soils	
	Gleyed or	Low-Chroma (=1)	es X No			ain in remarks)	
Wetland Hydroph Hydric se Wetland	Determination ytic vegetation bils present? hydrology present mpling point	on present?	☐ Yes X ☐ Yes X ☐ Yes X	(No (No (No (No			

Profile Description		Trans.	Mottle abundance	Texture, concretions,	Drawing of soil profile
Depth (inches) Horizon	Matrix color (Munsell moist)	Mottle colors (Munsell moist)	size and contrast	structure, etc.	(match description)
(inches) Horizon 0-8	7.5 YR 2.5/3			Silt loam	-
	10YR 3/3			Silt Clay Loam	
8-14				Gravel -Cobble	
14+					1
					-
☐ Reducing	pedon dor isture Regime Conditions r Low-Chroma (=1)	matrix /es X No	☐ Mg or Fe C ☐ High Orgal ☐ Organic St ☐ Listed on N ☐ Other (exp	oma ≤ 2 with mottles Concretions nic Content in Surface Laye treaking in Sandy Soils National/Local Hydric Soils I	
Rationale for decision		nary or secondary	molecule provi		
	ion				
Wetland Determinat	1011	☐ Yes X N	lo		

