

Date:	22 September 2021
То:	Tony Martinez, U.S. Army Corps of Engineers
From:	Tierney Walsh, Matrix Environmental Services
Subject:	Wetland Assessment and Delineation Report – Rolling Hills Development at Jimmy Camp Creek East Tributary, West of S Meridian Road and South of Drennan Road, El Paso County, Colorado

Mr. Martinez,

On behalf of the Landhuis Company, Matrix Environmental Services, LLC (MES) is pleased to submit this report summarizing the assessment and delineation of wetlands within the Rolling Hills development area (the Site), which is located west of S. Meridian Road and south of Drennan Road in El Paso County, Colorado.

The scope of work for the wetland assessment and delineation included the entire Site, which totals approximately 1,025 acres. Similar plant communities were identified throughout the Site; therefore, the observed plant communities were divided into eight distinct communities with one data sample point collected in each community.

The assessment and delineation field work were conducted May 13-14, 2021 (Communities 1-5) and August 7-8, 2021 (Communities 6-8). Climatic and hydrologic conditions at the Site were drier than average for the time of year during the May assessment due to below-normal rainfall; however, conditions were normal during the August assessment. The wet season in Colorado Springs is between April and September, peaking in July and August.

Community 1 includes the relatively flat area identified as a seasonally flooded, intermittent riverine system by the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI), which is unnamed and shown by the USFWS NWI to converge with the Jimmy Camp Creek East Tributary at a point approximately 1.75-miles southwest. Community 1 is dominated by common kochia (*Bassia scoparia*) and a grass that was not identifiable at the time of assessment due to the lack of inflorescence. Community 1 vegetation also includes minor amounts of groundplum milkvetch (*Astragalus crassicarpus*), lamb's quarters (*Chenopodium album*) and musk thistle (*Carduus nutans*). No hydric soil indicators were observed within the area's sandy clay soils. Additionally, saturation and a water table were not observed within Community 1: soil was dry to a depth of 28 inches. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of hydric soils and a lack of wetland hydrology.

Community 2 includes a small depression near the eastern boundary of the Site, which is dominated by Russian olive (*Elaeagnus angustifolia*), common kochia (*Bassia scoparia*) and a grass that was not identifiable at the time of assessment due to the lack of inflorescence. Community 2 vegetation also includes minor amounts of field bindweed (*Convolvulus arvensis*) and Russian thistle (*Salsola tragus*). No hydric soil indicators were observed within the area's sandy clay loam and clay soils. Additionally, saturation and a water table were not observed within Community 2 despite the soil pit being advanced to 42 inches below the ground surface. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of hydric soils and a lack of wetland hydrology.

Community 3 includes the drainage swale identified as Jimmy Camp Creek East Tributary, which is dominated by common kochia (*Bassia scoparia*), a grass that was not identifiable at the time of assessment due to the lack of inflorescence and Woods' rose (*Rosa woodsii*). Community 3 vegetation also includes minor amounts of curly dock (*Rumex crispus*) and Russian thistle (*Salsola tragus*). No hydric soil indicators were observed within the area's sandy loam, loamy sand and sand soils. Additionally, saturation and a water table were not observed within Community 3 despite the soil pit being advanced to 52 inches below the ground surface. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of hydric soils and a lack of wetland hydrology.

Community 4 includes the relatively flat area identified as a seasonally flooded, intermittent riverine system by the USFWS NWI, which the NWI shows to converge onsite with Jimmy Camp Creek East Tributary. Community 4 is dominated by common kochia (*Bassia scoparia*) and field bindweed (*Convolvulus arvensis*) with minor amounts of lamb's quarters (*Chenopodium album*) and a grass that was not identifiable at the time of assessment due to the lack of inflorescence. No hydric soil indicators were observed within the area's sandy loam and sandy clay loam soils. Additionally, saturation and a water table were not observed within Community 4 despite the soil pit being advanced to 38 inches below the ground surface. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of dominance of hydrophytic vegetation, a negative prevalence index, the lack of hydric soils and a lack of wetland hydrology.

Community 5 includes a depression near the eastern boundary of the Site within the area identified as a seasonally flooded, intermittent riverine system by the USFWS NWI. Community 5 is dominated by field bindweed (*Convolvulus arvensis*) and a grass that was not identifiable at the time of assessment due to the lack of inflorescence. Vegetation in Community 5 also includes minor amounts of lamb's quarters (*Chenopodium album*) and common kochia (*Bassia scoparia*). No hydric soil indicators were observed within the area's sandy clay and sandy loam soils. Additionally, saturation and a water table were not observed within Community 5: soil was dry to a depth of 38 inches. However, oxidized rhizospheres along living roots were detectable within 12 inches of the soil surface. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of hydric soils.

Community 6 is approximately 0.18 acres and includes a drainage channel associated with a windmill-powered well south of Bradley Road. Community 6 is dominated by foxtail barley (*Hordeum jubatum*) and common kochia (*Bassia scoparia*) with minor amounts of lamb's quarters (*Chenopodium album*), Canada thistle (*Cirsium arvense*), field bindweed (*Convolvulus arvensis*) and alfalfa dodder (*Cuscuta approximata*). The community had visible surface water in approximately 30% of the area, surface soil cracks, algal mats and oxidized rhizospheres along living roots from 4-12 inches. Additionally, 5% prominent redox concentrations from 4-12 inches satisfy the criteria for redox dark surface. In my professional opinion, this community meets the criteria to be identified as a wetland based on the predominance of hydrophytic vegetation and the observation of hydric soil and wetland hydrology indicators.

Community 7 is located immediately south of Community 6 and includes the southern edge of the drainage channel that forms Community 6. Community 7 is dominated by blue grama (*Bouteloua gracilis*) and common kochia (*Bassia scoparia*) with minor amounts of lamb's quarters (*Chenopodium album*), alfalfa dodder (*Cuscuta approximata*), annual meadow grass (*Poa annua*), proso millet (*Panicum miliaceum*), common sunflower (*Helianthus annuus*) and golden crownbeard (*Verbesina encelioides*). No hydric soil indicators were observed within the area's silty clay loam and sandy loam soils. Additionally, saturation and a water table were not observed within Community 7: soil was dry to a depth of 30 inches. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of dominance of hydrophytic vegetation, a negative prevalence index, lack of hydric soils, and a lack of wetland hydrology indicators.

Community 8 includes the relatively flat area identified as Jimmy Camp Creek East Tributary south of Bradley Road, which the USFWS NWI describes as a seasonally flooded, intermittent riverine system. Community 8 is dominated by blue grama (*Bouteloua gracilis*), lamb's quarters (*Chenopodium album*) and red-root amaranth (*Amaranthus retroflexus*) with minor amounts of pineapple-weed (*Matricaria discoidea*), common kochia (*Bassia scoparia*), golden crownbeard (*Verbesina encelioides*) and curly dock (*Rumex crispus*). No hydric soil indicators were observed within the area's clay loam and silty loam soils. Additionally, saturation and a water table were not observed within Community 8: soil was dry to a depth of 48 inches. In my professional opinion, this community does not meet the criteria of a wetland based on the lack of dominance of hydrophytic vegetation, a negative prevalence index, the lack of hydric soils and a lack of wetland hydrology.

According to the National Resources Conservation Service's Web Soil Survey, most soils within the Site are classified as Sampson loam, except soils within Community 3 which are classified as Ellicott loamy coarse sand. Additionally, portions of the Site are classified as wetlands according to the USFWS NWI map, including communities 1, 3, 4, 5 and 8 which the NWI describes as temporarily or seasonally flooded riverine habitats.

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Flags were placed along the boundaries of areas identified as wetlands within the Site, which was limited to Community 6 as indicated in the attached figure.

The professional opinions made in this report regarding the location and extent of areas that do or do not satisfy the criteria of a wetland were determined pursuant to the Army Corps of Engineer's Regional Supplement and appropriate guidance and pursuant to confirmation by appropriate regulatory staff including but not limited to the Army Corps of Engineers.

Please contact Ms. Tierney Walsh at 719-457-5613 or Tierney.Walsh@matrixdesigngroup.com should you have any questions or comments.

Sincerely,

Matrix Environmental Services, LLC

herney Walsh

Tierney Walsh Environmental Scientist

Enclosures:

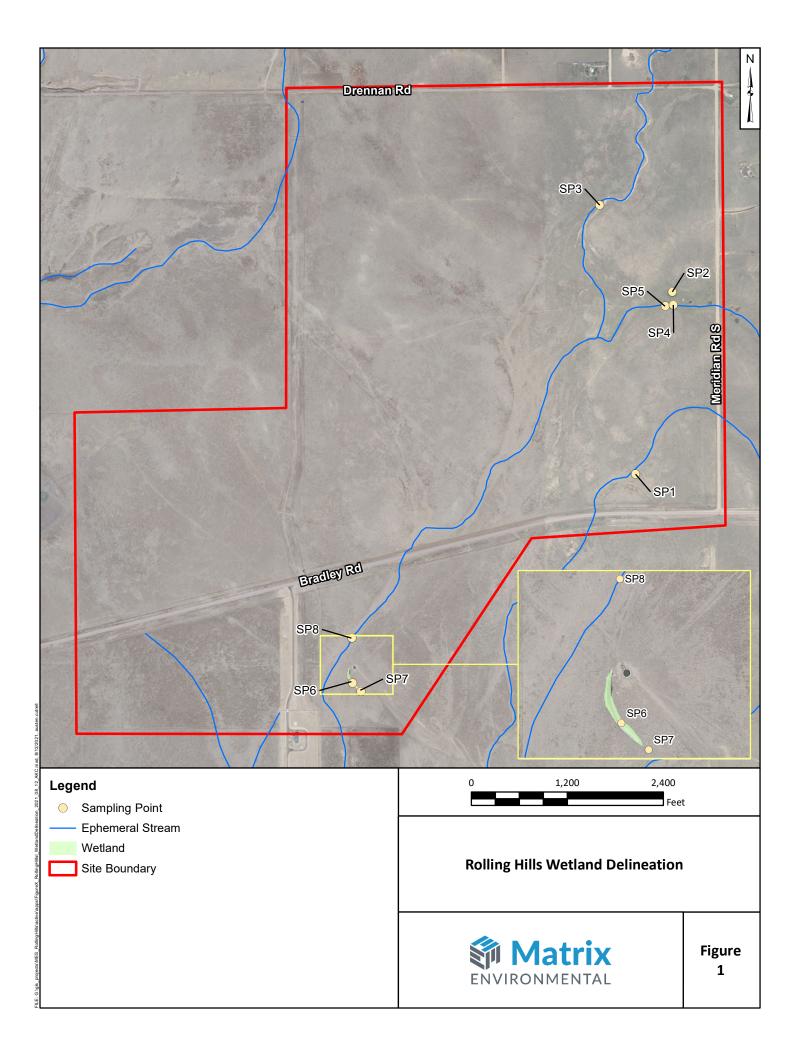
Site Figure

Photolog

Field Data Forms

cc: Mr. Jeff Mark, The Landhuis Company

Figures



Photolog



Photo 1 – Community 1 includes a relatively flat area identified as a seasonally flooded riverine system by the USFWS NWI. Test pit shown in center of foreground.



Photo 3 – Community 2 includes a small depression near the eastern boundary of the Site. Test pit is in the center of the middle ground.



Photo 2 – Community 1's sandy clay soils didn't exhibit hydric soil indicators. Additionally, saturation and a water table were not encountered despite the soil pit extending to a depth of 28 inches.



Photo 4 – Community 2's sandy clay loam and clay soils didn't exhibit hydric soil indicators. Additionally, saturation and a water table were not encountered despite the soil pit extending to a depth of 42 inches.





Photo 5 – Community 3 includes the drainage swale identified as Jimmy Camp Creek East Tributary. Test pit is in the center of the foreground.



Photo 7 – Community 4 includes a relatively flat area identified as a seasonally flooded riverine system by the USFWS NWI. Test pit is in the center of the middle ground.



Photo 6 – Community 3's sandy loam, loamy sand and sand soils didn't exhibit hydric soil indicators, and saturation and a water table were not encountered despite the soil pit extending to a depth of 52 inches.



Photo 8 – Community 4's sandy loam and sandy clay loam soils didn't exhibit hydric soil indicators, and saturation and a water table were not encountered despite the soil pit extending to a depth of 38 inches.





Photo 9 – Community 5 includes a depression near the eastern boundary of the Site within the area identified as a seasonally flooded riverine system by the USFWS NWI. Test pit is on the left in the middle ground.



Photo 11 – Community 6 is approximately 0.18 acres and includes a drainage channel associated with a windmill-powered well south of Bradley Road. Test pit is partially shown in the center of the foreground.



Photo 10 – Community 5's sandy clay and sandy loam soils didn't exhibit hydric soil indicators; however, oxidized rhizospheres along living roots were detectable within 12 inches of the soil surface.



Photo 12 – Community 6's sandy loam soils contained 5% prominent redox concentrations from 4-12 inches, which satisfied the criteria for redox dark surface.





Photo 13 – Community 7 includes the southern edge of the drainage channel that forms Community 6. Test pit is in the center of the middle ground.



Photo 15 – Community 8 includes a relatively flat area identified as a seasonally flooded riverine system by the USFWS NWI. Test pit is in the center of the foreground.



Photo 14 – Community 7's silty clay loam and sandy loam soils didn't exhibit hydric soil indicators, and saturation and a water table were not encountered despite the soil pit extending to a depth of 30 inches.



Photo 16 – Community 8's clay loam and silty loam soils didn't exhibit hydric soil indicators, and saturation and a water table were not encountered despite the soil pit extending to a depth of 48 inches.



Field Forms

roject/Site: Rolling Hills - East Tributary to Jimmy Camp Cro	eek City/County: Colorad	o Springs - El Paso County Sampling Date: 5/13/2
pplicant/Owner: Murray Fountain LLC		State: CO Sampling Point: 1
nvestigator(s); T. Walsh and A. Davis	Section, Township, R	Range: S1 T15S R65W
andform (hillslope, terrace, etc.):	Mundary Local relief (concave	e, convex, none): NOVL Slope (%): D
Subregion (LRR): D	Lat: N38.767754	Long: W 104.612189 Datum: W65
Soil Map Unit Name: Sampson 10 awa		
Are climatic / hydrologic conditions on the site typical for this	•	
		e "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology s		
Are Vegetation, Soil, or Hydrology r	naturally problematic? (II I	needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling point	locations, transects, important features, e
Hydrophytic Vegetation Present? Yes N		
Hydric Soil Present? Yes N	within a Motil	and? Yes No
Wetland Hydrology Present? Yes N Remarks:		
Moderate Drought in area di		t (Drought.gov)
EGETATION – Use scientific names of plan	ts.	
Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	
ـــــــــــــــــــــــــــــــــــــ		 Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:	= Total Cover	That Are OBL, FACW, or FAC:60./. (A/
1		Prevalence Index worksheet:
2		Total % Cover of: Multiply by:
3		OBL species x 1 = EACW species x 2 =
4		FACW species x 2 = FAC species 20 x 3 = 00
5		FACU species 3 $x4 = 12$
Herh Stratum (Plot size:	= Total Cover	UPL species $2 \times 5 = 10$
Herb Stratum (Plot size: 54 1. iunidentifialde grass (no reproductive) 2. Barris Standard Grass (no reproductive)) 100% - Y NA	Column Totals: 25 (A) 82 (B
2. Bassia scoparia	201. Y FAC	Prevalence Index = $B/A = 3.28$
3. Astragalus crassicarpus	5% N NI	Hydrophytic Vegetation Indicators:
4. Chenopodium album	21/ N FACH	1 - Rapid Test for Hydrophytic Vegetation
5. Corsular nutans	2% N UPL	2 - Dominance Test is >50%
6. SENERIO CRASSINIUS	<u>17.</u> N FACU	S - Prevalence Index is ≤3.0 ¹
•		- 4 - Morphological Adaptations ¹ (Provide supportin
8		data in Remarks or on a separate sheet)
9		 5 - Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain)
11		¹ Indicators of hydric soil and wetland hydrology must
	901. = Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		
1		Hydrophytic
2		Vegetation Present? Yes No
% Bare Ground in Herb Stratum	= Total Cover	
Remarks:		
& sampled entire plant communit	3	
S Army Corps of Engineers	**************************************	4

Sampling Point:

ile Description: (Describ	o to the dep		x Features						
th <u>Matrix</u> hes) Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture		Remarks	
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pe: C=Concentration, D=D	epletion, RM	=Reduced Matrix, C	S=Covered	or Coate	d Sand G	rains. ² Loc	ation: PL=	Pore Lining, M=	Matrix.
dric Soil Indicators: (App	licable to all	LRRs, unless othe	rwise note	ed.)		Indicato	rs for Prot	lematic Hydric	Soils ³ :
Histosol (A1)		Sandy Redox (2 cm	Muck (A1)	
Histic Epipedon (A2)		Stripped Matrix						erial (TF2)	
Black Histic (A3)		_ Loamy Mucky) (except	MLRA 1)			ark Surface (TF1	2)
Hydrogen Sulfide (A4)		Loamy Gleyed				<u> </u>	r (Explain i	n Remarks)	
Depleted Below Dark Sur	face (A11)	Depleted Matri					A.		
Thick Dark Surface (A12)		Redox Dark Su	Notes and a second					hytic vegetation	
Sandy Mucky Mineral (S1		Depleted Dark		7)	15 0			y must be prese	nt,
Sandy Gleyed Matrix (S4)		Redox Depres	sions (F8)	9. T	Y lite	unless	disturbed	or problematic.	
strictive Layer (if present):			a de la composición d	1000				
Туре:				W Sec	Ande	a second second			/
Depth (inches):	1.1				M.S.M.	Hydric Soil I	Present?	Yes	No <u>~</u>
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and the second	YE. 20			<u></u>				10 × 3	
Vetland Hydrology Indicato		ed: check all that and				Second	ary Indicat		quired)
Vetland Hydrology Indicator				ac (B9) (e)			all the the Lo	DTS (2 or more re	2.2630.1
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Vetland Hydrology Indicator rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Sta MLRA Salt Crus	ained Leave A 1, 2, 4A , a t (B11)	nc' 4B)	ccept	<u> </u>	ter-Stained 4A, and 4E inage Patte	Leaves (B9) (M ;) erns (B10)	2.2630.1
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Vetland Hydrology Indicato Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Ae Sparsely Vegetated Cor Field Observations: Surface Water Present? Water Table Present? Water Table Present? (includes capillary fringe) Describe Recorded Data (st	of one require) prial Imagery (I ncave Surface Yes Yes	Water-Sta MLRA Salt Crus Aquatic Ir Hydroger Oxidized Presence Recent Ir Stunted c Stunted c Other (Ex (B8)	ained Leave 1, 2, 4A, a t (B11) nvertebrates a Sulfide Od Rhizospher e of Reduceic on Reductic or Stressed (plain in Rei mches): nches):	nd 4B) s (E13) lor (C1) res along I d Iron (C4 on in Tillec Plants (D7 marks) >2%	Living Roo) I Soils (C6 I) (LRR A)	Wa Dra Dry Sat Sha Sha FA4 Rai Fro	ter-Stained 4A, and 4E -Season W uration Visi omorphic P allow Aquita C-Neutral T sed Ant Mo st-Heave H	Leaves (B9) (M) erns (B10) ater Table (C2) ble on Aerial Ima osition (D2) rd (D3) est (D5) unds (D6) (LRR ummocks (D7)	LRA 1, 2,
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Project/Site: Rolling Hills - East Tributary to Jimmy Camp C	reek City/County: Colorado	Springs - El Paso County Sampling Date: 5321
Applicant/Owner: Murray Fountain LLC		State: CO Sampling Point:
Investigator(s): T. Walsh and A. Davis	Section, Township, Ra	nge: S1 T15S R65W
Landform (billslope terrace etc.): ALON 1241 00		convex, none): _ Contwile Slope (%):
	Lat N 38, 224 002	Long 104-610502 Datum: WGS 84
Soil Map Unit Name: Sampson Learn		/
Are climatic / hydrologic conditions on the site typical for th		
Are Vegetation, Soil, or Hydrology		"Normal Circumstances" present? Yes 🗸 No
Are Vegetation, Soil, or Hydrology	,	eeded, explain any answers in Remarks.) ocations, transects, important features, etc.
	No Is the Sampled	Area /
Hydric Soil Present? Yes 1 Wetland Hydrology Present? Yes 1	No within a Wetlan	
Remarks:		
Moderate drought in area du	ning assessment	(drought.gov)
VEGETATION – Use scientific names of pla	0	
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:	% Cover Species? Status	Number of Dominant Species
1. El acagnus angustifolia	<u>901. Y FAC</u>	That Are OBL, FACW, or FAC: 2 (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4	00 = Total Cover	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)		That Are OBL, FACW, or FAC: (A/B)
1	(['])	Prevalence Index worksheet:
2		Total % Cover of:Multiply by:
3		OBL species x 1 =
4	<u>hi</u>	FACW species x 2 = FAC species x 3 =
5		FACU species $5 \times 4 = 20$
Herb Stratum (Plot size:	= Total Cover	UPL species x 4 =
1 BASSAA SLADANIA	201. Y FAC	Column Totals: <u>116</u> (A) <u>3670</u> (B)
2. Unidentifiable grass ("Bunch mass)	201. Y NA	
3. Convolvulus arvensis	10% N NI	Prevalence Index = B/A =
4. Salsola tragus	5% N FACH	Hydrophytic Vegetation Indicators:
5		1 - Rapid Test for Hydrophytic Vegetation
6		\pm 2 - Dominance Test is >50%
7		$\frac{1}{2}$ 3 - Prevalence Index is $\leq 3.0^{1}$
8	271	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9		5 - Wetland Non-Vascular Plants
10		- Problematic Hydrophytic Vegetation ¹ (Explain)
11		¹ Indicators of hydric soil and wetland hydrology must
Weady Vine Stratum (Plot size)	55 /. = Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	7	
1		Hydrophytic
2		Vegetation Present? Yes N
% Bare Ground in Herb Stratum 또.	Total Cover	Present? Yes <u>/ No</u>
Remarks:	and an	
* sampled entire plant community	1	

US Army Corps of Engineers

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Sampl	ing I	Point:
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file Descri	ption: (Describe t	o the dent	h needed to doc	ument the i	indicator	or comm	m the abso	ence	of indicate	ors.)	
pth	Matrix	o ino uopi		dox Feature		or comm	in the above		ormalout	,	
ches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Textu	re		Remarks	
-10	6/E AVOI	108%					Sandy	elan	loan	mist	
-12			•				01		b .		L Ca
-10	10412 217	100%	1				yan	-		PADIC COmp	act in
-21	104R312	797	104R312	- 11.	U	<u>FL</u>	Clury	<u>r</u>	AWISF		
1-31	104R 412	50%	HOR!			4.6	charg?		Marti	Caloz.	
	10412212	50%									
1-42	Loug Ela	99-1	104R 518	2-1	<u> </u>	M	Long s	4.4	Most		
1-10	1041-212	-101-	-10 1K 010			-	Coming a	MTO			
	1		e								
vpe: C=Co	ncentration, D=Dep	letion, RM=	Reduced Matrix,	CS=Covere	d or Coat	ed Sand G	Grains.	² Loc	ation: PL=	Pore Lining, N	/=Matrix.
dric Soil Ir	ndicators: (Applic	able to all	LRRs, unless oth	nerwise not	ted.)		ind 🐔	icato	rs for Prol	blematic Hydi	ric Soils ³ :
Histosol ((A1)		- Sandy Redox	(S5)			-	2 cm	Muck (A1	0)	
Histic Epi	ipedon (A2)		Stripped Mat							iterial (TF2)	
Black His			- Loamy Muck			t MLRA 1				ark Surface (7	(F12)
	n Sulfide (A4)		<u> </u>		2)		_	Othe	er (Explain	in Remarks)	
	Below Dark Surface	e (A11)	- Depleted Ma				3,	liacto	no of burder	abutia usast-t	ion and
-	rk Surface (A12) ucky Mineral (S1)		Redox Dark Depleted Dark							phytic vegetati gy must be pre	
	leyed Matrix (S4)		Depleted Data Redox Depression	•						or problemati	
	ayer (if present):								3 015101000	or problement	
Type:											
Type											
Depth (inc emarks:	:hes):					, , , , , , , , , , , , , , , , , , ,	Hydric	Soil	Present?	Yes	No
Depth (inc emarks: /DROLO							Hydric	Soil	Present?	Yes	No
emarks: (DROLO Vetland Hyd	GY drology Indicators						Hydric	Soil	Present?	Yes	No
emarks: (DROLO Vetland Hyd	GY						S	Secon	dary Indica	tors (2 or more	erequired)
emarks: (DROLO Vetland Hyd rimary Indic Surface	GY drology Indicators cators (minimum of Water (A1)		- Water-	Stained Leav		except	S	Secon	dary Indica	tors (2 or more d Leaves (B9)	erequired)
Permarks: (DROLO Vetland Hyd rimary Indic Surface High Wa	GY drology Indicators cators (minimum of Water (A1) ater Table (A2)		Water-S	Stained Leav RA 1, 2, 4A,		except	<u>s</u>	econ	dary Indica ater-Staine 4A, and 4	tors (2 or more d Leaves (B9) B)	erequired)
Primary India Surface Saturatio	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)		Water-S MLF	Stained Leav RA 1, 2, 4A, ust (B11)	and 4B)	except	S	econ W	dary Indica ater-Staine 4A, and 4 ainage Pat	tors (2 or more d Leaves (B9) B) terns (B10)	e required) (MLRA 1, 2
Primary Indic Surface High Wa Saturatic Water M	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1)		Water-3	Stained Leav RA 1, 2, 4A, ust (B11) c Invertebrate	and 4B) es (B13)	except		econ W	dary Indica ater-Staine 4A, and 4 rainage Pat y-Season \	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C	<u>e required)</u> (MLRA 1, 2 :2)
Primary India Surface High Wa Saturation Water M Sediment	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2)		Water-3 MLF Salt Cru Aquatio	Stained Leav RA 1, 2, 4A, ust (B11) c Invertebrate en Sulfide C	and 4B) es (B13) Odor (C1)			econ W Dr Dr	dary Indica ater-Staine 4A, and 4 rainage Pat ry-Season V aturation Via	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C sible on Aerial	<u>e required)</u> (MLRA 1, 2 :2)
Primary India Control of Control	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)		Water-3 MLF Salt Cri Salt Cri Aquatic Hydrog Oxidize	Stained Leav RA 1, 2, 4A, ust (B11) c Invertebrate ien Sulfide C ed Rhizosphe	and 4B) es (B13) Odor (C1) eres along	Living Ro		Eecon W Dr Dr Dr Sa Sa	dary Indica ater-Staine 4A, and 4 ainage Pat y-Season V aturation Vi eomorphic	tors (2 or more d Leaves (B9) B) terns (B10) Nater Table (C sible on Aerial Position (D2)	<u>e required)</u> (MLRA 1, 2 :2)
Primary India Vetland Hyd Vetland Hyd Vetland Hyd Saturatia Saturatia Water M Sedimen Drift De Algal Ma	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Water-3 MLF Salt Cro Aquatio Hydrog Oxidize Presen	Stained Leav RA 1, 2, 4A, ust (B11) Invertebrate en Sulfide O ed Rhizosphe ce of Reduc	and 4B) es (B13) Odor (C1) eres along red Iron (C	Living Ro	S	econ W Dr Dr Sa G G S	dary Indica ater-Staine 4A, and 4 rainage Pat y-Season V aturation Via eomorphic nallow Aqui	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C sible on Aerial Position (D2) tard (D3)	<u>e required)</u> (MLRA 1, 2 :2)
Primary India Wetland Hyde Primary India Surface High Wa Saturatin Water M Sedimen Sedimen Algal Ma Iron De	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		Water-3 MLF Salt Cro Aquatio Hydrog Oxidize Presen Recent	Stained Leav RA 1, 2, 4A, ust (B11) Invertebrate en Sulfide C ed Rhizosphe ce of Reduc Iron Reduct	and 4B) es (B13) Odor (C1) eres along ed Iron (C tion in Tille) Living Ro 4) ed Soils (C	S	econ W Dr Dr Sa G G S F F F	dary Indica ater-Staine 4A, and 4 rainage Pat y-Season Vi aturation Via eomorphic nallow Aqui AC-Neutral	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C sible on Aerial Position (D2) tard (D3) Test (D5)	e required) (MLRA 1, 2 :2) Imagery (CS
VDROLO Vetland Hyd Trimary India Surface High Wa Saturatio Vater M Sedimen Drift De Algal Ma Inon De Surface	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) a Soil Cracks (B6)	<u>one require</u>	Water-3 MLF Salt Cri Aquatic Hydrog Oxidize Presen Recent Stunted	Stained Leav RA 1, 2, 4A, ust (B11) : Invertebrate en Sulfide C ed Rhizosphe ce of Reduc Iron Reduct d or Stressed	and 4B) es (B13) Odor (C1) eres along ed Iron (C tion in Tille d Plants (I) Living Ro 4) ed Soils (C	S	econ W Dr Dr Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	dary Indica ater-Staine 4A, and 4 rainage Pat y-Season V aturation Via eomorphic nallow Aqui AC-Neutral aised Ant M	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C sible on Aerial Position (D2) tard (D3) Test (D5) lounds (D6) (L	e required) (MLRA 1, 2 :2) Imagery (CS RR A)
Primary India Surface High Wat Saturatio Sedimen Algal Ma Iron Deg Surface Iron Deg Surface Inundat	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) a Soil Cracks (B6) tion Visible on Aeria	<u>one require</u> I Imagery (E	Water-3 MLF Salt Cri Aquatio Hydrog Oxidize Presen Recent Stunted 37) Other (Stained Leav RA 1, 2, 4A, ust (B11) Invertebrate en Sulfide C ed Rhizosphe ce of Reduc Iron Reduct	and 4B) es (B13) Odor (C1) eres along ed Iron (C tion in Tille d Plants (I) Living Ro 4) ed Soils (C	S	econ W Dr Dr Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	dary Indica ater-Staine 4A, and 4 rainage Pat y-Season V aturation Via eomorphic nallow Aqui AC-Neutral aised Ant M	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C sible on Aerial Position (D2) tard (D3) Test (D5)	e required) (MLRA 1, 2 :2) Imagery (CS RR A)
Algal Ma Surface High Wa Saturation Sediment Drift Dep Algal Ma Iron Dep Surface Iron Dep Surface Inundat Sparsel	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca	<u>one require</u> I Imagery (E	Water-3 MLF Salt Cri Aquatio Hydrog Oxidize Presen Recent Stunted 37) Other (Stained Leav RA 1, 2, 4A, ust (B11) : Invertebrate en Sulfide C ed Rhizosphe ce of Reduc Iron Reduct d or Stressed	and 4B) es (B13) Odor (C1) eres along ed Iron (C tion in Tille d Plants (I) Living Ro 4) ed Soils (C	S	econ W Dr Dr Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	dary Indica ater-Staine 4A, and 4 rainage Pat y-Season V aturation Via eomorphic nallow Aqui AC-Neutral aised Ant M	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C sible on Aerial Position (D2) tard (D3) Test (D5) lounds (D6) (L	e required) (MLRA 1, 2 :2) Imagery (CS RR A)
Vetland Hyd Vetland Hyd Vetland Hyd Vetland Hyd Vetland Hyd Surface High Wa Saturation Saturation Vater M Sedimen Drift De Algal Ma Surface Iron De Surface Field Obse	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) e Soil Cracks (B6) tion Visible on Aeria by Vegetated Conca	<u>one require</u> I Imagery (E	Water MLF Salt Cri Salt Cri Aquatic Hydrog Oxidize Presen Recent Stunted S7) Other ((B8)	Stained Leav RA 1, 2, 4A, ust (B11) c Invertebrate en Sulfide O ed Rhizosphe ce of Reduct Iron Reduct d or Stressed Explain in Re	and 4B) es (B13) Odor (C1) eres along ed Iron (C tion in Tille d Plants (I) Living Ro 4) ed Soils (C	S	econ W Dr Dr Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	dary Indica ater-Staine 4A, and 4 rainage Pat y-Season V aturation Via eomorphic nallow Aqui AC-Neutral aised Ant M	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C sible on Aerial Position (D2) tard (D3) Test (D5) lounds (D6) (L	e required) (MLRA 1, 2 :2) Imagery (CS RR A)
Vetland Hyd Vetland Hyd Vetland Hyd Surface High Wa Saturatio Saturatio Saturatio Saturatio Surface Inundat Sparsel Field Obse Surface Wa	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca structions: ater Present?	<u>one require</u> I Imagery (E ve Surface Yes	Water MLF Salt Cri Aquatic Hydrog Oxidize Presen Recent Stunted 37) Other ((B8) No <u>V</u> Depth	Stained Leav RA 1, 2, 4A, ust (B11) c Invertebrate ien Sulfide C ed Rhizosphe ce of Reduct fron Reduct d or Stressed Explain in Re- (inches):	and 4B) es (B13) Odor (C1) eres along ed Iron (C tion in Tille d Plants (I emarks)) Living Ro 4) ed Soils (C	S	econ W Dr Dr Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	dary Indica ater-Staine 4A, and 4 rainage Pat y-Season V aturation Via eomorphic nallow Aqui AC-Neutral aised Ant M	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C sible on Aerial Position (D2) tard (D3) Test (D5) lounds (D6) (L	e required) (MLRA 1, 2 :2) Imagery (CS RR A)
Vetland Hyd Vetland Hyd Vetland Hyd Vetland Hyd Saturati	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) at or Crusts (B6) tion Visible on Aeria ly Vegetated Conca structions: ater Present? e Present?	one require	Water MLF Salt Cri Aquatic Hydrog Oxidize Presen Recent Stunted 37) Other ((B8) No Depth No Depth	Stained Leav RA 1, 2, 4A, ust (B11) : Invertebrate ien Sulfide C ed Rhizosphe ce of Reduct d or Stressed Explain in Re (inches): (inches):	and 4B) es (B13) Odor (C1) eres along ed Iron (C tion in Tille d Plants (I emarks)	y Living Ro 34) ed Soils (C D1) (LRR A	S	econ W Dr Dr Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa Sa	dary Indica ater-Staine 4A, and 4 rainage Pat y-Season V aturation Via eomorphic hallow Aqui AC-Neutral aised Ant M ost-Heave	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C sible on Aerial Position (D2) tard (D3) Test (D5) lounds (D6) (L Hummocks (D	e required) (MLRA 1, 2 :2) Imagery (CS RR A)
emarks: (DROLO Vetland Hyd Frimary India Surface High Wa Saturation Vater N Sedimen Drift Den Algal Ma Surface Surface Surface Sparsel Surface Wa Water Table Saturation Frieduos Ca	GY drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca rvations: ater Present? e Present? Present? present? anillary fringe)	one require I Imagery (E ve Surface Yes Yes Yes	Water MLF Salt Cri Aquation Hydrog Oxidize Present Recent Stunted 37) Other ((B8) No Depth No Depth No Depth	Stained Leav RA 1, 2, 4A, ust (B11) : Invertebrate en Sulfide O ed Rhizosphe ce of Reduct d or Stressed Explain in Re- (inches): (inches):	and 4B) es (B13) Odor (C1) eres along ed Iron (C tion in Tille d Plants (I emarks) > 42.4 > 42.4	Living Ro 4) ed Soils (C D1) (LRR /		Eecon W Dr Sa Ga Sh FA Ra Ra Fr	dary Indica ater-Staine 4A, and 4 rainage Pat y-Season V aturation Via eomorphic hallow Aqui AC-Neutral aised Ant M ost-Heave	tors (2 or more d Leaves (B9) B) terns (B10) Water Table (C sible on Aerial Position (D2) tard (D3) Test (D5) lounds (D6) (L Hummocks (D	e required) (MLRA 1, 2 :2) Imagery (CS RR A)
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WETLAND DETERMINATION DATA FO					1 1
Project/Site: Rolling Hills - East Tributary to Jimmy Camp Creek			Springs - El Paso County		
Applicant/Owner: Murray Fountain LLC			State: CO	Sampling Point:	3
Investigator(s): T. Walsh and A. Davis	Section, To	wnship, Rar	nge: S1 T15S R65W		
Landform (hillslope, terrace, etc.): draway Swill	Local relief	f (concave, c	convex, none):	Slope	(%): <u>6-3'</u>
Subregion (LRR): D					
Soil Map Unit Name: Ellicott bang (burse sand					
Are climatic / hydrologic conditions on the site typical for this time of					
Are Vegetation, Soil, or Hydrology significa			Normal Circumstances"	present? Yes 🗸	No
Are Vegetation, Soil, or Hydrology naturally			eded, explain any answe		
SUMMARY OF FINDINGS – Attach site map show					tures, etc.
	/	31	20 		
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	/ Is th	ne Sampled	Area	/	
Wetland Hydrology Present? Yes No	/ with	nin a Wetlan	d? Yes	No	
Domarka			1	.)	
Moderate drought in area during	g asses	sment	(drought.g	por)	
VEGETATION – Use scientific names of plants.					
Abso	olute Dominant	Indicator	Dominance Test work	sheet:	
	over Species?	Status	Number of Dominant S		(4)
1			That Are OBL, FACW,	or FAC:	(A)
2			Total Number of Domin		
3			Species Across All Stra		(B)
	= Total Co	over	Percent of Dominant Sp That Are OBL, FACW,	or FAC: 33	, (A/B)
Sapling/Shrub Stratum (Plot size: 🗲)			Prevalence Index wor		• (70)
1. Rosa woodsii 5	<u></u>	FACY	Total % Cover of:		by:
2	••••••••••••••••••••••••••••••••••••••	•	OBL species	x 1 =	
3			FACW species		
5			FAC species		
5	5 /- = Total Co	over	FACU species		0
Herb Stratum (Plot size:) reproductive	1		UPL species		C III
1. UNIACIANTAUSLE ONASSING STUDIE 41	<u>o'l.</u> <u>Y</u>	NA	Column Totals:		(B)
	<u>5-1. Y</u>	FAC		x = B/A =3!2	2
3 Kumex Crispus 5 4 Salsola fragus 5:		FACH	Hydrophytic Vegetati		
l c	<i>/</i>	- + / 1	 1 - Rapid Test for I 2 - Dominance Test 	, , , , ,	ion
5 ==== 6 ====			2 - Dominance Tes		
7			4 - Morphological		e supporting
8			data in Remark	s or on a separate s	heet)
9			5 - Wetland Non-V		
10			Problematic Hydro		
11			¹ Indicators of hydric so be present, unless dist		
Woody Vine Stratum (Plot size:)	D·J. = Total Co	over			
1			Hydrophytic		
2			Vegetation		/
	= Total Co	over	Present? Ye	ns No∕	
% Bare Ground in Herb Stratum					
Remarks: * Sanupled endive plant community)				

Sampli		Daint	
Samon	nu	PUIIL	

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Profile Description: (Describe to the depth needed to document the indicator or confi	rm the absence of indicators.)
Depth Matrix Redox Features (inches) Color (moist) % Type ¹ Loc ²	Texture Remarks
0-3 10 4R 4/2 100%	Gandy loan
	such loan moist.
	Loavy sand moist
	A n
20-33 104R 5 4 100%	sand.
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)	- 2 cm Muck (A10)
Histic Epipedon (A2) Stripped Matrix (S6)	Red Parent Material (TF2)
Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA	 Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Depleted Matrix (F3)	3th disctory of hudson hutio constation and
Thick Dark Surface (A12) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present,
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if present):	
Туре:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living R	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living R Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living R Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (from the form the soils (from the soils (Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) A FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living R Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living R Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) A FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living R Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) coots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Raised Ant Mounds (D6) (LRR A)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living R Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (I Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: Yes No Depth (inches): >52 * Water Table Present? Yes No Depth (inches): >52 *	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Frost-Heave Hummocks (D7) etland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living R Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (I Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR Sparsely Vegetated Concave Surface (B8) Depth (inches): Field Observations: No Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): > 52 " Water Table Present? Yes No Depth (inches): > 52 " Water Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections Saturation previous inspections	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Frost-Heave Hummocks (D7) etland Hydrology Present? Yes No
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living R Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (I Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR Sparsely Vegetated Concave Surface (B8) Depth (inches): Field Observations: No Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): > 52 " Water Table Present? Yes No Depth (inches): > 52 " Water Table Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections Saturation previous inspections	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Frost-Heave Hummocks (D7) etland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheres along Living R Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (I Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Pepth (inches): Field Observations: No Depth (inches): Water Table Present? Yes No Saturation Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): > 52 " Water Table Present? Yes No Depth (inches): > 52 " Water Table Present? Yes No Depth (inches): > 52 " <	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) C6) FAC-Neutral Test (D5) A) Frost-Heave Hummocks (D7) etland Hydrology Present? Yes No

1

oject/Site: Rolling Hills - East Tributary to Jimmy Camp Creel	k C		Springs - El Paso County Sampling Date: 514 21
pplicant/Owner: Murray Fountain LLC			State: CO Sampling Point:
westigator(s). T. Walsh and A. Davis	5	Section, Township, Ran	ge: <u>S1 T15S R65W</u>
the price of the p	ry	Local relief (concave, c	onvex, none): 1/10/12 Slope (%): 0-1/.
	Lat: N'2	58 46-4141	Long: W16436-626 Datum: Wess 84
coll Map Unit Name: Sayapson 10am	•	19	NWI classification: R4SBC
re climatic / hydrologic conditions on the site typical for this ti	ime of vea	r? Yes No	(If no, explain in Remarks.)
sre Vegetation, Soil, or Hydrology sig			Normal Circumstances" present? Yes 📈 No
re Vegetation, Soil, or Hydrology nat			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map sl	nowing	sampling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No		Is the Sampled	Area
Hydric Soil Present? Yes No		within a Wetlan	
Wetland Hydrology Present? Yes No.	<u> </u>		
Moderate drought in area durin	<u> </u>	sessment ((drought. gov)
	Absolute	Dominant Indicator	Dominance Test worksheet:
		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3	9. P		Species Across All Strata: (B)
4		= Total Cover	Percent of Dominant Species50./. (A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:
1			Total % Cover of: Multiply by:
2			OBL species x 1 =
3			FACW species x 2 =
4			FAC species 40 x 3 = 120
5		= Total Cover	FACU species 10 x 4 = 40
Herb Stratum, (Plot size:			UPL species $x 5 =$ Column Totals: 60 (A) (B)
1. Bassia sumparia.	40%	Y FAC	Column Totals: <u>60</u> (A) 160 (B)
2. Convolvulus arvensis	40%	Y NI	Prevalence Index = $B/A = 3.20$
3. Chenopodium album	10.1.	N FACU	Hydrophytic Vegetation Indicators:
4. Unidentifiable grass (no reproductive structures)	17 .	N NA	1 - Rapid Test for Hydrophytic Vegetation
0			2 - Dominance Test is >50%
6			$=$ 3 - Prevalence Index is $\leq 3.0^{1}$
7			 4 - Morphological Adaptations' (Provide supporting data in Remarks or on a separate sheet)
8			 5 - Wetland Non-Vascular Plants¹
9			 Problematic Hydrophytic Vegetation¹ (Explain)
10			¹ Indicators of hydric soil and wetland hydrology must
11		= Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			
1			Hydrophytic
2			Vegetation Present? Yes No 3
% Bare Ground in Herb Stratum _5:/.		_= Total Cover	Present? Yes No

	. 4
Sampling Poin	it: 4

		oth needed to docum	ient the i	iuicator	or comm	n the absence	of inuicators.)
Depth Mat	rix		Features				
(inches) Color (mois		Color (moist)	%	Type	Loc ²	Texture	Remarks
0-3 101R2	2 100-1-					sandy loar	
3-95 104R2	2 100%.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Sara loan	- noist.
9.5-29 10 YR2	2 99.1.	104R36	1-).	6	PL	14	the ()
			<u> </u>		10	Sandy been	comparted dy
					······		
							1 × 1
¹ Type: C=Concentration, D=	Depletion, RM	Reduced Matrix, CS	=Covered	or Coate	d Sand Gr	rains. ² Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Ap	plicable to all	LRRs, unless other	vise note	d.)			rs for Problematic Hydric Soils ³ :
- Histosol (A1)		Sandy Redox (S	5)				1 Muck (A10)
Histic Epipedon (A2)		Stripped Matrix (6	Parent Material (TF2)
Black Histic (A3)	· ·	Loamy Mucky M	ineral (F1) (except	MLRA 1)	— Very	Shallow Dark Surface (TF12)
- Hydrogen Sulfide (A4)		Loamy Gleyed N	latrix (F2)				r (Explain in Remarks)
Depleted Below Dark Su		Depleted Matrix					
 Thick Dark Surface (A12 Sandy Mucky Mineral (S 		- Redox Dark Surf					rs of hydrophytic vegetation and
 Sandy Mucky Milleral (S Sandy Gleyed Matrix (S4 		_ Depleted Dark S		7)			nd hydrology must be present,
Restrictive Layer (if presen		Redox Depression	ons (F8)			unles	s disturbed or problematic.
Type:	. ,.						
Depth (inches):							/
Remarks:		<u> </u>				Hydric Soil	Present? Yes No _V
Remarks.							
							<u></u>
HYDROLOGY							
HYDROLOGY Wetland Hydrology Indicate	ors:						
Wetland Hydrology Indicate		d; check all that apply)				Secon	tany Indicators (2 or more required)
Wetland Hydrology Indicator Primary Indicators (minimum		1.		s (B9) (ex	cept		dary Indicators (2 or more required)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1)		Water-Stain	ed Leave		cept	<u> </u>	ater-Stained Leaves (B9) (MLRA,1, 2,
Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Water-Stain MLRA 1,	ed Leave 2, 4A, ar		cept	<u> </u>	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B)
Wetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Stain MLRA 1, Salt Crust (E	ed Leave 2, 4A, ar 311)	nd 4B)	cept	<u> </u>	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		 Water-Stain MLRA 1, Salt Crust (E Aquatic Investion 	ed Leave 2, 4A, ar 311) ertebrates	(B13)	cept	Wa Dra Dra	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		 Water-Stain MLRA 1, Salt Crust (E Aquatic Investion Hydrogen S 	ed Leave 2, 4A, ar 311) artebrates ulfide Odd	nd 4B) (B13) pr (C1)		Wa Dra Dra Sa	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		 Water-Stain MLRA 1, Salt Crust (E Aquatic Investigation Hydrogen S Oxidized Rh 	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere	nd 4B) (B13) or (C1) es along L	iving Root	— Wa — Dr. — Dr. — Sa (C3) <u>—</u> Ge	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		 Water-Stain MLRA 1, Salt Crust (E Aquatic Investigation Hydrogen S Oxidized Rh Presence of 	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere Reduced	nd 4B) (B13) or (C1) es along L Iron (C4)	iving Rool	Wa Dr. Dr. Sa is (C3) Ge Sh	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) tomorphic Position (D2) allow Aquitard (D3)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere Reduced Reduction	(B13) or (C1) es along L Iron (C4) n in Tilled	iving Root Soils (C6)	Wa Dr. Dr. Sa (S (C3) Ge Sh FA	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5)
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Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	<u>of one required</u> ial Imagery (B7	 Water-Stain MLRA 1, Salt Crust (E Aquatic Investigation Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explanation) 	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere Reduced Reduced tressed F	(B13) (B13) or (C1) es along L Iron (C4) n in Tilled Plants (D1	iving Root Soils (C6)	- Wa - Dr. - Dr. - Sa (C3) - Ge - Sh - FA - Ra	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5)
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Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Sparsely Vegetated Conc Field Observations:	of one required ial Imagery (B7 cave Surface (E Yes N	 Water-Stain MLRA 1, Salt Crust (E Aquatic Investigation Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain 	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere Reduced Reduction itressed F ain in Rem	(B13) (B13) or (C1) es along L Iron (C4) n in Tilled Plants (D1	iving Root Soils (C6)	- Wa - Dr. - Dr. - Sa (C3) - Ge - Sh - FA - Ra	Ater-Stained Leaves (B9) (MLRA1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Conc Field Observations: Surface Water Present?	of one required ial Imagery (B7 cave Surface (E Yes N Yes N	 Water-Stain MLRA 1, Salt Crust (E Aquatic Investigation Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain 	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere Reduced Reduced Reduction itressed F in in Rem es): es):	(B13) (B13) or (C1) es along L Iron (C4) n in Tilled Plants (D1	iving Rool Soils (C6)) (LRR A)	Wa Dr. Dr. Sa as (C3) Ge Sh FA Ra Fro	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Conc Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	of one required ial Imagery (B7 cave Surface (E Yes N Yes N Yes N	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain Depth (inch Depth (inch Depth (inch	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere Reduced Reduced Reduction itressed F ain in Rem es): es):	(B13) (B13) or (C1) es along L Iron (C4) n in Tilled Plants (D1) narks)	iving Rool Soils (C6)) (LRR A)	Wa Dr. Sa is (C3) Ge Sh FA Ra Fro	Ater-Stained Leaves (B9) (MLRA1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Conc Field Observations: Surface Water Present? Water Table Present? Saturation Present?	of one required ial Imagery (B7 cave Surface (E Yes N Yes N Yes N	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain Depth (inch Depth (inch Depth (inch	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere Reduced Reduced Reduction itressed F ain in Rem es): es):	(B13) (B13) or (C1) es along L Iron (C4) n in Tilled Plants (D1) narks)	iving Rool Soils (C6)) (LRR A)	Wa Dr. Sa is (C3) Ge Sh FA Ra Fro	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Conc Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stree	of one required ial Imagery (B7 cave Surface (E Yes N Yes N Yes N	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain Depth (inch Depth (inch Depth (inch	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere Reduced Reduced Reduction itressed F ain in Rem es): es):	(B13) (B13) or (C1) es along L Iron (C4) n in Tilled Plants (D1) narks)	iving Rool Soils (C6)) (LRR A)	Wa Dr. Sa is (C3) Ge Sh FA Ra Fro	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)
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Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Conc Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stree	of one required ial Imagery (B7 cave Surface (E Yes N Yes N Yes N	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain Depth (inch Depth (inch Depth (inch	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere Reduced Reduced Reduction itressed F ain in Rem es): es):	(B13) (B13) or (C1) es along L Iron (C4) n in Tilled Plants (D1) narks)	iving Rool Soils (C6)) (LRR A)	Wa Dr. Sa is (C3) Ge Sh FA Ra Fro	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aer Sparsely Vegetated Conc Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stree	of one required ial Imagery (B7 cave Surface (E Yes N Yes N Yes N	Water-Stain MLRA 1, Salt Crust (E Aquatic Inve Hydrogen S Oxidized Rh Presence of Recent Iron Stunted or S Other (Explain Depth (inch Depth (inch Depth (inch	ed Leave 2, 4A, ar 311) ertebrates ulfide Odd izosphere Reduced Reduced Reduction itressed F ain in Rem es): es):	(B13) (B13) or (C1) es along L Iron (C4) n in Tilled Plants (D1) narks)	iving Rool Soils (C6)) (LRR A)	Wa Dr. Sa is (C3) Ge Sh FA Ra Fro	ater-Stained Leaves (B9) (MLRA-1, 2, 4A, and 4B) ainage Patterns (B10) y-Season Water Table (C2) turation Visible on Aerial Imagery (C9) comorphic Position (D2) allow Aquitard (D3) C-Neutral Test (D5) ised Ant Mounds (D6) (LRR A) ost-Heave Hummocks (D7)

WETLAND DETERMINATION DA	TA FORM -	Western Mou	untains, Valleys, and Coast Region
Project/Site: Rolling Hills - East Tributary to Jimmy Camp C	reek City/C	County: Colorado	Springs - El Paso County Sampling Date: 5/14/21
Applicant/Owner: Murray Fountain LLC			State: CO Sampling Point: 5
Investigator(s): T. Walsh and A. Davis			ange: S1 T15S R65W
			convex, none): Slope (%): <u>(2-5</u>
Subregion (LRR): D	Lat: 38.41	0.413N	Long: W104 - 36 647 Datum: W65 84
Soil Map Unit Name: Sampson DAM		<u> </u>	NWI classification:
Are climatic / hydrologic conditions on the site typical for th			
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
			locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N Remarks: Moderate drought in avea duni	lo	ls the Sampled within a Wetla	d Area nd? Yes No
VEGETATION – Use scientific names of plar			
	Absolute Don	ninant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	<u>% Cover</u> Spe	cies? Status	Number of Dominant Species
1 2			That Are OBL, FACW, or FAC: (A)
3			Total Number of Dominant Species Across All Strata: (B)
4			
	= To	tal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:O (A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:
12.			Total % Cover of:Multiply by:
3			OBL species x 1 =
4			FACW species x 2 =
5			FAC species $16 \times 3 = 30$
Harth Otrachum (Distan)	= To	tal Cover	FACU species $10 \times 4 = 40$
Herb Stratum (Plot size)	40.).	×	UPL species $x 5 =$ Column Totals: 20 (A) 70 (B)
1. unidentifiable grass (no reproductives) 2. Convolvulus arvensis	20.1.		
3. Chenopodium album	10./.	J FACU	Prevalence Index = B/A = <u>3.5</u>
4. Bassia supparia	and analysis and	V FAC	Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
5			2 - Dominance Test is >50%
6			$\underline{-}$ 3 - Prevalence Index is $\leq 3.0^{1}$
7		the second second	<u>4</u> - Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
9			5 - Wetland Non-Vascular Plants
10			<u>Problematic Hydrophytic Vegetation</u> ¹ (Explain)
11	80 % = Tota		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			
1			Hydrophytic
2			Vegetation Present? Yes No
% Bare Ground in Herb Stratum 20.).	= Tota	al Cover	
Remarks:	******		1
* sampled entire plant community			

1

•

Sampling Point:	5
	1000000

No and

Profile Description: (Describe to the depth needed to document the indicator or confirm	n the absence of indicators.)
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) % Type ¹ Loc ²	Texture Remarks
0-4.5 1048212	sandy clay moist
4.5"75 104R212 981. 7.54R 34 27. C PL	Gandy day composedes
7.5-11 104212 971. 7.54R 314 31. C PL	Sandyday 1
<u><u><u>r</u></u><u>r</u><u>r</u><u>r</u><u>r</u><u>r</u><u>r</u><u>r</u><u>r</u><u>r</u><u>r</u><u>r</u><u></u></u>	sandy day dus
	Sandry clary
21-22 1040514 95% 1041316 5% C M	Sandy ion
22-38 IDYR54 100%.	Gardy low dry
	0
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand G	rains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1) Sandy Redox (S5)	2 cm Muck (A10)
Histic Epipedon (A2)	Red Parent Material (TF2)
- Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1)	 Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Other (Explain in Remarks)
Depleted Below Dark Surface (A11) _ Depleted Matrix (F3)	³ Indicators of hydrophytic vegetation and
- Thick Dark Surface (A12) - Redox Dark Surface (F6)	wetland hydrology must be present,
 Sandy Mucky Mineral (S1) → Depleted Dark Surface (F7) → Sandy Gleved Matrix (S4) → Redox Depressions (F8) 	unless disturbed or problematic.
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Restrictive Layer (if present):	
Type: Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
HYDROLOGY	
Wetland Hydrology Indicators:	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Oxidized Rhizospheres along Living Room	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Oxidized Rhizospheres along Living Roc Algal Mat or Crust (B4) — Presence of Reduced Iron (C4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) ots (C3) Geomorphic Position (D2) Shallow Aquitard (D3)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Oxidized Rhizospheres along Living Rood Algal Mat or Crust (B4) — Presence of Reduced Iron (C4) Iron Deposits (B5) — Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) — Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) — Other (Explain in Remarks)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Stallow Aquitard (D3) FAC-Neutral Test (D5)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Oxidized Rhizospheres along Living Rod Algal Mat or Crust (B4) — Presence of Reduced Iron (C4) Iron Deposits (B5) — Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) — Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) — Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Fleid Observations: Surface Water Present? Yes	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) the Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Oxidized Rhizospheres along Living Rood Algal Mat or Crust (B4) — Presence of Reduced Iron (C4) Iron Deposits (B5) — Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) — Stunted or Stressed Plants (D1) (LRR A Inundation Visible on Aerial Imagery (B7) — Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Pepth (inches): Field Observations: Yes No Saturation Present? Yes No Saturation Present? Yes No Depth (inches): '> 38' '' Wett	 Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Oxidized Rhizospheres along Living Rod Algal Mat or Crust (B4) — Presence of Reduced Iron (C4) Iron Deposits (B5) — Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) — Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) — Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Pepth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No GBT
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Oxidized Rhizospheres along Living Rood Algal Mat or Crust (B4) — Presence of Reduced Iron (C4) Iron Deposits (B5) — Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) — Stunted or Stressed Plants (D1) (LRR A Inundation Visible on Aerial Imagery (B7) — Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Pepth (inches): Field Observations: Yes No Saturation Present? Yes No Saturation Present? Yes No Depth (inches): '> 38' '' Wett	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No GBT
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) — MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Presence of Reduced Iron (C4) Iron Deposits (B5) — Recent Iron Reduction in Tilled Soils (C6 Surface Soil Cracks (B6) — Stunted or Stressed Plants (D1) (LRR A Surface Water Present? Yes _No _ Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No GBT
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Oxidized Rhizospheres along Living Rod Algal Mat or Crust (B4) — Presence of Reduced Iron (C4) Iron Deposits (B5) — Recent Iron Reduction in Tilled Soils (C6) Surface Soil Cracks (B6) — Stunted or Stressed Plants (D1) (LRR A) Inundation Visible on Aerial Imagery (B7) — Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) Pepth (inches): Field Observations: Yes No Depth (inches): > 38' 4' Saturation Present? Yes No Depth (inches): > 38' 4' Water Table Present? Yes No Depth (inches): > 38' 4'	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) + Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No BR
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Oxidized Rhizospheres along Living Rood Algal Mat or Crust (B4) — Presence of Reduced Iron (C4) Iron Deposits (B5) — Recent Iron Reduction in Tilled Soils (C6 Surface Soil Cracks (B6) — Stunted or Stressed Plants (D1) (LRR A Inundation Visible on Aerial Imagery (B7) — Other (Explain in Remarks) Surface Water Present? Yes No Water Table Present? Yes No Water Table Present? Yes No Saturation Present? Yes No Depth (inches): Yes No Depth (inches): Yes Wetl (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections),	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) + Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No BR
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) — Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) High Water Table (A2) — MLRA 1, 2, 4A, and 4B) Saturation (A3) — Salt Crust (B11) Water Marks (B1) — Aquatic Invertebrates (B13) Sediment Deposits (B2) — Hydrogen Sulfide Odor (C1) Drift Deposits (B3) — Presence of Reduced Iron (C4) Iron Deposits (B5) — Recent Iron Reduction in Tilled Soils (C6 Surface Soil Cracks (B6) — Stunted or Stressed Plants (D1) (LRR A Surface Water Present? Yes _No _ Depth (inches):	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) + Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No BR
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) Saturation (A3) Saturation (A3) Saturation (A3) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Surface Soil Cracks (B6) Sturation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): 38'' Water Table Present? Yes No Depth (inches): 738'' Weti Muthation Present? Yes No Depth (inches): 738'' Weti	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Sts (C3) + Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) A Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes No BR

			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Project/Site: Rolling Hills - East Tributary to Jimmy Camp Creek	City/County: Colorado	Springs - El Paso Count	Y Sampling Date:	87/21
Applicant/Owner: Murray Fountain LLC		State: CO	_ Sampling Point:	6
Investigator(s): T. Walsh and A. Davis	Section, Township, R	ange: Stil 15S R65W	1	1
Landform (hillslope, terrace, etc.): drainage channel for we	Local relief (concave.	convex, none): <u>Conca</u>		pe (%): <u>0-2.).</u>
	38° 45.642'	Long: W104° 37.	.478' Datu	Im: WGS 84
Subregion (LRR): D Lat: N Soil Map Unit Name:Lat: N	1	NWI classif	fication: None	-
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes 🔽 No	(If no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology significant		"Normal Circumstances"	" present? Yes 🔽	No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If r	needed, explain any answ	vers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showin		locations, transect	ts, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes No	- In the Comple	4 4 4 4 4	1	

Hydric Soil Present? Wetland Hydrology Present?	Yes No Yes No	Is the Sampled Area within a Wetland? Yes No	
Remarks:			

VEGETATION – Use scientific names of plants.

	Absolute		t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1	State 1			That Are OBL, FACW, or FAC:
2				Total Number of Dominant
3.				Species Across All Strata: 2 (B)
4				
		= Total Co		Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)			Uvei	
1				Prevalence Index worksheet:
			· · · · · · · · .	Total % Cover of: Multiply by:
2.				OBL species x 1 =
3				FACW species O x 2 = O
4				FAC species 03 x 3 = 189
5				FACU species 18 x 4 = 72
		= Total Co	over	A
Herb Stratum (Plot size:	0.			
1. Hordeum Jubatum	30	<u> </u>	FAC	Column Totals: <u>\$1</u> (A) <u>261</u> (B)
2. Bassia signariam	30	1	FAC	Prevalence Index = $B/A = 3.22$
3. Chenopodium album	15	N	FACM	Hydrophytic Vegetation Indicators:
4. Cirsinm arvense	2	Ν	FAC	1 - Rapid Test for Hydrophytic Vegetation
5. Convolvulus avvensis	2	N	NI	+ 2 - Dominance Test is >50%
	0	N	NI	
				3 - Prevalence Index is ≤3.0 ¹
7. Rumex crispus		N	FAC	<u>4</u> - Morphological Adaptations ¹ (Provide supporting
8. Andropozon gerardii		<u>N</u>	FACU	data in Remarks or on a separate sheet)
9. <u>Helian thus annus</u>		N	FACU	5 - Wetland Non-Vascular Plants
10. Verbesina encelipides		Ņ	FACY	Problematic Hydrophytic Vegetation ¹ (Explain)
11				¹ Indicators of hydric soil and wetland hydrology must
	85	= Total Co	over	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		-		
1				Hydrophytic
2				Vegetation
		= Total Co	wer	Present? Yes V No
% Bare Ground in Herb Stratum				
Remarks:				J
* Sampled entire plant community				
Sur have branch brand sound and				

					Sam	pling Point:
SOIL Profile Description: (Descrit	to the death	needed to document the	indicator or	confirm t	ne absence of indicators)
		Redox Featur				
Depth Matrix (inches) Color (moist)	%	Color (moist) %	Type'	Loc ²	Texture	Remarks
0-4 104R 2/2	. 100				undy loan	
4-6 104R212		104R3110 31.	C	PL	Prominent	A
-0-		0 YR 3 4 5%	C	PL	2°	, fi
6-10 HOYK 2/2		10 MR 3/10 2	- <u> </u>	01, 40	winding	*
10-16 10 4R 212	- 900 -				1 11 1	
16-22 104R 312	- 97 -	10 YR4/6 31.	the set	PL 450		1
22-27 104E 412	95_	104R4/4 51			Joan 1	1
27-30 104× 4/2	99.	104R416 11.	<u> </u>	M	oumy sand	
		· · · · · · · · · · · · · · · · · · ·			The second se	The second se
¹ Type: C=Concentration, D=D	epletion, RM=F	Reduced Matrix CS=Cover	ed or Coated	Sand Grai	ns. ² Location: PL=Pc	re Lining, M=Matrix.
Hydric Soil Indicators: (App	licable to all L	RRs, unless otherwise no	ted.)		marculore	matic Hydric Solls":
- Histosol (A1)	-	Sandy Redox (S5)		THE .	- 2 cm Muck (A10)	al (TE2)
Histic Epipedon (A2)	_	 Stripped Matrix (S6) 			 Red Parent Mater Very Shallow Darl 	Surface (TF12)
Black Histic (A3)	1. Carlos -	Loamy Mucky Mineral (LRA 1)	Other (Explain in	Remarks)
 Hydrogen Sulfide (A4) 	-	Loamy Gleyed Matrix (F	2)			(onland)
 Depleted Below Dark Surf 	ace (A11)	Depleted Matrix (F3)			³ Indicators of hydrophy	tic vegetation and
Thick Dark Surface (A12)		Redox Dark Surface (Fe			wetland hydrology	nust be present,
Sandy Mucky Mineral (S1)	· ·	 Depleted Dark Surface Redox Depressions (F8) 			unless disturbed or	problematic.
— Sandy Gleyed Matrix (S4) Restrictive Layer (if present		- Redux Depressions (1 d	,			
	and the second se					/
Type:					Hydric Soil Present?	/es No
Depth (inches):	die	florom in upper 12"			•	ষ্
HYDROLOGY						
Wetland Hydrology Indicato	ors:					
Primary Indicators (minimum		check all that apply)			Secondary Indicato	rs (2 or more required)
L Surface Water (A1)		 Water-Stained Lea 	ives (B9) (exc	ept	Water-Stained	Leaves (B9) (MLRA 1, 2,
 High Water Table (A2) 		MLRA 1, 2, 4A	and 4B)		4A, and 4B)	
- Saturation (A3)		Salt Crust (B11)			Drainage Patte	
Water Marks (B1)		 Aquatic Invertebra 	tes (B13)		🗾 Dry-Season W	
 Sediment Deposits (B2) 		- Hydrogen Sulfide				ole on Aerial Imagery (C9)
 Drift Deposits (B3) 		+ Oxidized Rhizosph	eres along Li	ving Roots	(C3) 🛨 Geomorphic Po	
+ Algal Mat or Crust (B4)		Presence of Redu	ced Iron (C4)		Shallow Aquita	
 Iron Deposits (B5) 		- Recent Iron Reduc	tion in Tilled	Soils (C6)	FAC-Neutral Te	
+ Surface Soil Cracks (B6)		 Stunted or Stresse 	d Plants (D1)	(LRR A)	Raised Ant Mo	
 Inundation Visible on Aer 	ial Imagery (B7)) Other (Explain in F	Remarks)		 Frost-Heave H 	ummocks (D7)
Sparsely Vegetated Cond						
Field Observations:	,	\$?				
Surface Water Present?	Yes 🗹 N	lo Depth (inches): _	0-11"	-		
Water Table Present?	Yes N	lo Depth (inches): _	>48	14.5e		./
Saturation Present?	Yes N	lo Depth (inches): _	>48	Wetla	d Hydrology Present?	Yes <u>V</u> No
(includes capillary fringe)						
Describe Recorded Data (stre	eam gauge, mor	nitoring well, aerial photos,	previous inspe	ecuons), If	available	
**.			(Bergeler (Belt) Marco (Maron grad Security Arrangeder (14) (Ma		a fangan yang bermaka kalang ang ang ang ang ang ang ang ang ang	
Remarks						C. T. C. T. C.
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	and the second second					
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oject/Site: Rolling Hills - East Tributary to Jimmy Camp Creek	C	ity/County: Colorad	to Springs - El Paso County Sampling Date: 3721
Solicant/Owner: Murray Fountain LLC			State: CO Sampling Point:
That is a difference of the Device	S	Section, Township, F	Range: S12T15S R65W
and al devidence chain	nel · I	ocal relief (concave	e convex none); None-Concoure Slope (%):
andform (nilisiope, terrace, etc.).	at N3	8.45.625	Long: W 104.37.456 Datum: W65.84
ubregion (LRR): D oil Map Unit Name: <u>Sluwy9by WIM</u>			NWI classification: None
oil Map Unit Name:		No No	(If no explain in Remarks.)
re climatic / hydrologic conditions on the site typical for this tir	ne of yea		re "Normal Circumstances" present? Yes No
re Vegetation, Soil, or Hydrology sign	ificantly c		
re Vegetation, Soil, or Hydrology natu	urally prob		needed, explain any answers in Remarks.)
		sampling poin	t locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No _		Is the Samp	led Area
Hydric Soil Present? Yes No _		within a Wel	
Wetland Hydrology Present? Yes No _			
Remarks: No drought at time of assessment in El /EGETATION - Use scientific names of plants		drought. gov)
	Absolute	Dominant Indicato	Dominance Test worksheet:
		Species? Status	
2			Total Number of Dominant
3			_ Species Across All Strata: (B)
4			Percent of Dominant Species
		= Total Cover	That Are OBL, FACW, or FAC:(A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:
1			Total % Cover of: Multiply by:
2			$\bigcirc OBL \text{ species } \bigcirc x 1 = \bigcirc \bigcirc$
3			FACW species $b = 2 = 0$
4 5			FAC species $4b$ x 3 = 120
		= Total Cover	$\begin{array}{c} \hline \\ FACU \text{ species} \\ \hline \\ UP \text{ species} \\ \hline \\ \hline \\ \end{array} \begin{array}{c} 26 \\ x 5 = \\ 7 \\ x 5 = \\$
Herb Stratum (Plot size: 4			
1. Boutelour gracilis		Y NI	(-,
2. BASSIA SLOPPARIA	30:1.	Y FAC	
3. Chenopodium album	20%	N FAC	
4. <u>Cuscuta approximata</u>	10%	N NI	
5. Poa princia	10%	N FA	
6. <u>Panicum milia ceum</u>	5./.	N N FAC	
7. Herianthus annus	21.	N FAC	i instructed and in the first of the first o
8. Verbesing encelioides 9. Pascopyrum smithi	and the second second second	N FAU	
			Problematic Hydrophytic Vegetation ¹ (Explain)
10. 11.	- 14		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	110	_= Total Cover	
1			Hydrophytic
			Vegetation
2			Present? Yes No V
2 % Bare Ground in Herb Stratum0		= Total Cover	

Samp	lina	Point:	

SOIL			S	Sampling Point:
Profile Description: (Describe	to the depth needed to docume	nt the indicator or confir	rm the absence of indicate	ors.)
Depth <u>Matrix</u>	Redox F		_	· · · · · · · · · · · · · · · · ·
(inches) Color (moist)	<u>%</u> <u>Color (moist)</u>	<u>% Type' Loc²</u>		Remarks
Ord loykar	100 -		sandy	······································
9.10 104R22	99.1. 10MR316	11. C PL	Idama pron	<u> </u>
16-30 104R22	abg:). 1048314	11. C M	clay lam 1.20	latim deposits .
3			0 .	
		1		
			d.	1
		2 14 1.3		
	letion, RM=Reduced Matrix. CS=C			Pore Lining, M=Matrix.
	able to all LRRs, unless otherwis			lematic Hydric Soils ³ :
Histosol (A1) Histic Epipedon (A2)	Sandy Redox (S5)		2 cm Muck (A10 Red Parent Mat	
Black Histic (A3)		eral (F1) (except MLRA 1)		ark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Mat		Other (Explain in	
Depleted Below Dark Surface	e (A11) Depleted Matrix (Fi	3)		
- Thick Dark Surface (A12)	— Redox Dark Surface		³ Indicators of hydrop	
Sandy Mucky Mineral (S1)	Depleted Dark Sur	• • • •		y must be present,
Sandy Gleyed Matrix (S4) Restrictive Layer (if present):	Redox Depression:	s (F8)	unless disturbed	or problematic.
Type:	and the second sec		Hydric Soil Present?	Yes No V
Depth (inches):			Hydric Soli Present?	
HYDROLOGY			·	
			·····	
Wetland Hydrology Indicators: Primary Indicators (minimum of or	be required; check all that apply)		Secondary Indicate	ors (2 or more required)
Surface Water (A1)		Leaves (B9) (except		Leaves (B9) (MLRA 1, 2,
High Water Table (A2)		, 4A, and 4B)	4A, and 4E	
Saturation (A3)	Salt Crust (B1		Drainage Patte	
Water Marks (B1)	Aquatic Inverte		Dry-Season W	
Sediment Deposits (B2)	— Hydrogen Sulf	ide Odor (C1)	<u> </u>	ble on Aerial Imagery (C9)
Drift Deposits (B3)	<u> </u>	ospheres along Living Rool	ts (C3) 🔟 Geomorphic P	osition (D2)
Algal Mat or Crust (B4)	Presence of Re	educed Iron (C4)	— Shallow Aquita	ard (D3)
Iron Deposits (B5)		eduction in Tilled Soils (C6)		
Surface Soil Cracks (B6)		essed Plants (D1) (LRR A)		unds (D6) (LRR A)
Inundation Visible on Aerial Im	• • • • •	In Remarks)	Frost-Heave H	
Sparsely Vegetated Concave	SULIACE (RS)			
Field Observations:		N		
	s No Depth (inches s No Depth (inches	>30"		/
			and Hydrology Present?	Yes No
(includes capillary fringe)	s No Depth (inches	·		
Describe Recorded Data (stream g	auge, monitoring well, aerial photo	os, previous inspections), if	f available:	
Remarks:				
				-

Project/Site: Rolling Hills - East Tributary to Jimmy Camp Creek	City/County: Colorado Springs - El Paso County Sampling Date: 8/8/21
Applicant/Owner: Murray Fountain LLC	State: CO Sampling Point: 8
Investigator(s): T. Walsh and A. Davis	Section, Township, Range: <u>S1 T15S R65W</u> Local relief (concave, convex, none): <u>none</u> Slope (%): <u>0- 2・/.</u> <u>3・45・735</u> Long: <u>W104[°]37・478</u> Datum: <u>W6</u> 84
Soil Map Unit Name: <u>Somework Loam</u> Are climatic / hydrologic conditions on the site typical for this time of ye Are Vegetation, Soil, or Hydrology significantly Are Vegetation, Soil, or Hydrology naturally pro-	v disturbed? Are "Normal Circumstances" present? Yes 🖌 No
Hydrophytic Vegetation Present? Yes No Hydroc Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Yes No	Is the Sampled Area within a Wetland? Yes No

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	 Absolute % Cover 	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strata:3(B)
4		= Total Co	over	Percent of Dominant Species That Are OBL, FACW, or FAC:O(A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x 1 =
3		-		FACW species x 2 =
4			-	FAC species $3 = 24$
5				FACU species x4 =
Uset Oristan (Distaine)		= Total Co	iver	UPL species x 5 =
Herb Stratum (Plot size: 7) 1. Bouteloya Oracilis	60%	У	14	Column Totals: 6 (A) 136 (B)
2. Chenopodium album	201	Y	FACU	Prevalence Index = $B/A = 3.84$
3. Amaranthus retroflexus	20.1.	4	FACY.	Hydrophytic Vegetation Indicators:
4. Chamomilla Suaveolensow	10%	N	FACU	1 - Rapid Test for Hydrophytic Vegetation
5. Passia scorparia	51.	N	FAC.	2 - Dominance Test is >50%
6. Verbesina Offidetritalisencelia	ides 3.1.	N	FACM	$=$ 3 - Prevalence Index is $\leq 3.0^{1}$
7. Rumex crispus	2.1.	N	FAC	4 - Morphological Adaptations ¹ (Provide supporting
8. Convolvulus arvensis	<u> </u>	N	N	data in Remarks or on a separate sheet)
9. Cirsium arvense	1.	N	FAC	5 - Wetland Non-Vascular Plants ¹
10	1. A. 11			Problematic Hydrophytic Vegetation ¹ (Explain)
11.	The second second			¹ Indicators of hydric soil and wetland hydrology must
	1112	= Total Cov	/er	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1				Hydrophytic
2				Vegetation
% Bare Ground in Herb StratumO		= Total Cov	/êr	Present? Yes No
Remarks:		and a sufficient second	in the second se	
· · · · · · · · · · · · · · · · · · ·				
4	1 1 7			

N. Martin

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5	63	11	
v	J		

Depth Matrix	Redox Features	성명 성명에 다 이번 방법을 가 있는 것이 있는 것이 있는 것이다.
(inches) 🗿 Color (moist) %	Color (moist) % Type Loc ²	Texture Remarks
0-13 104R212 160-11		dayloan dy
3-30 104R312 100%		rityloan 1
		Sandy lean &
30-48 104R3 2 100	· · · · · · · · _ · · · _ · · _ ·	
	the second s	the second se
	방법 등 것 같아요. 집안에 많은 것 같이 많이 많이 했다.	
		2
Type: C=Concentration, D=Depletion, RM	A=Reduced Matrix, CS=Covered or Coated Sand Gra	ains. ² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators: (Applicable to a	II LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils':
Histosol (A1)	Sandy Redox (S5)	<u> </u>
Histic Epipedon (A2)	Stripped Matrix (S6)	 Red Parent Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (except MLRA 1)	 Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	 Loamy Gleyed Matrix (F2) 	 Other (Explain in Remarks)
_ Depleted Below Dark Surface (A11)	 Depleted Matrix (F3) 	
Thick Dark Surface (A12)	 Redox Dark Surface (F6) 	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	 Depleted Dark Surface (F7) 	wetland hydrology must be present,
 Sandy Gleyed Matrix (S4) 	 Redox Depressions (F8) 	unless disturbed or problematic.
Restrictive Layer (if present):		
Туре:	4	
Depth (inches):		Hydric Soil Present? Yes No
Deptil (incres).		

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one required: ch	neck all that apply)	Secondary Indicators (2 or more required)
 Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) 	 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Stunted or Stressed Plants (D1) (LR Other (Explain in Remarks) 	4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Roots (C3) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No Includes capillary fringe) Describe Recorded Data (stream gauge. monitor)	Depth (inches): <u>>48</u> ″ Depth (inches): <u>>48</u> ″	Wetland Hydrology Present? Yes No
Remarks:		