Wetland Delineation and Investigation Report Whispering Creek Estates Wasatch County, Utah June 2020

APPENDIX B CUSTOM SOIL RESOURCES REPORT





United States Department of Agriculture

Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants Custom Soil Resource Report for Heber Valley Area, Utah -Parts of Wasatch and Utah Counties

Cari Lane Estates Wetlands Soil Report



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface	2
Soil Map	5
Soil Map	
Legend	7
Map Unit Legend	
Map Unit Descriptions	
Heber Valley Area, Utah - Parts of Wasatch and Utah Counties	
CrC-Crooked Creek clay loam, 3 to 10 percent slopes	11
Cv—Cudahy silt loam, cold variant	12
Kc—Kovich loam	
Km—Kovich loam, deep water table variant	14
SpB—Spaa silt loam, 2 to 5 percent slopes	15
References	17

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report Soil Map



	MAP L	EGEND)	MAP INFORMATION
	erest (AOI) Area of Interest (AOI)	8	Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:24,000.
Soils	Soil Map Unit Polygons Soil Map Unit Lines Soil Map Unit Points	©0 ♥ △	Very Stony Spot Wet Spot Other	Warning: Soil Map may not be valid at this scale. Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil
_	Point Features Blowout Borrow Pit	Water Fea	Special Line Features tures Streams and Canals	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.
⊠)× ⊘	Clay Spot Closed Depression	Transport	ation Rails Interstate Highways	Please rely on the bar scale on each map sheet for map measurements.
 0	Gravel Pit Gravelly Spot Landfill	~ ~	US Routes Major Roads	Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)
مله	Lava Flow Marsh or swamp	Backgrou	Local Roads nd Aerial Photography	Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.
* 0 0	Mine or Quarry Miscellaneous Water Perennial Water			This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.
× + ∷	Rock Outcrop Saline Spot Sandy Spot			Soil Survey Area: Heber Valley Area, Utah - Parts of Wasatch and Utah Counties Survey Area Data: Version 10, Sep 16, 2019
⊕ ♦	Severely Eroded Spot			Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Jun 14, 2016—Nov 8,
) S	Slide or Slip Sodic Spot			The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background

MAP LEGEND

MAP INFORMATION

imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CrC	Crooked Creek clay loam, 3 to 10 percent slopes	1.8	9.1%
Cv	Cudahy silt loam, cold variant	1.2	5.9%
Кс	Kovich loam	9.6	47.3%
Km	Kovich loam, deep water table variant	5.8	28.5%
SpB	Spaa silt loam, 2 to 5 percent slopes	1.9	9.3%
Totals for Area of Interest		20.3	100.0%

Map Unit Legend

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Heber Valley Area, Utah - Parts of Wasatch and Utah Counties

CrC—Crooked Creek clay loam, 3 to 10 percent slopes

Map Unit Setting

National map unit symbol: jxp9 Mean annual precipitation: 16 to 22 inches Mean annual air temperature: 40 to 45 degrees F Frost-free period: 70 to 90 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Crooked creek and similar soils: 100 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Crooked Creek

Setting

Landform: Alluvial fans Down-slope shape: Concave Across-slope shape: Convex

Typical profile

A11, A12 - 0 to 12 inches: clay loam C1 - 12 to 23 inches: clay loam C2 - 23 to 33 inches: silty clay C3 - 33 to 42 inches: clay loam C4 - 42 to 50 inches: clay C5 - 50 to 70 inches: clay loam

Properties and qualities

Slope: 3 to 10 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 12 to 24 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum in profile: 10 percent
Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Available water storage in profile: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): 4w Land capability classification (nonirrigated): 4w Hydrologic Soil Group: C/D Ecological site: Interzonal Wet Fresh Meadow (Sedge) (R047XA008UT) Hydric soil rating: Yes

Cv—Cudahy silt loam, cold variant

Map Unit Setting

National map unit symbol: jxpb Mean annual precipitation: 16 to 22 inches Mean annual air temperature: 40 to 45 degrees F Farmland classification: Farmland of statewide importance

Map Unit Composition

Cudahy and similar soils: 95 percent Minor components: 5 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cudahy

Setting

Landform: Stream terraces Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Concave

Typical profile

A11 - 0 to 9 inches: silt loam
A12 - 9 to 16 inches: clay loam
C1 - 16 to 26 inches: silty clay loam
C2 - 26 to 30 inches: indurated
C3 - 30 to 60 inches: silty clay loam, loam, silt loam
C3 - 30 to 60 inches:
C3 - 30 to 60 inches:

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 20 to 40 inches to undefined
Natural drainage class: Very poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.02 in/hr)
Depth to water table: About 12 to 24 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum in profile: 60 percent
Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 10.0
Available water storage in profile: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): 4w Land capability classification (nonirrigated): 7w Hydrologic Soil Group: D Ecological site: Interzonal Wet Fresh Meadow (Sedge) (R047XA008UT) Hydric soil rating: Yes

Minor Components

Rock land

Percent of map unit: 5 percent

Kc—Kovich loam

Map Unit Setting

National map unit symbol: jxqp Mean annual precipitation: 16 to 22 inches Mean annual air temperature: 40 to 45 degrees F Farmland classification: Farmland of statewide importance

Map Unit Composition

Kovich and similar soils: 90 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kovich

Setting

Landform: Stream terraces Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Concave

Typical profile

A11, A12 - 0 to 11 inches: loam A13, A14 - 11 to 29 inches: loam 2C1 - 29 to 41 inches: extremely cobbly sandy clay loam 2C2 - 41 to 60 inches: extremely gravelly sand

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 12 to 24 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water storage in profile: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 3w Land capability classification (nonirrigated): 7w Hydrologic Soil Group: B/D Ecological site: Interzonal Wet Fresh Meadow (Sedge) (R047XA008UT) Hydric soil rating: Yes

Minor Components

Peaty surface soils

Percent of map unit: 5 percent Landform: Depressions Landform position (three-dimensional): Dip Down-slope shape: Concave Across-slope shape: Concave Ecological site: Interzonal Wet Fresh Meadow (Sedge) (R047XA008UT) Hydric soil rating: Yes

Limey soils

Percent of map unit: 5 percent

Km—Kovich loam, deep water table variant

Map Unit Setting

National map unit symbol: jxqs Elevation: 5,500 to 6,200 feet Mean annual precipitation: 16 to 20 inches Mean annual air temperature: 43 to 45 degrees F Frost-free period: 70 to 90 days Farmland classification: Farmland of statewide importance

Map Unit Composition

Kovich and similar soils: 95 percent Minor components: 5 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kovich

Setting

Landform: Flood plains, stream terraces Landform position (three-dimensional): Tread, talf, dip Down-slope shape: Linear Across-slope shape: Concave

Typical profile

A1p, A12 - 0 to 16 inches: loam C1 - 16 to 27 inches: silt loam C2, C3 - 27 to 60 inches: loam

Properties and qualities

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: About 30 to 42 inches
Frequency of flooding: Rare

Frequency of ponding: None *Available water storage in profile:* High (about 9.7 inches)

Interpretive groups

Land capability classification (irrigated): 3w Hydrologic Soil Group: C Ecological site: Interzonal Cold Semiwet Fresh Meadow (Meadow Sedge/Tufted Hairgrass) (R047XA004UT) Hydric soil rating: No

Minor Components

Poorly drained soils

Percent of map unit: 5 percent Landform: Depressions Landform position (three-dimensional): Dip Down-slope shape: Concave Across-slope shape: Concave Hydric soil rating: Yes

SpB—Spaa silt loam, 2 to 5 percent slopes

Map Unit Setting

National map unit symbol: jxrt Mean annual precipitation: 16 to 22 inches Mean annual air temperature: 40 to 45 degrees F Farmland classification: Not prime farmland

Map Unit Composition

Spaa and similar soils: 95 percent Minor components: 5 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Spaa

Setting

Landform: Terraces Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear

Typical profile

Ap - 0 to 8 inches: silt loam A12 - 8 to 15 inches: silt loam C1 - 15 to 17 inches: loam R - 17 to 21 inches: weathered bedrock

Properties and qualities

Slope: 2 to 5 percent *Depth to restrictive feature:* 10 to 20 inches to paralithic bedrock *Natural drainage class:* Well drained

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Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches Frequency of flooding: None Frequency of ponding: None Calcium carbonate, maximum in profile: 40 percent Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm) Available water storage in profile: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e Hydrologic Soil Group: D Ecological site: Mountain Shallow Loam (Mountain Big Sagebrush) (R047XA446UT) Hydric soil rating: No

Minor Components

Deep soils

Percent of map unit: 5 percent

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APPENDIX C FIELD FORMS



WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region
Project/Site: <u>CariLane Estates</u> city/County: <u>Midway - Wasatch Cosampling Date</u> : <u>5-1-2020</u> Applicant/Owner: <u>RIMROCK LLC</u> State: Sampling Point: <u>IA</u>
Applicant/Owner: <u>RIMROCK LLC</u> State: Sampling Point: <u>IA</u>
Investigator(s): Torrey Copfer - Josh Call Section, Township, Range: 577-T35-R4E
Landform (hillslope, terrace, etc.): Stream bottom Local relief (concave, convex, none): Con Cave Slope (%): 1-5%
Subregion (LRR): <u>E-Rocky Mts-47 Wasatchat:</u> 40.528441 Long: -111.483759 Datum: KARDO3 WOS 24
Soil Map Unit Name: <u>KOVICH Logm</u> NWI classification: PSS/EMIC
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 📈 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?NO Are "Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology naturally problematic? NU (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>×</u> No <u></u> Yes No <u>×</u> Yes No <u>×</u>	Is the Sampled Area within a Wetland?	Yes	No_X_
Remarks:				

VEGETATION – Use scientific names of plants.

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4				
		= Total Cov		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)		-		Prevalence Index worksheet:
1				
2				Total % Cover of: Multiply by:
3				OBL species <u>40</u> x 1 = <u>40</u>
4				FACW species 25 x 2 = 50
5				FAC species <u>35</u> x 3 = <u>105</u>
			A 7	FACU species x 4 =
Herb Stratum (Plot size:)		= Total Cov	er	UPL species x 5 =
1. juncus spp.	25	· · · · · · · · · · · · · · · · · · ·	FACW	Column Totals: <u>)</u> (A) <u>195</u> (B)
2. Eleocharis pal-stris	40		OBL	Prevalence Index = B/A = 1.95
3. роа spp.	35		FAC	Hydrophytic Vegetation Indicators:
4				▶ 1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				\checkmark 3 - Prevalence Index is $\leq 3.0^1$
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11				¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	100	= Total Cove	er	
1				Divelación di e
2				Hydrophytic Vegetation
L				Present? Yes <u>X</u> No
% Bare Ground in Herb Stratum 🖄	······	= Total Cove	ŧ	
Remarks:				L

Sampling Point:

Profile Des	cription: (Describe	to the depth	needed to docu	nent the i	ndicator o	or confirm	n the absence of	indicator	s.)	
Depth	Matrix		Redo	x Features	s		— .			
(inches)	Color (moist)		Color (moist)				<u> Texture </u>		Remarks	
18	5YR-4/2	100					Sandy lann	Ury_	to Moist	
				_			<u> </u>	0		
	• · · · · · · · · · · · · · · · · · · ·			• •						
					<u> </u>		<u> </u>			
						······	<u> </u>			
·										
				•						
		lotion DM-Dc	duood Motrix C						oro Lining M=Motri	······
	oncentration, D=Dep Indicators: (Applic					u Sanu Gr			ore Lining, M=Matri ematic Hydric Soil	
Histosol			_ Sandy Redox (<i>cu.</i> ,		2 cm M		-	3.
	pipedon (A2)	<u></u>	_ Stripped Matrix						, erial (TF2)	
	istic (A3)		_ Loamy Mucky N		1) (except	MLRA 1)			rk Surface (TF12)	
	en Sulfide (A4)		Loamy Gleyed		, , ,				Remarks)	
	d Below Dark Surfac	e (A11)	Depleted Matrix					•	,	
Thick D	ark Surface (A12)		Redox Dark Su	rface (F6)			³ Indicators of	of hydroph	nytic vegetation and	
1	Mucky Mineral (S1)		Depleted Dark	•	7)				must be present,	
	Gleyed Matrix (S4)		Redox Depress	ions (F8)			unless di	sturbed o	or problematic.	
Restrictive	Layer (if present):									
Туре:										
Depth (in	iches):						Hydric Soil Pre	esent?	Yes No _	X
Remarks:										
HYDROLO	IGY									
	drology Indicators:									
-	cators (minimum of c		heck all that appl	v)			Seconda	v Indicate	ors (2 or more requi	red)
	Water (A1)	ne required, c	Water-Sta		(B0)				Leaves (B9) (MLR	
	ater Table (A2)			1, 2, 4A, a		cept		A, and 4E		A 1, 2,
Saturati			Salt Crust		anu 40)				erns (B10)	
	/arks (B1)		Aquatic In	• •	s (B13)			Ū.	/ater Table (C2)	
	nt Deposits (B2)		Hydrogen						ible on Aerial Image	
	posits (B3)		Oxidized F			iving Roo			osition (D2)	, y (00)
	at or Crust (B4)		Presence					ow Aquita		
	posits (B5)		Recent Iro		-	-		Neutral T		
	Soil Cracks (B6)		Stunted or						ounds (D6) (LRR A)	1
	ion Visible on Aerial	lmagery (B7)	Other (Exp			/ /			lummocks (D7)	
	y Vegetated Concav	0,0,0			,				····· /	
Field Obser		- \)								
Surface Wat		es Νο	Depth (in	ches):						
Water Table			Depth (in							
Saturation P			Depth (in				and Hydrology P	resent?	Yes No	X
	pillary fringe)	NO								
	corded Data (stream	i gauge, monit	oring well, aerial	photos, pr	evious ins	pections),	if available:			
Remarks:										

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region	
Project/Site: <u>CariLane Estates</u> city/County: <u>Midway - Wasatch G</u> sampling Date: <u>5-1-2020</u> Applicant/Owner: <u>RIMROCK LLC</u> State: Sampling Point: <u>16</u>)
Applicant/Owner: <u>RIMROCK LLC</u> State: Sampling Point: <u>Ib</u>	
Investigator(s): Torrey Copfer - Josh Call Section, Township, Range: SJ7-T35-R4E	
Landform (hillslope, terrace, etc.): Stream bottom Local relief (concave, convex, none): Con Cave Slope (%): 1-5%	
Subregion (LRR): E-Rocky Mts-47 Wasatchat: 40.528428 Long: -IN. 483761 Datum: Marso Wes	84
Soil Map Unit Name: KOVICH LOGM NWI classification: PSS/EMC	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 📈 No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significantly disturbed?	
Are Vegetation, Soil, or Hydrology naturally problematic? NO (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes <u>> No</u> Is the Sampled Area	
Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No	
Remarks:	

,

VEGETATION – Use scientific names of plants.

	Absolute	Dominant		Dominance Test worksheet:	•
Tree Stratum (Plot size:)		Species?		Number of Dominant Species	
1				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 Co	ver	That Are OBL, FACW, or FAC: (A/E	3)
				Prevalence Index worksheet:	
1				Total % Cover of:Multiply by:	
2				OBL species x 1 =55	
3				FACW species 15 x 2 = 30	
4				FAC species <u>30</u> x 3 = <u>90</u>	
5				FACU species x 4 =	
Herb Stratum (Plot size:)	••••	= Total Co	ver	UPL species x 5 =	
1. juncus spp.	15		FACW	Column Totals: 100 (A) 175 (B	5)
2. elevenars plustrs	35		OBL	Prevalence Index = B/A = \.75	
3. por spp	30		FAC	Hydrophytic Vegetation Indicators:	
4. Jemna minor	20		OBL	1 - Rapid Test for Hydrophytic Vegetation	
5				2 - Dominance Test is >50%	
6				\checkmark 3 - Prevalence Index is ≤3.0 ¹	
7				4 - Morphological Adaptations ¹ (Provide supportir	na
8				data in Remarks or on a separate sheet)	'9
9				5 - Wetland Non-Vascular Plants ¹	
10				Problematic Hydrophytic Vegetation ¹ (Explain)	
11				¹ Indicators of hydric soil and wetland hydrology must	
		= Total Cov		be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size:)	•				
1	,		·	Hydrophytic	
2	-			Vegetation	
		= Total Cov		Present? Yes No	
% Bare Ground in Herb Stratum					
Remarks:					

Sampling Point: 15

	Matrix		Redox Features		
Depth (inches)	Color (moist)	%	Color (moist) % Type ¹ Loc ²	² Texture	Remarks
18	54R 2.5	100		loam	uet
	•			W700104 1727	
	• • • • • • • • • • • • • • • • • • •				
 					
¹ Type: C=C	Concentration, D=D	epletion, RM	/=Reduced Matrix, CS=Covered or Coated Sand	1 Grains. ² L	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	icable to al	II LRRs, unless otherwise noted.)		tors for Problematic Hydric Soils ³ :
Histoso			Sandy Redox (S5)		cm Muck (A10)
Histic E	pipedon (A2)		Stripped Matrix (S6)	Re	ed Parent Material (TF2)
	listic (A3)		Loamy Mucky Mineral (F1) (except MLRA		ery Shallow Dark Surface (TF12)
	en Sulfide (A4)	200 (144)	Loamy Gleyed Matrix (F2)	Oi	ther (Explain in Remarks)
	ed Below Dark Surfa Park Surface (A12)	ace (A11)	Depleted Matrix (F3) Redox Dark Surface (F6)	³ Indica	ators of hydrophytic vegetation and
	Mucky Mineral (S1)	1	Depleted Dark Surface (F7)		tland hydrology must be present,
	Gleyed Matrix (S4)		Redox Depressions (F8)		ess disturbed or problematic.
•	Layer (if present)	;	and a state of the		namele
Туре:	• • • • •				
Depth (ir	1ches):			Hydric Sc	oil Present? Yes 🔨 🛛 No
	JGY				
		·c·			
-	vdrology Indicator		ed: check all that apply)	Ser	condary Indicators (2 or more required)
Wetland Hy Primary Indi	ydrology Indicator icators (minimum o		ed; check all that apply) Water-Stained Leaves (B9) (excent		condary Indicators (2 or more required) Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hy Primary Indi	ydrology Indicator icators (minimum o e Water (A1)		Water-Stained Leaves (B9) (except		Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hy Primary Indi Surface	ydrology Indicator icators (minimum o e Water (A1) later Table (A2)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Wetland Hy Primary Indi Control Contro	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	- _ _	Water-Stained Leaves (B9) (MLRA 1, 2,
Wetland Hy Primary Indi Surface High W Saturat Water N	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3) Marks (B1)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B)		Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10)
Wetland Hy Primary Indi Surface K High W Saturat Water N Sedime	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3)		 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) 		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 Hy Primary Indi Surface High W Saturat Water N Sedime Drift De	ydrology Indicator icators (minimum o e Water (A1) later Table (A2) ion (A3) Marks (B1) ent Deposits (B2)		 Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) 	Roots (C3)	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 Hy Primary Indi Surface High W Saturat Water N Sedime Drift De	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)		Water-Stained Leaves (B9) (except MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Algal M Iron De	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)		 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) 	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Drift De Algal M Iron De Surface K Inundat	ydrology Indicator icators (minimum o e Water (A1) dater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) dat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria	<u>f one requir</u>	 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 Dother (Explain in Remarks) 	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Drift De Algal M Iron De Surface Inundat Sparse	ydrology Indicator icators (minimum o e Water (A1) Yater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria	<u>f one requir</u>	 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 Dother (Explain in Remarks) 	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Drift De Algal M Iron De Surface K Inundat	ydrology Indicator icators (minimum o e Water (A1) Yater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria	<u>f one requir</u> al Imagery (ave Surface	 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) (LRI B7) Other (Explain in Remarks) (B8) 	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Drift De Algal M Iron De Surface Sparse Field Obse	ydrology Indicator icators (minimum o e Water (A1) Yater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria	<u>f one requir</u> al Imagery (ave Surface	 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 Dother (Explain in Remarks) 	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Drift De Algal M Iron De Surface Sparse Field Obse	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca rvations: ater Present?	f one require al Imagery (I ave Surface Yes_	 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 B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): 	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Drift De Algal M Iron De Surface Surface Wa Water Table Saturation F	ydrology Indicator icators (minimum o e Water (A1) Vater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) dat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca rvations: ater Present? e Present?	f one require al Imagery (I ave Surface Yes <u>}</u>	 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 B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): 	Roots (C3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Drift De Algal M Iron De Surface Field Obse Surface Wa Water Table Saturation F (includes ca	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca rvations: ater Present? e Present? Present? Present?	f one require al Imagery (I ave Surface Yes ♪ Yes ♪ Yes &	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 B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches):	Roots (C3) (C6) R A) Wetland Hydrold	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Drift De Algal M Iron De Surface Field Obse Surface Wa Water Table Saturation F (includes ca	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca rvations: ater Present? e Present? Present? Present?	f one require al Imagery (I ave Surface Yes ♪ Yes ♪ Yes &	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 B7) Other (Explain in Remarks) (B8)	Roots (C3) (C6) R A) Wetland Hydrold	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Algal M Iron De Surface Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca rvations: ater Present? e Present? Present? Present?	f one require al Imagery (I ave Surface Yes ♪ Yes ♪ Yes &	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 B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches):	Roots (C3) (C6) R A) Wetland Hydrold	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Drift De Algal M Iron De Surface Field Obse Surface Wa Water Table Saturation F (includes ca	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca rvations: ater Present? e Present? Present? Present?	f one require al Imagery (I ave Surface Yes ♪ Yes ♪ Yes &	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 B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches):	Roots (C3) (C6) R A) Wetland Hydrold	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Algal M Iron De Surface Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca rvations: ater Present? e Present? Present? Present?	f one require al Imagery (I ave Surface Yes ♪ Yes ♪ Yes &	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 B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches):	Roots (C3) (C6) R A) Wetland Hydrold	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)
Wetland Hy Primary Indi Surface High W Saturat Water N Sedime Algal M Iron De Surface Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	ydrology Indicator icators (minimum o e Water (A1) 'ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) e Soil Cracks (B6) tion Visible on Aeria ly Vegetated Conca rvations: ater Present? e Present? Present? Present?	f one require al Imagery (I ave Surface Yes ♪ Yes ♪ Yes ★	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 B7) Other (Explain in Remarks) (B8) No Depth (inches): No Depth (inches): No Depth (inches):	Roots (C3) (C6) R A) Wetland Hydrold	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7)

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region
Project/Site: <u>Cari Lane Estates</u> city/County: <u>Midway - Wasatch Gampling Date: 5-1-2020</u> Applicant/Owner: <u>RIMROCK LLC</u> State: Sampling Point: <u>Za</u>
Applicant/Owner: <u>RIMROCK LLC</u> State: Sampling Point: <u>2a</u>
Investigator(s): Torrey Copfer - Josh Call Section, Township, Range: 527-T35-R4E
Landform (hillslope, terrace, etc.): Stream bottom Local relief (concave, convex, none): <u>Concave</u> Slope (%): <u>1-58</u>
Subregion (LRR): <u>E-Rocky Mts-47 WasatchLat:</u> 40.528333 Long: <u>-III. 483927</u> Datum: <u>W6584</u>
Soil Map Unit Name: KOVICH LOGIN NWI classification: PSS/EMIC
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 📈 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? NU (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>X</u> No
Hydric Soil Present? Yes No Is the Sampled Area Wetland Hydrology Present? Vos No Yes
Wetland Hydrology Present? Yes No within a Wetland? Yes No
Remarks:

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VEGETATION – Use scientific names of plants.

	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species
1. <u>Salix gp</u> .			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			Becies Across All Strata: (B)
4			Demonst of Demission (On order
		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
Sapling/Shrub Stratum (Plot size:)		-	Prevalence Index worksheet:
1			
2			Total % Cover of: Multiply by:
3			OBL species 20 x1 = 20
4			FACW species 60 x 2 = 120
5			FAC species 20 x 3 = 60
			FACU species x 4 =
Herb Stratum (Plot size:)		_ = Total Cover	UPL species x 5 =
	20	FAL	Column Totals: (A) (B)
1. por spp. 2. Éleochans palustaz	20		
P			Prevalence Index = $B/A = 2.0$
3			Hydrophytic Vegetation Indicators:
4			1 - Rapid Test for Hydrophytic Vegetation
5			
6			. <u>×</u> 3 - Prevalence Index is ≤3.0 ¹
7			4 - Morphological Adaptations ¹ (Provide supporting
8			data in Remarks or on a separate sheet)
9			5 - Wetland Non-Vascular Plants ¹
10			Problematic Hydrophytic Vegetation ¹ (Explain)
11.			¹ Indicators of hydric soil and wetland hydrology must
		= Total Cover	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			
1			Hydrophytic
2			Vegetation
		= Total Cover	Present? Yes 📐 No
% Bare Ground in Herb Stratum $_20$			
Remarks:			

Sampling Point: _____

	scription: (Descri	be to the dep	th needed to document the indicator or o	onfirm the absence of indicators.)	
Depth (inchor)	Matrix Color (moist)		<u>Redox Features</u> Color (moist) % Type ¹ L	poc ² Texture Remarks	
(inches)	Color (moist)				
18	54R 4-2			Sandylown chy	
	-			<u>U</u>	
	<u> </u>				
	<u> </u>				
	-				
¹ Type: C=0	Concentration. D=D	Depletion. RM:	=Reduced Matrix, CS=Covered or Coated S	and Grains. ² Location: PL=Pore Lining, M=Matrix.	
			LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils	
Histoso	ol (A1)		Sandy Redox (S5)	2 cm Muck (A10)	
	Epipedon (A2)		Stripped Matrix (S6)	Red Parent Material (TF2)	
Black H	listic (A3)		Loamy Mucky Mineral (F1) (except MI	RA 1) Very Shallow Dark Surface (TF12)	
Hydrog	en Sulfide (A4)		Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)	
	ed Below Dark Sur		Depleted Matrix (F3)		
	Dark Surface (A12)		Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and	
	Mucky Mineral (S1		Depleted Dark Surface (F7)	wetland hydrology must be present,	
	Gleyed Matrix (S4)		Redox Depressions (F8)	unless disturbed or problematic.	
	Layer (if present)):			
Type:					_
Depth (ii	nches):			Hydric Soil Present? Yes No _	
Remarks:					
HYDROLC Wetland Hy)GY ydrology Indicato	rs:			
			d; check all that apply)	Secondary Indicators (2 or more require	ed)
-	e Water (A1)	· · · · · · · · · · · · · · · · · · ·	Water-Stained Leaves (B9) (exce		
	ater Table (A2)		MLRA 1, 2, 4A, and 4B)	4A, and 4B)	
	tion (A3)		Salt Crust (B11)	Drainage Patterns (B10)	
Water	Marks (B1)		Aquatic Invertebrates (B13)	Dry-Season Water Table (C2)	
	ent Deposits (B2)		Hydrogen Sulfide Odor (C1)	Saturation Visible on Aerial Imagen	y (C9)
	eposits (B3)		Oxidized Rhizospheres along Livi	g Roots (C3) Geomorphic Position (D2)	
	lat or Crust (B4)		Presence of Reduced Iron (C4)	Shallow Aquitard (D3)	
Iron De	posits (B5)		Recent Iron Reduction in Tilled Se		
Surface	e Soil Cracks (B6)		Stunted or Stressed Plants (D1) (.RR A) Raised Ant Mounds (D6) (LRR A)	
Inunda	tion Visible on Aeri	ial Imagery (B	7) Other (Explain in Remarks)	Frost-Heave Hummocks (D7)	
Sparse	ly Vegetated Conc	ave Surface (B8)		
Field Obse			· · · · · · · · · · · · · · · · · · ·		
Surface Wa	iter Present?	Yes	No Depth (inches):		
Water Table	e Present?		No Depth (inches):		
Saturation I			No Depth (inches):	Wetland Hydrology Present? Yes No D	X
(includes ca	apillary fringe)				
Describe R	ecorded Data (stre	am gauge, mo	onitoring well, aerial photos, previous inspec	ions), if available:	
Remarks:					

WETLAND DETERMINATION D	ATA FOR	M – West	tern Mou	ntains, Valleys, and Coast Region
Project/Site Cari Lune Estates		City/County	Mid	way - Wasatch Gampling Date: 5-1-2020
Applicant/Owner: <u>RIMROCK LLC</u>	<u> </u>	Oily/Obuility		State: Sampling Daile. 7
Investigator(s): Torrey Copfer - Josh Cal	1	Section To	washin Ra	$\underline{\qquad} \text{ Since } \underline{\qquad} \text{ Since } \underline{\} \underline{\} \underline{\} \text{ Since } \underline{\} \underline{\} \underline{\} \underline{\} \underline{\} \mathbb{Since } \underline{\} \underline{\} \underline{\} \underline{\} \underline{\} \underline{\} \underline{\} $
				convex, none): <u>Con Cove</u> Slope (%): <u>1-5</u>
Current (Innisiope, terrace, etc.). <u>Streath Donce</u>	1.1. 14		i (concave, i	convex, none): <u>Covi La Ce</u> Siope (%): <u>1 520</u>
				Long: -111, 483963 Datum: 155/
				NWI classification: 155/Emic
Are climatic / hydrologic conditions on the site typical for the				
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	V0 Are"	Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology	_ naturally pro	blematic? /	₩∂ (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	o showing	samplin	g point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes		1. 0		
Hydric Soil Present? Yes 📉		1	ie Sampled iin a Wetlar	
Wetland Hydrology Present? Yes	No			
Remarks:				
VECETATION Lies scientific names of pla	nto			
VEGETATION – Use scientific names of pla		Densinent	1	Densis and Track and the sky
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?		Dominance Test worksheet:
1. Salix 300.	40	×	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1. Salix spp. 2. Cractnegus durglas,:	10	~	FAL	Total Number of Dominant
3		<u> </u>		Species Across All Strata:(B)
4			·	Percent of Dominant Species
Copling/Ohrub Ctrotum (Dist size)		= Total Co	ver	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worksheet:
1. 2.				Total % Cover of: Multiply by:
3				OBL species x 1 =
4				FACW species 10 x 2 = 20
5				FAC species <u>10</u> x 3 = <u>30</u>
		= Total Co	ver	FACU species x 4 =
Herb Stratum (Plot size:)		-		UPL species x 5 =
1. Lemma minor			OBL	Column Totals: <u>100</u> (A) <u>30</u> (B)
2. junes 3pp.			FACW	Prevalence Index = $B/A = 1,30$
3. Typh- spp.	kO	<u>×</u>	UBL	Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				▲2 - Dominance Test is >50%
6				<u>K</u> 3 - Prevalence Index is ≤3.0 ¹
7				 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)

= Total Cover

.....

____= Total Cover

,

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present?

Yes K N	o
---------	---

% Bare Ground in Herb Stratum _

Woody Vine Stratum (Plot size: _____) 1.

11._____

Ò

Remarks:

2.

Sampling Point: 26

	cription: (Describe	e to the dept			or confirm	the absence of in	idicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	<u>Features</u> %Type ¹	Loc ²		Remarks
18	5YR 2.5-1	100				Wetmuch	1 Jonen
					-		3
••••••••••					-	·····	
					<u> </u>		
							······································
	-						
			<u> </u>				
1Turnet C=C			Poducod Matrix CS		 od Sond Gro	21 ocation	n: PL=Pore Lining, M=Matrix.
	oncentration, D=De Indicators: (Appli						or Problematic Hydric Soils ³ :
Histoso			Sandy Redox (S	-		📉 2 cm Mu	-
	pipedon (A2)	-	Stripped Matrix (ent Material (TF2)
	istic (A3)			ineral (F1) (excer	ot MLRA 1)		allow Dark Surface (TF12)
Hydrog	en Sulfide (A4)	-	Loamy Gleyed N	/latrix (F2)		Other (E	xplain in Remarks)
•	d Below Dark Surfa	ce (A11)	Depleted Matrix				
-	ark Surface (A12)	-	Redox Dark Sur	· · ·			hydrophytic vegetation and
	Mucky Mineral (S1)	-	Depleted Dark S				ydrology must be present,
	Gleyed Matrix (S4) Layer (if present):		Redox Depressi	ons (F8)			turbed or problematic.
Type:							
	iches):					Hydric Soil Pres	sent? Yes 🖌 No
Remarks:						Thyane boilt rea	
Noniumo.							
HYDROLC	GY						
Wetland Hy	drology Indicators	:					
Primary Indi	cators (minimum of	one required	check all that apply	<u>)</u>		<u>Secondary</u>	Indicators (2 or more required)
	Water (A1)		Water-Stair	ned Leaves (B9) (except	Water	-Stained Leaves (B9) (MLRA 1, 2,
K High W	ater Table (A2)		MLRA 1	, 2, 4A, and 4B)		4A	, and 4B)
K Saturati	ion (A3)		Salt Crust (B11)		Draina	age Patterns (B10)
Water N	/larks (B1)		Aquatic Inv	ertebrates (B13)		Dry-Se	eason Water Table (C2)
Sedime	nt Deposits (B2)		Hydrogen S	Sulfide Odor (C1)		Satura	ation Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Oxidized R	hizospheres along	g Living Root	ts (C3) Geom	orphic Position (D2)
Algal M	at or Crust (B4)			f Reduced Iron (C	,		w Aquitard (D3)
	posits (B5)			Reduction in Till		·	Veutral Test (D5)
	Soil Cracks (B6)			Stressed Plants (I	D1) (LRR A)		d Ant Mounds (D6) (LRR A)
	ion Visible on Aerial			lain in Remarks)		Frost-	Heave Hummocks (D7)
	y Vegetated Concav	/e Surface (B	8)				
Field Obse							
			o Depth (inc				
Water Table			o Depth (inc				
Saturation F	Present? pillary fringe)	Yes 🔼 N	o Depth (inc	hes):	Wetla	and Hydrology Pre	esent? Yes 🔀 No
	ecorded Data (strear	n gauge, mor	nitoring well, aerial p	hotos, previous ir	spections), i	f available:	
Δ	appeared with	· · · ·					
Remarks:	Marian mile	wan	an Gerger	Enith Inna	on		
					-		

WETLAND DETERMINATION DATA FORM	Western Mountains, Valleys, and Coast Region
Project/Site: Cari Lane Estates city/	County: <u>Midway - Wasatch G</u> sampling Date: <u>5-1-2020</u> State:Sampling Point: <u>2c</u>
Applicant/Owner: <u>RIMROCK LLC</u>	State: Sampling Point:
Investigator(s): Torrey Copfer - Josh Call Sec	tion, Township, Range: <u>SJ7-T35-RYE</u>
	al relief (concave, convex, none): <u>Con Cave</u> Slope (%): <u>1-5%</u>
Subregion (LRR): E-Rocky Mts-47 Wasatchat: 40.5	528597 Long:-111.484072 Datum: wes 54
Soil Map Unit Name: KOVICH Login	NWI classification: 195/Emic
Are climatic / hydrologic conditions on the site typical for this time of year?	
Are Vegetation, Soil, or Hydrology significantly distu	urbed?
Are Vegetation, Soil, or Hydrology naturally problem	natic? $\mathcal{N}\mathcal{V}$ (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes K_ No	
Hydric Soil Present? Yes 🔀 No	Is the Sampled Area
Wetland Hydrology Present? Yes No _	within a Wetland? Yes No

VEGETATION – Use scientific names of plants.

Remarks:

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: (A))
2					
3				Total Number of Dominant Species Across All Strata: (B)	、
				Species Across All Strata: (B))
4				Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size:)	<u></u>	_ = Total Co	ver	That Are OBL, FACW, or FAC: (A/	'В)
				Prevalence Index worksheet:	
1				Total % Cover of:Multiply by:	
2	• • • • • • • • • • • • • • • • • • • •			OBL species 20 x1 = 20	
3					
4				FACW species x2 =	
5				FAC species 40 x 3 = 120	
		= Total Co	ver	FACU species <u>40</u> x 4 = <u>160</u>	
Herb Stratum (Plot size:)				UPL species x 5 =	
1. Dadylis glumenta	40	-	FACU	Column Totals: <u>LOP</u> (A) <u>300</u> (E	3)
2. Eleochars palostys	20		OBL	Prevalence Index = B/A = 30	
3. por sp.	30	.	FAC	Hydrophytic Vegetation Indicators:	
4. Runer crispis				1 - Rapid Test for Hydrophytic Vegetation	
5				2 - Dominance Test is >50%	
6				\sim 2 · Prevalence Index is ≤3.0 ¹	
7				4 - Morphological Adaptations ¹ (Provide supporti	ina
8				data in Remarks or on a separate sheet)	ng
9				5 - Wetland Non-Vascular Plants ¹	
10				Problematic Hydrophytic Vegetation ¹ (Explain)	
11				¹ Indicators of hydric soil and wetland hydrology must	
	1015	= Total Co		be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size:)			VEI		
1				Undrambudia	
				Hydrophytic Vegetation	
2				Present? Yes <u>No</u>	
% Bare Ground in Herb Stratum		_= Total Co	ver		
Remarks:					

Sampling Point: 2

Profile Desc	ription: (Describe	to the depth	needed to docum	ent the indicator	r or confirm t	the absence of indicators.)
Depth	Matrix			Features	-	
(inches)	Color (moist)	%		<u>%</u> Type ¹		Texture Remarks
18	54R 8-2	100	<u></u>	· · · · · · · · · · · · · · · · · · ·	-	Durk Suber
	· · · · · · · · · · · · · · · · · · ·			<u> </u>		
•	· · · · · · · · · · · · · · · · · · ·					······································
<u></u>						
				<u></u>		
¹ Type: C=Co	ncentration. D=De	pletion. RM=R	educed Matrix, CS		ed Sand Grai	ins. ² Location: PL=Pore Lining, M=Matrix.
		· · · · · · · · · · · · · · · · · · ·	RRs, unless other			Indicators for Problematic Hydric Soils ³ :
K Histosol	(A1)		_ Sandy Redox (S	5)		2 cm Muck (A10)
	ipedon (A2)		Stripped Matrix (Red Parent Material (TF2)
Black Hi			Loamy Mucky M	neral (F1) (excer	ot MLRA 1)	Very Shallow Dark Surface (TF12)
	n Sulfide (A4)		Loamy Gleyed N	latrix (F2)		Other (Explain in Remarks)
	Below Dark Surfa	ce (A11)	_ Depleted Matrix			
	rk Surface (A12)		_ Redox Dark Surf			³ Indicators of hydrophytic vegetation and
	lucky Mineral (S1)		_ Depleted Dark S			wetland hydrology must be present,
	leyed Matrix (S4)		_ Redox Depression	ons (F8)	r	unless disturbed or problematic.
	ayer (il present).					
Depth (inc						Hydric Soil Present? Yes 🔀 No
						Hydric Soil Present? Yes <u>X</u> No
Remarks:						
HYDROLO	GY					
Wetland Hyd	Irology Indicators	:				
-			check all that apply)		Secondary Indicators (2 or more required)
	Water (A1)			ed Leaves (B9) (except	Water-Stained Leaves (B9) (MLRA 1, 2,
	ter Table (A2)			, 2, 4A, and 4B)	encopt	4A, and 4B)
Saturatio			Salt Crust (Drainage Patterns (B10)
Water M				ertebrates (B13)		Dry-Season Water Table (C2)
	t Deposits (B2)			ulfide Odor (C1)		Saturation Visible on Aerial Imagery (C9)
	osits (B3)			nizospheres along	a Livina Roots	
	t or Crust (B4)			f Reduced Iron (C		Shallow Aquitard (D3)
-	osits (B5)			Reduction in Tille	-	FAC-Neutral Test (D5)
	Soil Cracks (B6)			Stressed Plants ([. ,	Raised Ant Mounds (D6) (LRR A)
	on Visible on Aerial	Imagery (B7)		ain in Remarks)	,, ,	Frost-Heave Hummocks (D7)
	Vegetated Concav					
Field Observ	vations:	`	-			
Surface Wate	er Present?	Yes No	Depth (incl	nes):		
Water Table			Depth (incl			
Saturation Pr	esent?	res No	Depth (incl	nes):	Wetlar	nd Hydrology Present? Yes No 🗙
(includes cap	illary fringe)					
Describe Red	corded Data (stream	n gauge, moni	toring well, aerial pl	notos, previous in	spections), if	available:
Remarks:						

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region
Project/Site: <u>CariLane Estates</u> city/County: <u>Midway - Wasatch G</u> sampling Date: <u>5-1-2020</u> Applicant/Owner: <u>RIMROCK LLC</u> State: Sampling Point: <u>2</u>
Applicant/Owner: <u>RIMROCK LLC</u> State: Sampling Point: 2d
Investigator(s): Torrey Copfer - Josh Call Section, Township, Range: 527-T35-R4E
Landform (hillslope, terrace, etc.): Stream bottom Local relief (concave, convex, none): Concave Slope (%): 1-5%
Subregion (LRR): <u>E-Rocky Mts-47 Wasatchat: 40, 528578</u> Long: -111. 484076 Datum: user
Soil Map Unit Name: KOVICH LOGM NWI classification: PS/Emcl
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 📈 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?
Are Vegetation, Soil, or Hydrology naturally problematic? NU (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes <u>No</u> No
Hydric Soil Present? Yes <u>V</u> No Is the Sampled Area
Wetland Hydrology Present? Yes X No Yes X No

,

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size:)	Absolute % Cover		t Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 3
2 3 4			<u> </u>	Total Number of Dominant Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size:)				Percent of Dominant Species That Are OBL, FACW, or FAC:
				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x 1 =
3				FACW species x 2 = 40
4			• •	FAC species x 3 =
5			• •	FACU species x 4 =
Herb Stratum (Plot size:)		= Total Co	over	UPL species x 5 =
	50	×	OBL	Column Totals: (A) (B)
2. Phagmitis austalis		X	FACW	Prevalence Index = B/A = 1.2
3. Lenna minor		~	OBL	Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				∠2 - Dominance Test is >50%
6	<u> </u>	•••••	-	A 3 - Prevalence Index is ≤3.0 ¹
78				 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11			• <u>••••••</u> ,	¹ Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	· · · · · · ·	- 10tai 00	VCI	
1				Hydrophytic
2				Vegetation
				Present? Yes <u>No</u>
% Bare Ground in Herb Stratum		-		
Remarks:				
Invasore phrang.				

US Army Corps of Engineers

Sampling Point: 22

IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)							n the absence of indicators.)
ISC 51/2 2.5-1 LGD Mode uset Image: Solution of the second	(inches) Color (m		Redo	x Features			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Costed Sand Grains. *Location: PL=Pore Lining, M=Matrix, Mrdfs Zall, Zalll, Zall, Zall, Zall, Zall, Zalll, Zall, Zall, Zall, Zal			Color (moist)	%	Type ¹	Loc ²	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils': Histic Epipadon (A2) Stripped Matrix (S6) Sandy Redox (S5) Black Histic (A3) Loamy Meyd Matrix (S6) Red Parent Matcrial (TF2) Hydrogen Sullide (A4) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Redox Dark Surface (F7) other (Explain in Remarks) Sandy Mucky Mineral (S1) Depleted Matrix (F3) ⁹ indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive Layer (If present): Type: unless disturbed or problematic. Type: Depth (inches): No MuRA 1, 2, 4A, and 4B) K Surface (A13) Salt Crust (S11) Drivaice Matrix (S1) Depleted Dark Surface (F1) K Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) K Surface Water (A1) MuRA 1, 2, 4A, and 4B) Drivaes Patterns (B10) Drivaes Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3) Sediment Deposits	18 51/2 2.	5-1 100	<u> </u>				Much wet
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils': Histic Epipadon (A2) Stripped Matrix (S6) Sandy Redox (S5) Black Histic (A3) Loamy Meyd Matrix (S6) Red Parent Matcrial (TF2) Hydrogen Sullide (A4) Loamy Gleyed Matrix (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A12) Redox Dark Surface (F7) other (Explain in Remarks) Sandy Mucky Mineral (S1) Depleted Matrix (F3) ⁹ indicators of hydrophytic vegetation and wetland hydrology must be present. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) unless disturbed or problematic. Restrictive Layer (If present): Type: unless disturbed or problematic. Type: Depth (inches): No MuRA 1, 2, 4A, and 4B) K Surface (A13) Salt Crust (S11) Drivaice Matrix (S1) Depleted Dark Surface (F1) K Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) K Surface Water (A1) MuRA 1, 2, 4A, and 4B) Drivaes Patterns (B10) Drivaes Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C3) Sediment Deposits							
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Mark Surface (A12) Redox Dark Surface (F6) ³ Indicators of hydrophytic vegetation and welland hydrology must be present, unless disturbed or problematic. Sandy (Jeyed Matrix (S4) Redox Depressions (F8) unless disturbed or problematic. Restrictive Layer (if present): Type:	Hydrogen Sulfide (A4)	Loamy Gleyed	Matrix (F2)			
	Depleted Below Dark	Surface (A11)	Depleted Matrix	: (F3)			
Restrictive Layer (if present): Type:							
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Depth (inches): Hydric Soil Present? Yes K No Remarks: WYDROLOGY Wetland Hydrology Indicators: Primary Indicators (nnimum of one required; check all that apply) Secondary Indicators (2 or more required) X Surface Water (A1) Water-Stained Leaves (B9) (except Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) X Surface Water (A1) Water Stained Leaves (B13) Drainage Patterns (B10) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Saturation (A3) Salt Crust (B11) Dry-Season Water Table (C2) Statiration (A3) Salt Crust (B11) Dry-Season Water Table (C2) Statiration (A3) Salt Crust (B11) Dry-Season Water Table (C2) Statiration (A3) Salt Crust (B11) Dry-Season Water Table (C2) Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2) Adjal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3) Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7)		sent):	1				
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	Wetland Hydrology India Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Algal Mat or Crust (B5) Surface Soil Cracks (Inundation Visible on Sparsely Vegetated O Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data	um of one requir 2) 32) 4) B6) Aerial Imagery Concave Surface Yes <u>×</u> Yes <u>×</u>	Water-Sta MLRA MLRA Salt Crust Aquatic Integration Oxidized F Presence Recent Iro Stunted or (B7) Other (Explant) (B8) No Depth (integration) No Depth (integration)	ned Leaves 1, 2, 4A, and (B11) vertebrates (Sulfide Odor Rhizospheres of Reduced I n Reduction Stressed Pl olain in Rema ches): ches):	d 4B) B13) (C1) s along L lron (C4) in Tilled ants (D1 arks)	iving Roo) Soils (C6) (LRR A) 	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) FAC-Neutral Test (D5) Raised Ant Mounds (D6) (LRR A) Frost-Heave Hummocks (D7) and Hydrology Present? Yes <u>No</u> <u>No</u>
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WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Cosper / Cari	_ City/County: Midway / Wasatch Sampling Date: 6/18 State: UT Sampling Point: Envelope 3A
Applicant/Owner: Rimcoele LLC	State: UT Sampling Point: Envelope 3A
Investigator(s): Josh Call, Tower Capter, Railel	_ Section, Township, Range: <u>S27 T3S KHP</u>
Landform (hillslope, terrace, etc.): strenme bother	Local relief (concave, convex, none): <u>Cencaus</u> Slope (%): 1-5
Subregion (LRR): E Rocky Mts Lat:	40.52862 Long: -111.483533 Datum: W65 84
Soil Map Unit Name: Karch Lenn	NWI classification: BSS EMIC
Are climatic / hydrologic conditions on the site typical for this time of	
Are Vegetation, Soil, or Hydrology significar	ntly disturbed? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showi	ng sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes 📈 No	
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Yes No ////
Wetland Hydrology Present? Yes No	
Remarks:	

VEGETATION – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				
3				Total Number of Dominant Species Across All Strata: (B)
4				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	That Are OBL, FACW, or FAC: (A/B)
				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species 10 x 1 = 10
3				FACW species x 2 =
4		<u> </u>		FAC species $9D$ x 3 = 270
5	·	. <u> </u>	. <u> </u>	
		= Total Co	ver	FACU species x 4 =
Herb Stratum (Plot size:) 1. Maianthemm stellatum	040		T.A.	UPL species x 5 =
1. Maianthemm stellation	70	V	FAC	Column Totals: <u>\</u> (<i>P</i>) (A) <u>(</u> (B)
2. Lysichitun americanus	10		OBL	Prevalence Index = B/A = <u>2.8</u>
3				Hydrophytic Vegetation Indicators:
4				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				K3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11				¹ Indicators of hydric soil and wetland hydrology must
· · · · · · · · · · · · · · · · · · ·		= Total Cov		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	-	- 10tai 00v	ei	
1				Undrambutia
				Hydrophytic Vegetation
2				Present? Yes No
% Bare Ground in Herb Stratum		= Total Cov	er	
Remarks:				
Remarks:				

Sampling Point: <u>3</u>A

Profile Desc	cription: (Descri	be to the dep	th needed to docur	nent the i	ndicator	or confirm	the absence c	of indicators.)	
Depth	Matri			x Feature	s 1		T . (
(inches)	Color (moist)		Color (moist)		_Type ¹	Loc ²	Texture	Remark	(S
12	51R7.5-			·	<u> </u>	<u> </u>		······	
18+	54R5-	<u> </u>							
			6						
			· · · · · · · · · · · · · · · · · · ·						
		······································	•••••••						
¹ Type: C=C	oncentration, D=D	Depletion, RM	-Reduced Matrix, CS	G=Covered	d or Coate	d Sand Gra	ains. ² Loca	ation: PL=Pore Lining	, M=Matrix.
**			LRRs, unless other					s for Problematic Hy	
Histosol	(A1)		Sandy Redox (S5)			2 cm	Muck (A10)	
Histic E	oipedon (A2)		Stripped Matrix	(S6)			Red F	Parent Material (TF2)	
Black Hi	stic (A3)		Loamy Mucky M	-		MLRA 1)		Shallow Dark Surface	
	en Sulfide (A4)		Loamy Gleyed)		Other	r (Explain in Remarks)
	d Below Dark Sur	• •	Depleted Matrix	• •			31	a of humbral and a second	lation and
	ark Surface (A12)		Redox Dark Su	. ,	7)			s of hydrophytic vege d hydrology must be i	1
1	/lucky Mineral (S1 Gleyed Matrix (S4		Depleted Dark Redox Depress		()			disturbed or problem	
· · ·	Layer (if present							alotabed of problom	
Type:		,.							
	ches):						Hydric Soil F	Present? Yes	
Remarks:									
rtemante.									
HYDROLO	GY								
Wetland Hy	drology Indicato	rs:							
Primary India	cators (minimum o	of one require	<u>t; check all that appl</u>	y)			<u>Second</u>	lary Indicators (2 or n	nore required)
Surface	Water (A1)		Water-Stai	ned Leave	es (B9) (e:	kcept	Wa	ater-Stained Leaves (39) (MLRA 1, 2,
High Wa	ater Table (A2)		MLRA	1, 2, 4A, a	ind 4B)			4A, and 4B)	
Saturatio	on (A3)		Salt Crust	(B11)				ainage Patterns (B10)	
	larks (B1)		Aquatic In					y-Season Water Table	· · /
Sedimer	nt Deposits (B2)		Hydrogen	Sulfide Oc	lor (C1)		Sa	turation Visible on Ae	rial Imagery (C9)
	oosits (B3)			•	-	Living Root		omorphic Position (D	2)
	at or Crust (B4)		Presence		•	•		allow Aquitard (D3)	
	oosits (B5)					Soils (C6)		C-Neutral Test (D5)	
	Soil Cracks (B6)					1) (LRR A)		ised Ant Mounds (D6	
	on Visible on Aeri		· — · ·	lain in Re	marks)		Fro	ost-Heave Hummocks	(D7)
- • •	/ Vegetated Conc	ave Surface (58)						
Field Obser									
Surface Wat			No Depth (in			1			
Water Table			No Depth (in			1			\sim
Saturation P		Yes	No Depth (in	ches):		_ Wetla	nd Hydrology	Present? Yes	No <u>×</u>
	oillary fringe) corded Data (stre	am gauge, mo	nitoring well, aerial	photos, pre	evious ins	pections), if	f available:		
			<u> </u>	<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Remarks:						-			

WETLAND DETERMINATION DATA FORM – Western Mountains, Valleys, and Coast Region

Project/Site: Cosper Cari	City/County: Midney / Wasatch Sampling Date: 6/18					
Applicant/Owner: Rimode LLO	State: UT_ Sampling Point: Midner 3B					
Investigator(s): John Call Torrey Capture Rachel	Section, Township, Range: <u>S27 13S R48</u>					
Landform (hillslope, terrace, etc.):bother	Local relief (concave, convex, none): <u>Cancane</u> Slope (%): 1-5					
Subregion (LRR): E Portay Mts Lat: 4	0.52865 Long: -111.483813 Datum: Wassen					
Soil Map Unit Name: Kartch Loren	NWI classification: PSS/EMIC					
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 🗶 No (If no, explain in Remarks.)						
Are Vegetation, Soil, or Hydrology significantly	y disturbed? 🎶 Are "Normal Circumstances" present? Yes 📉 No					
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? \sqrt{D} (If needed, explain any answers in Remarks.)					

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes <u>K</u> No <u></u> Yes No <u>K</u> Yes No <u>K</u>	Is the Sampled Area within a Wetland?	Yes	No
Remarks:				

VEGETATION – Use scientific names of plants.

	Absolute	Dominant		Dominance Test worksheet:
		Species?	All'	Number of Dominant Species
	15	-	FACW	That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3	. <u> </u>		<u> </u>	Species Across All Strata: (B)
4				Percent of Dominant Species
		= Total Co	ver	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)				Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species 20 $x_1 = 20$
3				FACW species $15 \times 2 = 30$
4	<u></u>		.	FAC species 20 $x_3 = 10$
5				FACU species 30 x4= 120
· · · · · · · · · · · · · · · · · · ·		= Total Co	ver	UPL species $15 \times 5 = 75$
Herb Stratum (Plot size:)	~ > >	State of the second	CACIN	Column Totals: 100 (A) 255 (B)
1. Howed-burgle Cynoglossim alturale 2. Pria least Lysichtan americanus		·	FACU	
		<u></u>	OBL	Prevalence Index = B/A = 2.05
3. A Barre smosth Brows many			UPL	Hydrophytic Vegetation Indicators:
4. purp flower Solanum dulcamara	15	·	FAC	1 - Rapid Test for Hydrophytic Vegetation
5. Thistle gp Cirsun spp.			FAC	2 - Dominance Test is >50%
6. burdock Arctim mines		. <u> </u>	NL	3 - Prevalence Index is ≤3.0 ¹
7				4 - Morphological Adaptations ¹ (Provide supporting
8				data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11.				¹ Indicators of hydric soil and wetland hydrology must
	-	= Total Co	ver	be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)				
1				Hydrophytic
2			. <u></u>	Vegetation
		= Total Co	ver	Present? Yes No
% Bare Ground in Herb Stratum				
Remarks:				

US Army Corps of Engineers

Sampling Point:

Brofile Doco	rinfion: /Deco	riha ta tha c	lanth no	adad ta dagur	nont the i	indicator	or confirm	the absence of	indicators)	
	•		ieptii nei				or comm	time absence of	indicators.)	
Depth (inches)	Mat Color (mois		C	olor (moist)	<u>x Feature</u> %	s Type ¹	Loc ²	Texture	Remarks	
13	59K 75	<u>., </u>							Ternal Ka	
		<i>₫</i>			•		******		,,	
- 214	54251					·				
		······································								
					·					
•						·	. <u> </u>	·		
					. <u></u>		<u> </u>	·		
		·····						· · · ·		
			<u> </u>		·	······				
••	ncentration, D=						d Sand Gra		on: PL=Pore Lining, M=Matrix.	
	ndicators: (Ap	plicable to	all LRRs	, unless other	wise not	ed.)			for Problematic Hydric Soils ³ :	
Histosol	• • •			andy Redox (S	•			2 cm M		
	ipedon (A2)			tripped Matrix					arent Material (TF2)	
Black His				oamy Mucky N	-		MLRA 1)		hallow Dark Surface (TF12)	
	n Sulfide (A4)			oamy Gleyed I	•)		Other (Explain in Remarks)	
	Below Dark Su	• •		epleted Matrix				3		
	rk Surface (A12			edox Dark Su	• •				of hydrophytic vegetation and	
	ucky Mineral (S			epleted Dark S		.7)			hydrology must be present,	
	leyed Matrix (S4		R	edox Depress	ions (F8)			uniess a	listurbed or problematic.	
	ayer (if presen.	-								
					esent? Yes No K					
Remarks:										
HYDROLO	GΥ									
Wetland Hyd	Irology Indicate	ors:								
Primary Indic	ators (minimum	of one requi	red; chec	k all that apply	0			<u>Seconda</u>	ry Indicators (2 or more required)	
Surface \	Nater (A1)		-	Water-Stai	ned Leave	es (B9) (e)	ccept	Wate	er-Stained Leaves (B9) (MLRA 1, 2,	
High Wat	ter Table (A2)			MLRA [•]	1, 2, 4A, a	nd 4B)		4.	A, and 4B)	
Saturatio	n (A3)			Salt Crust	(B11)			Drair	nage Patterns (B10)	
Water Ma			_	Aquatic Inv		s (B13)			Season Water Table (C2)	
	t Deposits (B2)		-	 Hydrogen \$					ration Visible on Aerial Imagery (C9)	
	osits (B3)		-				iving Root		norphic Position (D2)	
	t or Crust (B4)		-	Presence of Reduced Iron (C4)					low Aquitard (D3)	
Iron Depo			-	Recent Iron Reduction in Tilled Soils (C6					-Neutral Test (D5)	
	Soil Cracks (B6)		_							
	n Visible on Ae			Stunted or Stressed Plants (D1) (LRR A) Other (Explain in Remarks)					t-Heave Hummocks (D7)	
	Vegetated Con	- +				marks)			-neave numinocks (D7)	
	<u> </u>	cave Sunace	+ (DO)							
Field Observ										
Surface Wate				Depth (inc						
Water Table F	Present?			Depth (inc						
Saturation Pre		Yes	_ No	Depth (inc	hes):		_ Wetlaı	nd Hydrology Pi	resent? Yes No 📉	
(includes capi	illary fringe) orded Data (stre	am dando	monitoria	n well serial n	hotos pro	Winne iner	lections) if	available		
Describe rec		zam gauge,		g wen, aenar p	10:03, pre	svioda mat	Jeeuona), ii	available.		
Remarks:										
				•						

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Cosper Cari	City/County:	WACD		Sampling Da	te: <u>6</u>	/18
Applicant/Owner: Riemoved			State:	Sampling Po	int:	3C
Investigator(s): Josh Turney Rendel	Section, Town	ship, Range: _	S77 735	RYE		
Landform (hillslope, terrace, etc.):	Local relief (co	oncave, convex	, none): <u>Cons</u>	kiren and	Slope (%	6): <u> - 3</u>
Subregion (LRR): Eleky min Lat: 4	10.52873	8 Long	<u>: -111-4038</u>	<u>M3</u> [Datum:	W6524
Soil Map Unit Name: Kerne L			NWI classifica	ation: <u>PSS</u>	5/Sw	101
Are climatic / hydrologic conditions on the site typical for this time of ye	ear?Yes 🔜	No	(If no, explain in Re	emarks.)	1	
Are Vegetation, Soil, or Hydrology significantly	/ disturbed?	Are "Norma	Il Circumstances" p	resent? Yes	~	No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic?	(If needed,	explain any answer	s in Remarks	.)	

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

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

VEGETATION – Use scientific names of plants.

	Absolute	Dominant Inc		Dominance Test worksheet:	
······································		Species? S		Number of Dominant Species	
1. Box Elder Acces negues	40		AC	That Are OBL, FACW, or FAC:	(A)
				Total Number of Dominant	
3			1		(B)
4					(0)
				Percent of Dominant Species	
Sapling/Shrub Stratum (Plot size:)		= Total Cover		· · ·	(A/B)
				Prevalence Index worksheet:	
1				Total % Cover of: Multiply by:	
2				OBL species x1=0	
3				FACW species x 2 =	-
4				FAC species 55 x 3 = 165	-
5	. <u> </u>			FACU species 20 $x4 = 970$	-
	·	_ = Total Cover		UPL species $5 \times 5 = 25$	-
Herb Stratum (Plot size:)					
1. Busilock Aretun minimis	<u>.5</u>		R.	Column Totals: <u>100</u> (A) <u>290</u>	_ (B)
2. A Solanim dulcamara			AC	Prevalence Index = B/A =	
3. Lysichitan americants	20		032	Hydrophytic Vegetation Indicators:	
4. Havades tingue Ginoglasson discide	20	4 8 3	AU	1 - Rapid Test for Hydrophytic Vegetation	
5				2 - Dominance Test is >50%	
6				<u> </u>	
7				4 - Morphological Adaptations ¹ (Provide supp	orting
8			1	data in Remarks or on a separate sheet)	U
9				5 - Wetland Non-Vascular Plants ¹	
10				Problematic Hydrophytic Vegetation ¹ (Explain	า)
11				¹ Indicators of hydric soil and wetland hydrology m	nust
····		= Total Cover		be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size:)					
1				Hydrophytic	
2				Vegetation	
2 · · · · · · · · · · · · · · · · · · ·		_= Total Cover		Present? Yes <u>No</u> No	
% Bare Ground in Herb Stratum					
Remarks:				L	
1					

Sampling Point:

.

Depth Matrix Redox Features (inches) Color (molei) % Type Loc ² Texture Remarks 1 Y 5 Y/2 S - 2
114 5 ½? 5 - ? 17+ 5 ½? 5 - ? 17+ 5 ½? 5 - ? 17+ 5 ½? 5 - ? 17+ 5 ½? 5 - ? 17+ 5 ½? 5 - ? 17+ 5 ½? 5 - ? 17+ 5 ½? 5 - ? 17+ 5 ½? 5 - ? 117+ 5 ½? 5 - ? 117+ 5 ½? 5 - ? 117+ 5 ½? 5 - ? 117+ 5 ½? 5 - ? 117+ 5 ½? 5 - ? 117+ 5 ½? 5 - ? 117+ 5 ½? 5 - ? 117+ 5 ½? 117+ 5 ½? 117+ 5 ½? 117+ 5 ½? 117+ 5 ½? 117+ 5 ½? 117+ 5 Å? 117+ 5 Å? 117+ 5 Å? 1184 12 Å? 1184 5 Å? 1184 12 Å?
17+ 5 VE 5 - 1 17 17 17 5 VE 5 - 1 17 17 17 2 cm Muck (A10) 11 10 11 10 11 10 11 10 11 10 11 10
Image: Secondary Indicators: Image: Secondary Indicators: Prype: 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 ¹ :
Image: Secondary Indicators: Image: Secondary Indicators: Prype: 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 ¹ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :
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) Other (Explain in Remarks) Attrick Dark Surface (A12) Redox Dark Surface (F6) ³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if present): Type:
Restrictive Layer (if present): Type: Hydric Soil Present? Yes No Depth (inches): Hydric Soil Present? Yes No No Remarks: Hydric Soil Present? Yes No No HyDROLOGY Vetland Hydrology Indicators: Secondary Indicators (2 or more required) Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Type:
Depth (inches): Hydric Soil Present? Yes No Remarks: HYDROLOGY 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)
Remarks: HYDROLOGY 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) Satt Crust (B11)
HYDROLOGY 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)
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)
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)
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Water-Stained Leaves (B9) (except High Water Table (A2) MLRA 1, 2, 4A, and 4B) Saturation (A3) Satt Crust (B11)
High Water Table (A2) MLRA 1, 2, 4A, and 4B) 4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (B10)
Saturation (A3) Salt Crust (B11) Drainage Patterns (B10)
Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water Table (C2)
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3)
Iron Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5)
Surface Soil Cracks (B6) Stunted or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Frost-Heave Hummocks (D7)
Sparsely Vegetated Concave Surface (B8)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Depth (inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

×...

WETLAND DETERMINATION DATA FORM - Western Mountains, Valleys, and Coast Region

Project/Site: Cosper / Cari	City/County:		Sampling Date:	6/18
Applicant/Owner: Rimrock		State:	Sampling Point:	hop Gener 3 D
Investigator(s): Josh, Radel Torney	_ Section, Township, Range: _			· · ·
Landform (hillslope, terrace, etc.):	_ Local relief (concave, conve			÷(%): <u>\-3</u>
Subregion (LRR): 2 Reky Mtn. Lat: L	40.523804 Long	: -111.484116	Datum	: 84
Soil Map Unit Name: Karten Loam		NWI classifica	ation: <u>P35/2</u>	Surch
Are climatic / hydrologic conditions on the site typical for this time of y	ear? Yes 🔽 No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology significantly	y disturbed? Are "Norma	al Circumstances" pr	resent?Yes 🔜 🔀	<u> </u>
Are Vegetation, Soil, or Hydrology naturally pr	roblematic? (If needed,	explain any answer	s in Remarks.)	
SUMMARY OF FINDINCS Attack site way about				

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

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

VEGETATION – Use scientific names of plants.

	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. Boxelder Acer negnelo	35		FAC	That Are OBL, FACW, or FAC: (A)
2. Willow Salive sop	_20_	<u> </u>	FACW	Total Number of Dominant
3				Species Across All Strata: (B)
4				Demonstrat Demolscart On a bar
	55	= Total Co	ver	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)		_		Prevalence Index worksheet:
1	-			
2				Total % Cover of: Multiply by:
3				OBL species $20 \times 1 = 50$
4				FACW species 20 x 2 = 40
5			·····	FAC species $\underline{15}$ x 3 = $\underline{135}$
				FACU species x 4 =
Herb Stratum (Plot size:)		= Total Co	ver	UPL species x 5 =
1. Nette Otrica drace	.5		FAC	UPL species $x 5 =$ Column Totals: 85 (A) 195 (B)
2. Pring leaf Lyschittm americanes	20		OBE	Prevalence Index = B/A =2 223
3. loa prostatais	5		FAL	Hydrophytic Vegetation Indicators:
4		·		1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is $\leq 3.0^1$
7				
8				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9				5 - Wetland Non-Vascular Plants ¹
10				Problematic Hydrophytic Vegetation ¹ (Explain)
11				¹ Indicators of hydric soil and wetland hydrology must
	20	= Total Cov		be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)			/er	
1	•			l la chenne la sti -
				Hydrophytic Vegetation
2		= Total Cov		Present? Yes No
% Bare Ground in Herb Stratum5	·		/er	
Remarks:				

Sampling Point:

~

SUL			
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)			
Depth Matrix	Redox Feature		
(inches) Color (moist) %	Color (moist) %	Type ¹ Loc ²	Texture Remarks
13 548 2.5-1			
			· · · · · · · · · · · · · · · · · · ·
19+ 54R 5-1			
	······································		······································
		· · · · · · · · · · · · · · · · · · ·	
	······································		
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 no	ted.)	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 (F	1) (except MLRA 1)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (Fi		Other (Explain in Remarks)
Depleted Below Dark Surface (A11)		-)	
	Redox Dark Surface (F6	N	³ Indicators of hydrophytic vegetation and
<u> </u>			wetland hydrology must be present,
Sandy Mucky Mineral (S1)			
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		unless disturbed or problematic.
Restrictive Layer (if present):			
Туре:			B ¹¹¹
Depth (inches):			Hydric Soil Present? Yes X No
Remarks:	•		
Remarks:			
HYDROLOGY			
· · · · · · · · · · · · · · · · · · ·			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one requ	uired; check all that apply)		Secondary Indicators (2 or more required)
Surface Water (A1)	Water-Stained Leav	/es (B9) (except	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 Patterns (B10)
	Aquatic Invertebrate	(P12)	Dry-Season Water Table (C2)
Water Marks (B1)	·	• •	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible on Aerial Imagery (CS			
Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2)			
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Shallow Aquitard (D3)			
Iron Deposits (B5)	Recent Iron Reduct	ion in Tilled Soils (C6)	FAC-Neutral Test (D5)
Surface Soil Cracks (B6)	Stunted or Stressed		Raised Ant Mounds (D6) (LRR A)
Inundation Visible on Aerial Imager			Frost-Heave Hummocks (D7)
		ciliarită)	
Sparsely Vegetated Concave Surfa	ce (B8)		
Field Observations:			
Surface Water Present? Yes	No Depth (inches):		
Water Table Present? Yes	No Depth (inches):		
			d Hudrology Brogont? Voc No No
	No Depth (inches):	vvetian	d Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Describe Recorded Data (stream gauge	, momoning weil, aenai priotos, p		
Remarks:			

Wetland Delineation and Investigation Report Whispering Creek Estates Wasatch County, Utah June 2020

APPENDIX D FIELD PHOTOS



Wetlands Delineation and Inventory Investigation Whispering Creek Estates Wasatch County, Utah June 2020







Wetlands Delineation and Inventory Investigation Whispering Creek Estates Wasatch County, Utah June 2020



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