Airport Surplus Canal Relocation Aquatic Resources Report

Prepared for:



Attn: Patty Nelis Airport Environmental Manager P.O. Box 145550 Salt Lake City, UT 84114 (801) 575-2400

Prepared by:



154 East 14075 South Draper, UT 84020 801-495-2224

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Executive Summary

The Airport Surplus Canal Relocation Project aquatic resource delineation was conducted according to the Corps of Engineers Wetlands Delineation Manual (ACOE 1987) and the Arid West Supplement (ACOE 2008).

A total of 280 acres were surveyed as part of this delineation. During the delineation, 16 aquatic resources were identified, for a total of 26.92 acres of wetlands, 21.77 acres of excavated and natural ponds, 10,634 linear feet of the canals, and 0.38 acres of upland features of note. The aquatic resource identified in the project area is classified as PEM5C (Palustrine, Emergent, *Phragmites australis*, Seasonally Flooded), PEM5E (Palustrine, Emergent, *Phragmites australis*, Seasonally Flooded/Saturated), PEM1C (Palustrine, Emergent, Persistent, Seasonally Flooded/Saturated), R2UBGx (Riverine, Lower Perennial, Unconsolidated Bottom, Intermittently Exposed, Excavated), PAB1F (Palustrine, Aquatic Bed, Persistent, Semi-permanently Flooded), PUBGx (Palustrine, Unconsolidated Bottom, Intermittently Exposed, Excavated), PUBHx (Palustrine, Unconsolidated Bottom, Permanently Flooded, Excavated), PUBE (Palustrine, Unconsolidated Bottom, Seasonally Flooded/Saturated), and U (Upland), according to the NWI classification system. The condition of these resources was typical at the time of the delineation.

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INTRODUCTION

This document presents results of a delineation of aquatic resources delineation conducted for the Salt Lake City International Airport (Airport) by Bowen Collins & Associates (BC&A) at the Airport Surplus Canal Relocation Project Site in Salt Lake County, Utah. The Airport is planning an end around taxiway and expanded employee parking area within the delineation area to accommodate the expanding infrastructure of the Airport. The addition of these facilities will require the re-routing of the Surplus Canal to the south of the project area. The purpose of this delineation is to determine potential wetlands for further impact analysis for this proposed project.

SITE LOCATION AND METHODOLOGY

The project area is located in Salt Lake County County, Utah, Sections 31, 32, and 33 of Township 1N, and Sections 4 and 5 of Township 1S in Range 1W. Directions to the site are as follows: From Bountiful, proceed south on 1-15 for about 3 miles to Exit 313 towards I-215 South. Take a right (west) onto I-215 South and continue for almost 6 miles. Take Exit 22B for 1-80 West toward the Salt Lake International Airport/Reno. Continue for 1 mile and keep right to go north, merging onto Terminal Drive. After three-quarters of a mile, take a slight right (east) to 3700 West Air Cargo. Keep right (east) at the fork and turn right (south) onto 3700 West. Travel south for about a quarter of a mile and take a left (southeast) at the fork to continue on 3700 West for about a quarter of a mile. Take a right (west) onto 100 North and continue through the gate to the west. Parking is available within the gate and the project site and accessible from this location. (See Site Location Figures, Appendix A).

The area delineated is approximately 280 acres of land, which was previously the Wingpointe Golf Course. This golf course was constructed on the remnants of a landfill, with topsoil and fill material brought in from adjacent properties to cover the landfill. The golf course has been closed since 2015 and is currently overgrown with grasses and noxious weeds. The Surplus Canal and North Point Canal Conveyance System, both manmade canals, run through the project area, which discharge into the wetlands surrounding the Great Salt Lake and Farmington Bay. Security fences were installed in the early 2000s, which cross through the delineation area in multiple locations, but do not alter any surface water flows. Both the canals and previous golf course design create a varied landscape, with many hills, depressions, and ponds which used to be heavily irrigated. There is no interstate or foreign commerce taking place on or within the delineated wetlands.

Field work for this delineation was conducted on October 27th, 2022, by Merissa Davis and Cara Glabau of BC&A. The total area delineated was approximately 280 acres and this entire area was observed during the site visit. Field conditions during the survey were clear and the area had not received precipitation for several days prior. The project area has the facilities for irrigation but has not been irrigated for about seven years.

The Custom Soil Resource Report for Salt Lake Area, Utah (NRCS 2022a) was used to determine soil types for the area. National Wetlands Inventory (NWI) data was also examined to obtain the location of possible jurisdictional wetlands on the site (see NWI figure, Appendix B). The wetland delineation was conducted according to the Corps of Engineers Wetlands Delineation Manual (ACOE 1987), Arid West Supplement (ACOE 2008), with a minimum of one sampling point per wetland area. Upland points were also sampled to further confirm wetland boundaries. A total of

19 points were sampled to delineate the wetlands within the delineation area, and these were sufficient to determine the location of the wetland boundaries. Points and boundaries were recorded using ArcGIS Collector connected with a Trimble R1 GPS receiver for sub-meter accuracy.

Based on the Manual, wetlands were identified using three criteria:

- Hydrophytic Vegetation
- Wetlands Hydrology
- Hydric Soils

Two out of the three criteria must be present to qualify as a wetland. An explanation of these wetland criteria follows.

Hydrophytic Vegetation

Hydrophytic plants are plants that are adapted to wet conditions. The National Wetland Plant List for the Arid West Region (ACOE 2012) was used to determine the wetland indicator status of dominant plant species encountered on sample plots. Sight-identification was used to determine most plant species.

Wetland Hydrology

Wetland hydrology is present when an area is inundated either permanently or periodically at mean water depths of two meters, or the soil is saturated to the surface at some time during the growing season of the prevalent vegetation. Primary hydrologic indicators also include high water tables, oxidized root channels, and sediment and drift deposits. Common secondary hydrologic indicators include watermarks, drainage patterns, and the FAC neutral test.

Hydric Soils

In Field Indicators of Hydric Soils in the U.S. (NRCS 2010) the Natural Resources Conservation Service (NRCS) defines hydric soils as soils that are formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the top 12 to 20 inches of soil, depending on soil texture. Hydric properties of soils were assessed using a spade to excavate the soil pit, and Munsell soil color charts to determine soil color.

RESULTS

Vegetation

Vegetation was identified primarily based on flowering parts and structural characteristics. Vegetation data collected and photos of the general vegetation for each sample point can be found in the Wetland Determination Data Forms (see Appendix C). The delineated area is dominated by native grasses and noxious weeds in the uplands and phragmites in the wetland areas. Plants that occur at the sampling locations are listed in Table 1 on the next page.

Table 1
Plants Observed at the Airport Surplus Canal Relocation Project Site

Latin Binomial	Common Name	Region 8 Indicator Status*
Salicornia utahensis	Utah Swampfire	OBL
Allenrolfea occidentalis	Pickleweed	FACW
Phragmites australis	Common Reed	FACW
Salix exigua	Narrowleaf Willow	FACW
Dipsacus fullonum	Fuller's Teasel	FAC
Distichlis spicata	Saltgrass	FAC
Elaeagnust angustifolia	Russian Olive	FAC
Tamarix chinensis	Five-Stamen Tamarisk	FAC
Cirsium arvense	Canada Thistle	FACU
Lepidium perforatum	Clasping Pepperweed	FACU
Phleum pratense	Timothy	FACU
Rosa woodsia	Woods Rose	FACU
Salsola tragus	Russian Thistle	FACU
Sisymbrium altissimum	Tall Tumblemustard	FACU
Bromus tectorum	Cheatgrass	UPL
Cardaria draba	Whitetop	UPL
Heterotheca spp.	Aster	UPL
Sphaeralcea spp.	Globemallow	UPL
Thinopyrum intermedium	Intermediate Wheatgrass	UPL

^{*}Indicator Status:

OBL = occurs in aquatic resources > 99% of time

FACW = occurs in aquatic resources 67-99% of time

FAC = occurs in aquatic resources 34-66% of time

FACU = occurs in aquatic resources 1-33% of time

UPL = occurs in uplands > 99% of time

(Note: Hydrophytic plant species are shaded gray)

Hydrology

The hydrology of the site is primarily the result of both the Surplus Canal and the North Point Canal Conveyance System, plus some hydrology sourced directly from stormwater runoff. The Surplus Canal diverts water from the Jordan River and flows through the delineation area before it continues north of the airport and discharges into Farmington Bay. The North Point Canal Conveyance System is a controlled diversion of the Surplus Canal, which flows through the middle of the delineation area. This diversion was made to create ponded areas for the now abandoned golf course. After leaving the project area it is carried above the Surplus Canal and then flows in a concrete lined canal, continuing to the east to discharge into wetlands abutting the Great Salt Lake. Both the Surplus Canal and the North Point Canal Conveyance System have additional points of diversion downstream of the project area. The extents of these canals and drains can be seen in Appendix F.

Additional hydrology in some areas had no connection to the canals and rather comes from storm water runoff, seasonally pooling between the roadway and the golf course in roadside depressions.

Primary hydrologic indicators at the site included surface water, soil saturation, and surface soil cracks. Secondary indicators often included the FAC-Neutral test. Hydrologic data collected at the sample points can be found in the Wetland Determination Data Forms (see Appendix C). Overall, the ordinary high water marks of all the channels or ponds were clearly identified by drift deposits, changes in vegetation/soil, and erosion patterns (see Appendix E and Additional Photos, Appendix H).

Soils

The soils at the site are primarily alluvium and/or lacustrine deposits. The Salt Lake Area, Utah Soil Survey (NRCS 2022a) was referenced to determine soil types for the area. In addition to areas with water, the following soil types occur within the delineated area:

- Deckerman fine sandy loam, 0-1% slopes, somewhat poorly drained
- Deckerman loam, strongly saline, sodic, 0-1% slopes, somewhat poorly drained
- Dumps
- Leland fine sandy loam, 0-1% slopes, somewhat poorly drained
- Saltair silty clay loam, 0-1% slopes, poorly drained

Saltair silty clay loam is classified as hydric on the national and Utah hydric soils lists (NRCS 2015). Soil properties such as texture and Munsell soil color generally matched the soil descriptions found in the Custom Soil Resource Report for Salt Lake Area, Utah (NRCS 2022a). Soil data collected, including color and texture, at the sample points along with photos of the soil pits dug at each sample point can be found in the Wetland Determination Data Forms (see Appendix C). Additionally, a custom soil resource report from the NRCS for the site is located in Appendix D.

Sample Points

Of the 19 sample points taken at the site, ten points are located in wetlands. The Delineation Results Figure in Appendix E displays the sample point locations and Table 2 on the next page summarizes the sample point data.

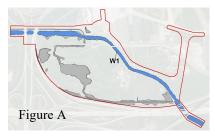
Table 2
Wetland Delineation Sample Point Summary
and Determination Matrix

Sample Point	Hydrophytes Dominant?	Hydric Soils Present?	Primary Hydrologic Indicator(s) Present?	Is the Sample Point in a Wetland?
1	Yes	No	Yes	Yes
2	No	No	No	No
3	Yes	Yes	Yes	Yes
4	No	No	No	No
5	Yes	Yes	Yes	Yes
6	No	No	No	No
7	Yes	No	Yes	Yes
8	No	No	No	No
9	Yes	Yes	Yes	Yes
10	No	No	No	No
11	Yes	No	No	No
12	Yes	Yes	Yes	Yes
13	Yes	Yes	No	Yes
14	Yes	Yes	Yes	Yes
15	No	No	No	No
16	Yes	Yes	Yes	Yes
17	No	No	No	No
18	Yes	Yes	No	Yes
19	No	No	No	No

Wetland Boundaries

The delineation area includes the Surplus Canal, the North Point Canal Conveyance System, and a variety of wetlands and ponds, some of which share hydrology with the canals, and others that are supported by stormwater runoff but are isolated. To further verify boundaries, comparisons were made with aerial photography in different seasons and years. Finally, two previous delineations conducted on this property in 2004 and 2009 were also reviewed to corroborate current findings. Although many of the aquatic resources identified were similar to those investigations, some have significantly changed or diminished as a result of impacts from the UTA TRAX rail line constructed in 2010. Additionally, when the golf course closed in 2015, the shutdown of overhead spray heads no longer provided consistent hydrology to majority of the property (See Golf Course Irrigation Plans, Appendix I). Overall, the aquatic resource boundaries are distinct due to changes in vegetation, soils, and hydrology throughout the site and the findings can be seen in the Delineation Results Figures in Appendix E.

The Surplus Canal (W1) is a manmade canal that forks from the Jordan River and continues north before discharging into Farmington Bay. The Surplus Canal was originally constructed in 1885 to divert floodwater from the Jordan River before being updated in the 1950s by USACE and Salt Lake County to increase the carrying capacity of the canal. The alignment near the Airport has been modified numerous times in the history of



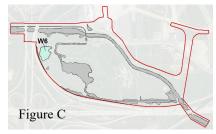
the Salt Lake valley. Most recently it was relocated for runway expansions in the 1980s and the 1990s (SLCO 2022). A total of 7,760 linear feet (21.13 acres) of the canal are present within the delineation area. The Surplus Canal enters the delineation area in the southeast corner, flowing to the northwest corner along the eastern and northern boundary of the delineation area, where it exits and continues north. The full alignment of the Surplus Canal can be seen in Appendix F. The ordinary high water mark of W1 was observed through drift deposits, erosion patterns, and changes in vegetation. The Surplus Canal is classified as R2UBGx (Riverine, Lower Perennial, Unconsolidated Bottom, Intermittently Exposed, Excavated) according to the NWI classification system. Due to its connection to Waters of the U.S. (the Great Salt Lake) the Surplus Canal is expected to be jurisdictional.



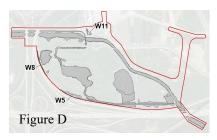
The extents of the North Point Canal Conveyance System within the delineation area has been separated into two aquatic resources (W3 and W10) due to the differing habitats that have been created during the construction of the canal. The North Point Canal diverges from the Surplus Canal near to the southeast corner of the delineation area at the control gate of the diversion structure (See Photo Point 22, Appendix H) which can

be closed or open to control flows. From the diversion it flows through the abandoned golf course, bisecting the site and expanding into a large, excavated pond area before rechanneling and being culverted under a road and crossing above the Surplus Canal. This lower section of the canal (W3) has an earthen bottom with vegetated edges. After being culverted under the roadway, the canal is concrete lined (W10) and runs adjacent to the Surplus Canal before exiting the delineation area. It continues west, eventually discharging into wetlands surrounding the Great Salt Lake. The earthen lined channel and ponded portion of the North Point Canal Conveyance System (W3) total 17.07 acres within the delineation area. The portion of the North Point Canal Conveyance System that flows in a concrete lined canal (W10) total 2,874 linear feet (1.23 acres) within the delineation area. These resources can be seen in the Delineation Results Figures in Appendix E and the full extents downstream can be seen in Appendix F. The ordinary high water marks of these resources were observed through drift deposits, erosion patterns, and changes in vegetation. W3 is classified as PUBGx (Palustrine, Unconsolidated Bottom, Intermittently Exposed, Excavated) and the concrete lined channel W10 is classified as R2UBGx (Riverine, Lower Perennial, Unconsolidated Bottom, Intermittently Exposed, Excavated) according to the NWI classification system. Despite their seasonal connection to the lake further downstream because these flows can be turned on or off at the control structure, both portions of the North Point Canal Conveyance System in the delineated area may not be considered jurisdictional.

An additional manmade pond (W6) within the delineation area was created as part of the golf course which totals 3.48 acres. There are no surface water flows to this pond, but it has piped connections to the both the Surplus Canal and the North Point Canal Conveyance System which are controlled with shut off gates (See Figure 4B, Appendix E). The water level of this pond is relatively consistent, with a clear ordinary high water mark



identified through changes in vegetation and soil composition. This pond is classified as PUBHx (Palustrine, Unconsolidated Bottom, Permanently Flooded, Excavated) according to the NWI classification system. Due to its ability to be controlled it may not be considered jurisdictional.

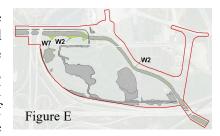


There are two ponded areas (W5 and W8) adjacent to the I-80 airport exit ramp where stormwater runoff accumulates. These total 0.93 acres and are surrounded by emergent marsh. Both ponds show seasonal flooding patterns and are classified as PUBE (Palustrine, Unconsolidated Bottom, Seasonally Flooded/Saturated) according to the NWI classification system. As these ponds are isolated and not connected to any Waters of

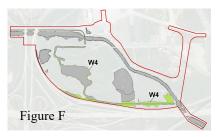
the U.S., W5 and W8 may not be considered jurisdictional.

Pond W11 is a stormwater detention pond created for the surrounding airport infrastructure (See Figure D above). It discharges to the Surplus Canal through an underground pipe. Pond W11 totals 0.29 acres and is classified as PAB1F (Palustrine, Aquatic Bed, Persistent, Semi-permanently Flooded) according to the NWI classification system and due to its connection to the Surplus Canal may be considered jurisdictional.

Wetland W2 is an emergent marsh fringe wetland along the Surplus Canal. This wetland totals 3.41 acres and is dominated by *Phragmites australis*, which grows along the edges of the canals. As such, it is classified as PEM5C (Palustrine, Emergent, *Phragmites australis*, Seasonally Flooded) according to the NWI classification system. Due to the canal's connection to Waters of the U.S. these emergent wetlands are expected to be jurisdictional.



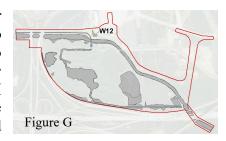
Wetland W7 surrounds the golf course manmade pond (see Figure E above) and is also an emergent march fringe wetland dominated by *Phragmites australis*. It is classified as PEM5C (Palustrine, Emergent, *Phragmites australis*, Seasonally Flooded) according to the NWI classification system. As the hydrology for this pond is controlled, the surrounding wetlands may not be considered jurisdictional.

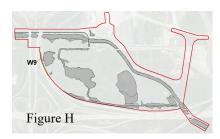


Wetland W4 is the emergent marsh fringe wetland along the North Point Canal Conveyance System which has likely developed from seepage of the earthen canal. In reviewing historic aerials and previous delineations of this area, this wetland used to extend further south towards the interstate exit ramp but was impacted when the UTA TRAX rail line was constructed in 2009. It now ends at the rail line berm. This

wetland totals 7.80 acres and is dominated by *Phragmites australis* along the edge of the canal. It is classified as PEM5C (Palustrine, Emergent, *Phragmites australis*, Seasonally Flooded) according to the NWI classification system. Due to the ability to turn off the North Point Conveyance System, these adjacent wetlands may not be considered jurisdictional.

Emergent marsh wetland W12 surrounds the airport stormwater detention pond and totals 0.11 acres. This wetland is similar to the phragmites dominated wetlands described above and is also classified as PEM5C (Palustrine, Emergent, *Phragmites australis*, Seasonally Flooded) according to the NWI classification system. Because of the pond's connection to the Surplus Canal, these adjacent wetlands may be considered jurisdictional.





Emergent marsh wetland W9 surrounds one of the stormwater ponding areas and totals 0.31 acres within the delineation area. This wetland is comprised fully of *Phragmites australis*, and is classified as PEM5E (Palustrine, Emergent, *Phragmites australis*, Seasonally Flooded/Saturated) according to the NWI classification system. Due to the lack of connection to Waters of the U.S. this may not be considered jurisdictional.

The emergent marsh wetland W14 is partially connected to the wetlands located along the North Point Canal Conveyance System. There is a berm separating the two wetlands, but some vegetation has bridged a connection. These wetland boundaries have been separated due to the variation in hydrology identified. This wetland spans from the berm down a gradual slope until the vegetation drastically changes. The clear difference in



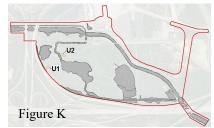
vegetation provided a notable boundary for this wetland. No surface connection to the canal was identified, but due to the proximity and similar elevation, there may be a groundwater connection between the hydrology of this wetland and the North Point Canal Conveyance System. The depressed topography of this wetland and clay soils also suggests there may be stormwater runoff collecting in this area. This wetland totals 3.36 acres and is classified as PEM5E (Palustrine, Emergent, *Phragmites australis*, Seasonally Flooded/Saturated) according to the NWI classification system. Due to the ability to turn off the North Point Conveyance System and no other connection to Waters of the U.S., this wetland may not be considered jurisdictional.



Wetland W13 is a wet meadow totaling 11.59 acres. This meadow has vegetation unlike the rest of the wetlands observed within the delineation area and is in a poorly drained depression with clay soils. Due to the soil cracks, salt crust, and areas of bare ground observed, it appears it may get inundated during storm events with extended water detention due to clay soils preventing natural seepage into the ground. There was no surface water or

groundwater observed at the time of the delineation field work. This wet meadow is classified as PEM1E (Palustrine, Emergent, Persistent, Seasonally Flooded/Saturated) according to the NWI classification system. As the main source of hydrology for this wetlands appears to be stormwater ponding in clay soils and as the adjacent wetland and canal are regulated at the North Point Canal Conveyance control gates, this wetland may not be considered jurisdictional.

Two additional areas (U1 and U2) were investigated due to the dense growth of *Phragmites australis*, but no hydrology or hydric soil characteristics observed at the sample points to qualify these locations as wetlands. These have likely sprung up from periodic stormwater in depressions designed for the golf course, but they do not appear to have consistent enough hydrology to have developed into true wetlands. Additionally,



they are isolated from any other aquatic resources identified in the area. These areas are classified as U (Upland) according to the NWI classification system.

A total of 10,634 linear feet of channels or waterway were delineated as part of this project which includes portions of the Surplus Canal and the North Point Canal Conveyance System. Three small ponds were also identified which total 1.22 acres of open water. A total of 26.92 acres of wetlands were identified within the delineation area which includes 15.33 acres of emergent marsh and 11.59 acres of wet meadow. All the wetlands, ponds, and canals described above are shown on the Delineation Results Figure found in Appendix E and are listed in the Aquatic Resources spreadsheet in Appendix G and in Table 3 on the next page. Indicators for vegetation, hydrology, and hydric soils were clear and easily identified but the classification, source, and possible jurisdiction of each resource varies.

Table 3
Aquatic Resources Within the Survey Area

Aquatic Resource	Aquatic R	esources Classification	Aquatic Resource Size	Aquatic Resource
Name	Cowardin*	Location (DD)	(acres)	Size (feet)
W1**	R2UBGx	40.769964 / -111.975989	(20.13)	7,760
W2	PEM5C	40.770365 / -111.976411	3.41	
W3	PUBGx	40.768327 / -111.97905	17.07	
W4	PEM5C	40.766498 / -111.97393	7.80	
W5	PUBE	40.766548 / -111.980935	0.73	
W6	PUBHx	40.770396 / -111.984537	3.48	
W7	PEM5C	40.770487 / -111.984347	0.34	
W8	PUBE	40.769858 / -111.985209	0.20	
W9	PEM5E	40.769773 / -111.985129	0.31	
W10**	R2UBGx	40.772848 / -111.983115	(1.23)	2,874
W11	PAB1F	40.772863 / -111.978795	0.29	
W12	PEM5C	40.772893 / -111.978759	0.11	
W13	PEM1E	40.767909 / -111.974113	11.59	
W14	PEM5E	40.76642 / -111.973649	3.36	
U1***	U	40.768897 / -111.984188	(0.14)	
U2***	U	40.770117 / -111.982166	(0.24)	
	I	Totals:	48.69 ac	10,634 ft

^{*}Cowardin Codes:

R2UBGx - Riverine, Lower Perennial, Unconsolidated Bottom, Intermittently Exposed, Excavated

PEM5C - Palustrine Emergent, Phragmites australis, Seasonally Flooded

PEM5E - Palustrine Emergent, Phragmites australis, Seasonally Flooded/Saturated

PEM1E - Palustrine Emergent, Persistent, Seasonally Flooded/Saturated

PUBHx - Palustrine Unconsolidated Bottom, Excavated, Permanently Flooded, Excavated

PUBGx - Palustrine Unconsolidated Bottom, Excavated, Intermittently Exposed, Excavated

PUBE - Palustrine Unconsolidated Bottom, Excavated, Seasonally Flooded/Saturated

PAB1F - Palustrine Aquatic Bed, Algal, Semi-permanently Flooded

U - Upland

^{**} Acreages for the Surplus Canal and concrete-lined portion of the North Point Canal Conveyance System are only provided for reference and are not included in the total area acreage.

^{***} Not wetlands. Phragmites patches with no hydric soils or hydrology. Acreage not included in totals.

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Appendix A

Site Location Figures

1 in. = 1,000 ft.



SITE LOCATION

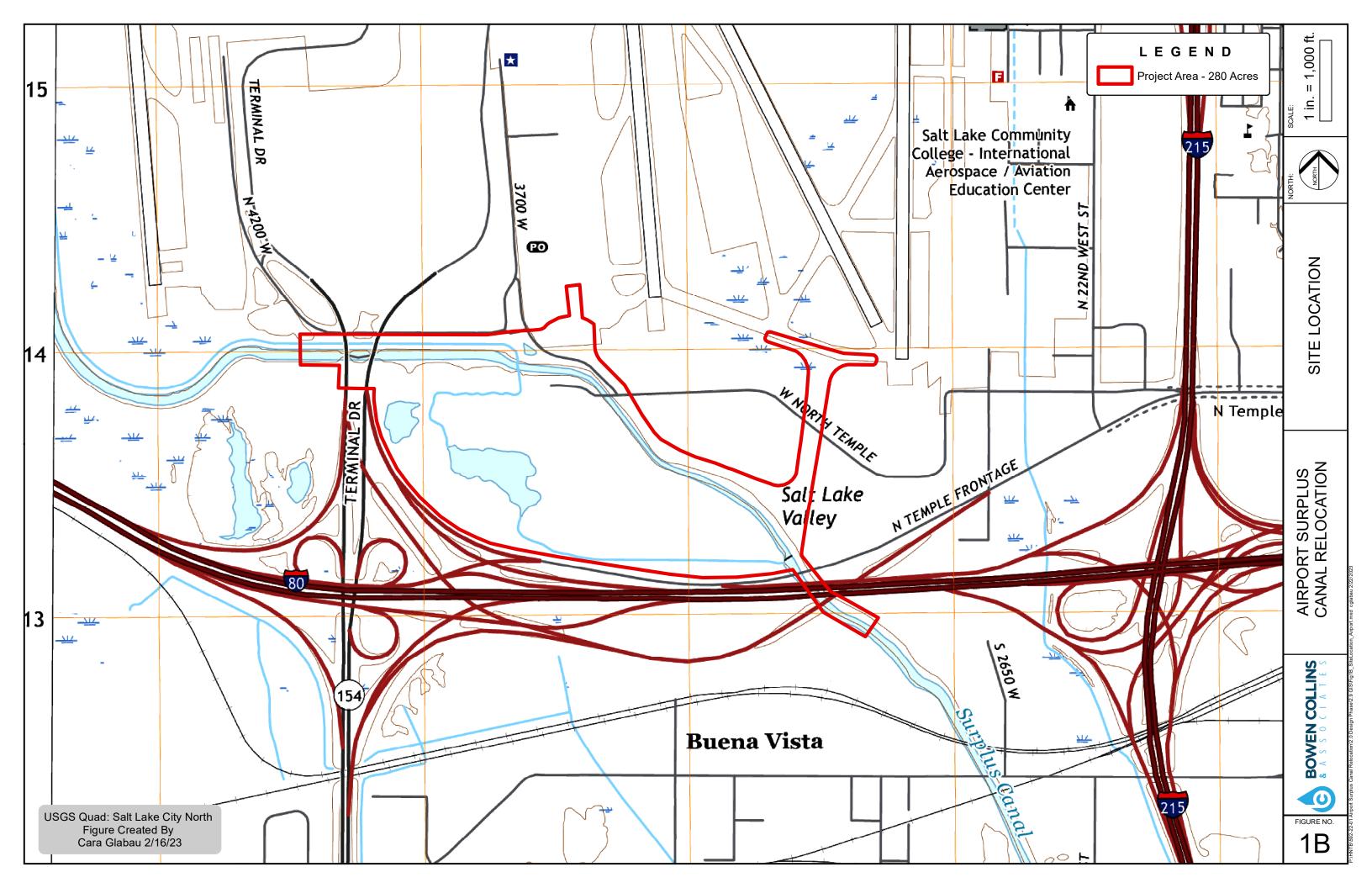
AIRPORT SURPLUS CANAL RELOCATION

BOWEN COLLINS

& A S S O C I A T E S

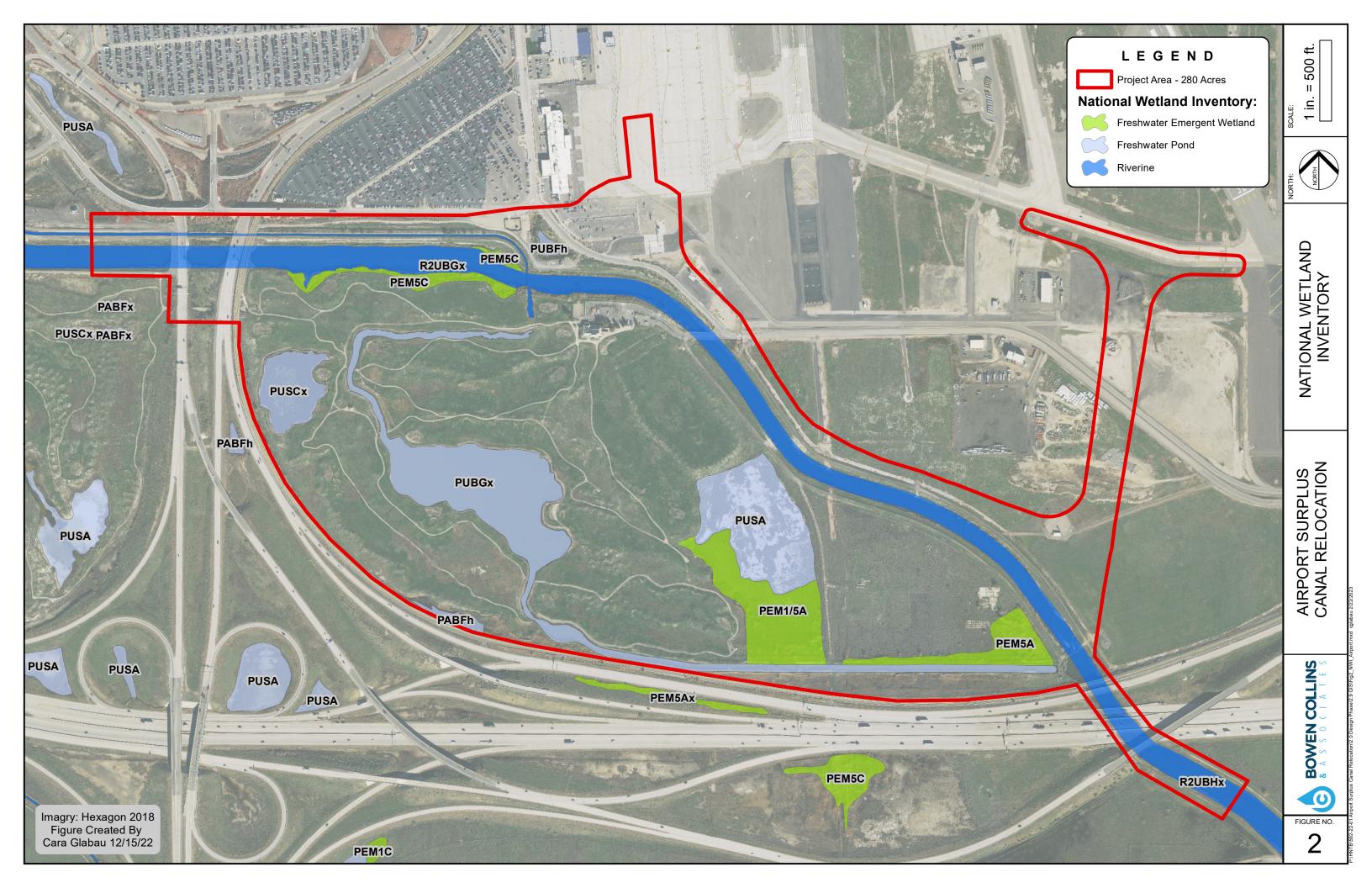


1A



Appendix B

NWI Figures



Appendix C

Wetland Determination Data Forms & Photographs

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: <u>Airport Surplus Canal Relocation</u>	(City/County	: SLC/Salt	Lake County Sampling Date: 10/27/22
Applicant/Owner: Salt Lake City International Airport				State: UT Sampling Point: SP1
Investigator(s): M. Davis and C. Glabau		Section, To	wnship, Ra	nge: Section 32, Township 1N, Range 1W
Landform (hillslope, terrace, etc.): Hillslope		Local relief	(concave,	convex, none): Concave Slope (%): 2-3%
			•	Long: -111.980059 Datum: NAD 1983
Soil Map Unit Name: Leland fine sandy loam				
Are climatic / hydrologic conditions on the site typical for this			_	
Are Vegetation, Soil, or Hydrology sig				*Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na				
SUMMARY OF FINDINGS – Attach site map s				
Hydrophytic Vegetation Present? Yes ✓ No	1			
Hydric Soil Present? Yes No	, <u> </u>		e Sampled	
Wetland Hydrology Present? Yes No)	With	in a Wetlar	nd? Yes <u>✓</u> No
Remarks:		•		
VEGETATION – Use scientific names of plant				
·	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')				Number of Dominant Species
1. Elaeagnus angustifolia (Russian Olive)	8%	Yes	FAC	That Are OBL, FACW, or FAC:4 (A)
2				Total Number of Dominant
3				Species Across All Strata:4 (B)
4				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15')	8%	_= Total Co	ver	That Are OBL, FACW, or FAC: 100% (A/B)
1. Rosa woodsii (Woods Rose)	5%		_FACU_	Prevalence Index worksheet:
2. Tamarix chinensis (Five-stamen Tamarisk)		Yes	FAC	Total % Cover of: Multiply by:
3. Salix exigua (Narrowleaf Willow)	<u>15%</u>	<u>Yes</u>	_FACW_	OBL species x 1 =
4				FACW species <u>85</u> x 2 = <u>170</u>
5				FAC species <u>38</u> x 3 = <u>114</u>
Herb Stratum (Plot size: 5')	<u>35%</u>	= Total Co	ver	FACU species 10 x 4 = 40
1. <u>Dipsacus fullonum (Fuller's Teasel)</u>	15%		FAC	UPL species x 5 = Column Totals:133 (A)324 (B)
Phragmites australis (Common Reed)		Yes	FACW	Column Totals(A)(B)
3. Cirsium arvense (Canada Thistle)	- 0/		FACU	Prevalence Index = B/A =
4				Hydrophytic Vegetation Indicators:
5				✓ Dominance Test is >50%
6				✓ Prevalence Index is ≤3.0¹
7				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
8				Problematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:5')	90%	_ = Total Co	ver	
1				¹ Indicators of hydric soil and wetland hydrology must
2.				be present, unless disturbed or problematic.
	0%	= Total Co	ver	Hydrophytic
% Bare Ground in Herb Stratum 10% % Cover	of Biotic Cı	rust 09	%	Vegetation Present? Yes✓_ No
Remarks:		'	<u> </u>	

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SOIL Sampling Point: SP1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	<u>Matrix</u>			x Features	_ 1	. 2	
(inches)	Color (moist)		Color (moist)	<u> </u>	Type ¹	Loc ²	Texture Remarks
0-4	10 YR 4/1	_ <u>100%</u> _					Clay
4-10	10 YR 4/2	100%		·			Clay
10-16	2.5 Y 5/3	_ <u>100%</u> _					
				·			
	oncentration, D=De					ed Sand Gr	
_	Indicators: (Appli	cable to all Li			a.)		Indicators for Problematic Hydric Soils ³ :
Histosol	(A1) pipedon (A2)		Sandy Redo Stripped Ma				1 cm Muck (A9) (LRR C) 2 cm Muck (A10) (LRR B)
Black Hi			Loamy Muc		(F1)		Reduced Vertic (F18)
	n Sulfide (A4)		Loamy Gley				Red Parent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M				Other (Explain in Remarks)
1 cm Mu	ıck (A9) (LRR D)		Redox Dark				
-	d Below Dark Surfa	ce (A11)	Depleted Da				2
· 	ark Surface (A12)		Redox Depi		8)		³ Indicators of hydrophytic vegetation and
-	Mucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pool	s (F9)			wetland hydrology must be present, unless disturbed or problematic.
	Layer (if present):						diffess disturbed of problematic.
Type:							
Depth (inc	ches):		<u>—</u>				Hydric Soil Present? Yes No _ ✓
Remarks:			<u> </u>				
HYDROLO	GY drology Indicators						
=	cators (minimum of		shook all that apple				Secondary Indicators (2 or more required)
	-	one required,					
	Water (A1) iter Table (A2)		Salt Crust Biotic Crus				<pre> Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)</pre>
High wa			Aquatic Inv		(B13)		Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
	arks (B1) (Nonrive	rine)	Hydrogen				Drainage Patterns (B10)
· · · · · · · · · · · · · · · · · · ·	nt Deposits (B2) (N o	•				Living Roc	ots (C3) Dry-Season Water Table (C2)
· · · · · · · · · · · · · · · · · · ·	posits (B3) (Nonriv e	•	Presence		-	-	Crayfish Burrows (C8)
	Soil Cracks (B6)	,	Recent Iro				
	on Visible on Aerial	Imagery (B7)					Shallow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Exp	olain in Rer	narks)		✓ FAC-Neutral Test (D5)
Field Obser	vations:						
Surface Water	er Present?	Yes No	o <u></u> ✓ Depth (inc	ches):			
Water Table			o <u>✓</u> Depth (inc				
Saturation P		Yes <u>✓</u> No	Depth (inc	ches): <u>0-1</u>	6 inches	S_ Wetl	land Hydrology Present? Yes ✓ No
(includes cap Describe Red	oillary fringe) corded Data (strear	n gauge, moni	toring well. aerial r	ohotos, pre	vious ins	pections)	if available:
		J J = ,	J,	, p · · ·		, /,	
Remarks:							
	ist horderling	caturated	hut may hay	ıe heen	more (so earlic	er in the season.
JUII 13 111U	ist, borderinie	saturateu	, but may nav	יב אבפוו	inole :	o cariit	er in the season.

Airport Surplus Canal Relocation



Sample Point 1 (Wetland)



Sample Point 1 (Wetland)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Airport Surplus Canal Relocation	City	/County: SLC/Salt	Lake County	Sampling Date:	10/27/22
Applicant/Owner: Salt Lake City International Airport			State: UT	Sampling Point:	SP2
Investigator(s): M. Davis and C. Glabau	Sec	tion, Township, Ra	ange: <u>Section 32, Tow</u>	nship 1N, Range	1W
Landform (hillslope, terrace, etc.): Meadow	Loc	cal relief (concave,	convex, none): None	Slo	pe (%): <u>0-1%</u>
Subregion (LRR): D	Lat: <u>40.772</u>	201	_ Long: <u>-111.980117</u>	Datu	m: NAD 1983
Soil Map Unit Name: Leland fine sandy loam			NWI classi	fication: None	
Are climatic / hydrologic conditions on the site typical for thi	is time of year?	Yes _ ✓ No _	(If no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology:	significantly dist	urbed? Are	"Normal Circumstances	" present? Yes	∕ No
Are Vegetation, Soil, or Hydrology			eeded, explain any ansv	vers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map			ocations, transec	ts, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes N	No _ ✓ _	la the Samples	d Area		
Hydric Soil Present? Yes N	√ ol	Is the Sampled within a Wetla		No <u>✓</u>	
Wetland Hydrology Present? Yes N	No <u>✓</u>	within a vvena	iiu: 165		-
Remarks:					
Recent short rain or snow storm.					
VEGETATION – Use scientific names of plar	nts.				
Tree Stratum (Plot size: 30')		ominant Indicator	Dominance Test wo	rksheet:	
1		oecies? Status	Number of Dominant That Are OBL, FACW) (A)
2					(14)
3.			Total Number of Dom Species Across All St		L(B)
4.					(-/
451	= -	Γotal Cover	Percent of Dominant That Are OBL, FACW		% (A/B)
Sapling/Shrub Stratum (Plot size: 15')			Prevalence Index we		
1				erksneet: : Multipl	ly by:
2 3			OBL species		
4			FACW species		
5.			FAC species		
	0% = -	Total Cover	FACU species 10	x 4 =	40
Herb Stratum (Plot size: 5')	700/	V	UPL species <u>82</u>		
1. Bromus tectorum (Cheatgrass)		Yes UPL	Column Totals:	<u>92</u> (A)	450 (B)
Cirseum arvense (Canada Thistle) Sisymbrium altissimum (Tall Tumblemustard)			Prevalence Inde	ex = B/A =4	.46
4. Sphaeralcea spp. (Globemallow)			Hydrophytic Vegeta		
5			Dominance Test		
6.			Prevalence Index		
7				daptations¹ (Provide	
8				rks or on a separate	•
N. 1. 15. O. 1. (D. 1.)	92% =	Total Cover	Problematic Hydi	ropnytic vegetation	(Explain)
Woody Vine Stratum (Plot size: 5'			¹ Indicators of hydric s	soil and wetland hvd	rology must
1. 2.			be present, unless dis		
2.		Fotal Cover	Hydrophytic		
N/ Para Constant in Harly Observation 99/			Vegetation	7	1
	er of Biotic Crust		Present?	/es No	<u>*</u>
Remarks:					

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SOIL Sampling Point: SP2

	cription: (Describe	to the depth				or confirr	n the absence	e of indicators.)
Depth (inches)	<u>Matrix</u> Color (moist)	 _	Redo Color (moist)	x Features %		Loc ²	Texture	Remarks
0-5	10 YR 3/3	100%	J G G G G G G G G G G G G G G G G G G G					Loam
5-16	10 YR 4/3	100%						Sandy-Loam
<u>J-10</u>	10 11(4/3	10070						Sandy-Loani
¹ Type: C=C	oncentration, D=Dep	letion. RM=F	Reduced Matrix, C	S=Covered	d or Coate	ed Sand G	rains. ² Lo	cation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic							s for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Red	ox (S5)			1 cm	Muck (A9) (LRR C)
Histic E _l	pipedon (A2)		Stripped Ma	atrix (S6)			2 cm	Muck (A10) (LRR B)
	istic (A3)		Loamy Mud					ced Vertic (F18)
	en Sulfide (A4)	^ \	Loamy Gley		(F2)			Parent Material (TF2)
	d Layers (A5) (LRR (uck (A9) (LRR D)	()	Depleted M Redox Dark		E6)		Other	(Explain in Remarks)
	d Below Dark Surfac	e (A11)	Nedox Dan					
-	ark Surface (A12)	(, ,	Redox Dep				³ Indicators	s of hydrophytic vegetation and
	Mucky Mineral (S1)		Vernal Poo		•		wetland	hydrology must be present,
	Sleyed Matrix (S4)						unless	disturbed or problematic.
Restrictive	Layer (if present):							
Type:			<u>—</u>					_
Depth (in	ches):		<u> </u>				Hydric Soi	I Present? Yes No _✓
Remarks:								
	OV.							
HYDROLO								
_	drology Indicators:						0	
	cators (minimum of o	ne required;						ndary Indicators (2 or more required)
	Water (A1)		Salt Crust	` '				Water Marks (B1) (Riverine)
	ater Table (A2)		Biotic Crus		- (D12)			Sediment Deposits (B2) (Riverine)
Saturation	on (A3) 1arks (B1) (Nonriver	ino)	Aquatic In Hydrogen		, ,			Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
·	nt Deposits (B2) (No	· ·				Livina Ro		Dry-Season Water Table (C2)
	posits (B3) (Nonrive	•	Presence		-	-		Crayfish Burrows (C8)
	Soil Cracks (B6)		Recent Iro		•	•		Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial	Imagery (B7)					*	Shallow Aquitard (D3)
	stained Leaves (B9)	0,1,	Other (Ex					FAC-Neutral Test (D5)
Field Obser								<u> </u>
Surface Wat	er Present? Y	′es N	o <u> </u>	ches):				
Water Table			o <u>✓</u> Depth (in					
Saturation P		·	o <u> </u>				land Hydrolog	gy Present? Yes No 🗸
(includes car	pillary fringe)							
Describe Re	corded Data (stream	n gauge, mon	itoring well, aerial	photos, pr	evious ins	pections).	ıt available:	
_								
Remarks:								

Airport Surplus Canal Relocation



Sample Point 2 (Upland)



Sample Point 2 (Upland)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Airport Surplus Canal Relocation	City/County: SLC/S	Salt Lake County	Sampling Date:10/27/22
Applicant/Owner: Salt Lake City International Airpor	rt	State: UT	Sampling Point: SP3
Investigator(s): M. Davis and C. Glabau	Section, Township,	, Range: <u>Section 32, Town</u>	ship 1N, Range 1W
Landform (hillslope, terrace, etc.): Hillslope	Local relief (conca	ve, convex, none): Concave	Slope (%): <u>2-3%</u>
Subregion (LRR): D	Lat: 40.772139	Long: <u>-111.984034</u>	Datum: NAD 1983
Soil Map Unit Name: Saltair silty clay loam			
Are climatic / hydrologic conditions on the site typical for	_		
Are Vegetation, Soil, or Hydrology			present? Yes No
Are Vegetation, Soil, or Hydrology		If needed, explain any answe	
SUMMARY OF FINDINGS – Attach site ma			
Hydrophytic Vegetation Present? Yes <u>✓</u>	No		<u> </u>
Hydric Soil Present? Yes	No.		,
Wetland Hydrology Present? Yes		etland? Yes <u> </u>	No
Remarks:			
VECETATION Line accontific names of pl			
VEGETATION – Use scientific names of plants		tor Dominance Test work	rahaati
Tree Stratum (Plot size:30')	Absolute Dominant Indicates Species? Status		
1		That Are OBL, FACW,	
2		Total Number of Domir	nant
3		Species Across All Stra	_
4		Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size:15')	0% = Total Cover	That Are OBL, FACW,	or FAC: <u>100%</u> (A/B)
1. Tamarix chinensis (Five-stamen Tamarisk)	8% Yes FAC	Prevalence Index wor	ksheet:
2.		Total % Cover of:	Multiply by:
3		OBL species	x 1 =
4			x 2 = <u>150</u>
5		 -	x 3 = <u>84</u>
Herb Stratum (Plot size:5')	8% = Total Cover	·	x 4 =
1. Dipsacus fullonum (Fuller's Teasel)	<u>20%</u> <u>Yes</u> FAC	UPL species Column Totals:1	
2. Phragmites australis (Common Reed)		Ocidinii Totals.	<u> </u>
3		Prevalence Index	z = B/A =2.27
4		Hydrophytic Vegetati	
5		Oominance Test is	
6		— Prevalence Index	
7			ptations ¹ (Provide supporting s or on a separate sheet)
8		— Problematic Hydro	phytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:5')	<u>95%</u> = Total Cover		
1			il and wetland hydrology must
2		be present, unless dist	urbed or problematic.
	<u>0%5'</u> = Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum 5% % Co	over of Biotic Crust0%	Vegetation Present? Ye	s <u> </u>
Remarks:			

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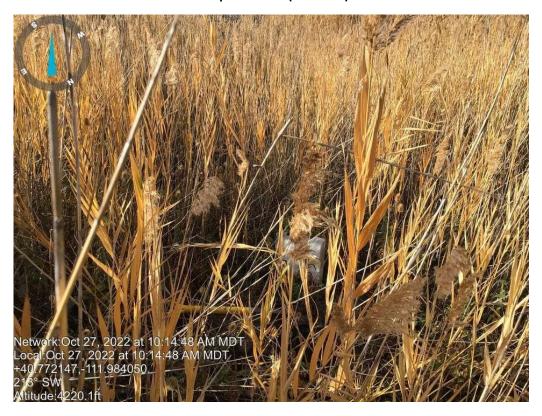
SOIL Sampling Point: SP3

Depth (inches)	Matrix Color (moist)	 _	Redox Color (moist)	%Type ¹	L cc ²	Texture	Remarks
0-6	•						Nemarks
	10 YR 2/1	100%				Loam	
5-16	GLEY1 7/5GY	<u> 100%</u> _				Clay	
			_				
						. 2.	
	oncentration, D=Dep Indicators: (Applic				ed Sand G		cation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
_ Histosol		able to all L	Sandy Redo	•			Muck (A9) (LRR C)
	oipedon (A2)		Stripped Mat				Muck (A10) (LRR B)
Black His				y Mineral (F1)			ced Vertic (F18)
	n Sulfide (A4)		<u>✓</u> Loamy Gleye	ed Matrix (F2)			Parent Material (TF2)
	l Layers (A5) (LRR	C)	Depleted Ma	trix (F3)		Other	(Explain in Remarks)
	ick (A9) (LRR D)		Redox Dark	` '			
	d Below Dark Surfac	e (A11)	•	rk Surface (F7)		3	
	ark Surface (A12)		Redox Depre				of hydrophytic vegetation and
-	lucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pools	(F9)			hydrology must be present, disturbed or problematic.
						unic33 (disturbed of problematic.
lestrictive L	_aver (if present):						
Туре:						Hydric Soi	I Present? Yes ✓ No
Type: Depth (inc						Hydric Soi	l Present? Yes <u>✓</u> No
Type: Depth (inc			_			Hydric Soi	l Present? Yes <u>✓</u> No
Type: Depth (incomments:	ches):					Hydric Soi	l Present? Yes <u>✓</u> No
Type: Depth (included) Remarks: YDROLOGUE	GY drology Indicators						
Type: Depth (included) Remarks: YDROLOGUETION	ches):)			I Present? Yes✓ No
Type: Depth (included) Remarks: YDROLOG Vetland Hyd Crimary Indic	GY drology Indicators: cators (minimum of c		check all that apply Salt Crust (B11)		<u>Seco</u>	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine)
Type: Depth (included) Remarks: YDROLOG Vetland Hyd Crimary Indic	GY drology Indicators:		check all that apply Salt Crust (Biotic Crust	B11) : (B12)		Seco\	ndary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Type: Depth (income the content of the content	GY drology Indicators: eators (minimum of of Water (A1) tter Table (A2) on (A3)	one required;	check all that apply Salt Crust (Biotic Crust Aquatic Inve	B11) : (B12) ertebrates (B13)		<u>Seco</u> \ \;	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Type: Depth (income semarks: YDROLOGIA Vetland Hyder Surface Sur	GY drology Indicators ators (minimum of of of other (A1) ater Table (A2) on (A3) arks (B1) (Nonriver	one required;	check all that apply Salt Crust (Biotic Crust Aquatic Inv	B11) : (B12) ertebrates (B13) Sulfide Odor (C1)		Seco — \ — \ — [ndary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Orainage Patterns (B10)
Type:	GY drology Indicators: cators (minimum of of of other (A1) tter Table (A2) on (A3) arks (B1) (Nonriver (B2) (Nonriver (B2))	one required; rine) nriverine)	check all that apply Salt Crust (Biotic Crust Aquatic Inv Hydrogen S	B11) (B12) ertebrates (B13) Sulfide Odor (C1) hizospheres along	_	Seco \ \ \ \ \ \	ndary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
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Type:	GY drology Indicators: cators (minimum of or Water (A1) der Table (A2) on (A3) arks (B1) (Nonriver at Deposits (B2) (No posits (B3) (Nonriver Soil Cracks (B6) on Visible on Aerial tained Leaves (B9) vations: er Present?	rine) nriverine) rine) Imagery (B7) /es Nower	check all that apply Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Other (Expl	B11) c (B12) ertebrates (B13) Gulfide Odor (C1) hizospheres along f Reduced Iron (C n Reduction in Tille Surface (C7) ain in Remarks) hes): hes):	4) d Soils (Co	Seco	ndary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
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Type:	GY drology Indicators: cators (minimum of of other (A1) cators (B1) (Nonriver (B2) (Nonriver (B3) (Nonriver (B	rine) nriverine) rine) Imagery (B7) /es Nower N	check all that apply Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Other (Expl	B11) c (B12) ertebrates (B13) Gulfide Odor (C1) hizospheres along f Reduced Iron (C n Reduction in Tille Surface (C7) ain in Remarks) hes): hes): hes):	4) d Soils (Co	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Type:	GY drology Indicators: cators (minimum of of other (A1) cators (B1) (Nonriver (B2) (Nonriver (B3) (Nonriver (B	rine) nriverine) rine) Imagery (B7) /es Nower N	check all that apply Salt Crust (Biotic Crust Aquatic Invo Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Other (Expl	B11) c (B12) ertebrates (B13) Gulfide Odor (C1) hizospheres along f Reduced Iron (C n Reduction in Tille Surface (C7) ain in Remarks) hes): hes): hes):	4) d Soils (Co	Seco	ndary Indicators (2 or more required) Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (CS) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Airport Surplus Canal Relocation



Sample Point 3 (Wetland)



Sample Point 3 (Wetland)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Airport Surplus Canal Relocation	(City/Count	y: <u>SLC/Salt</u>	Lake County	_ Sampling Date: _	10/27/22
Applicant/Owner: Salt Lake City International Airport				State: UT	_ Sampling Point: _	SP4
Investigator(s): M. Davis and C. Glabau		Section, T	ownship, Ra	nge: Section 32, Town	nship 1N, Range 1	LW
Landform (hillslope, terrace, etc.): Meadow		Local relie	ef (concave,	convex, none): None	Slop	oe (%): <u>0-1%</u>
Subregion (LRR): D	Lat: 40.	772091		Long: <u>-111.983943</u>	Datur	m: <u>NAD 1983</u>
Soil Map Unit Name: Saltair silty clay loam						
Are climatic / hydrologic conditions on the site typical for this t			_			
Are Vegetation, Soil, or Hydrology sig				"Normal Circumstances"		/ No
Are Vegetation, Soil, or Hydrology na				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map s						atures, etc.
Hydrophytic Vegetation Present? Yes No	✓					
Hydric Soil Present? Yes No			he Sampled hin a Wetlar		No <u>✓</u>	
Wetland Hydrology Present? Yes No		WIT	nin a wetiai	na? tes	NO -	_
Remarks:						
VEGETATION – Use scientific names of plants	•					
·	Absolute	Dominar	nt Indicator	Dominance Test wor	kehoot:	
1			? Status	Number of Dominant S		
1				That Are OBL, FACW,		(A)
2				Total Number of Domi		
3				Species Across All Str	ata: <u>3</u>	(B)
4				Percent of Dominant S		
Sapling/Shrub Stratum (Plot size:15')	0%	_= Total C	over	That Are OBL, FACW,	or FAC: 33°	<u>%</u> (A/B)
1. Salix exigua (Narrowleaf Willow)	5%	Yes	FACW_	Prevalence Index wo	rksheet:	
2				Total % Cover of:	Multiply	y by:
3				OBL species		
4				FACW species 5		
5				FAC species		
Herb Stratum (Plot size: 5')	5%	_= Total C	over	FACU species 14 UPL species 65		325
1. Bromus tectorum (Cheatgrass)	45%	Yes	UPL	Column Totals: 8		391 (B)
2. Sisymbrium altissimum (Tall Tumblemustard)	12%		FACU	Column Totals.	<u>/</u> (^)	<u> </u>
3. Thinopyrum intermedium (Intermediate Whea+	20%_	Yes	UPL	Prevalence Index	x = B/A =4	.7
4. <u>Salsola tragus (Russian Thistle)</u>	2%		FACU_	Hydrophytic Vegetati		
5				Dominance Test is		
6				Prevalence Index		
7					aptations ¹ (Provide ks or on a separate	
8				Problematic Hydro	ophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size: 5')	76%	_= Total C	over			
1				¹ Indicators of hydric so		
2				be present, unless dist	urbed or problemat	tic.
	0%	= Total C	over	Hydrophytic		
% Bare Ground in Herb Stratum 21% % Cover of	of Biotic C	rust(0%	Vegetation Present? Yes	es No	<u> </u>
Remarks:			-			

US Army Corps of Engineers Arid West – Version 2.0

SOIL Sampling Point: SP4

Depth Matrix	epth needed to document the indicator on the second		
(inches) Color (moist) %	Color (moist) % Type ¹	Loc ² Text	ure Remarks
0-3 10 YR 3/1 100%	<u>. </u>	Loam	
3-6 10 YR 3/2 100%			Sandy-Loam
6-16 10 YR 3/2 100%			
<u>6-16</u> <u>10 YK 5/2</u> <u>100/6</u>	<u> </u>		Rocky-Loamy-Clay
			
	M=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.)	Indic	ators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	<u> </u>	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)		2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)		Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)		Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	_ '	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)		
Depleted Below Dark Surface (A11)Thick Dark Surface (A12)	Depleted Dark Surface (F7)	المصا3	cators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)Vernal Pools (F9)		etland hydrology must be present,
Sandy Mucky Milleral (S1) Sandy Gleyed Matrix (S4)	vernal roots (ra)		less disturbed or problematic.
Restrictive Layer (if present):			
Type:			
Depth (inches):		Hydri	c Soil Present? Yes No _ ✓
Remarks:			
HYDROLOGY			
HYDROLOGY Wetland Hydrology Indicators:			
	red; check all that apply)		Secondary Indicators (2 or more required)
Wetland Hydrology Indicators:	red; check all that apply) Salt Crust (B11)		Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi			
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requirements) Surface Water (A1) High Water Table (A2)	Salt Crust (B11) Biotic Crust (B12)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust (B11)Biotic Crust (B12)Aquatic Invertebrates (B13)Hydrogen Sulfide Odor (C1)		Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L 	iving Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requirements) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	 Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) 	.iving Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requirements) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	.iving Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requirements) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	.iving Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requirements) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e)	.iving Roots (C3)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the second of the seco	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e)	iving Roots (C3) Soils (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requirements) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks)	iving Roots (C3)) Soils (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3)
Wetland Hydrology Indicators: Primary Indicators (minimum of one requirements) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	iving Roots (C3) Soils (C6)	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required one sequence of the primary Indicators (minimum of one required one sequence of the primary Indicators (minimum of one required one sequence of the primary Indicators (Management of the primary of the	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	.iving Roots (C3)) Soils (C6) - Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required one surface Water (A1) — High Water Table (A2) — Saturation (A3) — Water Marks (B1) (Nonriverine) — Sediment Deposits (B2) (Nonriverine) — Drift Deposits (B3) (Nonriverine) — Surface Soil Cracks (B6) — Inundation Visible on Aerial Imagery — Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe)	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) e) Oxidized Rhizospheres along L Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	.iving Roots (C3)) Soils (C6) - Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge,	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	.iving Roots (C3)) Soils (C6) - Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required one sequence of the primary Indicators (minimum of one required one sequence of the primary Indicators (minimum of one required one sequence of the primary Indicators (Management of the primary of the	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	.iving Roots (C3)) Soils (C6) - Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge,	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	.iving Roots (C3)) Soils (C6) - Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift Deposits (B3) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery Water-Stained Leaves (B9) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge,	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	.iving Roots (C3)) Soils (C6) - Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9 Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (minimum of one required of the primary Indicators (Managery of the primary Indicators (Managery of the primary of the prima	Salt Crust (B11) Biotic Crust (B12) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along L Presence of Reduced Iron (C4 Recent Iron Reduction in Tilled (B7) Thin Muck Surface (C7) Other (Explain in Remarks) No Depth (inches): No Depth (inches):	.iving Roots (C3)) Soils (C6) - Wetland Hyd	Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-Neutral Test (D5)

Airport Surplus Canal Relocation



Sample Point 4 (Upland)



Sample Point 4 (Upland)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Airport Surplus Canal Relocation	Lake County	Sampling Date: _	10/27/22		
Applicant/Owner: Salt Lake City International Airport			Sampling Point: _	SP5	
Investigator(s): M. Davis and C. Glabau	Section, T	ownship, Ra	nge: <u>Section 32, Towr</u>	iship 1N, Range 1	.W
Landform (hillslope, terrace, etc.): Bank edge	Local relie	ef (concave,	convex, none): None	Slop	oe (%): <u>5-6%</u>
Subregion (LRR): D	Lat: <u>40.77102</u>		Long: <u>-111.984215</u>	Datur	n: NAD 1983
			NWI classifi		
Are climatic / hydrologic conditions on the site typical for t		_			
Are Vegetation, Soil, or Hydrology			'Normal Circumstances"		, No
Are Vegetation, Soil, or Hydrology			eeded, explain any answe	-	
SUMMARY OF FINDINGS – Attach site ma					atures, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Yes Yes Yes	No	he Sampled hin a Wetlar		No	
Wetland fringe all the way around the poverties of plants. VEGETATION – Use scientific names of plants.		six feet v	vide.		
VEGETATION 636 36161111116 Hallies of pic		nt Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size:30') 1	% Cover Species	? Status	Number of Dominant S That Are OBL, FACW,	Species	(A)
2			Total Number of Domin Species Across All Str		(B)
4			Percent of Dominant S That Are OBL, FACW,		% (A/B)
1			Prevalence Index wo	rksheet:	
2.			Total % Cover of:		v by:
3.			OBL species	x 1 =	
4			FACW species 65	x 2 =	130
5			FAC species 15	x 3 =	45
Herb Stratum (Plot size: 5')	<u>0%</u> = Total C	over	FACU species 5		
Herb Stratum (Plot size: 5' 1. Phragmites australis (Common Reed)	<u>65%</u> <u>Yes</u>	EAC\\\	UPL species		
Dipsacus fullonum (Fuller's Teasel)			Column Totals:8	35 (A)	195 (B)
3. <u>Cirsium arvense (Canada Thistle)</u>			Prevalence Index	c = B/A =2.2	29
4.			Hydrophytic Vegetati	on Indicators:	
5			✓ Dominance Test is	s >50%	
6			✓ Prevalence Index		
7				aptations ¹ (Provide : s or on a separate	
8			Problematic Hydro	•	•
Woody Vine Stratum (Plot size:5')	<u>85%</u> = Total C	over		physic vegetation	(Explair)
1			¹ Indicators of hydric so be present, unless dist		
	0% = Total C		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 15% % Cov	ver of Biotic Crust	0%		es <u> </u>	<u> </u>
Remarks:					

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Depth	Matrix	depth needed to docur	x Features				•		
(inches)	Color (moist) %		%	Tvpe ¹	Loc ²	Texture	Remarks		
	· · · · · · · · · · · · · · · · · · ·								
Type: C=C	oncentration, D=Depletion,	RM=Reduced Matrix, CS	S=Covered	d or Coate	d Sand G	rains. ² Locatio	n: PL=Pore Lining, M=Matrix.		
	Indicators: (Applicable t						Problematic Hydric Soils ³ :		
Histosol (A1) Sandy Redox (S5)			1 cm Muck (A9) (LRR C)						
	Histic Epipedon (A2)			2 cm Muck (A10) (LRR B)					
Black Histic (A3) Loamy Mucky Mine			l (F1)		Reduced Vertic (F18)				
Hydrogen Sulfide (A4)			Loamy Gleyed Matrix (F2)			Red Parent Material (TF2)			
Stratified Layers (A5) (LRR C)			Depleted Matrix (F3)			Other (Explain in Remarks)			
	uck (A9) (LRR D)	Redox Dark		F6)		Outlot (EXP	all in Remarks)		
	d Below Dark Surface (A11	· · · · · · · · · · · · · · · · · · ·	,						
						³ Indicators of h	drophytic vegetation and		
-	Thick Dark Surface (A12)		Redox Depressions (F8) Vernal Pools (F9)			³ Indicators of hydrophytic vegetation and wetland hydrology must be present,			
Thick D	Augley Minoral (C1)	veillai Fuui	Vernal F 0015 (1 3)			unless disturbed or problematic.			
Thick Da	Mucky Mineral (S1)					uniess distur			
Thick Date of Sandy Manager Control Sandy Control	Gleyed Matrix (S4)					1	bed of problematic.		
Thick Dominion Sandy Model Sandy Control Restrictive	Gleyed Matrix (S4) Layer (if present):						оец от ртовлетналс.		
Thick Di Sandy M Sandy 0	Gleyed Matrix (S4) Layer (if present):						эеа от рговієтнаціс.		
Thick Dominion Sandy Model Sandy Control Restrictive	Gleyed Matrix (S4) Layer (if present):						sent? Yes <u>✓</u> No		

HYDROLOGY			
Wetland Hydrology Indicate	ors:		
Primary Indicators (minimum	Secondary Indicators (2 or more required)		
✓ Surface Water (A1) Salt Crust (B11)		Water Marks (B1) (Riverine)	
High Water Table (A2) Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)	
✓ Saturation (A3) Aquatic Invertebrates (B13)		Drift Deposits (B3) (Riverine)	
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)	
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roo			ing Roots (C3) Dry-Season Water Table (C2)
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)			Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (C6			oils (C6) Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7)			Shallow Aquitard (D3)
Water-Stained Leaves (E	39)	Other (Explain in Remarks)	✓ FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present?	Yes 🗹 No _	Depth (inches): 4-6 inches	
Water Table Present?	Yes 🗹 No _	Depth (inches):	
Saturation Present? (includes capillary fringe)	Yes <u>✓</u> No _	Depth (inches):	Wetland Hydrology Present? Yes <u>✓</u> No
	eam gauge, monito	ring well, aerial photos, previous inspec	ctions), if available:
,			,
Remarks:			

Airport Surplus Canal Relocation



Sample Point 5 (Wetland)



Sample Point 5 (Wetland)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Airport Surplus Canal Relocation City/County: SLC/Salt Lake County Sampling Date: 10/27/22						
Applicant/Owner: Salt Lake City International Airport	State: UT	Sampling Point:	SP6			
Investigator(s): M. Davis and C. Glabau Section, Township, Range: Section 32, Township 1N, Range 1W						
Landform (hillslope, terrace, etc.): Meadow Local relief (concave,						
Subregion (LRR): D						
			NWI classi			
Are climatic / hydrologic conditions on the site typical for this		_				
Are Vegetation, Soil, or Hydrologys			"Normal Circumstances		✓ No	
Are Vegetation, Soil, or Hydrology n			eeded, explain any ansv			
					4 4 4	
SUMMARY OF FINDINGS – Attach site map	snowing sa		ocations, transect	.s, important le	eatures, etc.	
Hydrophytic Vegetation Present? Yes No.		Is the Sampled	I Area			
Hydric Soil Present? Yes No		within a Wetlar		No <u>✓</u>		
Wetland Hydrology Present? Yes N	o <u> </u>					
Remarks:						
VEGETATION – Use scientific names of plan	ts.					
T 01 1 (D) 1 (D)		Oominant Indicator	Dominance Test wo	rksheet:		
Tree Stratum (Plot size: 30'		species? Status	Number of Dominant) (A)	
1 2			That Are OBL, FACW	, or FAC:	<u>) </u>	
3.			Total Number of Dom Species Across All St		1(B)	
4.			·		<u>. </u>	
		Total Cover	Percent of Dominant That Are OBL, FACW		% (A/B)	
Sapling/Shrub Stratum (Plot size: 15')					(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1			Prevalence Index we		h . h	
2			Total % Cover of		ly by:	
3			OBL species			
5.			FAC species 5			
		Total Cover	FACU species 7			
Herb Stratum (Plot size:)			UPL species 80	x 5 =	400	
1. Bromus tectorum (Cheatgrass)		Yes UPL	Column Totals:	<u>92</u> (A)	443 (B)	
2. <u>Dipsacus fullonum (Fuller's Teasel)</u>	5%		Provolence Inde	ex = B/A =4	82	
3. <u>Sisymbrium altissimum (Tall Tumblemustard)</u>	<u> 5%</u> _		Hydrophytic Vegeta		.02	
4. <u>Heterotheca spp. (Aster)</u> 5. Lepidium perforatum (Clasping Pepperweed)	_ <u>5%</u> _ 2%	<u>UPL</u> FACU	Dominance Test			
6			Prevalence Index			
7				daptations¹ (Provide	supporting	
8.				rks or on a separate	•	
	92% =	Total Cover	Problematic Hydi	ophytic Vegetation	ˈ (Explain)	
Woody Vine Stratum (Plot size: 5')			1 mais at an af bordeis a			
1			¹ Indicators of hydric s be present, unless dis			
2		Total Cover	Hydrophytic			
207			Vegetation	_	,	
	of Biotic Crus	st <u>0%</u>	Present?	/es No	<u> </u>	
Remarks:						

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Profile Desc	ription: (Describe	e to the depth	needed to docur	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Features		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
<u>0-5</u>	7.5 YR 4/3							<u>Loamy-Clay</u>
<u>5-10</u>	7.5 YR 5/3							Clay
10-16	10 YR 5/2							Sandy-Clay
				. ——				
1- 0.0							. 2,	
			Reduced Matrix, CS			ed Sand Gra		cation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
Histosol	,	cable to all L	Sandy Red		ou.,			Muck (A9) (LRR C)
	oipedon (A2)		Stripped Ma	. ,			·	Muck (A10) (LRR B)
Black His			Loamy Muc		l (F1)			ced Vertic (F18)
	n Sulfide (A4)		Loamy Gley	•	. ,			Parent Material (TF2)
	Layers (A5) (LRR	(C)	Depleted M		()			(Explain in Remarks)
	ck (A9) (LRR D)	,	Redox Dark	. ,	F6)		· <u></u>	,
	l Below Dark Surfa	ce (A11)	Depleted Da	•	,			
Thick Da	rk Surface (A12)	, ,	Redox Dep				³ Indicators	of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Vernal Pool	s (F9)			wetland	hydrology must be present,
Sandy G	leyed Matrix (S4)						unless	disturbed or problematic.
Restrictive L	ayer (if present):							
Туре:			<u>—</u>					
Depth (inc	ches):						Hydric Soi	l Present? Yes No <u>✓</u>
Remarks:								
HYDROLO	GV							
_	drology Indicators		abaak all that anni)			Cana	nder (Indicators (2 or more required)
		one requirea;	check all that appl					ndary Indicators (2 or more required)
Surface \	` '		Salt Crust	` '				Water Marks (B1) (Riverine)
	ter Table (A2)		Biotic Crus		(D40)			Sediment Deposits (B2) (Riverine)
Saturatio	, ,		Aquatic In					Orift Deposits (B3) (Riverine)
· · · · · · · · · · · · · · · · · · ·	arks (B1) (Nonrive	· ·	Hydrogen			= .		Orainage Patterns (B10)
	nt Deposits (B2) (N				-	_		Dry-Season Water Table (C2)
	oosits (B3) (Nonriv	erine)	Presence					Crayfish Burrows (C8)
	Soil Cracks (B6)		Recent Iro			d Soils (C6)		Saturation Visible on Aerial Imagery (C9)
	on Visible on Aeria		· · · · · · · · · · · · · · · · · · ·					Shallow Aquitard (D3)
	tained Leaves (B9)	1	Other (Exp	olain in Re	marks)		F	FAC-Neutral Test (D5)
Field Observ	vations:		_					
Surface Water			o <u> </u>					
Water Table			o <u> </u>					_
Saturation Pr		Yes N	o 🗸 Depth (in	ches):		Wetla	nd Hydrolog	yy Present? Yes No✓
(includes cap Describe Red		m gauge mor	itoring well, aerial	ohotos pr	evious ins	pections) i	f available:	
2000,100,100	25. 304 244 (011041	gaago, 11101		o.o, pi	- 11000 III0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. aranabio.	
Remarks:								
	. 101 - 1 - 2	-	,					
Moist, bu	t likely due to	recent pr	ecipitation.					



Sample Point 6 (Upland)



Sample Point 6 (Upland)

Project/Site: Airport Surplus Canal Relocation	City	/County: SLC/Salt	Lake County	_ Sampling Date: _	10/27/22
Applicant/Owner: Salt Lake City International Airpo	rt		State: <u>UT</u>	_ Sampling Point: _	SP7
Investigator(s): M. Davis and C. Glabau	Sec	tion, Township, Ra	inge: <u>Section 32, Towr</u>	nship 1N, Range 1	.W
Landform (hillslope, terrace, etc.): Bank edge	Loc	cal relief (concave,	convex, none): None	Slop	oe (%): <u>2-3%</u>
Subregion (LRR): D	Lat: <u>40.769</u>	976	Long: <u>-111.982675</u>	Datur	n: NAD 1983
			NWI classifi		
Are climatic / hydrologic conditions on the site typical for		_			
Are Vegetation, Soil, or Hydrology			"Normal Circumstances"		, No
Are Vegetation, Soil, or Hydrology			eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site ma			•	,	atures, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u>	No	<u> </u>	<u> </u>	<u> </u>	
	No 🔽	Is the Sample			
	No	within a Wetla	nd? Yes <u> </u>	<u>/No</u>	
Remarks:		-1			
VECETATION . Her exicutific names of m	laufa				
VEGETATION – Use scientific names of pl		ominant Indicator	Dominance Test wor	lrahaati	
Tree Stratum (Plot size:30')		ominant Indicator oecies? Status	Number of Dominant S		
1			That Are OBL, FACW,		(A)
2			Total Number of Domi	nant	
3			Species Across All Str	_	(B)
4			Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size:15')	0% = 1	Total Cover	That Are OBL, FACW,		0% (A/B)
1. Salix exigua (Narrowleaf willow)	25%	Yes FACW	Prevalence Index wo	rksheet:	
2			Total % Cover of:	Multiply	/ by:
3.			OBL species	x 1 =	
4			FACW species 85	x 2 =	170
5			FAC species 8		
Herb Stratum (Plot size: 5')	25% = 7	Total Cover	FACU species 5		
Herb Stratum (Plot size: 5') 1. Phragmites australis (Common Reed)	60%	Yes FACW	UPL species		
Dipsacus fullonum (Fuller's Teasel)			Column Totals:	98 (A)	214 (B)
3. Salsola tragus (Russian Thistle)	= 0.4		Prevalence Index	x = B/A =2.	.2
4.			Hydrophytic Vegetati	ion Indicators:	
5			✓ Dominance Test is	s >50%	
6			✓ Prevalence Index		
7				aptations ¹ (Provide : ks or on a separate	
8			Problematic Hydro	·	•
Woody Vine Stratum (Plot size: 5')	<u>73%</u> = 1	Total Cover		sprijus vegetation	(=,,p.a)
1			¹ Indicators of hydric so		
2.			be present, unless dist	turbed or problemat	ic.
		——— ———— Гotal Cover	Hydrophytic		
% Bare Ground in Herb Stratum 27% % Co	over of Biotic Crust		Vegetation Present? Yes	es <u> </u>	
Remarks:			1.1000.11.		
Tomano.					

Profile Desc	ription: (Describe	to the depth	needed to docui	ment the i	ndicator	or confirm	n the absence of indica	itors.)
Depth	Matrix			x Feature:		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
<u>0-5</u>	10 YR 3/2	<u> 100%</u> _					Loam	
5-16	10 YR 4/2	100%					<u>Clay-loam</u>	
¹ Type: C=Co	oncentration, D=Dep	letion, RM=F	Reduced Matrix, C	S=Covered	d or Coate	ed Sand Gr		_=Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (Applic	able to all L	RRs, unless othe	rwise note	ed.)		Indicators for Prob	lematic Hydric Soils³:
Histosol	• •		Sandy Red	. ,			1 cm Muck (A9)	,
	ipedon (A2)		Stripped Ma				2 cm Muck (A10	, , ,
Black His			Loamy Muc	-			Reduced Vertic	
	n Sulfide (A4) I Layers (A5) (LRR (C)	Loamy Gley Depleted M		(FZ)		Red Parent Mat Other (Explain in	
	ck (A9) (LRR D)	C)	Redox Dark	, ,	(F6)		Other (Explain ii	Tremarks)
	Below Dark Surfac	e (A11)	Depleted D		,			
-	ırk Surface (A12)	, ,	Redox Dep				³ Indicators of hydrop	hytic vegetation and
Sandy M	lucky Mineral (S1)		Vernal Poo	ls (F9)			wetland hydrology	/ must be present,
	leyed Matrix (S4)						unless disturbed of	or problematic.
Restrictive L	ayer (if present):							
Type:								
Depth (inc	ches):						Hydric Soil Present?	? Yes No <u>✓</u>
Remarks:								
About six	inches of dead	d or fallen	phragmites					
			F					
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
-	ators (minimum of o		check all that appl	v)			Secondary Indi	cators (2 or more required)
Surface \	-		Salt Crust				Water Marl	ks (B1) (Riverine)
	ter Table (A2)		Biotic Cru	,				Deposits (B2) (Riverine)
✓ Saturatio	` '		Aquatic In		s (B13)			sits (B3) (Riverine)
Water M	arks (B1) (Nonriver	ine)	Hydrogen				Drainage F	
	it Deposits (B2) (No					Living Roc	ots (C3) Dry-Seaso	n Water Table (C2)
	osits (B3) (Nonrive		Presence	of Reduce	ed Iron (C	4)	Crayfish Bu	urrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reducti	on in Tille	d Soils (C6	Saturation	Visible on Aerial Imagery (C9)
Inundatio	on Visible on Aerial	lmagery (B7)	Thin Muck	Surface (C7)		Shallow Ac	ղuitard (D3)
Water-St	tained Leaves (B9)		Other (Ex	plain in Re	marks)		✓ FAC-Neutr	al Test (D5)
Field Observ	/ations:							
Surface Water	er Present? Y	′es N	o <u> </u>	ches):				
Water Table	Present? Y	'es No	o <u>✓</u> Depth (in	ches):				
Saturation Pr	resent? Y	′es <u> ′ </u>	o Depth (in	ches): <u>5-</u> 2	16 inche	S_ Wetla	and Hydrology Present	t? Yes <u>✓</u> No
(includes cap			Marchael				Managarda.	
Describe Red	corded Data (stream	i gauge, mon	itoring well, aerial	pnotos, pr	evious ins	spections),	if available:	
Remarks:								



Sample Point 7 (Wetland)



Sample Point 7 (Wetland)

Project/Site: Airport Surplus Canal Relocation	(City/County	y: <u>SLC/Salt</u>	Lake County	_ Sampling Date	:10/27/22
Applicant/Owner: Salt Lake City International Airport				State: UT	_ Sampling Point	t: <u>SP8</u>
Investigator(s): M. Davis and C. Glabau						
Landform (hillslope, terrace, etc.): Meadow		Local relie	f (concave, o	convex, none): None	s	lope (%): <u>0-1%</u>
Subregion (LRR): D	Lat: 40.7	76994		Long: -111.982703	Da	tum: NAD 1983
				NWI classifi		
Are climatic / hydrologic conditions on the site typical for this t			_			
Are Vegetation, Soil, or Hydrology sig				'Normal Circumstances"		✓ No
Are Vegetation, Soil, or Hydrology nat				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map si						
Somman of Findings - Attach site map si	lowing	Sampin	ig point it		s, important	
Hydrophytic Vegetation Present? Yes No		ls ti	he Sampled	Area		
Hydric Soil Present? Yes No		witl	nin a Wetlan	nd? Yes	No <u> </u>	
Wetland Hydrology Present? Yes No						
Remarks:						
VEGETATION – Use scientific names of plants	S.					
			t Indicator	Dominance Test worl	ksheet:	
1			<u>Status</u>	Number of Dominant S That Are OBL, FACW,		1 (A)
2						<u> </u>
3				Total Number of Domin Species Across All Stra		3 (B)
4.						(5)
		= Total Co	over	Percent of Dominant S That Are OBL, FACW,		33% (A/B)
Sapling/Shrub Stratum (Plot size: 15')	5 0/		5 4 C) 4 /			
1. Salix exigua (Narrowleaf willow)				Prevalence Index wo		iply by:
2				OBL species		
3				FACW species 10		
5				FAC species 5		
		= Total Co	over	FACU species 17	x 4 =	68
Herb Stratum (Plot size: 5')				UPL species 65	x 5 =	325
1. Bromus tectorum (Cheatgrass)	45%	<u>Yes</u>	UPL_	Column Totals:9	97 (A)	428 (B)
2. Thinopyrum intermedium (Intermediate Whea+)	20%	<u>Yes</u>	UPL	Prevalence Index	y = R/Δ =	4.4
Salsola tragus (Russian Thistle) Dipsacum fullonum (Fuller's Teasel)	<u>15%</u> 5%		FACU FAC	Hydrophytic Vegetati		
5. Phragmites australis (Common reed)	<u> </u>		FACW	Dominance Test is		
6. Cirsium arvense (Canada thistle)	2%		FACU	Prevalence Index		
7				Morphological Ada	aptations¹ (Provid	de supporting
8					ks or on a separa	•
	93%	= Total Co	over	Problematic Hydro	ophytic Vegetatio	n' (Explain)
Woody Vine Stratum (Plot size: 5'				¹ Indicators of hydric so	oil and watland by	drology must
1				be present, unless dist		
2		= Total Co	over	Hydrophytic		
70/				Vegetation		,
% Bare Ground in Herb Stratum % Cover o	of Biotic Cr	ust	<u> </u>	Present? Ye	es No _	<u> </u>
Remarks:						

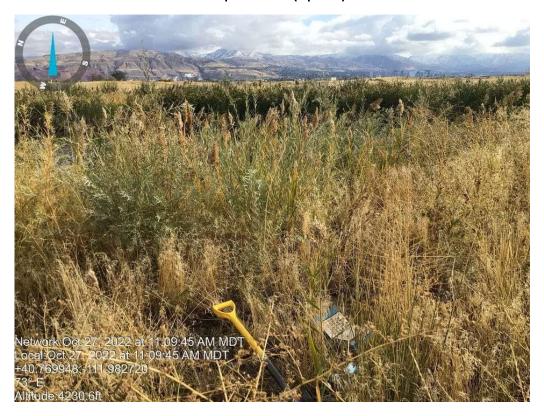
SOIL								Sampling Point:	SP8
Profile Des	scription: (Describe	to the dep	th needed to docur	nent the	indicator	or confir	m the absence	of indicators.)	
Depth	Matrix		Redo	x Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-12	10 YR 4/2	100%					Loam		

<u>U-12</u> <u>10 YR 4/2</u>	100%	LOam
		<u> </u>
¹ Type: C=Concentration, D=Depl	etion, RM=Reduced Matrix, CS=Covered or Coated S	and Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applica	able to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)	1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix (S6)	2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky Mineral (F1)	Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Red Parent Material (TF2)
Stratified Layers (A5) (LRR C	Depleted Matrix (F3)	Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	
Depleted Below Dark Surface		•
Thick Dark Surface (A12)	Redox Depressions (F8)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Vernal Pools (F9)	wetland hydrology must be present,
Sandy Gleyed Matrix (S4)		unless disturbed or problematic.
Restrictive Layer (if present):		
Type: <u>Rock</u>		
Depth (inches): 12 inches		Hydric Soil Present? Yes No✓
Remarks:		-
HYDROLOGY		

HYDROLOGY								
Wetland Hydrology Indica	itors:							
Primary Indicators (minimu	m of one required;	check	all that apply)		Secondary Indicators (2 or more required)			
Surface Water (A1)			Salt Crust (B11)	Water Marks (B1) (Riverine)				
High Water Table (A2)			Biotic Crust (B12)		Sediment Deposits (B2) (Riverine)			
Saturation (A3)			Aquatic Invertebrates (B13)		Drift Deposits (B3) (Riverine)			
Water Marks (B1) (Nor	nriverine)		Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)			
Sediment Deposits (B2	(Nonriverine)		Oxidized Rhizospheres along Liv	ing Roots (C3)	Dry-Season Water Table (C2)			
Drift Deposits (B3) (No	nriverine)		Presence of Reduced Iron (C4)		Crayfish Burrows (C8)			
Surface Soil Cracks (B	6)		Recent Iron Reduction in Tilled S	oils (C6)	Saturation Visible on Aerial Imagery (C9)			
Inundation Visible on Aerial Imagery (B7)			Thin Muck Surface (C7)		Shallow Aquitard (D3)			
			Other (Explain in Remarks)		FAC-Neutral Test (D5)			
Field Observations:								
Surface Water Present?	Yes No		Depth (inches):					
Water Table Present?	Yes No		Depth (inches):					
Saturation Present? (includes capillary fringe)	Yes No		_ Depth (inches):	Wetland Hy	drology Present? Yes No			
Describe Recorded Data (s	tream gauge, moni	toring	well, aerial photos, previous inspec	ctions), if availa	ıble:			
Remarks:								
1								



Sample Point 8 (Upland)



Sample Point 8 (Upland)

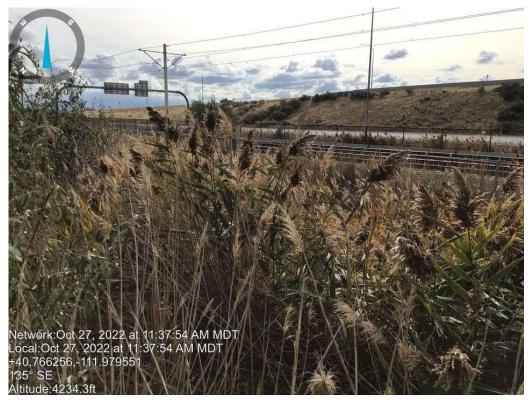
Project/Site: Airport Surplus Canal Relocation	City/County: SLC/Salt	Lake County	Sampling Date:10/27/22
Applicant/Owner: Salt Lake City International Airpo	rt	State: <u>UT</u>	Sampling Point: SP9
Investigator(s): M. Davis and C. Glabau	Section, Township, Ra	nge: <u>Section 5, Towns</u>	hip 1S, Range 1W
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave,	convex, none): Concave	Slope (%): <u>5-10%</u>
Subregion (LRR): D	Lat: <u>40.766243</u>	Long: <u>-111.979722</u>	Datum: NAD 1983
Soil Map Unit Name: Dumps		NWI classific	cation: PUSCx
Are climatic / hydrologic conditions on the site typical for	_		
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are	"Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma			
	No Is the Sampleo	I Area	
	No within a Wetlan		<u>′</u> No
	No		
Remarks:			
VEGETATION – Use scientific names of pl	lants.		
201	Absolute Dominant Indicator	Dominance Test worl	sheet:
Tree Stratum (Plot size: 30')	% Cover Species? Status	Number of Dominant S	
1 2		That Are OBL, FACW,	01 FAC:1 (A)
3		Total Number of Domin Species Across All Stra	_
4			、 ,
	= Total Cover	Percent of Dominant S That Are OBL, FACW,	
Sapling/Shrub Stratum (Plot size: 15')			. ,
1		Prevalence Index wo	
2 3			x 1 =
4			x 2 =200
5.		· ·	x 3 =
	= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size: 5')	1000/		x 5 =
1. Phragmites australis (Common Reed)		Column Totals:1	00 (A) <u>200</u> (B)
2.		Prevalence Index	c = B/A =
3 4		Hydrophytic Vegetati	
5.		✓ Dominance Test is	s >50%
6.		✓ Prevalence Index	is ≤3.0 ¹
7			aptations ¹ (Provide supporting
8			s or on a separate sheet) phytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 5')	<u>100%</u> = Total Cover	i iobiematic riyurc	priyile vegetation (Explain)
1		¹ Indicators of hydric so	il and wetland hydrology must
2.		be present, unless dist	
		Hydrophytic	
% Bare Ground in Herb Stratum 0% % Co	over of Biotic Crust 0%	Vegetation Present? Ye	es <u> </u>
Remarks:	5.5. 5. Blotto Gradt	. 7000111.	
Tromaino.			
I .			

SOIL								Sampling Point:	SP9
									JF 3
Profile Desc	ription: (Describe t	o the dep	ith needed to docur	nent the	indicator	or confirm	n the absence o	of indicators.)	
Depth	<u>Matrix</u>		Redo	x Feature	es				
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks	

Depth	Matrix		Redo	<u>x Features</u>				
(inches)	Color (moist)	<u>%</u> C	olor (moist)	%	Type ¹	Loc ²	Texture	e Remarks
1Type: C=C	oncentration, D=Deple	tion DM-Dad	used Matrix CS	Covered	or Coata	d Sand Cra	inc	² Location: PL=Pore Lining, M=Matrix.
	ndicators: (Applica					u Sanu Gia		tors for Problematic Hydric Soils ³ :
		DIE to all LKK			u.)			·
Histosol	• ,	-	Sandy Redo					cm Muck (A9) (LRR C)
	pipedon (A2)	-	Stripped Ma					cm Muck (A10) (LRR B)
Black Hi		_	Loamy Muc	-				educed Vertic (F18)
Hydroge	n Sulfide (A4)	=	Loamy Gley	ed Matrix	(F2)		Re	ed Parent Material (TF2)
Stratified	l Layers (A5) (LRR C)	' <u>-</u>	Depleted M	atrix (F3)			Ot	ther (Explain in Remarks)
1 cm Mu	ck (A9) (LRR D)	_	Redox Dark	Surface (F	- 6)			
Depleted	l Below Dark Surface	(A11) _	Depleted Da	ark Surface	e (F7)			
Thick Da	rk Surface (A12)	_	Redox Dep	essions (F	8)		³ Indica	itors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)	_	Vernal Pool	s (F9)			wetl	and hydrology must be present,
Sandy G	leyed Matrix (S4)						unle	ess disturbed or problematic.
Restrictive L	ayer (if present):							
Type:								
Depth (inc	thes):						Hydric	Soil Present? Yes <u>✓</u> No
Remarks:							1194110	
Remarks.								
No pit tak	en due to dense	e phragmit	es. hvdric s	oils assu	ımed.			
		- p s.gs	,,					
UVDDOLO	01/							
HYDROLO								
Wetland Hyd	drology Indicators:							
Primary Indic	ators (minimum of on	e required; che	eck all that appl	y)			<u>s</u>	econdary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)				_ Water Marks (B1) (Riverine)
	ter Table (A2)		Biotic Crus	• •				Sediment Deposits (B2) (Riverine)
Saturation	` '		Aquatic In	. ,	(D12)		_	_ Drift Deposits (B3) (Riverine)
		>						
· · · · · · · · · · · · · · · · · · ·	arks (B1) (Nonriveri r	· ·	Hydrogen					Drainage Patterns (B10)
	t Deposits (B2) (Non	•						Dry-Season Water Table (C2)
Drift Dep	osits (B3) (Nonriveri	ne)	Presence	of Reduced	d Iron (C4	4)	_	Crayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reductio	n in Tille	d Soils (C6)		✓ Saturation Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial Im	agery (B7)	Thin Muck	Surface (0	27)			Shallow Aquitard (D3)
	tained Leaves (B9)		Other (Exp					✓ FAC-Neutral Test (D5)
Field Observ	, ,						_	
		a Na	Donth (in	-h\.				
Surface Water			Depth (in					
Water Table			Depth (in					
Saturation Pr		s No _	Depth (in	ches):		Wetlaı	nd Hydro	ology Present? Yes <u>✓</u> No
(includes cap		101100 ma:=!4	ing well assist	ahotaa =::	vious != :	nootion-\ '	ovellet-	2:
Describe Red	corded Data (stream o	jauge, monitor	ırıg weii, aerial	onotos, pre	vious ins	pections), if	available	3 .
Remarks:								
No pit tak	en due to dense	e phragmit	es.					
pic can		- 1 3Dc						



Sample Point 9 (Wetland)



Sample Point 9 (Wetland)

Project/Site: Airport Surplus Canal Relocation	City/C	County: SLC/Salt	Lake County	Sampling Da	te: <u>10/27/22</u>
Applicant/Owner: Salt Lake City International Airport			State: <u>UT</u>	Sampling Poi	nt: SP10
Investigator(s): M. Davis and C. Glabau					
Landform (hillslope, terrace, etc.): Top of hillslope	Loca	I relief (concave, o	convex, none): None	2	Slope (%): <u>0-1%</u>
Subregion (LRR): D					
Soil Map Unit Name: <u>Decker Fine Sandy Loam</u>					
Are climatic / hydrologic conditions on the site typical for th		_			
Are Vegetation, Soil, or Hydrology			Normal Circumstance		✓ No
Are Vegetation, Soil, or Hydrology			eded, explain any an	-	
SUMMARY OF FINDINGS – Attach site map	showing san	ipling point le	ocations, transe	cts, important	t features, etc.
Hydrophytic Vegetation Present? Yes 1	No 🗸	la tha Camarlad	Aven		
Hydric Soil Present? Yes N	No 🔽	Is the Sampled within a Wetlar		No	
Wetland Hydrology Present? Yes 1	No <u> </u>	within a wetian	iur res_	NO	
Remarks:					
VEGETATION – Use scientific names of plan	nts.				
		ninant Indicator	Dominance Test v	vorksheet:	_
Tree Stratum (Plot size:30')	% Cover Spe		Number of Domina		
1. Elaeagnus angustifolia (Russian Olive)	_ <u>10%</u> _ Y	es <u>FAC</u>	That Are OBL, FAC		(A)
2			Total Number of Do	ominant	
3			Species Across All	Strata:	(B)
4			Percent of Dominar		
Sapling/Shrub Stratum (Plot size: 15')	10% = To	tal Cover	That Are OBL, FAC	;W, or FAC:	(A/B)
1			Prevalence Index	worksheet:	
2			Total % Cover	of: Mu	Itiply by:
3			OBL species	x 1 = _	
4			FACW species 10		
5			•) x 3 = _	
Herb Stratum (Plot size: 5')	0% = To	tal Cover	FACU species 20		
1. Bromus tectorum (Cheatgrass)	65% Y	es UPL	UPL species <u>65</u> Column Totals:		325 455 (B)
2. Sisymbrium altissimum (Tall Tumblemustard)			Column Totals:	(A)	455(B)
3. Phragmites australis (Common Reed)	10%		Prevalence In	ndex = B/A =	4.33
4. <u>Cirsium arvense (Canada Thistle)</u>			Hydrophytic Vege	tation Indicators:	
5			Dominance Te		
6			Prevalence Ind		
7				Adaptations ¹ (Prov narks or on a sepa	
8			Problematic Hy	·	•
Woody Vine Stratum (Plot size: 5')	<u>95%</u> = To	tal Cover	Troblemations	rarophytic vegetat	ion (Explain)
1			¹ Indicators of hydric	c soil and wetland	hydrology must
2			be present, unless		
		tal Cover	Hydrophytic		
% Bare Ground in Herb Stratum 5% % Cove	er of Biotic Crust		Vegetation Present?	Yes No	
Remarks:	er or blotte crust _	<u> </u>	riesent:		<u>'—</u>
Remarks.					

Profile Desc Depth	cription: (Describe Matrix	to the depth		nent the i x Features		or confir	n the absence	e of indicators.)			
(inches)	Color (moist)	%	Color (moist)	<u> </u>	Type ¹	Loc ²	Texture	Remarks			
0-2	10 YR 4/3	100%						Sandy-Loam			
2-16	10 YR 4/1	100%						Clay-Loam			
-				- ——							
-						-					
	oncentration, D=Dep					d Sand G		cation: PL=Pore Lining, M=Matrix.			
-	Indicators: (Applic	able to all L			ed.)			s for Problematic Hydric Soils ³ :			
Histosol			Sandy Red					Muck (A9) (LRR C)			
	pipedon (A2) istic (A3)		Stripped Ma Loamy Muc		(E1)		·	Muck (A10) (LRR B) ced Vertic (F18)			
	en Sulfide (A4)		Loamy Gley	-				Parent Material (TF2)			
	d Layers (A5) (LRR (C)	Depleted M		(-)			(Explain in Remarks)			
	uck (A9) (LRR D)	•	Redox Dark		F6)		_	,			
-	d Below Dark Surfac	e (A11)	Depleted Da								
	ark Surface (A12)		Redox Dep		- 8)			of hydrophytic vegetation and			
	Mucky Mineral (S1)		Vernal Pool	s (F9)				hydrology must be present,			
	Eleyed Matrix (S4) Layer (if present):						uniess	disturbed or problematic.			
	Layer (ii present).										
Depth (in							Hydric Soi	I Present? Yes No _✓			
Remarks:	CHE3)						Tryunc 301	11 Tesent: 1es No			
IVDDOLO	- OV							_			
HYDROLO	drology Indicators:										
=	cators (minimum of c		chack all that appl	v)			Soco	ndary Indicators (2 or more required)			
	Water (A1)	nie requireu,						•			
	ater Table (A2)		Salt Crust Biotic Crus	,			Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)				
Saturation			Blotte Crus		s (B13)			Drift Deposits (B3) (Riverine)			
	larks (B1) (Nonriver	ine)	Hydrogen					Orainage Patterns (B10)			
·	nt Deposits (B2) (No	•				Livina Ro		Ory-Season Water Table (C2)			
	posits (B3) (Nonrive	•	Presence		_	-		Crayfish Burrows (C8)			
	Soil Cracks (B6)	,	Recent Iro	n Reductio	on in Tille	d Soils (C		Saturation Visible on Aerial Imagery (C9			
	on Visible on Aerial	Imagery (B7)					•	Shallow Aquitard (D3)			
Water-S	stained Leaves (B9)		Other (Εχ	olain in Re	marks)		F	FAC-Neutral Test (D5)			
Field Obser	vations:										
Surface Wat	er Present? Y	'es N	o 🗸 Depth (in	ches):		_					
Water Table	Present? Y	'es N	o 🔽 Depth (in	ches):		_					
Saturation P		'es N	o 🗸 Depth (in	ches):		Wet	land Hydrolog	yy Present? Yes No <u>✓</u>			
(includes cap	pillary fringe) corded Data (stream	aguae mon	itoring well aerial	photos pr	ovious ins	noctions)	if available:				
Describe Ne	corded Data (Stream	i gauge, mon	illoring well, aeriai	priotos, pre	evious iris	pections)	, ii avallable.				
Remarks:											
remains.											



Sample Point 10 (Upland)



Sample Point 10 (Upland)

Project/Site: Airport Surplus Canal Relocation	Lake County	_ Sampling Date: _	10/27/22			
Applicant/Owner: Salt Lake City International Airport	t			State: <u>UT</u>	_ Sampling Point:	SP11
Investigator(s): M. Davis and C. Glabau		Section, T	ownship, Ra	nge: <u>Section 5, Town</u> :	ship 1S, Range 1\	N
Landform (hillslope, terrace, etc.): Meadow		Local relie	ef (concave,	convex, none): None	Slo	pe (%): <u>0-1%</u>
Subregion (LRR): D	Lat: <u>40.7</u>	76883		Long: <u>-111.984228</u>	Datu	ım: <u>NAD 1983</u>
Soil Map Unit Name: Decker Fine Sandy Loam				NWI classif	ication: None	
Are climatic / hydrologic conditions on the site typical for t	his time of yea	ır? Yes_	✓ No_	(I f no, explain in	Remarks.)	
Are Vegetation, Soil, or Hydrology	_significantly	disturbed?	Are "	'Normal Circumstances"	present? Yes	✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS – Attach site ma				ocations, transect	s, important fe	atures, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u>	No					
Hydric Soil Present? Yes			he Sampled hin a Wetlar		No <u></u> ✓	
Wetland Hydrology Present? Yes	No	Wit	nin a vveuar	id? fes	NO <u> </u>	-
Remarks:						
VEGETATION – Use scientific names of pla	ınts.					
Tree Stratum (Plot size: 30')	Absolute		nt Indicator	Dominance Test wor	ksheet:	
1	% Cover			Number of Dominant : That Are OBL, FACW		<u>2</u> (A)
2				That Are OBL, I ACW	, 011 AC2	<u></u> (A)
3.				Total Number of Domi Species Across All Str	_	B (B)
4.						<u>, </u>
		= Total C	over	Percent of Dominant S That Are OBL, FACW	3pecies . or FAC: 66	6% (A/B)
Sapling/Shrub Stratum (Plot size: 15')						(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Elaeagnus angustifolia (Russian Olive)				Prevalence Index wo		1 1
2				Total % Cover of:		ly by:
3				OBL species FACW species _60		
4				FAC species 3		
5	3%	= Total C	over	FACU species 2		
Herb Stratum (Plot size:5')		rotar o	0.001	UPL species 30		
1. Phragmites australis (Common reed)	<u>60%_</u>	Yes	<u>FACW</u>	Column Totals:		287 (B)
2. Bromus tectorum (Cheatgrass)						00
3. <u>Cirsium arvense (Canada Thistle)</u>					x = B/A =3.	.02
4				Hydrophytic Vegetat		
5				✓ Dominance Test i Prevalence Index		
6					aptations¹ (Provide	supporting
7					ks or on a separate	
8	92%		over	Problematic Hydr	ophytic Vegetation ¹	(Explain)
Woody Vine Stratum (Plot size: 5')		rotar o	0.001			
1				¹ Indicators of hydric set be present, unless dis		
2				• •	turbed of problema	ilio.
	0%	= Total C	over	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum8% % Cov	er of Biotic Cr	ust <u>C</u>	0%		es <u> </u>	
Remarks:				1		

	cription: (Describe	to the depti				or confir	n the absence	of indicators.)
Depth (inches)	<u>Matrix</u> Color (moist)	<u></u> %	Redo Color (moist)	ox Features %	Type ¹	Loc ²	Texture	Remarks
0-12	10 YR 4/2	100%					Loam	
0 12	10 TK 4/2	_ <u>10070</u> _					LOGITI	
	-							
							-	
1Type: C=C	oncentration, D=Dep	 Notion DM-I	Poducod Matrix C	 S-Coverse		d Sand C	roins ² l oo	ation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic					u Sanu G		for Problematic Hydric Soils ³ :
Histosol			Sandy Red		·,			luck (A9) (LRR C)
	pipedon (A2)		Stripped M					luck (A10) (LRR B)
	istic (A3)		Loamy Mud		(F1)			ed Vertic (F18)
Hydroge	en Sulfide (A4)		Loamy Gle	-			Red Pa	arent Material (TF2)
	d Layers (A5) (LRR	C)	Depleted M				Other (Explain in Remarks)
	uck (A9) (LRR D)		Redox Dar					
-	d Below Dark Surfac	e (A11)	Depleted D				3	
	ark Surface (A12)		Redox Dep		-8)			of hydrophytic vegetation and
-	Mucky Mineral (S1) Bleyed Matrix (S4)		Vernal Poo	is (F9)				nydrology must be present, sturbed or problematic.
	Layer (if present):						unicss ar	starbed of problematic.
Type: Ro								
• • • • • • • • • • • • • • • • • • • •	ches): 12 inches		<u></u>				Hydric Soil	Present? Yes No <u>✓</u>
Remarks:							1	
IYDROLO								
=	drology Indicators:							
Primary India	cators (minimum of o	one required;	check all that app	ly)				dary Indicators (2 or more required)
_	Water (A1)		Salt Crust	` '				ater Marks (B1) (Riverine)
	ater Table (A2)		Biotic Cru					ediment Deposits (B2) (Riverine)
Saturation	` '		Aquatic In					rift Deposits (B3) (Riverine)
	larks (B1) (Nonriver		Hydrogen					rainage Patterns (B10)
	nt Deposits (B2) (No				_	-		ry-Season Water Table (C2)
	posits (B3) (Nonrive	erine)	Presence		`	•		rayfish Burrows (C8)
	Soil Cracks (B6)	l (D.7)	Recent Iro			a Soils (C	· ·	aturation Visible on Aerial Imagery (C9
	on Visible on Aerial	imagery (B7	·					hallow Aquitard (D3)
Field Obser	tained Leaves (B9)		Other (EX	plain in Re	пагку)	Г	F#	AC-Neutral Test (D5)
		/aa N	la 🗸 Danth (in	ر د م ما د				
Surface Wat			lo Depth (in					
Water Table		· · · · · · · · · · · · · · · · · · ·	o Depth (in					
Saturation P (includes car		′es N	o Depth (in	iches):		_ Wet	land Hydrology	/ Present? Yes No <u>✓</u>
	corded Data (stream	n gauge, mor	nitoring well, aerial	photos, pre	evious ins	pections)	, if available:	
Remarks:								



Sample Point 11 (Upland)



Sample Point 11 (Upland)

Project/Site: Airport Surplus Canal Relocation	City/County: SLC/Salt	Lake County	Sampling Date:10/27/22
Applicant/Owner: Salt Lake City International Airport		State: <u>UT</u>	Sampling Point: SP12
Investigator(s): M. Davis and C. Glabau	Section, Township, Ra	nge: Section 5, Townsh	nip 1S, Range 1W
Landform (hillslope, terrace, etc.): Meadow	Local relief (concave,	convex, none): None	Slope (%): <u>1-2%</u>
	Lat: 40.766542		
Soil Map Unit Name: <u>Leland fine sandy loam</u>			
Are climatic / hydrologic conditions on the site typical for t	_		
Are Vegetation, Soil, or Hydrology			oresent? Yes <u>✓</u> No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe	
		•	,
SUMMARY OF FINDINGS – Attach site map	snowing sampling point i		, important leatures, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u>		I Area	
Hydric Soil Present? Yes	No within a Wetlan		No
Wetland Hydrology Present? Yes	No		
Remarks:			
VEGETATION – Use scientific names of pla	ints.		
Tree Stratum (Plot size:30')	Absolute Dominant Indicator % Cover Species? Status	Dominance Test work	sheet:
1. Elaeagnus angustifolia (Russian Olive)		Number of Dominant Sp That Are OBL, FACW, of	
2			, ,
3		Total Number of Domin Species Across All Stra	_
4.		·	
	= Total Cover	Percent of Dominant Sp That Are OBL, FACW, of	
Sapling/Shrub Stratum (Plot size: 15')			
1		Prevalence Index work Total % Cover of:	
2		· ·	x 1 =
3 4			x 2 = 160
5			x 3 =30
	= Total Cover	·	x 4 =
Herb Stratum (Plot size: 5')		UPL species	x 5 =
1. Phragmites australis (Common Reed)		Column Totals: 90	O (A) <u>190</u> (B)
2		Prevalence Index	= B/A =2.11
3		Hydrophytic Vegetation	
4. 5.		✓ Dominance Test is	
6		✓ Prevalence Index is	
7			ptations ¹ (Provide supporting
8.			s or on a separate sheet)
	= Total Cover	Problematic Hydror	ohytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 5')		1 mais at an af broduin and	l and wetland hydrology must
1		be present, unless distu	
2		Hydrophytic	
200/		Vegetation	
	ver of Biotic Crust0%	Present? Yes	s No
Remarks:			

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the i	ndicator	or confirn	n the absenc	e of indicators.)
Depth	Matrix			<u>x Feature</u>		. 2	- .	D
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-3	10 YR 2/2	100%					<u>Loam</u>	
3-16	GLEY1 6/10 Y	92%	7.5 YR 6/8	8%	<u>C</u>	_M	Clay	<u> </u>
	-							<u>-</u> <u></u> -
								<u> </u>
¹ Type: C=Co	oncentration, D=Dep	letion, RM:	Reduced Matrix, C	S=Covere	d or Coate	d Sand G	rains. ² Lo	ocation: PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators: (Applic	able to all	LRRs, unless othe	rwise not	ed.)		Indicator	s for Problematic Hydric Soils³:
Histosol	(A1)		Sandy Red	ox (S5)			1 cm	Muck (A9) (LRR C)
	pipedon (A2)		Stripped Ma					Muck (A10) (LRR B)
Black Hi			Loamy Mud					uced Vertic (F18)
	n Sulfide (A4)	_,	<u>✓</u> Loamy Gle		(F2)			Parent Material (TF2)
	d Layers (A5) (LRR ((خ	Depleted M Redox Darl		(E6)		Othe	r (Explain in Remarks)
	ick (A9) (LRR D) d Below Dark Surfac	o (A11)	Redox Dan		` '			
-	ark Surface (A12)	C (A11)	Redox Dep		, ,		³ Indicator	rs of hydrophytic vegetation and
	lucky Mineral (S1)		Vernal Poo		. 0,			d hydrology must be present,
-	Bleyed Matrix (S4)			(/				disturbed or problematic.
Restrictive L	_ayer (if present):							· ·
Туре:								
Depth (inc	ches):						Hydric So	il Present? Yes <u>✓</u> No
Remarks:	<u> </u>							
HYDROLO	GY							
	drology Indicators:							
=	cators (minimum of o		d: check all that ann	lv)			Sec	ondary Indicators (2 or more required)
	Water (A1)	nic require	Salt Crust					Water Marks (B1) (Riverine)
	iter Table (A2)		Biotic Cru	, ,				Sediment Deposits (B2) (Riverine)
Ingri wa			Aquatic In		e (B13)			Drift Deposits (B3) (Riverine)
	arks (B1) (Nonriver i	ino)	Hydrogen					Drainage Patterns (B10)
	nt Deposits (B2) (No					Living Poo		Dry-Season Water Table (C2)
	oosits (B3) (Nonrive i		Presence		-	-		Crayfish Burrows (C8)
	Soil Cracks (B6)	ille)	Recent Iro					Saturation Visible on Aerial Imagery (C9)
	on Visible on Aerial I	madery (R				3 OO13 (OC		Shallow Aquitard (D3)
	tained Leaves (B9)	magery (b	Other (Ex					FAC-Neutral Test (D5)
Field Observ	. ,		Other (EX	piaiii iii i te	- Inarks)		<u> </u>	1 AO-Neutral Test (DO)
Surface Water		'oc	No <u> </u>	choc):				
			No <u>✓</u> Depth (in			-		
Water Table						_		B V
Saturation Pr (includes cap		es <u> </u>	No Depth (in	cnes): <u>3 I</u>	ncnes	_ Weti	and Hydrolo	gy Present? Yes No
	corded Data (stream	gauge, mo	onitoring well, aerial	photos, pr	evious ins	pections),	if available:	
	·	-	-	•		,.		
Remarks:								



Sample Point 12 (Wetland)



Sample Point 12 (Wetland)

Project/Site: Airport Surplus Canal Relocation	City/County: SL	C/Salt Lake County	Sampling Date:10/27/22
Applicant/Owner: Salt Lake City International Airpor	t	State:UT	_ Sampling Point:SP13
Investigator(s): M. Davis and C. Glabau	Section, Towns	hip, Range: <u>Section , Townsh</u>	nip 1N, Range 1W
Landform (hillslope, terrace, etc.): Meadow Depression	n Local relief (cor	ncave, convex, none): <u>Concav</u>	e Slope (%): <u>0-1%</u>
Subregion (LRR): D	Lat: <u>40.766675</u>	Long: <u>-111.973687</u>	Datum: NAD 1983
Soil Map Unit Name: Leland fine sandy loam			
Are climatic / hydrologic conditions on the site typical for	_		
Are Vegetation, Soil, or Hydrology			present? Yes ✓ No
Are Vegetation, Soil, or Hydrology		(If needed, explain any answ	
SUMMARY OF FINDINGS – Attach site ma			
Hydrophytic Vegetation Present? Yes <u>✓</u>	No	<u></u>	<u> </u>
Hydric Soil Present? Yes	No.	ampled Area	/ N
Wetland Hydrology Present? Yes	Within a	Wetland? Yes	No
Remarks:	1		
VEGETATION – Use scientific names of pla	ante		
VEGETATION – Ose scientific fiames of pie	Absolute Dominant Ind	icator Dominance Test wor	kshoot:
Tree Stratum (Plot size:30')	% Cover Species? St		
1		That Are OBL, FACW,	
2		Total Number of Domi	nant
3			_
4		Percent of Dominant S	
Sapling/Shrub Stratum (Plot size:)	0% = Total Cover	That Are OBL, FACW,	, or FAC: <u>100%</u> (A/B)
1		Prevalence Index wo	rksheet:
2.			Multiply by:
3			x 1 = <u>15</u>
4			x 2 =
5		i	x 3 = <u>180</u>
Herb Stratum (Plot size:5')	<u>0%</u> = Total Cover	•	x 4 = <u>20</u>
1. Distichlis spicata (Saltgrass)	60% Yes F	- 4 C	x 5 = 80 (A) 215 (B)
2. Phleum pratense (Timothy)		-AC Column Totals: <u> </u>	<u>50 (A) 215 (B)</u>
3. Salicornia utahensis (Utah swampfire)			x = B/A =
4		Hydrophytic Vegetat	ion Indicators:
5		Dominance Test is	
6		Prevalence Index	
7			aptations ¹ (Provide supporting ks or on a separate sheet)
8			ophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 5')	= Total Cover		() ,
1			oil and wetland hydrology must
2.		be present, unless dis	turbed or problematic.
	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum 20% % Co	ver of Biotic Crust 0%	Vegetation Present? Yes	es No
Remarks:		_	
I .			

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Color (moist)	%	Color (moist)	ox Features .	Type ¹ Loc	c ² Text	ture	Remarks
0-4	10 YR 3/3	100%						Loamy-Clay
4-16	Gley 1 1/10 Y		2.5 YR 4/8	 8%	M			Clay
4-10	Gley 1 1/10 f	92%	2.5 11 4/6					Clay
¹ Type: C=C	oncentration, D=Dep	letion. RM:	=Reduced Matrix. C	– – – S=Covered o	or Coated Sar	nd Grains.	 ² Loc	cation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic							for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Red	dox (S5)			1 cm N	Muck (A9) (LRR C)
	pipedon (A2)		Stripped M	latrix (S6)			2 cm N	/luck (A10) (LRR B)
	istic (A3)		-	icky Mineral (F				ed Vertic (F18)
	en Sulfide (A4)	0)	<u>✓</u> Loamy Gle		⁻ 2)			arent Material (TF2)
	d Layers (A5) (LRR uck (A9) (LRR D)	C)	Depleted I	พลเกิх (คือ) rk Surface (F6	3)		Other	(Explain in Remarks)
	d Below Dark Surfac	e (A11)		Dark Surface (•			
-	ark Surface (A12)	(•	pressions (F8		³ Ind	icators	of hydrophytic vegetation and
Sandy N	Mucky Mineral (S1)		Vernal Po	ols (F9)		w	etland	hydrology must be present,
	Gleyed Matrix (S4)					u	nless d	isturbed or problematic.
	Layer (if present):							
Type:								
	ches):					Hydr	ic Soil	Present? Yes No
Remarks:								
HYDROLO	GY							
Wetland Hy	drology Indicators	:						
Primary Indi	cators (minimum of	one require	d; check all that app	oly)			Secor	ndary Indicators (2 or more required)
Surface	Water (A1)		Salt Crus	st (B11)			W	/ater Marks (B1) (Riverine)
High Wa	ater Table (A2)		Biotic Cru	ust (B12)			s	ediment Deposits (B2) (Riverine)
Saturati	on (A3)		Aquatic I	nvertebrates ((B13)		D	rift Deposits (B3) (Riverine)
Water M	larks (B1) (Nonrive i	rine)		n Sulfide Odor				rainage Patterns (B10)
	nt Deposits (B2) (No	-				Roots (C3)	D	ry-Season Water Table (C2)
	posits (B3) (Nonrive	rine)	· 	e of Reduced I	, ,			rayfish Burrows (C8)
	Soil Cracks (B6)			on Reduction		s (C6)		aturation Visible on Aerial Imagery (C9)
	ion Visible on Aerial	Imagery (B		k Surface (C7	•			hallow Aquitard (D3)
Field Obser	Stained Leaves (B9)		Other (Ex	xplain in Rema	arks)		F.	AC-Neutral Test (D5)
		/	No / Donth /					
Surface Wat			No ✓ Depth (i					
Water Table			No ✓ Depth (i			M-41	.l l	Duran and O. Mar
Saturation P (includes ca	resent? \\ pillary fringe)	'es	No _ ✓ Depth (i	ncnes):	'	wetiand Hy	arolog	y Present? Yes No <u>✓</u>
Describe Re	corded Data (stream	n gauge, mo	onitoring well, aeria	photos, previ	ious inspectio	ons), if availa	ıble:	
Remarks:								
Moist on	top likely due	to recen	t precipitation	. Mav hav	e more h	vdrology	earli <i>e</i>	er in the season.
	p		- p. 00.p. cacion	,	5.5 11	, 6)		



Sample Point 13 (Wetland)



Sample Point 13 (Wetland)

Project/Site: <u>Airport Surplus Canal Relocation</u>	(City/County	: SLC/Salt	Lake County	Sampling Date:	10/27/22
Applicant/Owner: Salt Lake City International Airport				State: <u>UT</u>	Sampling Point: _	SP14
Investigator(s): M. Davis and C. Glabau		Section, To	wnship, Rai	nge: <u>Section 5, Townsl</u>	nip 1S, Range 1W	ı
Landform (hillslope, terrace, etc.): Meadow Depression		Local reliet	(concave,	convex, none): <u>Concave</u>	Slop	e (%): <u>0-1%</u>
Subregion (LRR): D						
Soil Map Unit Name: Leland fine sandy loam						
Are climatic / hydrologic conditions on the site typical for this			_			
Are Vegetation, Soil, or Hydrologys				"Normal Circumstances" p		No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map			•	•	,	itures etc
			g point it		, important roa	
Hydrophytic Vegetation Present? Yes N		ls th	e Sampled	Area		
Hydric Soil Present? Yes ✓ N Wetland Hydrology Present? Yes ✓ N		with	in a Wetlar	ıd? Yes <u>✓</u>	No	
Remarks:						
VEGETATION – Use scientific names of plan	ts.					
Tree Stratum (Plot size: 30')	Absolute <u>% Cover</u>			Dominance Test work		
1				Number of Dominant S That Are OBL, FACW,		(A)
2.					' 	(' ')
3.				Total Number of Domin Species Across All Stra		(B)
4				Percent of Dominant S	nooios	, ,
Ocalias (Ohark Otasias - (Blate) - 15!	0%	= Total Co	ver	That Are OBL, FACW,		<u>%</u> (A/B)
Sapling/Shrub Stratum (Plot size: 15') 1. Tamarix chinensis (Five-stamen Tamarisk)	10%	Vec	EAC	Prevalence Index wor	·ksheet·	
2				Total % Cover of:		bv:
3				OBL species 15		
4.				FACW species 25		
5				FAC species 24	x 3 =	<u>72 </u>
	4%	= Total Co	ver	FACU species	x 4 =	
Herb Stratum (Plot size: 5')	150/	Voc	OBL	UPL species		
Salicornia utahensis (Utah swampfire) Distichlis spicata (Saltgrass)	<u>15%</u> 20%	Yes Yes	OBL FAC	Column Totals: 6	<u>4</u> (A) <u>1</u>	. <u>37</u> (B)
Allenrolfea occidentalis (Pickleweed)			FACW	Prevalence Index	z = B/A =2.1	.4
4				Hydrophytic Vegetation		
5				✓ Dominance Test is	>50%	
6.				✓ Prevalence Index is	s ≤3.0 ¹	
7				Morphological Ada		
8				Problematic Hydro	s or on a separate s	•
Woody Vine Stratum (Plot size: 5')	60%	= Total Co	ver	1 Toblematic Hydro	privite vegetation (Explain)
1				¹ Indicators of hydric soi	il and wetland hydro	ology must
2.				be present, unless distu		
		= Total Co	ver	Hydrophytic		
% Bare Ground in Herb Stratum 40% % Cover	r of Biotic Cr			Vegetation Present? Ye	s <u> </u>	
Remarks:	I OI DIOLIC CI	ust <u>_</u>	, o	riesent: re	<u> </u>	_
romans.						

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

(inches)	Color (moist)	%	Color (moist)	%Typ	pe ¹ Loc ²	Texture	Remarks
0-4	2.5 Y 5/2	95%	2.5 YR 4/8		<u> </u>		Clay
	· ·						
4-16	2.5 Y 5/2	<u>85%</u>	2.5 YR 4/8	<u>15%</u>	<u>M</u>		Sandy-Clay
Type: C=C	concentration, D=De	pletion, RM	l=Reduced Matrix, (CS=Covered or C	oated Sand Gra	ains. ² Lo	cation: PL=Pore Lining, M=Matrix.
	Indicators: (Appli						for Problematic Hydric Soils ³ :
Histoso	I (A1)		<u></u> ✓ Sandy Re	edox (S5)		1 cm l	Muck (A9) (LRR C)
	pipedon (A2)			Matrix (S6)			Muck (A10) (LRR B)
	listic (A3)			ucky Mineral (F1)			ed Vertic (F18)
	en Sulfide (A4) d Layers (A5) (LRR	(C)		eyed Matrix (F2) Matrix (F3)			arent Material (TF2) (Explain in Remarks)
	uck (A9) (LRR D)	. C)		ark Surface (F6)		Other	(Explain in Remarks)
	ed Below Dark Surfa	ce (A11)		Dark Surface (F7)		
	ark Surface (A12)	,		epressions (F8)	,	³ Indicators	of hydrophytic vegetation and
Sandy N	Mucky Mineral (S1)		Vernal Po	ools (F9)		wetland	hydrology must be present,
	Gleyed Matrix (S4)					unless o	listurbed or problematic.
	Layer (if present):						
Type:							
Depth (in	nches):					Hydric Soil	Present? Yes No
YDROLC	OGY						
_	drology Indicators						
Wetland Hy Primary Indi	rdrology Indicators						ndary Indicators (2 or more required)
Wetland Hy Primary Indi Surface	rdrology Indicators icators (minimum of water (A1)		✓ Salt Crus	st (B11)		v	Vater Marks (B1) (Riverine)
Wetland Hy Primary Indi Surface High W	rdrology Indicators icators (minimum of Water (A1) ater Table (A2)		✓ Salt Crus Biotic Cr	st (B11) rust (B12)		v s	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Wetland Hy Primary Indi Surface High Wi ✓ Saturati	rdrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3)	one require	✓ Salt Crus — Biotic Cr — Aquatic	st (B11) rust (B12) Invertebrates (B1:		v s c	Vater Marks (B1) (Riverine) sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine)
Wetland Hy Primary Indi Surface High Wa ✓ Saturati Water M	rdrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive	one require	✓ Salt Crus — Biotic Cr — Aquatic I — Hydroge	st (B11) rust (B12) Invertebrates (B1: en Sulfide Odor (C	:1)	v s c	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10)
Wetland Hy Primary Indi Surface High W: ✓ Saturati Water N Sedime	rdrology Indicators icators (minimum of water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No	one require erine) onriverine)	✓ Salt Crus Biotic Cr Aquatic Hydroge	st (B11) rust (B12) Invertebrates (B1: en Sulfide Odor (C d Rhizospheres al	(1) ong Living Roo	V S C C ts (C3) C	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2)
Wetland Hy Primary Indi Surface High W: ✓ Saturati Water N Sedime Drift De	rdrology Indicators leators (minimum of water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No	one require erine) onriverine)	✓ Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence	st (B11) rust (B12) Invertebrates (B1: en Sulfide Odor (C d Rhizospheres al e of Reduced Iror	c1) ong Living Roo n (C4)	V S C C tts (C3) C	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Orayfish Burrows (C8)
Wetland Hy Primary Indi Surface High Water Nation Sedime Drift De Surface	rdrology Indicators icators (minimum of water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive int Deposits (B2) (No iposits (B3) (Nonrive e Soil Cracks (B6)	one require erine) onriverine) erine)	✓ Salt Crus — Biotic Cr — Aquatic I — Hydroge — Oxidized — Presence — Recent I	st (B11) rust (B12) Invertebrates (B1: n Sulfide Odor (C d Rhizospheres ale e of Reduced Iror ron Reduction in	c1) ong Living Roo n (C4)	V 5 5 5 ts (C3) 5	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Orayfish Burrows (C8) Seaturation Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High Water Nation Sedime Drift De ✓ Surface Inundat	rdrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ant Deposits (B2) (Nonrive e Soil Cracks (B6) ion Visible on Aerial	one require erine) onriverine) erine)	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	st (B11) rust (B12) Invertebrates (B13 en Sulfide Odor (C d Rhizospheres ald e of Reduced Iror ron Reduction in tock Surface (C7)	:1) ong Living Roo n (C4) Tilled Soils (C6	V S C ts (C3) C C	Vater Marks (B1) (Riverine) Gediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Gaturation Visible on Aerial Imagery (C9) Ghallow Aquitard (D3)
Wetland Hy Primary Indi Surface High Water Nation Sedime Drift De ✓ Surface Inundat	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9)	one require erine) onriverine) erine)	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Muc	st (B11) rust (B12) Invertebrates (B1: n Sulfide Odor (C d Rhizospheres ale e of Reduced Iror ron Reduction in	:1) ong Living Roo n (C4) Tilled Soils (C6	V S C ts (C3) C C	Vater Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Orayfish Burrows (C8) Seaturation Visible on Aerial Imagery (C9)
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Wetland Hy Primary Indi Surface High Water N Sedime Drift De ✓ Surface Inundat Water-S Field Obser Surface Water Table Saturation F Includes ca	rdrology Indicators cators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present?	one require erine) onriverine) erine) I Imagery (E	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No V Depth (i No Depth (i	st (B11) rust (B12) Invertebrates (B1: en Sulfide Odor (C d Rhizospheres al- e of Reduced Iror ron Reduction in ck Surface (C7) explain in Remarks inches): inches): inches): 0-16	c1) ong Living Roo n (C4) Tilled Soils (C6 s) Wetla		Vater Marks (B1) (Riverine) Gediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Gaturation Visible on Aerial Imagery (C9) Ghallow Aquitard (D3) CAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Wi ✓ Saturati Water N — Sedime — Drift De ✓ Surface Inundat — Water-S Field Obser Surface Wai Water Table Saturation F (includes ca	rdrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No posits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one require erine) onriverine) erine) I Imagery (E	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No V Depth (i No Depth (i	st (B11) rust (B12) Invertebrates (B1: en Sulfide Odor (C d Rhizospheres al- e of Reduced Iror ron Reduction in ck Surface (C7) explain in Remarks inches): inches): inches): 0-16	c1) ong Living Roo n (C4) Tilled Soils (C6 s) Wetla		Vater Marks (B1) (Riverine) Gediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Gaturation Visible on Aerial Imagery (C9) Ghallow Aquitard (D3) CAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De ✓ Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca Describe Re	rdrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present? Present? pillary fringe) ecorded Data (strean	one require erine) onriverine) erine) I Imagery (E Yes Yes Yes m gauge, m	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No V Depth (i No Depth (i	st (B11) rust (B12) Invertebrates (B1: en Sulfide Odor (C d Rhizospheres al- e of Reduced Iror ron Reduction in ck Surface (C7) explain in Remarks inches): inches): inches): 0-16	c1) ong Living Roo n (C4) Tilled Soils (C6 s) Wetla		Vater Marks (B1) (Riverine) Gediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orift Deposits (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Gaturation Visible on Aerial Imagery (C9) Ghallow Aquitard (D3) CAC-Neutral Test (D5)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De ✓ Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca Describe Re	rdrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No posits (B3) (Nonrive e Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present?	one require erine) onriverine) erine) I Imagery (E Yes Yes Yes m gauge, m	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No V Depth (i No Depth (i	st (B11) rust (B12) Invertebrates (B1: en Sulfide Odor (C d Rhizospheres al- e of Reduced Iror ron Reduction in ck Surface (C7) explain in Remarks inches): inches): inches): 0-16	c1) ong Living Roo n (C4) Tilled Soils (C6 s) Wetla		Vater Marks (B1) (Riverine) Gediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Gaturation Visible on Aerial Imagery (C9) Ghallow Aquitard (D3)
Wetland Hy Primary Indi Surface High Water N Sedime Drift De ✓ Surface Inundat Water-S Field Obser Surface Water Table Saturation F (includes ca Describe Re	rdrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) (Nonrive ent Deposits (B2) (No posits (B3) (Nonrive Soil Cracks (B6) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present? Present? Present? Present? pillary fringe) ecorded Data (strean	one require erine) onriverine) erine) I Imagery (E Yes Yes Yes m gauge, m	Salt Crus Biotic Cr Aquatic I Hydroge Oxidized Presence Recent I Thin Mue Other (E No V Depth (i No Depth (i	st (B11) rust (B12) Invertebrates (B1: en Sulfide Odor (C d Rhizospheres al- e of Reduced Iror ron Reduction in ck Surface (C7) explain in Remarks inches): inches): inches): 0-16	c1) ong Living Roo n (C4) Tilled Soils (C6 s) Wetla		Vater Marks (B1) (Riverine) Gediment Deposits (B2) (Riverine) Orift Deposits (B3) (Riverine) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8) Gaturation Visible on Aerial Imagery (C9) Ghallow Aquitard (D3) CAC-Neutral Test (D5)



Sample Point 14 (Wetland)



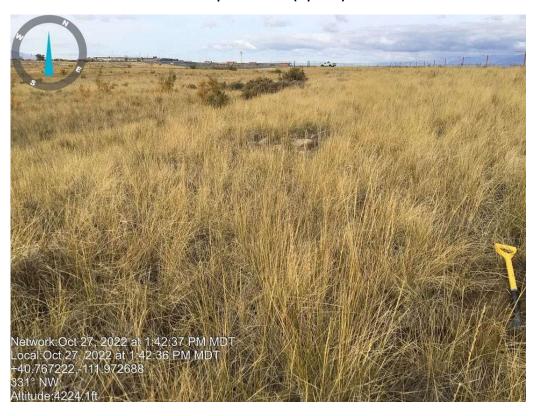
Sample Point 14 (Wetland)

Project/Site: Airport Surplus Canal Relocation	City/C	ounty: <u>SLC/Salt I</u>	_ake County	Samp	ling Date:	10/27/22
Applicant/Owner: Salt Lake City International Airport			State: l	JT Sampl	ling Point: _	SP15
Investigator(s): M. Davis and C. Glabau	Section	on, Township, Ran	ge: <u>Section 5, T</u>	ownship 1S,	Range 1W	!
Landform (hillslope, terrace, etc.): Hillslope	Local	relief (concave, c	onvex, none): <u>No</u>	ne	Slop	e (%): <u>2-5%</u>
Subregion (LRR): D	Lat: 40.7672	1	Long: -111.972	1669	Datum	n: NAD 1983
Soil Map Unit Name: Leland fine sandy loam						
Are climatic / hydrologic conditions on the site typical for this t		_				
Are Vegetation, Soil, or Hydrology sig			Normal Circumsta			No
Are Vegetation, Soil, or Hydrology nat			eded, explain any			
						.4
SUMMARY OF FINDINGS – Attach site map si	nowing sam	ipling point ic	cations, tran	sects, impo	ortant tea	itures, etc.
Hydrophytic Vegetation Present? Yes No		Is the Sampled	Δrea			
Hydric Soil Present? Yes No		within a Wetlan		s N	lo 🗸	
Wetland Hydrology Present? Yes No						
Remarks:						
VEGETATION – Use scientific names of plants	S.					
		ninant Indicator	Dominance Tes	t worksheet:		
		cies? Status	Number of Domi			(4)
1			That Are OBL, F	ACW, or FAC		(A)
3			Total Number of Species Across		1	(B)
4			•			(D)
			Percent of Domi That Are OBL, F		. 0%	(A/B)
Sapling/Shrub Stratum (Plot size: 15')						(,,,,)
1			Prevalence Inde			
2				er of:		
3			OBL species FACW species			
4. 5.			FAC species			
·	= Tot	tal Cover	FACU species		· ·	20
Herb Stratum (Plot size: 5')			UPL species			<u> 875 </u>
1. Thinopyrum intermedium (Intermediate Whea+			Column Totals:	80	(A) <u>3</u>	<u>195</u> (B)
2. <u>Sisymbrium altissimum (Tall Tumblemustard)</u>			Drovolono	e Index = B/A	_ 10	ΔΛ
3			Hydrophytic Ve			/+
4. 5.			Dominance	_	cators.	
6			Prevalence			
7			Morphologic	cal Adaptations		
8				temarks or on	•	•
	80% = Tot	tal Cover	Problematio	Hydrophytic \	/egetation ˈ ((Explain)
Woody Vine Stratum (Plot size: 5')			¹ Indicators of hy	drie eeil end w	atland budge	alamy muset
1			be present, unle			
2	= Tot	tal Cover	Hydrophytic			
200/			Vegetation			
	of Biotic Crust _	0%	Present?	Yes	No•	<u>/</u>
Remarks:						

DepthN Color (m		Cal	Redo or (moist)	%	_Type ¹	Loc ²	Texture	Remarks
• • •							rexture	
0-10 10 YR 4/2	100%							Loamy-Clay
10-16 10 YR 3/3	100%							<u>Loamy-Clay</u>
				-				
		_						
¹ Type: C=Concentration,						d Sand Gr		ocation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	Applicable to				ed.)			s for Problematic Hydric Soils ³ :
Histosol (A1)			Sandy Red	. ,				Muck (A9) (LRR C)
Histic Epipedon (A2)			Stripped Ma		L (E4)			Muck (A10) (LRR B)
Black Histic (A3)	`		Loamy Muc					ced Vertic (F18)
Hydrogen Sulfide (A4Stratified Layers (A5)			Loamy Gley Depleted M		(Г2)			Parent Material (TF2) (Explain in Remarks)
1 cm Muck (A9) (LRF			Redox Dark		(F6)		00101	(Explain in Remarks)
Depleted Below Dark			Depleted Da		` ,			
Thick Dark Surface (A			Redox Dep				³ Indicators	s of hydrophytic vegetation and
Sandy Mucky Minera	(S1)		Vernal Pool	s (F9)			wetland	l hydrology must be present,
Sandy Gleyed Matrix							unless	disturbed or problematic.
Restrictive Layer (if pres	sent):							
T								
Type:								
Depth (inches):							Hydric Soi	I Present? Yes No <u>✓</u>
• • •							Hydric Soi	l Present? Yes No <u>✓</u>
Depth (inches): Remarks:							Hydric Soi	I Present? Yes No <u>✓</u>
Depth (inches):Remarks:							Hydric Soi	l Present? Yes No <u>✓</u>
Depth (inches):Remarks: IYDROLOGY Wetland Hydrology India	cators:							
Depth (inches):Remarks:	cators:		all that appl	у)				Present? Yes No _✓
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicators (minimary Indicators (Minimary Surface Water (A1))	cators: um of one requ	ired; check	_ Salt Crust	(B11)			<u>Seco</u>	endary Indicators (2 or more required) Water Marks (B1) (Riverine)
Depth (inches):Remarks: IYDROLOGY Wetland Hydrology Indicators (minim	cators: um of one requ	ired; check	_ Salt Crust _ Biotic Crus	(B11) st (B12)			Seco\	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine)
Depth (inches):	cators: um of one requ	ired; check	Salt Crust Biotic Crust Aquatic In	(B11) st (B12) vertebrate	, ,		Seco \ \	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine)
Depth (inches):	cators: um of one requ () onriverine)	ired; check	Salt Crust Biotic Crus Aquatic In Hydrogen	(B11) st (B12) vertebrate Sulfide Od	dor (C1)		Seco — \ — \ — [— [Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indicent Primary Indicators (miniment of the primary Indicators (Miniment of	cators: um of one requ 2) onriverine) 32) (Nonriverin	ired; check	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	(B11) st (B12) vertebrate Sulfide Oo Rhizosphe	dor (C1) res along	_	Seco \ [[ots (C3) [Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2)
Depth (inches):	cators: um of one requ conriverine) 32) (Nonriverin onriverine)	ired; check	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce	dor (C1) res along ed Iron (C4	!)	Seco\ \	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Depth (inches):	cators: um of one requ conriverine) 32) (Nonriverin onriverine) B6)	e)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti	dor (C1) res along ed Iron (C4 on in Tille	!)	Seco\	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C5
Depth (inches):	cators: um of one requ conriverine) 32) (Nonriverin onriverine) B6) Aerial Imagery	e)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (dor (C1) res along ed Iron (C ² on in Tille	!)	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology India Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) (No Sediment Deposits (B Drift Deposits (B3) (N Surface Soil Cracks (Inundation Visible on Water-Stained Leave	cators: um of one requ conriverine) 32) (Nonriverin onriverine) B6) Aerial Imagery	e)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (dor (C1) res along ed Iron (C ² on in Tille	!)	Seco	endary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C5
Depth (inches):	cators: um of one requ 2) onriverine) 32) (Nonriverin onriverine) B6) Aerial Imagery s (B9)	e)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	l) d Soils (C6	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology India Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) (No Sediment Deposits (B Drift Deposits (B3) (N Surface Soil Cracks (Inundation Visible on Water-Stained Leave	cators: um of one requ 2) conriverine) 32) (Nonriverine) B6) Aerial Imagery s (B9)	e)(B7)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	l) d Soils (C6	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Depth (inches):	cators: um of one request conriverine) s2) (Nonriverine) s6) Aerial Imagery s (B9) Yes Yes	e)(B7)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	l) d Soils (C6	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology India Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) (No Sediment Deposits (B Drift Deposits (B3) (N Surface Soil Cracks (Inundation Visible on Water-Stained Leave Field Observations: Surface Water Present? Water Table Present? Saturation Present?	cators: um of one request conriverine) s2) (Nonriverine) s6) Aerial Imagery s (B9) Yes Yes	e)(B7)	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	l) d Soils (C6	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indice Primary Indicators (minime) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Note) Sediment Deposits (B3) (Note) Surface Soil Cracks (Inundation Visible on Water-Stained Leave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	cators: um of one reques conriverine) s2) (Nonriverine) s6) Aerial Imagery s (B9) Yes Yes Yes Yes	e)(B7) No/ No/	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology India Primary Indicators (minim Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) (No Sediment Deposits (B Drift Deposits (B3) (N Surface Soil Cracks (Inundation Visible on Water-Stained Leave Field Observations: Surface Water Present? Water Table Present? Saturation Present?	cators: um of one reques conriverine) s2) (Nonriverine) s6) Aerial Imagery s (B9) Yes Yes Yes Yes	e)(B7) _ No/ _ No/	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indice Primary Indicators (minime) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Notes) Sediment Deposits (B3) (Notes) Surface Soil Cracks (Inundation Visible on Water-Stained Leave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data of the Present of the Pres	cators: um of one reques conriverine) s2) (Nonriverine) s6) Aerial Imagery s (B9) Yes Yes Yes Yes	e)(B7) _ No/ _ No/	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indice Primary Indicators (minime) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Note) Sediment Deposits (B3) (Note) Surface Soil Cracks (Inundation Visible on Water-Stained Leave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	cators: um of one reques conriverine) s2) (Nonriverine) s6) Aerial Imagery s (B9) Yes Yes Yes Yes	e)(B7) _ No/ _ No/	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indice Primary Indicators (minime) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Notes) Sediment Deposits (B3) (Notes) Surface Soil Cracks (Inundation Visible on Water-Stained Leave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data of the Present of the Pres	cators: um of one reques conriverine) s2) (Nonriverine) s6) Aerial Imagery s (B9) Yes Yes Yes Yes	e)(B7) _ No/ _ No/	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Depth (inches): Remarks: IYDROLOGY Wetland Hydrology Indice Primary Indicators (minime) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Notes) Sediment Deposits (B3) (Notes) Surface Soil Cracks (Inundation Visible on Water-Stained Leave Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data of the Present of the Pres	cators: um of one reques conriverine) s2) (Nonriverine) s6) Aerial Imagery s (B9) Yes Yes Yes Yes	e)(B7) _ No/ _ No/	Salt Crust Biotic Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp Depth (inc	(B11) st (B12) vertebrate Sulfide Oc Rhizosphe of Reduce n Reducti Surface (blain in Re ches): ches):	dor (C1) res along ed Iron (C4 on in Tille (C7) emarks)	d Soils (C6	Seco	Andary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C8) Shallow Aquitard (D3) FAC-Neutral Test (D5)



Sample Point 15 (Upland)



Sample Point 15 (Upland)

Project/Site: Airport Surplus Canal Relocation	City/County: SLC/Salt Lake Count	Sampling Date: 10/27/22
Applicant/Owner: Salt Lake City International Airport	State	: <u>UT</u> Sampling Point: <u>SP16</u>
Investigator(s): M. Davis and C. Glabau	Section, Township, Range: <u>Section</u>	n 5, Township 1S, Range 1W
Landform (hillslope, terrace, etc.): Toe of slope	Local relief (concave, convex, none	e): <u>None</u> Slope (%): <u>1-2%</u>
Subregion (LRR): D	Lat: 40.765811 Long: -11:	1.971915 Datum: <u>NAD 1983</u>
Are climatic / hydrologic conditions on the site typical for thi	_	
Are Vegetation, Soil, or Hydrologys		umstances" present? Yes ✓ No
Are Vegetation, Soil, or Hydrology r	•	n any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map		•
SOMMANT OF FINDINGS - Attach site map		transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes N		
Hydric Soil Present? Yes ✓ N	0 within a Wetland?	Yes ✓ No
Wetland Hydrology Present? Yes N	0	
Remarks:		
VEGETATION – Use scientific names of plan	ts.	
Tree Stratum (Plot size:30')	9/ Cover Species? Status	e Test worksheet:
1	Number of	Dominant Species OBL, FACW, or FAC: 2 (A)
2.		. ,
3.	Total Numi	ber of Dominant cross All Strata:2 (B)
4	Porcont of	Dominant Species
Carling/Object Ottostore (Dietoine 15)		DBL, FACW, or FAC: 100% (A/B)
Sapling/Shrub Stratum (Plot size: 15')	Prevalenc	e Index worksheet:
1 2		% Cover of: Multiply by:
3		es x 1 =
4.		ecies 73 x 2 = 146
5.	FAC specie	es <u>20</u> x 3 = <u>60</u>
	= Total Cover FACU spec	cies x 4 =
Herb Stratum (Plot size: 5') 1. Dipsacum fullonum (Fuller's Teasel)	2004	es x 5 =
Dipsacum fullorium (Puller's Teaser) Phragmites australis (Common Reed)	Columnia	otals: 93 (A) 206 (B)
3. Juncus balticus (Baltic Rush)	D	alence Index = B/A =
4		tic Vegetation Indicators:
5		ance Test is >50%
6.		lence Index is ≤3.0 ¹
7		ological Adaptations ¹ (Provide supporting a in Remarks or on a separate sheet)
8		ematic Hydrophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size: 5')	93% = Total Cover 11886	matio Hydrophytic Vegetation (Explain)
1	¹ Indicators	of hydric soil and wetland hydrology must
2.	I be present	, unless disturbed or problematic.
	0% = Total Cover Hydrophy	
% Bare Ground in Herb Stratum 7% % Cove	Vegetation of Biotic Crust 0% Present?	n Yes <u> </u>
Remarks:		

Profile Desc	ription: (Describe	to the dep	th needed to docu	ment the i	ndicator o	or confirm	the absen	ce of indicators.)
Depth	Matrix			x Feature			- .	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	<u>Loc²</u>	<u>Texture</u>	
<u>0-4</u>	10 YR 3/3	100%						<u>Loamy-Clay</u>
4-16	10 YR 5/2	96%	5 YR 6/8	4%		_M		Clay
								-
							-	
			=Reduced Matrix, C			d Sand Gra		Location: PL=Pore Lining, M=Matrix.
Hydric Soil I	Indicators: (Applic	able to all	LRRs, unless othe	rwise not	ed.)		Indicato	ors for Problematic Hydric Soils³:
Histosol	• •		Sandy Red	. ,				m Muck (A9) (LRR C)
	pipedon (A2)		Stripped Ma	• •				m Muck (A10) (LRR B)
Black Hi			Loamy Muc	-	. ,			duced Vertic (F18)
	n Sulfide (A4) I Layers (A5) (LRR (C \	Loamy Gley ✓ Depleted M		(F2)			d Parent Material (TF2)
	ick (A9) (LRR D)	C)	Redox Darl		(F6)		0111	er (Explain in Remarks)
	d Below Dark Surfac	e (A11)	Depleted D					
	ark Surface (A12)	- (,	Redox Dep				³ Indicate	ors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Vernal Poo		·		wetla	nd hydrology must be present,
	leyed Matrix (S4)						unles	s disturbed or problematic.
Restrictive L	_ayer (if present):							
Type:								
Depth (inc	ches):						Hydric S	oil Present? Yes <u>✓</u> No
Remarks:							II.	
HYDROLO	GY							
Wetland Hyd	drology Indicators:							
Primary Indic	cators (minimum of c	ne require	d; check all that appl	ly)			<u>Se</u>	condary Indicators (2 or more required)
Surface	Water (A1)		Salt Crust	(B11)				Water Marks (B1) (Riverine)
— High Wa	iter Table (A2)		Biotic Cru	st (B12)				Sediment Deposits (B2) (Riverine)
✓ Saturatio			Aquatic In		s (B13)			Drift Deposits (B3) (Riverine)
	arks (B1) (Nonriver	ine)	Hydrogen					Drainage Patterns (B10)
Sedimer	nt Deposits (B2) (No	nriverine)	Oxidized I	Rhizosphe	res along l	Living Root	ts (C3)	Dry-Season Water Table (C2)
Drift Dep	oosits (B3) (Nonrive	rine)	Presence	of Reduce	ed Iron (C4	.)		Crayfish Burrows (C8)
Surface	Soil Cracks (B6)		Recent Iro	n Reducti	on in Tilled	d Soils (C6))	Saturation Visible on Aerial Imagery (C9)
Inundation	on Visible on Aerial I	lmagery (B	7) Thin Mucl	Surface ((C7)			Shallow Aquitard (D3)
Water-S	tained Leaves (B9)		Other (Ex	plain in Re	emarks)		<u> </u>	FAC-Neutral Test (D5)
Field Observ	vations:							
Surface Water	er Present? Y	es	No Depth (in	ches):		_		
Water Table	Present? Y	'es	No Depth (in	ches):				
Saturation Pr	resent? Y	′es _ ✓	No Depth (in	ches): 0-	16 inches	Wetla	and Hydrol	ogy Present? Yes <u>✓</u> No
(includes cap	oillary fringe)							
Describe Red	corded Data (stream	gauge, mo	onitoring well, aerial	photos, pr	evious ins	pections), i	if available:	
Remarks:								



Sample Point 16 (Wetland)



Sample Point 16 (Wetland)

Project/Site: Airport Surplus Canal Relocation City/County: SLC/Salt Lake County Sampling Date: 10/27/								
Applicant/Owner: Salt Lake City International Airport		State: <u>UT</u>	_ Sampling Poin	t: <u>SP17</u>				
Investigator(s): M. Davis and C. Glabau		Section, To	ownship, Rar	nge: <u>Section 5, Towns</u>	ship 1S, Range	1W		
Landform (hillslope, terrace, etc.): Meadow		Local relie	f (concave, c	convex, none): None		Slope (%): <u>0-1%</u>		
Subregion (LRR): D								
Soil Map Unit Name: Decker Fine Sandy Loam								
Are climatic / hydrologic conditions on the site typical for this t			_					
Are Vegetation, Soil, or Hydrology sig				Normal Circumstances"		✓ No		
Are Vegetation, Soil, or Hydrology nat								
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
SUMMARY OF FINDINGS – Attach site map si	nowing	sampiir	ig point ic		s, important	reatures, etc.		
Hydrophytic Vegetation Present? Yes No		ls ti	he Sampled	Δrea				
Hydric Soil Present? Yes No			nin a Wetlan		No <u>✓</u>			
Wetland Hydrology Present? Yes No						<u> </u>		
Remarks:								
VEGETATION – Use scientific names of plants	; .							
			t Indicator	Dominance Test wor	ksheet:			
		· · ·	Status	Number of Dominant S		0 (4)		
1				That Are OBL, FACW,	or FAC:	0 (A)		
3				Total Number of Domi Species Across All Str		2 (B)		
4				·		(B)		
		= Total Co		Percent of Dominant S That Are OBL, FACW,	or FAC:	0% (A/B)		
Sapling/Shrub Stratum (Plot size: 15')				·		(,,,,,)		
1				Prevalence Index wo				
2				Total % Cover of:		tiply by:		
3				OBL species				
4. 5.				FAC species 5				
·		= Total Co	over	FACU species 28				
Herb Stratum (Plot size:5')				UPL species 50	x 5 =	250		
1. <u>Salsola tragus (Russian Thistle)</u>	3%		<u>FACU</u>	Column Totals:8	<u>33</u> (A) _	377 (B)		
2. <u>Dipsacum fullonum (Fuller's Teasel)</u>			<u>FAC</u>	Prevalence Inde	w = D/A =	151		
3. <u>Sisymbrium altissimum (Tall Tumblemustard)</u>		<u>Yes</u>		Hydrophytic Vegetat		<u>4.54</u>		
4. Pseudoroegneria spicata (Bluebunch Wheatgr				Dominance Test is				
5				Prevalence Index				
7				Morphological Ada		de supporting		
8				data in Remark	ks or on a separa	ate sheet)		
		= Total Co	over	Problematic Hydro	ophytic Vegetatio	on ¹ (Explain)		
Woody Vine Stratum (Plot size:)				1				
1				¹ Indicators of hydric so be present, unless dis				
2								
-		= Total Co		Hydrophytic Vegetation				
% Bare Ground in Herb Stratum 17% % Cover o	f Biotic Cr	ust <u> </u>	<u>%</u>	Present? Yo	es No			
Remarks:								

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix			x Features		2	T t			Damada	
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>			Remarks	
0-3	10 YR 2/2	<u> 100%</u> _						<u>Cl</u>	ay-Loam		
3-16	10 YR 4/2	100%						<u>Sa</u>	indy-Clay	/	
	-			- ——			-				
							-				
¹ Type: C=Co	oncentration, D=Dep	oletion, RM=R	educed Matrix, C	S=Covered	d or Coate	d Sand Gra	ains. ²	² Locatio	n: PL=Po	ore Lining, M	1=Matrix.
Hydric Soil I	Indicators: (Applic	able to all Li	RRs, unless othe	rwise note	ed.)		Indicat	ors for	Problem	atic Hydric	Soils³:
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Muck (A9) (LRR C)				
	oipedon (A2)		Stripped Ma	atrix (S6)			2 cm Muck (A10) (LRR B)				
Black Hi			Loamy Muc	-			Reduced Vertic (F18)				
	n Sulfide (A4)		Loamy Gle		(F2)				nt Material		
	d Layers (A5) (LRR	C)	Depleted M		F6)		Other (Explain in Remarks)				
	ick (A9) (LRR D) d Below Dark Surfac	o (Λ11)	Redox Dark Depleted D								
-	ark Surface (A12)	e (ATT)	Redox Dep				3Indicat	ors of h	vdronhvti	c vegetation	and
	lucky Mineral (S1)		Vernal Poo		0)					_	
-	Bleyed Matrix (S4)			o (. o)			wetland hydrology must be present, unless disturbed or problematic.				
	_ayer (if present):								•		
Type:			<u></u>								
Depth (inc	ches):						Hydric S	Soil Pre	sent?	Yes	No ✓
Remarks:	,										<u> </u>
HYDROLO	GY										
	drology Indicators:	ı									
=	cators (minimum of c		obook all that ann	v/)			90	oondor	. Indicato	ro (2 or mor	o roquirod)
		one required,					Secondary Indicators (2 or more required)				
	Water (A1)		Salt Crust	` '			Water Marks (B1) (Riverine)				
	High Water Table (A2)Saturation (A3)Biotic Crust (B12)Aquatic Invertebrates (B13)				Sediment Deposits (B2) (Riverine)						
Saturatio		·!·\					Drift Deposits (B3) (Riverine)Drainage Patterns (B10)				
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1)				Living Doot					20)		
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roo							-			J2)	
Drift Deposits (B3) (Nonriverine) Presence of Reduced Iron (C4)							ish Burro	` '	Limonan (CO)		
Surface Soil Cracks (B6) Recent Iron Reduction in Tilled Soils (Co				i Solis (Co)					I Imagery (C9)		
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks)					Shallow Aquitard (D3) FAC-Neutral Test (D5)						
Field Observ	. ,		Other (Ex	nam m Ke	marks)		_	_ FAC-	neutral i	est (D5)	
		, N	1 5 0 %								
Surface Water			Depth (in								
Water Table Present? Yes No ✓ Depth (inches):									_		
				and Hydro	logy Pr	esent?	Yes	_ No <u> </u>			
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
(1111 J. 151) 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											
Remarks:											
			1	. 1							
Damp, like	ely from recen	t weather	conditions m	nore tha	in hydro	ology.					



Sample Point 17 (Upland)



Sample Point 17 (Upland)

Project/Site: Airport Surplus Canal Relocation	City/County: <u>SLC/Salt</u>	Lake County	Sampling Date:	10/27/22
Applicant/Owner: Salt Lake City International Airpo	ort	State: <u>UT</u>	_ Sampling Point:	SP18
Investigator(s): M. Davis and C. Glabau	Section, Township, Ra	inge: <u>Section 32, Towr</u>	nship 1N, Range 1W	1
Landform (hillslope, terrace, etc.): Stream Bank	Local relief (concave,	convex, none): None	Slope	(%): <u>1-2%</u>
Subregion (LRR): D	Lat: <u>40.772729</u>	Long: <u>-111.980137</u>	Datum:	NAD 1983
Soil Map Unit Name: Leland fine sandy loam		NWI classifi	cation: PEM5C	
Are climatic / hydrologic conditions on the site typical for	ā			
Are Vegetation, Soil, or Hydrology		"Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology		eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site m				ures, etc.
	No	· · · · · · · · · · · · · · · · · · ·	•	<u> </u>
	No.		/ Na	
_ =	No within a Wetlan	nd? Yes	No	
Remarks:	<u> </u>			
VEGETATION – Use scientific names of p	Nante			
VEGETATION – Ose scientific fiames of p	Absolute Dominant Indicator	Dominance Test wor	kehaat:	
Tree Stratum (Plot size: 30')	% Cover Species? Status	Number of Dominant S		
1		That Are OBL, FACW,		(A)
2		Total Number of Domi	nant	
3		Species Across All Str		(B)
4		Percent of Dominant S		
Sapling/Shrub Stratum (Plot size: 15')	0% = Total Cover	That Are OBL, FACW,	or FAC: 50%	(A/B)
1		Prevalence Index wo	rksheet:	
2.		Total % Cover of:	Multiply b	y:
3		OBL species	x 1 =	
4		FACW species <u>75</u>		
5		FAC species		
Herb Stratum (Plot size: 5')	<u>0%</u> = Total Cover	FACU species		
1. Phragmites australis (Common Reed)		UPL species 18		<u>) </u>
2. <u>Cardaria draba (Whitetop)</u>		Column Totals:	75 (A) <u>24</u>	<u>0</u> (B)
3.		Prevalence Index	x = B/A =2.58	
4		Hydrophytic Vegetati	ion Indicators:	
5		Dominance Test is		
6		✓ Prevalence Index		
7			aptations¹ (Provide su∣ ks or on a separate sh	
8		Problematic Hydro	·	•
Woody Vine Stratum (Plot size:5')	<u>93%</u> = Total Cover		, , , , , ,	' /
1		¹ Indicators of hydric so		gy must
2.		be present, unless dist	turbed or problematic.	
	0% = Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum 7% % 0	Cover of Biotic Crust 0%	Vegetation Present? Yes	es <u> </u>	
Remarks:	·			_
I .				

SOIL Sampling Point: SP18

Depth	cription: (Describe Matrix	to the dept		ment the i		or confirn	the absence of i	ndicators.)			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u> </u>	Type ¹	Loc ²	Texture	Remarks			
0-16	10 YR 6/3	90	5 YR 6/8	10%		М	Silty-Sand				
			,								
				_							
		·		_							
											
	Concentration, D=Dep					ed Sand G		n: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators: (Applic	able to all I	RRs, unless othe	erwise not	ed.)		Indicators for	Problematic Hydric Soils ³ :			
Histoso	l (A1)		<u>✓</u> Sandy Red	lox (S5)			1 cm Muck	(A9) (LRR C)			
	pipedon (A2)		Stripped M				2 cm Muck (A10) (LRR B)				
	listic (A3)		Loamy Mu	-	. ,			Reduced Vertic (F18)			
	en Sulfide (A4)		Loamy Gle		(F2)		Red Parent Material (TF2)				
	d Layers (A5) (LRR	C)	Depleted N				Other (Explain in Remarks)				
	uck (A9) (LRR D)		Redox Dar								
	ed Below Dark Surfac	e (A11)	Depleted D				31 11 1 61				
· 	ark Surface (A12)		Redox Dep	,	F8)			ydrophytic vegetation and			
	Mucky Mineral (S1)		Vernal Poo	ois (F9)			-	rology must be present, bed or problematic.			
	Gleyed Matrix (S4) Layer (if present):						Timess distui	bed of problematic.			
•••	1 >							10 Y 1 N			
Deptn (in Remarks:	nches):						Hydric Soil Pre	sent? Yes No			
HYDROLC)GY										
	/drology Indicators:										
_	cators (minimum of c		· check all that ann	dva)			Sacandar	y Indicators (2 or more required)			
	•	nie requireu									
	Water (A1)		Salt Crus	,			Water Marks (B1) (Riverine)				
	ater Table (A2)		Biotic Cru		(D40)			nent Deposits (B2) (Riverine)			
Saturati			Aquatic Ir					Deposits (B3) (Riverine)			
	Marks (B1) (Nonriver		Hydroger			5		age Patterns (B10)			
	ent Deposits (B2) (No	•			_	-		Season Water Table (C2)			
	posits (B3) (Nonrive	rine)	Presence					ish Burrows (C8)			
	Soil Cracks (B6)	(5-	Recent Ir			d Soils (Ct	· ·	ration Visible on Aerial Imagery (C9)			
	ion Visible on Aerial	magery (B7	· —					ow Aquitard (D3)			
	Stained Leaves (B9)		Other (Ex	plain in Re	emarks)		FAC-	Neutral Test (D5)			
Field Obser											
Surface Wat			lo 🗹 Depth (ir								
Water Table	Present? Y	es N									
Saturation F		es N	Wetl	Wetland Hydrology Present? Yes No <u>✓</u>							
	pillary fringe)		aitarina wallaarial	nhataa nr	audaua ind	nactions\	if available:				
Describe Re	ecorded Data (stream	gauge, mo	illoring well, aerial	priotos, pr	evious iris	pections),	ii avallable.				
Domonto											
Remarks:											

US Army Corps of Engineers Arid West – Version 2.0

Airport Surplus Canal Relocation



Sample Point 18 (Wetland)



Sample Point 18 (Wetland)

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Airport Surplus Canal Relocation	Lake County	Sampling	Date:	10/27/22				
Applicant/Owner: Salt Lake City International Airport				Sampling	Point:	SP19		
Investigator(s): M. Davis and C. Glabau	Section, Township, Range: Section 32, Township 1N, Range 1W							
Landform (hillslope, terrace, etc.): Top of Bank		Local reli	ef (concave,	convex, none): None	!	Slope	e (%): <u>0-1</u>	
Subregion (LRR): D	Lat: 40.	772717		Long: -111.97973	3	Datum	: NAD 1983	
Soil Map Unit Name: Leland fine sandy loam								
Are climatic / hydrologic conditions on the site typical for this t			_					
Are Vegetation, Soil, or Hydrology sig				"Normal Circumstance		′es ✓	No	
Are Vegetation, Soil, or Hydrology na				eeded, explain any an	•			
SUMMARY OF FINDINGS – Attach site map si				•		,	tures, etc.	
Hydrophytic Vegetation Present? Yes No	·	T			<u> </u>			
Hydric Soil Present? Yes No			the Sampled			./		
Wetland Hydrology Present? Yes No		Wit	thin a Wetlar	nd? Yes_	No _			
Remarks:		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						
VECETATION . He acientific names of plants								
VEGETATION – Use scientific names of plants		Damina	-t ld:t	Daminana Tastu				
1	Absolute % Cover		nt Indicator ? Status	Number of Dominar				
1				That Are OBL, FAC		0	(A)	
2				Total Number of Do	minant			
3				Species Across All		2	(B)	
4				Percent of Dominar	nt Species			
Sapling/Shrub Stratum (Plot size:15')	0%	_ = Total C	Cover	That Are OBL, FAC		0%	(A/B)	
1				Prevalence Index	worksheet:			
2.				Total % Cover	of:	Multiply	by:	
3.				OBL species	x 1	=		
4				FACW species	x 2	=		
5				FAC species 2				
Herb Stratum (Plot size: 5')	0%	_ = Total C	Cover	FACU species 26				
Herb Stratum (Plot size: 5') 1. Euphorbia myrsinites (Myrtle Spurge)	2%		UPL	UPL species 37				
Rumex crispus (Curly Dock)				Column Totals:	(A)		95 (B)	
3. Symphyotrichum porteri (Smooth White Aster)	<u> </u>		FACU	Prevalence In	dex = B/A = _	5.3	6	
4. Malvella leprosa (Alkali Mallow)	6%		FACU	Hydrophytic Vege	tation Indicato	ors:		
5. Ambrosia psilostachya (Cuman ragweed)	15%	Yes	FACU	Dominance Te				
6. Thinopyrum intermedium (Intermediate Whea-	35%_	Yes	<u>UPL</u>	Prevalence Ind				
7				Morphological	Adaptations¹ (F arks or on a se			
8				Problematic Hy			•	
Woody Vine Stratum (Plot size: 5')	65%	_ = Total C	Cover	r robicinatio rry	aropriyilo vege	station (i	Explain)	
1				¹ Indicators of hydric	soil and wetla	nd hydro	logy must	
2				be present, unless				
		= Total C	Cover	Hydrophytic				
% Bare Ground in Herb Stratum35 % Cover of		_	0%	Vegetation Present?	Yes	No 🗸	,	
Remarks:	יי טוטנוט ט			r resent:	163			
Tremans.								

US Army Corps of Engineers Arid West – Version 2.0

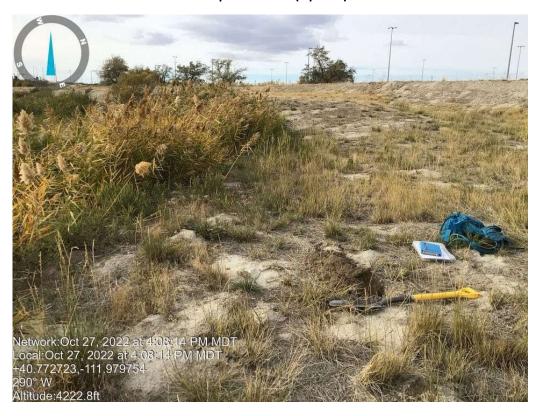
SOIL Sampling Point: SP19

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix		Redo	x Feature	s						
(inches)	Color (moist)	<u> </u>	Color (moist)	%	_Type ¹	Loc ²	Textur	e Remarks			
0-16	10 YR 4/2	100%						Loamy-Clay			
	•										
-	-			· ——				<u> </u>			
17			- december 100			1010-		21 tions DI Done Linius M Matrix			
	oncentration, D=Dep					d Sand Gr		² Location: PL=Pore Lining, M=Matrix. tors for Problematic Hydric Soils ³ :			
_	Indicators: (Applic	able to all LR			ea.)			•			
Histosol			Sandy Red					cm Muck (A9) (LRR C)			
-	oipedon (A2)		Stripped Ma					cm Muck (A10) (LRR B)			
Black Hi	` '		Loamy Muc	•				educed Vertic (F18)			
	en Sulfide (A4)	- `	Loamy Gley		(F2)		Red Parent Material (TF2)				
	d Layers (A5) (LRR (3)	Depleted M		(E0)		Ot	ther (Explain in Remarks)			
	uck (A9) (LRR D)	(8.4.4)	Redox Darl								
-	d Below Dark Surfac	e (A11)	Depleted D				31	ators of hydrophytic vegetation and			
	ark Surface (A12)		Redox Dep		F0)			and hydrology must be present,			
-	Mucky Mineral (S1)		Vernal Pool	s (F9)				ess disturbed or problematic.			
	Bleyed Matrix (S4) Layer (if present):						T	ess disturbed of problematic.			
1			_								
Depth (inc	ches):		_				Hydric	Soil Present? Yes No			
Remarks:											
HYDROLO	GY										
Wetland Hy	drology Indicators:										
Primary India	cators (minimum of o	ne required: c	heck all that appl	v)			S	econdary Indicators (2 or more required)			
Surface			Salt Crust				Water Marks (B1) (Riverine)				
_	ater Table (A2)		Biotic Crus				Sediment Deposits (B2) (Riverine)				
Saturation			Aquatic In		o (D12)						
		:			, ,			Drift Deposits (B3) (Riverine)			
l —	larks (B1) (Nonriver	•	Hydrogen					Drainage Patterns (B10)			
	nt Deposits (B2) (No	•			_	_		Dry-Season Water Table (C2)			
	posits (B3) (Nonrive	rine)	Presence				·	Crayfish Burrows (C8)			
	Soil Cracks (B6)		Recent Iro			d Soils (C6	-	_ Saturation Visible on Aerial Imagery (C9)			
Inundation	on Visible on Aerial I	magery (B7)	Thin Muck	Surface (C7)		_	Shallow Aquitard (D3)			
Water-S	tained Leaves (B9)		Other (Exp	olain in Re	marks)		_	FAC-Neutral Test (D5)			
Field Obser	vations:										
Surface Water	er Present? Y	es No	Depth (in	ches):							
Water Table	Present? Y	es No	Depth (in	ches):							
Saturation P			and Hydro	ology Present? Yes No _ ✓							
Saturation Present? Yes No _ <ali> Depth (inches): Wetland Hydrology Present? Yes No _<a>Yes No _ No _<a>Yes No _<a><a><a><a><a><a><a><a><a><a><a><a><a><</ali>											
Describe Re	corded Data (stream	gauge, monit	oring well, aerial	ohotos, pr	evious ins	pections),	if available	ə:			
Remarks:	Remarks:										

Airport Surplus Canal Relocation



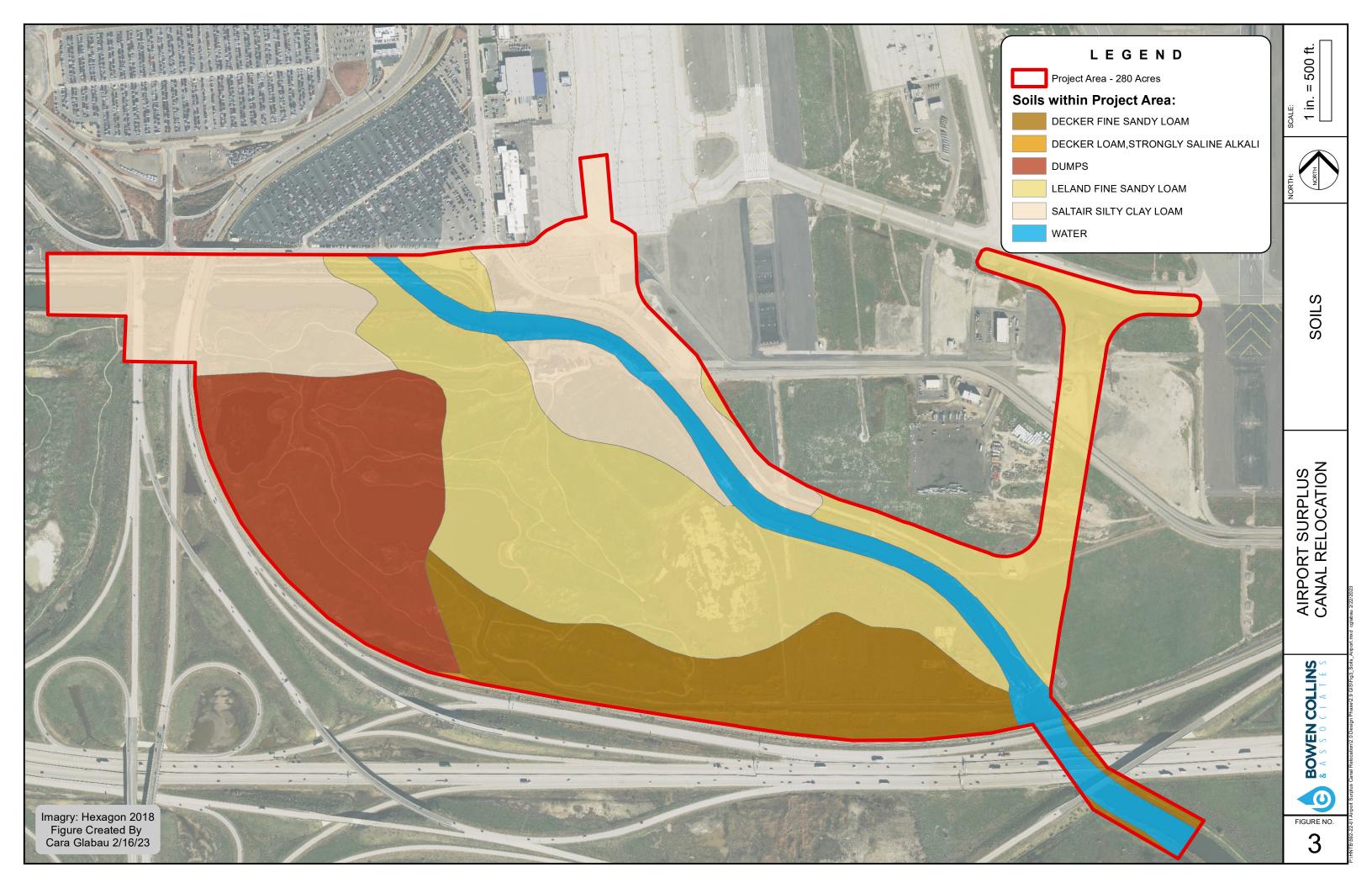
Sample Point 19 (Upland)



Sample Point 19 (Upland)

Appendix D

Soil Figures and NRCS Custom Soils Resource Report





Natural 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 Salt Lake Area, Utah

Airport Surplus Canal Relocation



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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Dk—Deckerman loam, strongly saline, sodic, 0 to 1 percent slopes	14
Du—Dumps	15
Lk—Leland fine sandy loam, 0 to 1 percent slopes	16
Sa—Saltair silty clay loam, 0 to 1 percent slopes	17
W—Water	
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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

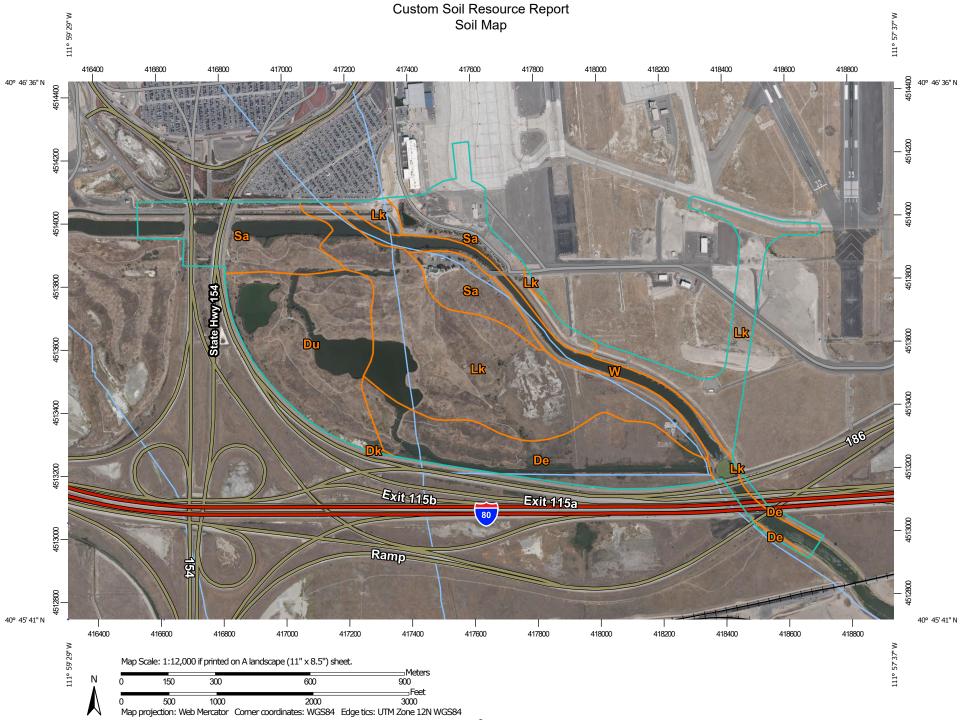
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

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.



MAP LEGEND

Area of Interest (AOI)

l A

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

(©)

Blowout

 \boxtimes

Borrow Pit

Ж

Clay Spot

 \Diamond

Closed Depression

~

Gravel Pit

.

Gravelly Spot

0

Landfill

٨.

Lava Flow

Marsh or swamp

_

Maisir Or Swaii

衆

Mine or Quarry

Miscellaneous Water

0

Perennial Water

0

Rock Outcrop

+

Saline Spot

...

Sandy Spot

Severely Eroded Spot

٥

Sinkhole

Ø

Sodic Spot

Slide or Slip

Spoil Area



Stony Spot

Δħ

Very Stony Spot

8

Wet Spot Other

_

Special Line Features

Water Features

_

Streams and Canals

Transportation

ıransp

Rails

~

Interstate Highways

_

US Routes

 \sim

Major Roads

~

Local Roads

Background

Marie Control

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Salt Lake Area, Utah Survey Area Data: Version 15, Aug 29, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 5, 2018—Sep 14, 2018

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
De	Deckerman fine sandy loam, 0 to 1 percent slopes	45.1	16.1%
Dk	Deckerman loam, strongly saline, sodic, 0 to 1 percent slopes	0.2	0.1%
Du	Dumps	46.8	16.7%
Lk	Leland fine sandy loam, 0 to 1 percent slopes	105.3	37.6%
Sa	Saltair silty clay loam, 0 to 1 percent slopes	60.9	21.8%
W	Water	21.5	7.7%
Totals for Area of Interest	'	279.7	100.0%

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.

Salt Lake Area, Utah

De—Deckerman fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: j6hb Elevation: 4,200 to 4,300 feet

Mean annual precipitation: 14 to 18 inches Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 160 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Deckerman and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Deckerman

Setting

Landform: Flood plains, lake plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium and/or lacustrine deposits

Typical profile

A11&A12 - 0 to 6 inches: fine sandy loam

C1 - 6 to 12 inches: loam C2ca - 12 to 20 inches: loam C3 - 20 to 35 inches: sandy loam C4 - 35 to 43 inches: loam

IIC5 - 43 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat poorly drained

Runoff class: Low

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: About 24 to 42 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)

Sodium adsorption ratio, maximum: 60.0

Available water supply, 0 to 60 inches: Moderate (about 6.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: D

Ecological site: R028AY001UT - Alkali Bottom (Alkali Sacaton)

Hydric soil rating: No

Minor Components

Saltair

Percent of map unit: 5 percent Landform: Lake terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R028AY132UT - Desert Salty Silt (Iodinebush)

Hydric soil rating: Yes

Lasil

Percent of map unit: 5 percent

Ecological site: R028AY001UT - Alkali Bottom (Alkali Sacaton)

Dk—Deckerman loam, strongly saline, sodic, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: j6hd Elevation: 4,200 to 4,300 feet

Mean annual precipitation: 14 to 18 inches
Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 160 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Deckerman and similar soils: 90 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Deckerman

Setting

Landform: Lake plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Alluvium and/or lacustrine deposits

Typical profile

A11&A12 - 0 to 6 inches: loam C1 - 6 to 12 inches: loam C2ca - 12 to 20 inches: loam C3 - 20 to 35 inches: sandy loam C4 - 35 to 43 inches: loam

IIC5 - 43 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Runoff class: Low

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: About 24 to 42 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Maximum salinity: Strongly saline (16.0 to 60.0 mmhos/cm)

Sodium adsorption ratio, maximum: 60.0

Available water supply, 0 to 60 inches: Low (about 3.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: D

Ecological site: R028AY001UT - Alkali Bottom (Alkali Sacaton)

Hydric soil rating: No

Minor Components

Saltair

Percent of map unit: 5 percent

Landform: Lake terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R028AY132UT - Desert Salty Silt (Iodinebush)

Hydric soil rating: Yes

Lasil

Percent of map unit: 5 percent

Ecological site: R028AY001UT - Alkali Bottom (Alkali Sacaton)

Du—Dumps

Map Unit Setting

National map unit symbol: j6hg Elevation: 4,200 to 9,000 feet

Farmland classification: Not prime farmland

Map Unit Composition

Dumps: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Lk—Leland fine sandy loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: j6k0 Elevation: 4,200 to 4,250 feet

Mean annual precipitation: 14 to 18 inches Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 160 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Leland and similar soils: 85 percent *Minor components:* 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Leland

Setting

Landform: Lake plains

Landform position (three-dimensional): Rise, talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Lacustrine deposits

Typical profile

A2 - 0 to 8 inches: fine sandy loam
B21t - 8 to 15 inches: sandy clay loam
B22tca - 15 to 19 inches: clay loam
B3ca - 19 to 28 inches: clay loam
C1 - 28 to 35 inches: silty clay loam
IIC2 - 35 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat poorly drained

Runoff class: Medium

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: About 30 to 48 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Maximum salinity: Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)

Sodium adsorption ratio, maximum: 60.0

Available water supply, 0 to 60 inches: Low (about 5.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: D

Ecological site: R028AY001UT - Alkali Bottom (Alkali Sacaton)

Hydric soil rating: No

Minor Components

Lasil

Percent of map unit: 4 percent

Ecological site: R028AY001UT - Alkali Bottom (Alkali Sacaton)

Deckerman

Percent of map unit: 4 percent

Saltair

Percent of map unit: 4 percent Landform: Lake terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Ecological site: R028AY132UT - Desert Salty Silt (Iodinebush)

Hydric soil rating: Yes

Terminal

Percent of map unit: 3 percent

Sa-Saltair silty clay loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: j6kn Elevation: 4,200 to 4,250 feet

Mean annual precipitation: 14 to 18 inches Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 160 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Saltair and similar soils: 95 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Saltair

Setting

Landform: Lake terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Lacustrine deposits

Typical profile

H1 - 0 to 1 inches: silty clay loam H2 - 1 to 4 inches: silty clay loam H3 - 4 to 8 inches: silty clay loam H4 - 8 to 12 inches: silty clay loam

H5 - 12 to 40 inches: silty clay loam H6 - 40 to 57 inches: fine sandy loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Runoff class: Very high

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: About 0 to 12 inches Frequency of flooding: NoneOccasional

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Gypsum, maximum content: 2 percent

Maximum salinity: Strongly saline (100.0 to 250.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1,000.0

Available water supply, 0 to 60 inches: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydrologic Soil Group: D

Ecological site: R028AY132UT - Desert Salty Silt (Iodinebush)

Hydric soil rating: Yes

Minor Components

Jordan

Percent of map unit: 5 percent

Ecological site: R028AY004UT - Alkali Flat (Black Greasewood)

W-Water

Map Unit Composition

Water: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

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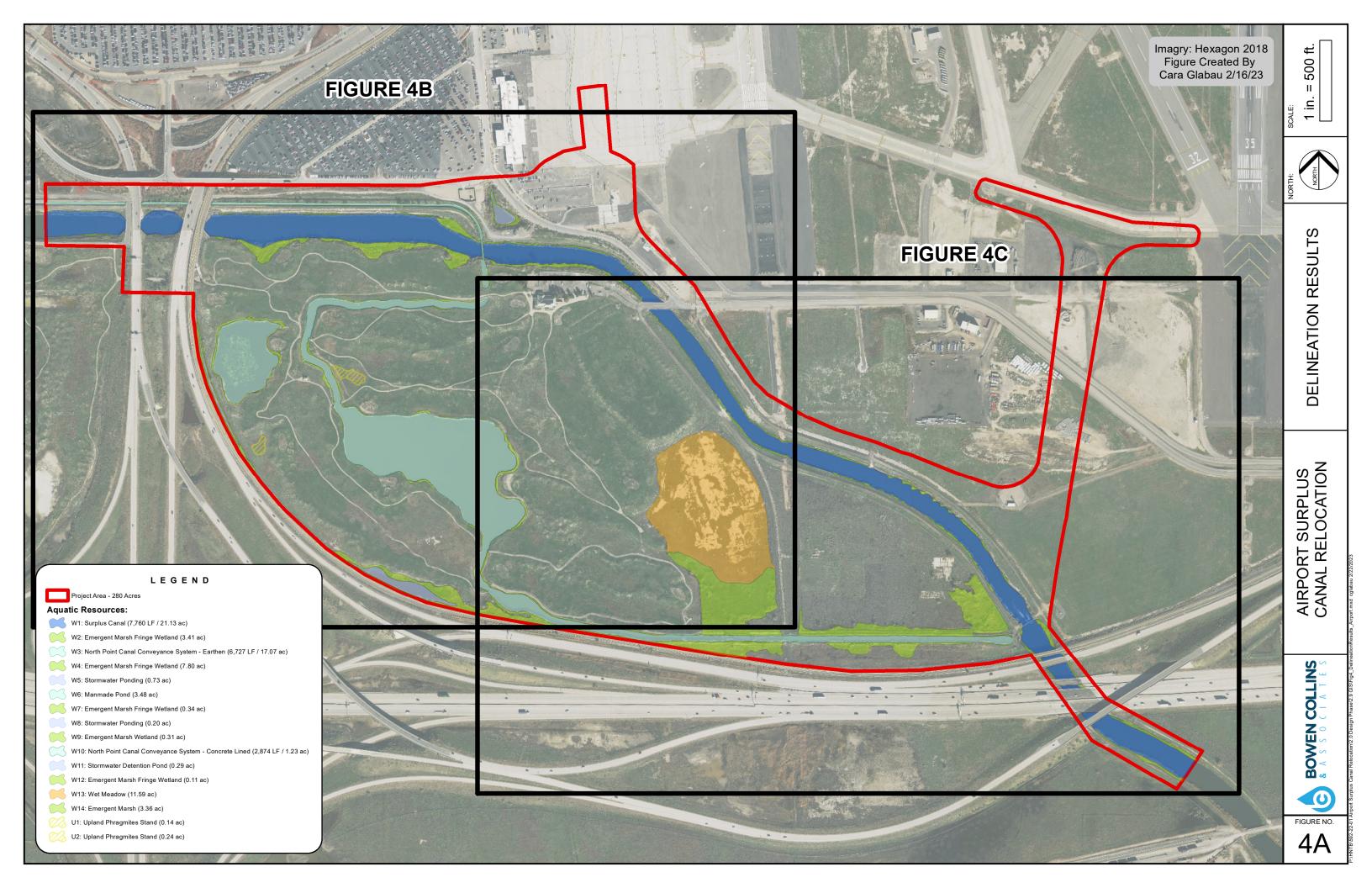
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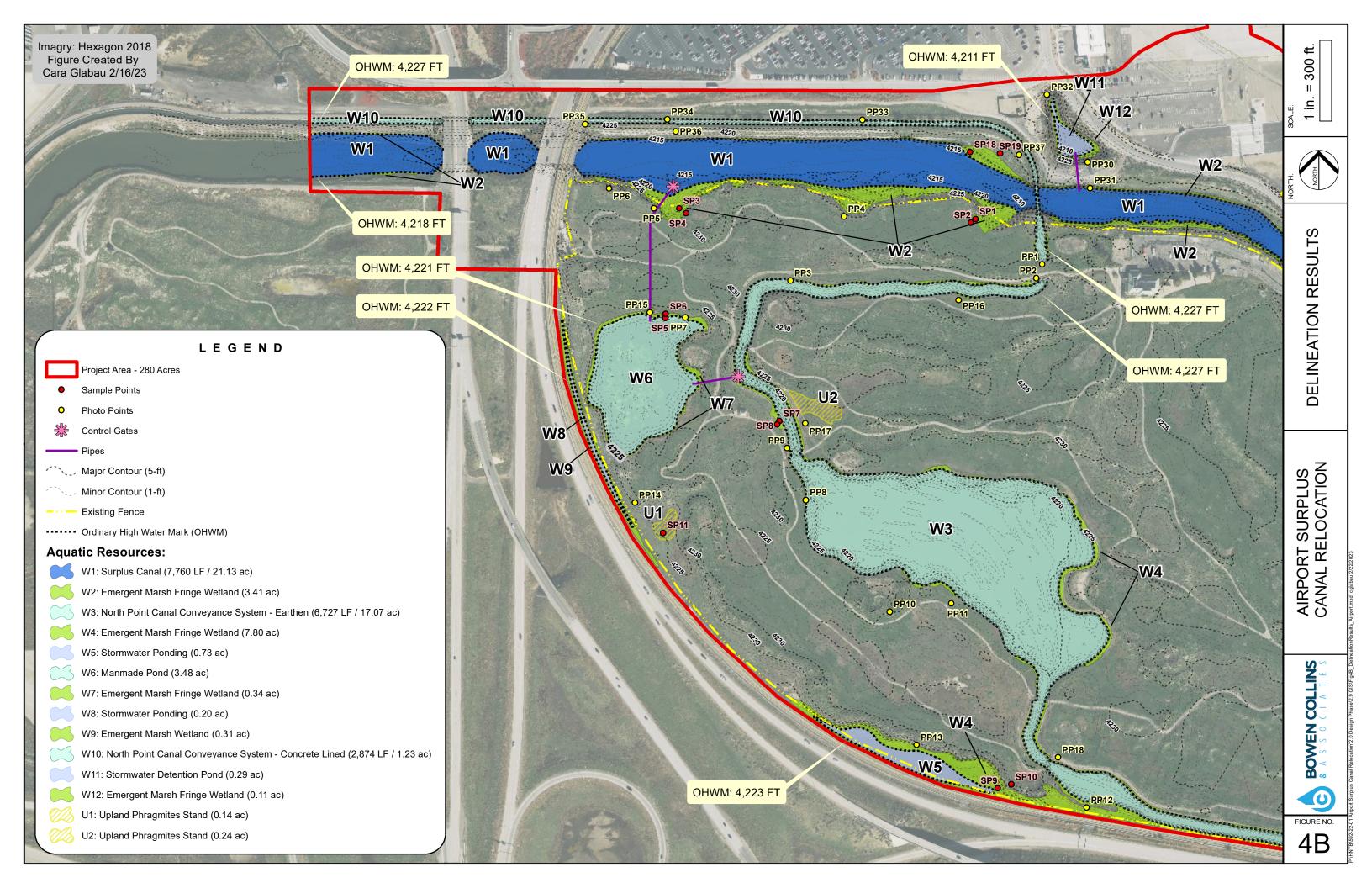
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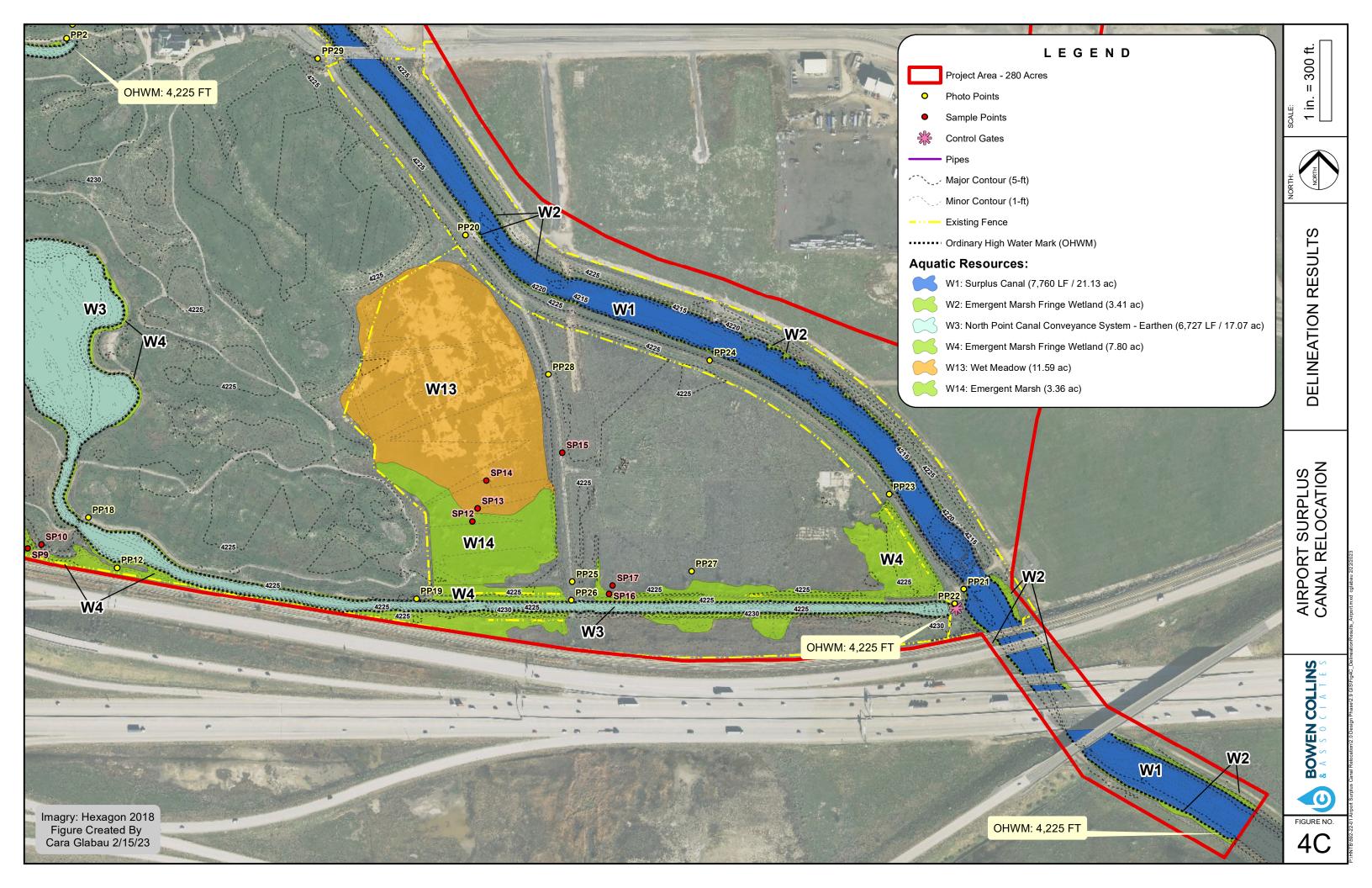
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Appendix E

Delineation Results Figures

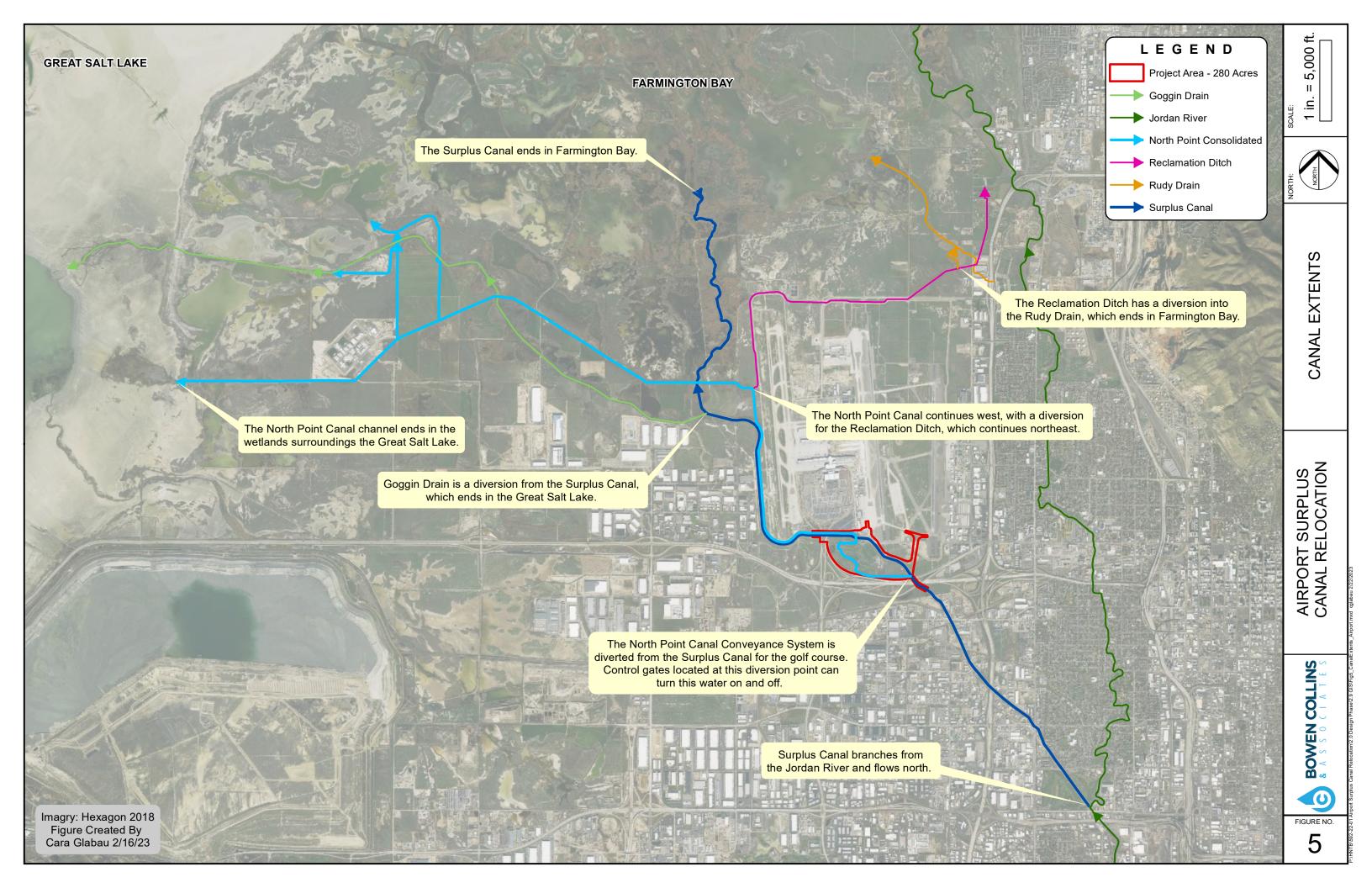






Appendix F

Canal Extents Figure



Appendix G

Aquatic Resources Spreadsheet

Airport Surplus Project Aquatic Resources

Waters Name	State	Cowadin Code	HGM Code	Measurement Type	Amount	Units	Waters Type	Latitude	Longitude	Local Waterway
W1	Utah	R2UBGx	RIVERINE	Length	7760	Feet	TNW	40.769964	-111.975989	Surplus Canal
W2	Utah	PEM5C	RIVERINE	Area	3.41	Acres	TNWW	40.770365	-111.976411	Emergent Marsh Fringe Wetland
W3	Utah	PUBGx	RIVERINE	Area	17.07	Acres	RPW	40.768327	-111.97905	North Point Canal Conveyance System - Earthen
W4	Utah	PEM5C	RIVERINE	Area	7.80	Acres	RPWWD	40.766498	-111.97393	Emergent Marsh Fringe Wetland
W5	Utah	PUBE	DEPRESS	Area	0.73	Acres	RPWWD	40.766548	-111.980935	Seasonal Pond
W6	Utah	PUBHx	DEPRESS	Area	3.48	Acres	RPW	40.770396	-111.984537	Pond
W7	Utah	PEM5C	DEPRESS	Area	0.34	Acres	RPWWD	40.770487	-111.984347	Emergent Marsh Fringe Wetland
W8	Utah	PUBE	DEPRESS	Area	0.20	Acres	RPWWD	40.769858	-111.985209	Seasonal Pond
W9	Utah	PEM5E	DEPRESS	Area	0.31	Acres	RPWWD	40.769773	-111.985129	Emergent Marsh Wetland
W10	Utah	R2UBGx	RIVERINE	Length	2874	Feet	RPW	40.772848	-111.983115	North Point Canal Conveyance System - Concrete Lined
W11	Utah	PAB1F	DEPRESS	Area	0.29	Acres	NRPW	40.772863	-111.978795	Stormwater Detention Pond
W12	Utah	PEM5C	DEPRESS	Area	0.11	Acres	NRPWW	40.772893	-111.978759	Emergent Marsh Fringe Wetland
W13	Utah	PEM1E	RIVERINE	Area	11.59	Acres	RPWWN	40.767909	-111.974113	Wet Meadow
W14	Utah	PEM5E	DEPRESS	Area	3.36	Acres	RPWWN	40.76642	-111.973649	Emergent Marsh Wetland
U1	Utah	U	DEPRESS	Area	0.14	Acres	UPLAND	40.768897	-111.984188	Phragmites Stand (No Hydrology)
U2	Utah	U	DEPRESS	Area	0.24	Acres	UPLAND	40.770117	-111.982166	Phragmites Stand (No Hydrology)

Appendix H

Additional Photos



Photo Point 1



Photo Point 2



Photo Point 3



Photo Point 3

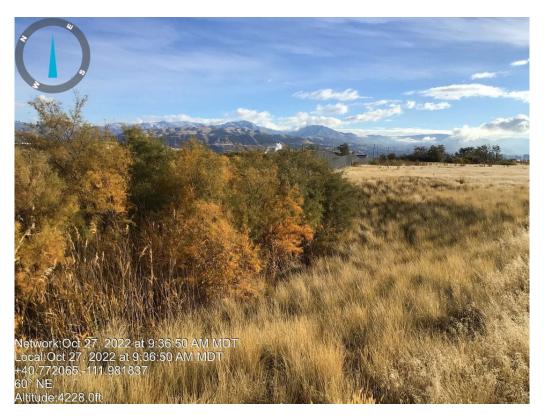


Photo Point 4



Photo Point 4

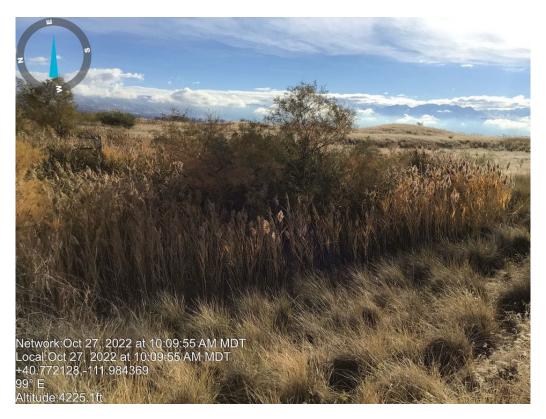


Photo Point 5



Photo Point 5



Photo Point 6



Photo Point 7



Photo Point 7



Photo Point 8



Photo Point 8



Photo Point 9



Photo Point 9



Photo Point 10

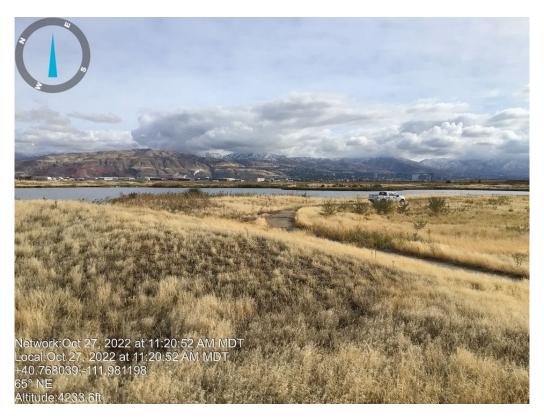


Photo Point 10



Photo Point 11



Photo Point 11



Photo Point 12 -



Photo Point 12



Photo Point 12



Photo Point 13



Photo Point 13



Photo Point 14

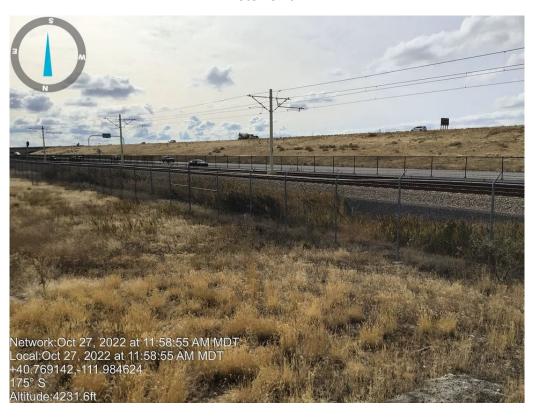


Photo Point 14



Photo Point 15

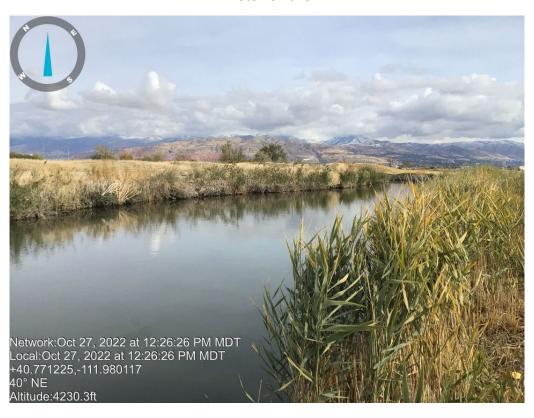


Photo Point 16



Photo Point 17



Photo Point 17



Photo Point 17



Photo Point 18



Photo Point 18



Photo Point 19



Photo Point 19



Photo Point 19

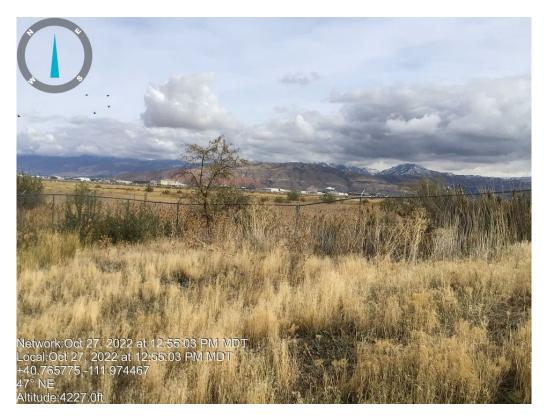


Photo Point 19



Photo Point 20



Photo Point 20



Photo Point 21



Photo Point 21



Photo Point 21



Photo Point 22



Photo Point 22



Photo Point 22



Photo Point 23



Photo Point 23

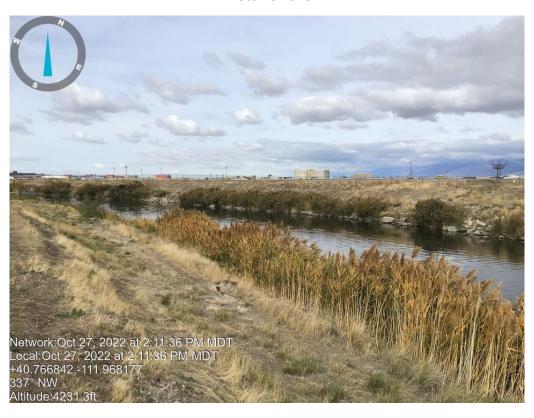


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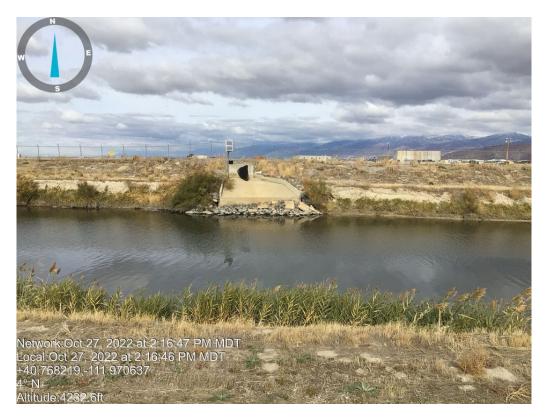


Photo Point 24



Photo Point 24



Photo Point 25



Photo Point 25



Photo Point 25



Photo Point 25



Photo Point 26



Photo Point 26



Photo Point 27



Photo Point 27



Photo Point 27



Photo Point 27



Photo Point 28



Photo Point 28

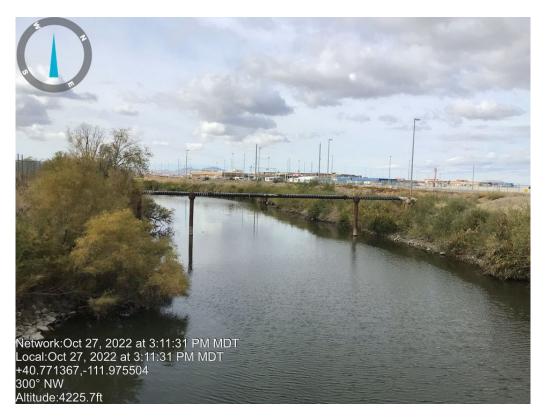


Photo Point 29



Photo Point 30



Photo Point 31



Photo Point 31



Photo Point 32



Photo Point 33



Photo Point 33

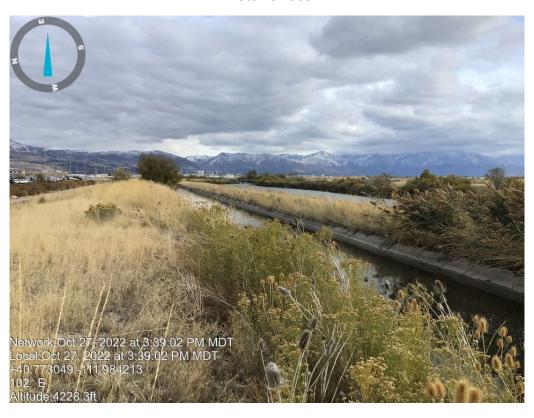


Photo Point 34



Photo Point 34



Photo Point 35

Airport Surplus Canal Relocation



Photo Point 36

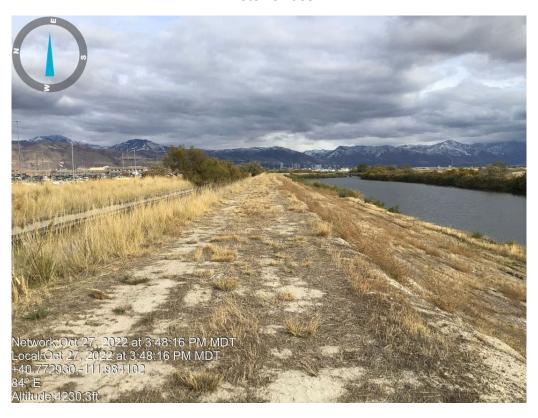


Photo Point 36

Airport Surplus Canal Relocation



Photo Point 37



Photo Point 37

Appendix I

Golf Course Irrigation Plans

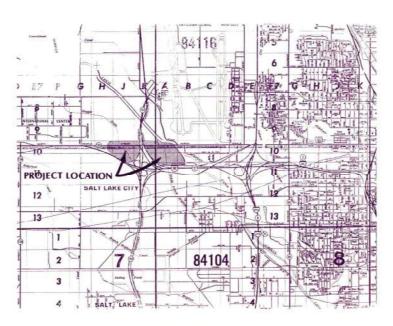
SALT · LAKE · CITY · PARKS · AND · RECREATION

SALT LAKE CITY AIRPORT GOLF COURSE

DRAINAGE, IRRIGATION & FINISH WORK

JANUARY, 1989

S.L.C. PROJECT NO. 19-Y-116-4



INDEX

SHEET NO.	TITLE			
0	COVER SHEET			
1	FINISH GRADING			
2	DRAINAGE			
3	IRRIGATION ROUTING			
4	IRRIGATION, ELECTRICAL ROUTING			
	AND SIZING			
5	IRRIGATION CONTROL			
6	DETAIL SHEET			
7	CART PATH ROUTING			
8	GRASSING			

PROJECT MAP

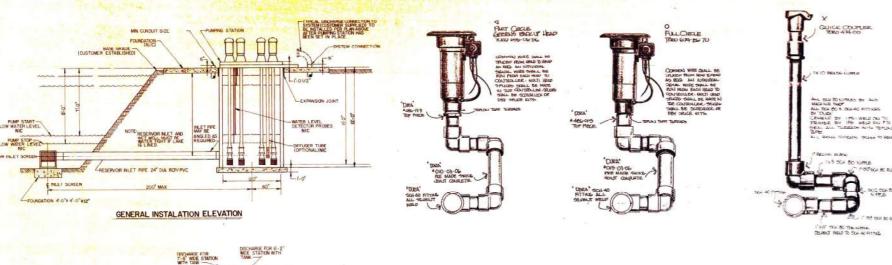
MAYOR PALMER A DEPAULIS

CITY COUNCIL DIST I FLORENCE BITTNER
DIST 2 L. WATHE HORROCKS
DIST 4 ALAN HARDMAN
DIST 5 THOMAS M. GOOFFEY
DIST 6 ROSELYN N. KIRK
DIST 7 WM. STOLER





DESIGN ENGINEER	PLAN REVIEW	LEPT OF PUBLIC 1 1ES	PLANNING & ZONING	DIRECTOR OF FARKS & HECREATION	CITY
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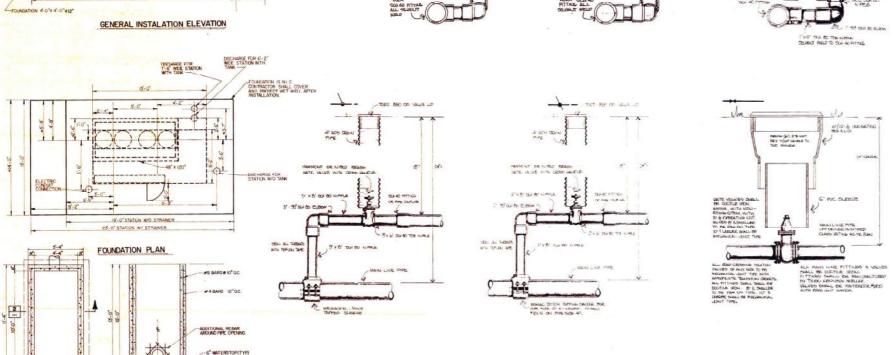
COMPACTED SOL.
TO 95% OF MAX.
STANDARD DENSITY
SECTION 2

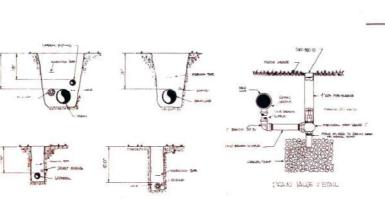
WETWELL DETAIL D

SECTION

MESH MAT STAINLESS STEEL 304 92E VE'SIGF SZE OPENING , NO 1 LOOD FRAME STAINLESS STEEL

RESERVOIR INLET SCREEN





TYPICAL TRENCHING DETAIL

Senson Notes

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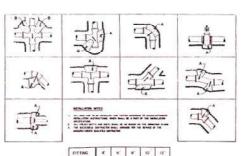
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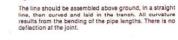
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Appendix J

Signed Access Waiver

Official Property Access Waiver

The Salt Lake City International Airport hereby allows U.S. Army Corps of Engineers personnel to enter the property described in the attached delineation report for the Airport Surplus Canal Relocation Project to collect samples as needed. Due to the existing fence around a majority of the project area, coordination with Airport personnel for property access through locked gates may be required.

Name:	Patty Nelis
Title.	Airport Environmental Manager
Title:	All port Environmental Manager
Signatu	ire:
Date:	
Phone ?	Number: (801) 575-2400