Temporary Permit for Working in Waters
Site ID: NVW-55341
Project Name: Thomas Creek Reach 1

Date: 4/16/2025

Owner: South Meadows Association

Tarciana Oliveira
1475 Terminal Way, Suite A

Reno NV 89502

Operator: South Meadows Association

Tarciana Oliveira
1475 Terminal Way, Suite A

Reno NV 89502

Renew NO *** If this is a Renewal Application, NO filing fee is required.**

Submission of this Electronic Notice of Intent constitutes notice that the Permittee identified in this request intends to be authorized by a permit issued by the State of Nevada and has or will comply with the following:

1. The Permittee will comply with all applicable permit conditions,
2. The Permittee understands that implementation of all controls required under by a General Permit will begin at the time the permittee commences work on the project identified in this application;
3. The Permittee understands that failure to submit the required $350.00 fee and this signed Certification Page within 30 days of the electronic submittal will result in failure for eligible coverage under the General Permit; and,
4. That Nevada Administrative Code (NAC) 445A requires that a Permittee (discharger) who is covered under a general permit shall pay to the Director/Division an annual services fee on or before July 1 of each year that the discharger is covered under that permit; and,
5. To terminate coverage of a General Permit, the Permittee must submit a Notice of Termination ("NOT") form when their facility no longer has any discharges associated with the site identified in this application for General Permit coverage.

Please submit payment online at https://epayments.ndep.nv.gov/ OR
mail the filing fee of $350.00 along with this notice to:
Bureau of Water Pollution Control
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, NV 89701-5249

For General Stormwater questions, please call 775-687-9442.
For questions regarding other general permits please call 775-687-9492.

Project located in whole or in part on tribal lands: No

NOI Certification Statement

"I hereby certify that I am familiar with the information contained in the application and that to the best of my knowledge and ability such information is true, complete, and accurate."

Print Owner or Operator Name: TARCIANA OLIVEIRA

Print Title: ASSOCIATION MANAGER

Signature (Please use a Non-Black Ink Color):

Any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained by the provisions of Nevada Administrative Code (NAC) 445A, or by any permit, rule, regulation, or order issued pursuant thereto, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the provisions of Nevada Administrative Code (NAC) 445A, inclusive, or by any permit, rule, regulation, or order issued pursuant thereto, is guilty of a gross misdemeanor and shall be punished by a fine of not more than $10,000 or by imprisonment in the county jail for not more than 1 year, or by both fine and imprisonment.

Attachmed File: N/A

Keep The Below Entered Information As Your Record

(New Permit: NVW-55341)

****

General Permit Questions

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1. Name and scope of project – Provide a narrative description or a mini work plan providing the nature and scope of the project to include:

a) The purpose of the project and what it involves.

Thomas Creek, Reach 1:: Purpose of project is to restore and maintain flow capacity and ecological function within the Thomas Creek Channel (Reach 1) by removing accumulated debris and sediment to reduce localized flooding, prevent erosion, and improve aquatic habitat.

b) The type of equipment to be used, how it will be operated and in which location(s)

Tracked mini-excavators and backhoes will be used from the top of the bank along Reach 1 of the Thomas Creek. No equipment is anticipated to enter the water.

c) A description of the site and its physical location

The project is located within the Thomas Creek channel between I-580 Northbound on-ramp and Gateway Drive in South Reno. Specific reach of project area, will starts at culvert at Gateway Drive, to 200 LF upstream. Channel is in moderate vegetated condition, and is a mostly linear channel. Drainage and Gradient is low.

d) A description of the work to be performed – where and how

All work will occur from the bank. BMPs will include daily monitoring, silt fencing, straw wattles, and avoidance of in-channel equipment use. Revegetation will occur post-disturbance. The project will be conducted in accordance with NDEP and USACE guidelines to minimize erosion, prevent sediment transport, and protect downstream water quality.

2. Attach at the end of this submittal a Topographic map showing the general area of the project site where work in the waterbody(s) will be Conducted.

3. Attach at the end of this submittal a Site plan of the proposed area showing the site specific location and details of specific work elements planned for the project.

4. Best management practices plan - A description of the site and its physical location:

All work will occur from the bank. BMPs will include daily monitoring, silt fencing, straw wattles, and avoidance of in-channel equipment use. Revegetation will occur post-disturbance. The project will be conducted in accordance with NDEP and USACE guidelines to minimize erosion, prevent sediment transport, and protect downstream water quality.

****

Section 1

****

Facility / Site Information

Site Name: **Thomas Creek Reach 1**

Address Line 1: **(Nearest Addressed Building) 9795 Gateway Dr**

Address Line 2:

City / State / Zipocde: **Reno, NV 89521-____**

Contact Name (Phone #): **Mr.Matt Settty (7755441149)**

Email: **matt@nvenv.net**

Name of Receiving Water and /or Description of Discharge Location: **Thomas Creek Channel (tributary of Steamboat Creek / Truckee River)**

Frequency of Discharge: **Unlikely**

Estimated Begin - End Date: **04/25/2025 - 05/25/2025**

Location / GIS Information

Assessor's Parcel Number (APN): **163-062-13**

County(ies): **Washoe**

****

Section 2, 3 And 4

****

Owner Name and Address

Is the Owner the Permittee? - **YES**

Owner Name: **South Meadows Association**

Address Line 1: **1475 Terminal Way, Suite A**

Address Line 2:

City / State / Zipocde: **Reno, NV 89502**

Contact Name: **Ms.Tarciana Oliveira**

Contact Phone #: **775-737-7308**

Taxpayer ID (TIN): **880333839**

Legal Status: **Private**

Operator Name and Address

Is the Operator the Permittee? - **NO**

Operator Name: **South Meadows Association**

Address Line 1: **1475 Terminal Way, Suite A**

Address Line 2:

City / State / Zipocde: **Reno, NV 89502**

Contact Name: **Ms.Tarciana Oliveira**

Contact Phone #: **775-737-7308**

Taxpayer ID (TIN): **880333839**

Legal Status: **Private**

Billing/Invoicing

Send Annual Billing/Invoicing Information to: **Owner**

Attachments

Attached File Name: **N/A**

Attachment C – *USACE Application & Aquatic Delineation*

Print Form | Save As

U.S. Army Corps of Engineers (USACE)

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

For use of this form, see 33 CFR 325. The proponent agency is CECW-COR.

Form Approved - OMB No. 0710-0003 Expires: 2027-10-31

The public reporting burden for this collection of information, OMB Control Number 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. PLEASE DO NOT RETURN YOUR APPLICATION TO THE ABOVE EMAIL.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned. System of Record Notice (SORN). The information received is entered into our permit tracking database and a SORN has been completed (SORN #A1145b) and may be accessed at the following website: http://dpcld.defense.gov/Privacy/SORNsIndex/DOD-wide-SORN-Article-View/Article/570115/a1145b-ce.aspx

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required)
First - Tarciana Middle - Last - Oliveira	First - Matt Middle - Last - Setty
Company - South Meadows Association, Suite A	Company - Nevada Environmental Consulting, LLC. (NVENV)
E-mail Address - toliveira@NCSreno.com	E-mail Address - matt@nvenv.net
6. APPLICANT'S ADDRESS:	**9. AGENT'S ADDRESS:**
Address- 1475 Terminal Way	Address- 316 California Ave. #763
City - Reno State - NV Zip - 89502 Country - USA	City - Reno State - NV Zip - 89509 Country - USA
7. APPLICANT'S PHONE NOs. w/AREA CODE	**10. AGENTS PHONE NOs. w/AREA CODE**
a. Residence b. Business c. Fax	a. Residence b. Business c. Fax
- 775-737-7308 -	- 775-544-1149 -

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Matt Setty of NVENV to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

SIGNATURE OF APPLICANT — DATE: 2025-04-15

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions)
Thomas Creek Reach 1, Maintenance and Restoration

13. NAME OF WATERBODY, IF KNOWN (if applicable)	14. PROJECT STREET ADDRESS (if applicable)
Thomas Creek	Address Closest Building (Extended Suites): 9795 Gateway Dr
15. LOCATION OF PROJECT	City - Reno State- NV Zip- 89521
Latitude: °N 39° 26'24.94 Longitude: °W 119°45'43.67	

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)
State Tax Parcel ID 163-062-13 Municipality Washoe County
Section - 8 Township - 18 n Range - 20 e

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17. DIRECTIONS TO THE SITE

To access the project site, from Interstate 80, take U.S Route 580 southbound and continue for approximately 8.7 miles. Exit at South Meadows Parkway (Exit 28) and proceed east onto South Meadows Parkway. Continue for ~.12 miles to Gateway Drive. turn left to travel north for approximately 0.3 miles. The site access point is located on the left, within the parking area of the Extended Stay America – South Meadows.

18. Nature of Activity (Description of project, include all features)

To conduct restoration maintenance within Reach #1 of the Thomas Creek Channel to remove accumulated sediment and debris, regrade eroded areas, and stabilize the channel banks to improve flow conveyance and habitat function. Activities will be conducted from the top of the bank using tracked mini-excavators or similar equipment. No equipment is anticipated to enter the channel. Features of the project include sediment removal, minor regrading, erosion repair, and revegetation with native species. All work will occur within a 100-foot section of the creek upstream of the Gateway Drive culvert.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

Project purpose is to restore and maintain flow capacity and ecological function in the Thomas Creek Channel, by removing accumulate debris and sediment to prevent localized flooding and support future habitat enhancement.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

Discharge will be limited to minor turbidity resulting from active construction and maintenance activities. BMPs will be implemented to minimize any potential impacts to water quality.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
~695		

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres

or

Linear Feet 200

23. Description of Avoidance, Minimization, and Compensation (see instructions)

Compensation is not anticipated to be necessary. Avoidance measures include keeping all machinery on the top / middle of bank and out of the active channel. In the event that sediment enters the waterway (considered the potential discharge), silt fencing and other best management practices (BMPs) will be implemented to contain and minimize impacts.

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24. Is Any Portion of the Work Already Complete? Yes [X] No IF YES, DESCRIBE THE COMPLETED WORK

NA

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address- 9795 Gateway Drive (Extended Stay America)

City - Reno State - NV Zip - 89521

b. Address- 9845 Gateway Drive (Sonesta ES Suites)

City - Reno State - NV Zip - 89521

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-

City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
NDEP	Working in Waters	PENDING	2025-04-15		

* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT — DATE: 2025-04-16

SIGNATURE OF AGENT — DATE: 2025-04-16

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.

DRAFT AQUATIC RESOURCE DELINEATION REPORT

Thomas Creek, South Meadows Association-Reach One
March 26, 2025
Resubmitted May 30, 2025

Prepared By:

Devin Alston, Wetland Delineation Certified, Wetland Scientist
Nevada Environmental Consulting, LLC., Reno, Nevada
316 California Ave. #763, Reno, Nevada 89509
702-343-7795
devin@nvenv.net

Matthew Setty, Principal Scientist
Nevada Environmental Consulting, LLC., Reno, Nevada
316 California Ave. #763, Reno, Nevada 89509
775-544-1149
matt@nvenv.net

Prepared For:

Tarciana Oliveira
South Meadows Association
1475 Terminal Way, Suite A, Reno, Nevada 89502
775-737-7308
toliveira@NCSreno.com

Executive Summary

On March 26, 2025, Nevada Environmental Consulting, LLC. visited the Thomas Creek site at 39° 26’24.94 N, 119°45’43.67 W to perform a delineation of aquatic resources. The biologist surveyed within the site for any aquatic resources, searching for indicators of any potential wetlands in accordance with the 1987 Corps of Engineers Wetlands Delineation Manual and the Arid West Regional supplement (Version 2.0) (USACE). Additionally, this delineation has been conducted in accordance with the 2008 “A Field Guide to the Identification of the Ordinary High-Water Mark (OHWM). The dominant aquatic resource classifications observed were riverine and these features were observed in moderate condition under normal conditions for this time of year.

I hereby attest that this report is complete and accurate to the best of my knowledge. All findings and documentation were developed directly from field investigation through final reporting by the undersigned.

Devin Alston
Wetland Scientist
March 26, 2025

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Appendices

Acronyms and Abbreviations

BMP	Best Management Practices
CFS	Cubic Feet per Second
FAC	Facultative
FACU	Facultative Upland
FACW	Facultative Wetland
LIDAR	Light Detection and Ranging
LWD	Large Woody Debris
MP	Mile Post
NI	Wetland Indicator Status not known in this region
NRCS	Natural Resource Conservation Service
NWI	National Wetland Inventory
NWPL	National Wetland Plant List
OBL	Obligate
OHWM	Ordinary High Water Mark
PEM	Palustrine Emergent
PFO	Palustrine Forested
PSS	Palustrine Scrub-Shrub
ROW	Right-of-Way
SR	State Route
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service
UTM	Universal Transverse Mercator coordinate system
WRIA	Water Resource Inventory Area

Chapter 1. Introduction

1.1 Purpose

The purpose of this report is to identify and describe aquatic resources and to identify known possible sensitive plant, fish, wildlife species, and cultural/historic properties in the survey area to support a planned restoration and maintenance effort within Thomas Creek, including vegetation management, sediment removal and habitat enhancement. This report facilitates efforts to:

a) Avoid or minimize impacts to aquatic resources during the design process
b) Document aquatic resource boundary determinations for review by regulatory authorities
c) Provide early indications of known sensitive species and historic/cultural properties within the survey area
d) Provide background information

1.2 Contact Information

Applicant	**Property Owner**	**Agent**
Nevada Commercial Services, Inc.	Nevada Commercial Services, Inc.	Nevada Environmental Consulting, LLC.
South Meadows Association 1475 Terminal Way, Suite A Reno, Nevada 89502 775-737-7308 toliveira@NCSreno.com	South Meadows Association 1475 Terminal Way, Suite A Reno, Nevada 89502 775-737-7308 toliveira@NCSreno.com	Matthew Setty 316 California Ave. #763 Reno, Nevada 89509 775-544-1149 matt@nvenv.net

1.3 Survey Area Description

The 1-acre survey area consists of approximately 0.26 acres and 200 linear feet of delineated aquatic resources of the Thomas Creek Channel located in Reno, Nevada. A total of one aquatic resource was identified within the project area, classified as “riverine” and perennial. Conditions at time of survey were observed to be in average conditions under typical seasonal patterns. The specific reach for project survey area begins 200 linear feet upstream of the culvert crossing beneath Gateway Drive.

The surrounding landscape is part of a developed urban corridor, bordered by mid-rise commercial buildings and associated surface parking areas. Geographically, the site lies within the Basin and Range region and is underlain by silty alluvial deposits common to the region. The topography is low-relief, with gentle slopes allowing water to flow west-to-east. The watercourse flows in a predominantly linear alignment in this section of the reach, exhibiting a slight meander near the Gateway drive culvert.

Vegetation is sparse and disturbed. Dense populations of White Top (*Lepidium draba*) were observed along the banks, extending until interrupted by pavement and infrastructure. At the southwestern edge of the site, near the adjacent facility boundary, few ornamental species of Oregon Grape (*Berberis aquifolium*) and one Woods’ Rose (*Rosa woodsia*) were present. Additionally, ducks were observed floating downstream during the survey, indicating typical habitat usage for this area.

Chapter 2. Location

2.1 Site Location

The project site is identified as Assessor's Parcel Number (APN) 163-062-13, and is located at Section 8, Township 18 North, Range 20 East (S8, T18N, R20E) in Reno, Nevada 89521; coordinates 39° 26'24.94 N, 119°45'43.67 W.
Project is located between Gateway Drive and Double R Boulevard in south Reno. A formal address is not assigned to the parcel, but the location lies between two commercial properties (Extended Stay America, 9795 Gateway Drive, Reno, NV 89521, and Sonesta ES Suites, 9845 Gateway Drive, Reno, NV 89521).

2.2 Driving Directions to Site

To access the project site from Interstate 80, take U.S. Route 580 southbound and continue for approximately 8.7 miles. Exit at South Meadows Parkway (Exit 28) and proceed east onto South Meadows Parkway. Continue for ~.12 miles to Gateway Drive. turn left to travel north for approximately 0.3 miles. The site access point is located on the left, within the parking area of the Extended Stay America – South Meadows.

Chapter 3. Methodology

3.1 Overview

This delineation was conducted in accordance with the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual and the Arid West Regional Supplement (Version 2.0).
Standard field methods were employed, including soil pit sampling at four locations along the Thomas Creek, with two soil pits per site, one in the lowland wetland area, referenced as "wetland," and the other being in the dry, upland area, referenced as "upland."
Additionally, vegetation profiles were recorded and assessed using standard dominance / prevalence index tests to evaluate the presence or absence of hydrophytic vegetation.
Supporting data for both soil assessment and vegetation profile can be found in Chapter 4, under Section 4.4 Site Ecology and Vegetation Profile and 4.5 Soil Profile.

3.2 Ordinary High Water Mark Analysis

In addition to the standard delineation protocols, an Ordinary High Water Mark analysis was conducted using cross-section transects spaced every 20 feet along the Thomas Creek survey area. At each transect, OHWM indicators were identified on the north and south sides of the bank to conclude jurisdictional boundary within the creek. Boundaries were determined by visual cues of OHWM, as well as data from methods discussed in the previous section, 3.1 Overview.

3.3 Application of Remote Sensing Tools

Remote sensing tools, including the use of aerial drone orthography were used to further support the delineation survey.

Chapter 4. Existing Conditions

4.1. Historic Land Usage

Prior to European settlement, the area was inhabited by the Wašišiw (Washoe) Tribe, as evidenced by the presence of petroglyphs and other cultural resources throughout the region. Historical records also indicate that the surrounding canyonlands were used as a source of timber to support mining operations in the nearby Comstock region. Additionally, fishing was a prominent activity in local waterways. Prior to the area's conversion to residential and commercial use, the landscape supported diverse riparian wildlife, including significant populations of blue herons and active beaver colonies (Washoe County Parks, n.d.)

4.2. Current Land Usage and Hydrology

Geographically, the site lies within the Basin and Range region and is underlain by sandy to silty alluvial deposits common to the region. The site is situated within a low relief area with gentle slopes that direct water surface flow.

At Reach 1, which is the portion of the channel where the project is located, surface flow originates from a culvert that conveys water beneath the northbound off-ramp of Interstate 580. From this point, the channel flows in a predominantly linear, west-to-east alignment, situated between two mid-sized hotels: Extended Stay America – South Meadows to the north and Sonesta ES Suites Reno to the south. Both structures, along with their associated surface parking areas, are developed to the edge of the channel corridor, limiting the width of the riparian buffer zone within this section.

The project footprint includes approximately 200 linear feet of channel between these two commercial structures. Downstream of the project area, the channel continues under Gateway Drive via culvert, proceeds through another culvert crossing at Double R Boulevard, and ultimately discharges into the South Meadows Community Pond.
The surrounding land use between I-580 and South Meadows Parkway consists primarily of mid-rise, mixed-use commercial developments and standalone office buildings. East of Double R Boulevard, the landscape transitions into low-density suburban residential neighborhoods, consistent with planned development patterns in the South Meadows region.

4.3 Aquatic Resources Overview

A total of one aquatic resource (Thomas Creek) was identified within the survey area, measured at 0.26 acres and 200 linear feet in length. The site is located within a developed urban corridor in South Reno and was surveyed under normal conditions, with no drought conditions or precipitation events. The entire project area was verified and surveyed on foot, and all relevant aquatic resources were surveyed.
A single linear feature, the Thomas Creek Reach 1, was identified within the survey area. The channel receives water from a culvert beneath the northbound I-580 off-ramp and flows west to east through the site in a trapezoidal channel. No irrigation or atypical wet features were observed. Flow continues downstream into the Meadows Community Pond which connects to Steamboat Creek, the nearest blue-line waterway identified on the most recent USGS map. Steamboat creek ultimately drains into the Truckee River, a traditionally navigable waterway (TNW).

Mapped aquatic boundaries were determined based on field-observed OHWM indicators collected at 20-foot cross section intervals.

The extent of the delineated aquatic resource is shown in map within Appendix A.

Table 1. Aquatic Resources within the Survey Area

Aquatic Resource Name	**Aquatic Resources Classification**		**Aquatic Resource Size (acre) Required for all resources**	**Aquatic Resource Size (linear feet) Required for all resources**
	Cowardin	**Location (lat/long)**		
Thomas Creek, Reach 1	Riverine	39° 26’24.94 N, 119° 45’43.67 W	0.26	200 LF

4.4. Site Ecology and Vegetation Profile

Vegetation within the survey area was sparse and slightly disturbed, influenced by adjacent property developments, obvious previous maintenance activities, and stormwater control structures. Vegetation data was collected at four sample locations, with two samples taken at each (one upland and one wetland), resulting in a total of eight plots. Most vegetation was ruderal, with a dominance of upland and facultative species, and no wetland species observed.

The most common species identified along the creek was White Top (*Lepidium draba*) (FAC). Other species observed included Oregon Grape (*Berberis aquifolium*) (FACU) and one Woods' Rose (*Rosa woodsii*) (FACU). Common Thistle (*Cirsium vulgare*) (UPL) and Mullein (*Verbascum thapsus*) (UPL) were also observed. Along the creek edge, signs of Willow (*Salix* spp.) (OBL) were observed.

Table 2. Vegetation Profile

Sample ID	**Vegetation Summary with Indicator Status**	**Common Name**	**Indicator Statue**	**Conclusion (Presence of Hydrophytic Vegetation)**
1A (wetland)	*Salix lutea* *Lepidium draba* *Carex nebrascensis*	Willow White Top Nebraska Sedge	**OBL** **FAC** **OBL**	Hydrophytic Vegetation Present
1B (upland)	*Salix lutea* *Lepidium draba*	Willow White Top	**OBL** **FAC**	Hydrophytic NOT Vegetation Present
2A (wetland)	*Salix lutea* *Lepidium draba* *Torilis arvensis*	Willow White Top Hedge Parsley	**OBL** **FAC** **NI**	Hydrophytic Vegetation Present
2B (upland)	*Salix lutea* *Lepidium draba* *Cirsium vulgare* *Verbascum thapsus*	Willow White Top Common Thistle Mullein	**OBL** **FAC** **UPL** **UPL**	Hydrophytic NOT Vegetation Present
3A (wetland)	*Lepidium draba* *Verbascum thapsus*	White Top Mullein	**FAC** **UPL**	Hydrophytic Vegetation Present
3B (upland)	*Lepidium draba* *Cirsium vulgare* *Verbascum thapsus*	White Top Common Thistle Mullein	**FAC** **UPL** **UPL**	Hydrophytic NOT Vegetation Present
4A (wetland)	*Carex nebrascensis*	Nebraska Sedge	**OBL**	Hydrophytic Vegetation Present
4B (upland)	*Lepidium draba* *Rosa woodsii* *Berberis aquifolium*	White Top Woods' Rose Oregon Grape	**FAC** **FACU** **FACU**	Hydrophytic NOT Vegetation Present

4.5 Soil Profile

Surveyor conducted routine soils test to obtain a soil profile description of survey area.

The Natural Resources Conservation Services (NRCS) has mapped two soil units, consisting of "910- Vamp fine sandy loam, slightly saline-alkali," and "911 - Vamp silt loam, strongly saline-alkali" NRCS Soil Survey identified two soil types within survey area.

Table 3. Soil Profile

Sample Plot Point ID	**Soil Matrix**	**Redox Features**	**Type**	**Loc**	**Soil Type**	**Conclusion (Presence of Hydric Soil)**
1A (wetland)	1-6: 10YR 2/1 100% 6-12: 10YR 3/1 100%	N/A N/A	C C	M M	Sandy Clay Loam Sand	Hydric Soil Present
1B (upland)	1-6: 10YR 2/2 100% 6-12: 10YR 2/2 100%	N/A N/A	C C	M M	Clay Loam Clay Loam	Hydric Soil NOT Present
2A (wetland)	1-6: 10YR 2/2 100% 6-12: 10YR 2/2 100%	N/A N/A	C C	M M	Silty Clay Clay	Hydric Soil Present
2B (upland)	1-6: 7.5YR 4/2 100% 6-12: 7.5YR 5/3 100%	N/A N/A	C C	M M	Sand Sand	Hydric Soil NOT Present
3A (wetland)	1-6: 10YR 2.5/1 100% 6-12: 10YR 3/2 100%	N/A N/A	C C	M M	Silty Clay Loam Loamy Sand	Hydric Soil Present
3B (upland)	1-6: 10YR 3/2 100% 6-12: 10YR 3/1 100%	N/A N/A	C C	M M	Sandy Clay Clay Loam	Hydric Soil NOT Present
4A (wetland)	1-6: 10YR 3/2 90% 6-12: 10YR 5/3 100%	7.5 4/6 10% N/A	C C	M M	Sandy Loam Sandy Loam	Hydric Soil Present
4B (upland)	1-6: 7.5YR 6/3 99% 6-12: 7.5YR 4/3 99%	7.5 5/6 1% 7.5 5/6 1%	C C	M M	Sand Sand	Hydric Soil NOT Present

4.6 Ordinary High Water Mark Analysis

The calculation of acreage of potential Water of the US reflects the estimate limits of wetland habitat that borders the watercourse. The OHWM indicators fall within these areas and often are at the limits of the areas, in some portions of the reach, narrow wetland habitat falls outside of the OHWM indicator.

Table 4. Ordinary High Water Mark Analysis

Interval (Distance from Starting Point at Culvert)	**OWHM Width (Bank to Bank) in Feet**
0	16.5 ft
20	17.5 ft
40	29.2 ft
60	56.1 ft
80	44.2 ft
100	19.3 ft
120	14.5 ft
140	17.5 ft
160	18.1 ft
180	14.5 ft
200	15.4 ft

Chapter 5. References

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