

UTAH DIVISION OF WATER QUALITY
195 North 1950 West
PO Box 144870
Salt Lake City, Utah 84114-4870

Non Point Source Financial Assistance Application for Project implementation

Please attach this application as a cover page to your proposal. Address questions 1-11 of this application in a brief 3-5 page proposal with appropriate headings. Be sure to include all required signatures and requested information. Additional information may be requested upon submission of applications.

Applicant Name: Bureau of Land Management, Moab Field Office

Individual Non-Profit Govt. Agency Academic Commercial Other

Co-Applicant Name (if applicable): _____

Individual Non-Profit Govt. Agency Academic Commercial Other

Business Name (if applicable): _____

Mailing Address: 82 Dogwood Ave.

City: Moab State: UT Zip: 84532

Phone: 435 - 259 - 2100 E-mail: sbrussell@blm.gov

Project Title: Grand County Dog Waste Initiative

Project Location (latitude and longitude in decimal degrees): See table 1 and Figure 1 in attachment.

This is a Statewide Project (no coordinates required)

Purpose of grant (please check all applicable):

Water Quality Improvement TMDL Implementation Disaster Mitigation

Manure Management Other On-Site Wastewater

Project Monitoring

TOTAL Funding Requested \$11,487

Other Funding Sources being used (EQIP, GIP, WRI, Local, In-kind labor, or other) to accomplish the project. If all additional funding sources do not fit in the lines below, please include a separate table in the body of your application:

Funding Source	Amount
<u>BLM In Kind Labor</u>	<u>\$22,430</u>
<u>BLM Vehicles</u>	<u>\$840</u>
_____	<u>\$</u> _____
Total Amount of Matching Funding	<u>\$23,270</u>

Total Project Cost (Requested + Matching Funds) **\$34,757**

Project Timeframe: Begin date July 2020 Ending date June 2021

If applicable, is the Waterbody listed on the 303(d) list of impaired water bodies? Yes No

If yes, what pollutant and impaired use is it listed for? Temperature, TDS, E Coli

In a separate document please address the following questions in numbered order. Failure to provide sufficient information will affect the likelihood of receiving project funding:

1. Describe the purpose and need for the project
2. Describe the scope of the project
3. Describe the waterbody affected by the project including its 12-digit watershed code (HUC)
4. Describe all existing watershed plans or TMDLs that the project will help implement
5. Describe the water quality benefits/load reductions to be realized by the project
6. Describe existing project plans and specifications
7. Describe how project effectiveness will be demonstrated
8. List consultants or agency partners that have participated, or will participate in project development (letters of support preferred, but not required)
9. Provide a detailed budget table for the project showing all proposed expenditures. This budget should include all expenditures (i.e., personnel, operating expenses, professional/consulting services, construction, equipment over \$5000, supplies, travel etc.). Be sure to show which expenditures will be covered by the grant funding requested and what will be covered by matching funds including the source of the match.
10. Has the Division of Water Quality awarded funding to the applicant in the past? If so, list the year the grant(s) was awarded, and how much funding was received from DWQ. Please include a brief summary of the project work that was completed, and why additional funding is required

I am willing to: (1) comply with all applicable laws and work with designated technical personnel as assigned to the above-referenced project in preparation of project implementation; (2) submit detailed project information to the Utah Division of Water Quality as requested to evaluate water quality improvements; (3) not to apply any practices which would tend to defeat the purpose of the project; and (4) allow continued monitoring and evaluation of the project activities implemented on my property.

Signature Jennifer L Jones Date 4/7/2020
Applicant

Signature _____ Date _____
Co-Applicant (if applicable)

Answers to questions 1 through 10

1. Describe the purpose and need for the project:

Grand County residents and visitors have not been encouraged to pick-up dog waste. There has never been a concerted effort to provide the dog waste stations and bags necessary for dog waste collection. Agencies that develop and maintain trails have minimally encouraged dog waste collection by including dog waste stations in only a few of their most popular trailheads. This is due to understaffing and the ability to collect waste bags, which remains a challenge. The lack of signs, dog waste stations and accessibility to dog waste bags has cultivated a culture that considers leaving dog waste on public lands acceptable behavior. This project intends to change that perception and make dog waste collection a common practice on public lands. Currently, there are also issues with trash in human waste vaults and human waste on public lands that will also be addressed by this project through appropriate signing.

2. Describe the scope of the project:

This project intends to educate the public about the importance of removing and properly disposing of dog waste. The goal is to change the current social norm of dog waste management by informing the public about why dog and human waste management is critical to water quality as well as health and safety on our public lands. The project intends to install signs and/or dog waste stations at several popular trailheads and public places in Grand County that are popular areas for people who walk dogs. There will also be specific signs (four similar graphic/style and customized messaging options) installed with these stations and in other appropriate areas. These signs are designed to socially engineer a different paradigm for waste management by informing and educating people on the necessity of bagging and properly disposing of dog waste.

3. Describe the waterbody affected by the project including its 12-digit watershed code (HUC)

This project is located in numerous 12-digit HUCs in the 8-digit Colorado River HUC of 14030005. The sub-units include but are not limited to 1001, 0404, 0403, 0402, 0307, in Grand County. Table 1 lists the sites where the project is being implemented. Grand County Trail Mix will also be putting up signs in 9 locations, but not dog waste stations due to lack of staff to maintain them. Those are also listed in Table 1 as sign only sites.

4. Describe all existing watershed plans or TMDLs that the project will help implement

The Mill and Pack Creek watersheds associated with this project are on the 303d list of impaired waters for E Coli. UDWQ has not developed a TMDL for these streams at this time. This project is one part of the Moab Area Watershed Partnerships Moab Area Watershed Management Plan that intends to reduce E Coli levels in water bodies in Grand County.

5. Describe the water quality benefits/load reductions to be realized by the project

The major pollutant to be addressed with this project is E Coli. Hopefully, after people are educated on the sources and problems of E Coli, they will take the appropriate actions to curb introduction of animal and human waste into streams and lakes as well on our public lands. We do not know of any means that could determine actual load reductions at this time.

6. Describe existing project plans and specifications

A total of 14 dog waste stations and 33 dog waste signs would be installed at the locations shown in the Figure 1, the project map. Exact locations are noted in Table 1. We will be encouraging and informing the public to pick-up their dog waste and carry it out with them to maintain water quality as well as health and safety. Dog waste stations will require refilling of dog waste bags on a regular basis which takes valuable staff time (as well as carrying-out bags from dog waste containers if it is deemed a possibility due to staffing levels). Nine (9) other identified trailhead and other supplemental locations would have signs only, encouraging the public to pack out their dog waste using their own trash bags. We are assuming some dog owners carry their own dog waste bags and can at least encourage that behavior as well as raise overall awareness of the issue on Moab area public lands. Figure 2 contains an example of the signs being installed. There are six signs with the same basic layout and slightly different messages that will be used. As seen in Figure 2, there is a message on each sign. We have chosen 6 different messages to imbed on these signs. The messages that will be imbedded are shown in Table 2:

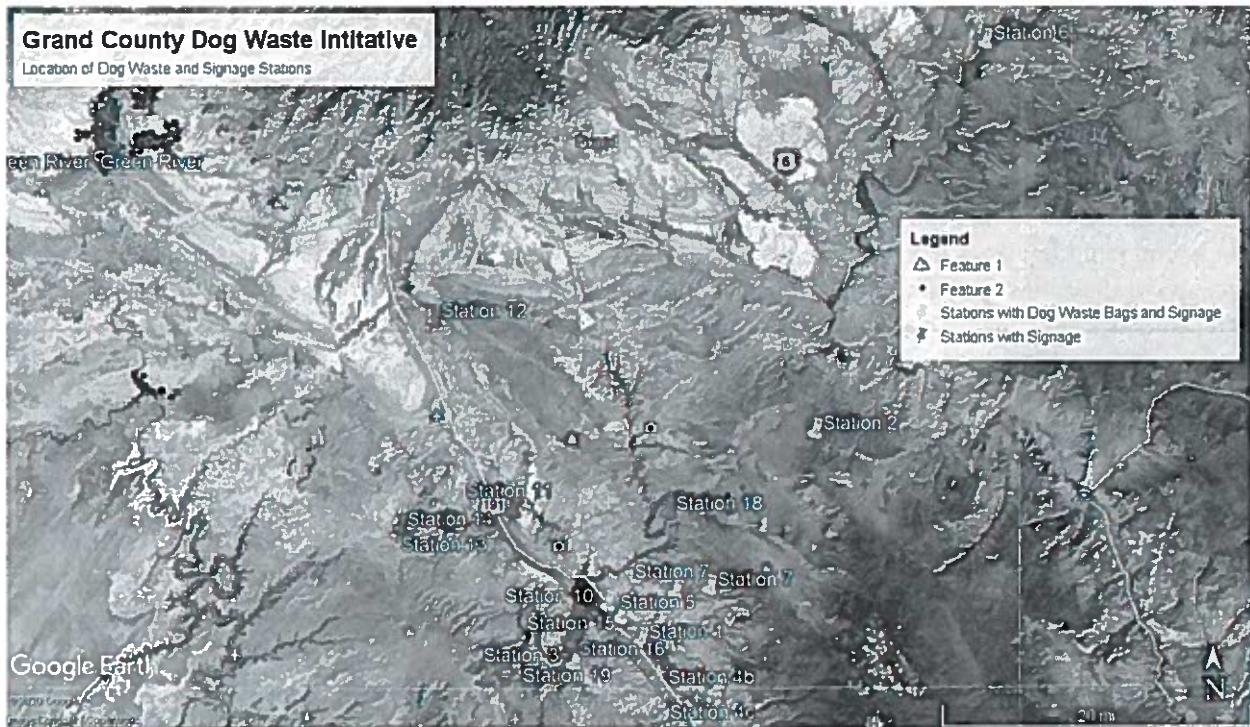
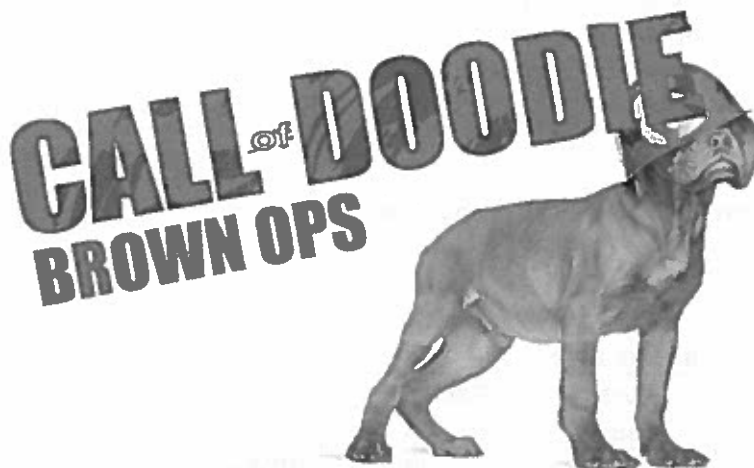


Figure 1: Map of Grand County Dog Waste Initiative Stations

Table 1: Location of Dog Waste Stations and or signs installed for this initiative			
Location # and Description	Waste Station & Sign	Sign Only	Lat and Long
1:Hidden Valley TH	Yes		38.531560° -109.517123°
2:Fisher Towers TH	Yes		38.724823° -109.308755°
3:Hunter Canyon TH	Yes		38.509784° -109.596757°
4:Ken's Lake (3 Locations)	Yes		4a: 38.479024° -109.428307° 4b: 38.478033° -109.429735° 4c: 38.484509° -109.428452°
5:Mill Creek Rim	Yes		38.547969° -109.493539°
6:Westwater Boat Ramp	Yes		39.086510° -109.101551°
7:Pinyon TH-Sand Flats	Yes		38.576561° -109.476236°
8:Juniper TH-Sand Flats	Yes		38.579975° -109.434743°
9:Pipe Dream TH-Jackson St.	Yes		38.553813° -109.542812°
10:Pipe Dream TH-Doc Allen Rd.	Yes		38.564873° -109.557143°
Supplemental Locations (2)	Yes		N/A at this time
Area Trail Kiosks:			
11:Bar M		Yes	38.651885° -109.668334°
12:Copper Ridge-N. Klondike		Yes	38.829949° -109.763244°
13:Navajo Rocks		Yes	38.640900° -109.747028°
14:Horsetheif Trails		Yes	38.636264° -109.804167°
15:Amasa Back		Yes	38.528529° -109.596580°

16:Kane Creek OHV/Jackson TH		Yes	38.533159° -109.600928°
Climbing Routes Kiosks:			
17:Wall Street-Potash		Yes	38.551819° -109.595653°
18:Big Bend Boulder Area		Yes	38.650723° -109.483812°
19:Ice Cream Parlor-Kane Ck Rd		Yes	38.519322° -109.601552°
Supplemental locations (10)		Yes	N/A at this time



PET WASTE POLLUTES

An ounce of pet waste is home to millions of unhealthy bacteria. Pick up after your pet. Keep our parks, natural areas, streams, rivers and lakes free from dog waste.

Figure 2: Example of sign design and layout. There are 6 sign types with slightly different messages that will be installed with this project.

Sign message type	Background color	Message
Sign message 1	Dark Brown	An ounce of pet waste is home to millions of unhealthy bacteria. Pick up after your pet. Keep our parks, natural areas, streams and lakes free from dog waste.
Sign message 2	Blue	When you pick up your pet's waste, you prevent giardia, E. coli and other bacteria from reaching our waterways. Do your duty for a healthier river.
Sign message 3	Red	Dog waste is the 3rd largest contributor of bacterial pollution in urban waterways, contributing as much as 20-30%. Pick up after your pet.

Sign message 4	Light Blue	When you pick up after your pets, our rivers and streams grow healthier. Pick up after your pet and remind others to do the same.
Sign message 5	Green	Picking up your pet's waste is a necessary part of being a responsible animal owner. Keep our parks, natural areas and waterways clean and healthy.
Sign message 6	Yellow	Don't expose children to bacteria and viruses by leaving pet waste behind. Pick up after your pet. Keep our parks, natural areas and waterways safe for our children to play.

7. **Describe how project effectiveness will be demonstrated**

Photo point monitoring of signs and waste stations will be used for monitoring. We will endeavor to take before and after pictures of areas showing dog waste removal improvements and report quantity of dog waste removed (by pounds).

8. **List consultants or agency partners that have participated, or will participate in project**

Arne Hultquist, Watershed Coordinator for Grand and San Juan Counties

Tyson Swasey, Grand County Trail Mix & Zacharia Levine, Grand County

Andrea Brand, Sand Flats Recreation Area

Jonathan Dutrow, SE Utah Health Department

Sharon Brussell, Bureau of Land Management, Moab Field Office, Recreation

Moab Area Watershed Partnership

9. **Provide a detailed budget table for the project showing all proposed expenditures.**

The budget for this project is presented in Table 3.

Item	Number	Cost	Total	Funding Source
Dog Waste Stations	14	\$135	\$1,890	UDWQ Grant
Dog Waste Signs (w/ S & H)	35	\$30	\$1,050	UDWQ Grant
Dog Bags (box of 3200 bags)	80	\$100	\$8,000	UDWQ Grant
Administrative Fees		5%	\$547	UDWQ Grant
Total UDWQ Grant			\$11,487	Total UDWQ Grant
Sign Installation	22	\$65	\$1,430	BLM Moab Field Office
Fuel for Vehicles (Install & Collection)	NA	\$70/mo x 12 mo	\$840	BLM Moab Field Office
Stocking Bags & Picking Up Waste Bags from Containers (Staff Time)	14	\$1,500/mo x 12 mo	\$21,000	BLM Moab Field Office
Total BLM Match			\$23,270	Total BLM Moab Field Office
Project Total			\$34,757	Project Total

Moab BLM currently maintains seven stations: Four stations are located at the Grandstaff, Mill Creek/Power Dam, Corona Arch, and Moab Rim trail head. Ken's Lake has three stations located around the Day Use areas (1 broken: all need replacing to be same model to accommodate bags). Currently, BLM fills all seven stations and waste goes to BLM dumpsters. The cost of maintaining these operations is not included in Table 2.

10. **Has the Division of Water Quality awarded funding to the applicant in the past?** Yes, the Division has awarded funding for two previous projects to the BLM Moab Field Office. One was for the Mill Creek Phase I restoration. That project was successfully completed in a timely manner. The other project was Mill Creek Phase IV. That grant is currently open and the BLM is successfully implementing it. These two projects are completely different efforts than the one that is being applied for.