Montana Department of Natural Resources and Conservation
Water Resources Division
Water Rights Bureau

ENVIRONMENTAL ASSESSMENT
For Routine Actions with Limited Environmental Impact

Part I. Proposed Action Description

1. APPLICANT/CONTACT NAME AND ADDRESS:

WILLIAM D. COFFEY AND JESSICA M. TARBUTTON
13800 N FORK RD
POLEBRIDGE, MT 59928-9724

2. TYPE OF ACTION:

Permit Registration for Groundwater Use Within the National Park Service Compact Area No. 76LJ 30175251

3. WATER SOURCE NAME:

Groundwater

4. LOCATION AFFECTED BY PROJECT:

SWSENE Section 13, Township 36N, Range 22W, Flathead County, Montana.

5. NARRATIVE SUMMARY OF THE PROPSED PROJECT, PURPOSE, ACTION TO BE TAKEN, AND BENEFITS:

This application is to obtain a water use permit for a well located within the Glacier National Park Compact Area. The Applicant proposes to divert groundwater at a rate of 0.04 gallons per minute (GPM) up to 0.06 acre-feet (AF) per year. The proposed appropriation is for domestic use from January 1 – December 31 as well as Lawn and Garden use from April 1 – October 31 annually. The point of diversion and place of use is located in the SWSENE Section 13, Township 36N, Range 22W, Flathead County, Montana. (Figure 1).

The project is in the Flathead River Basin (76LJ) in an area that is not subject to water right basin closures or controlled groundwater area restrictions.

The DNRC shall issue a water use permit if the Applicant proves the criteria in 85-20-401 MCA are met.

6. AGENCIES CONSULTED DURING PREPARATION OF THE ENVIRONMENTAL ASSESSMENT:

- U.S. Fish and Wildlife Service (USFWS): National Wetlands Inventory Wetlands Mapper
- Montana Natural Heritage Program: Endangered, Threatened Species, and Species of Special Concern
- Montana Department of Fish Wildlife & Parks (DFWP): Dewatered Stream Information
- Montana Department of Environmental Quality (MDEQ): Clean Water Act Information Center
- U.S. Natural Resource Conservation Service (NRCS): Web Soil Survey
- U.S. National Park Service (NPS) Water Rights Branch

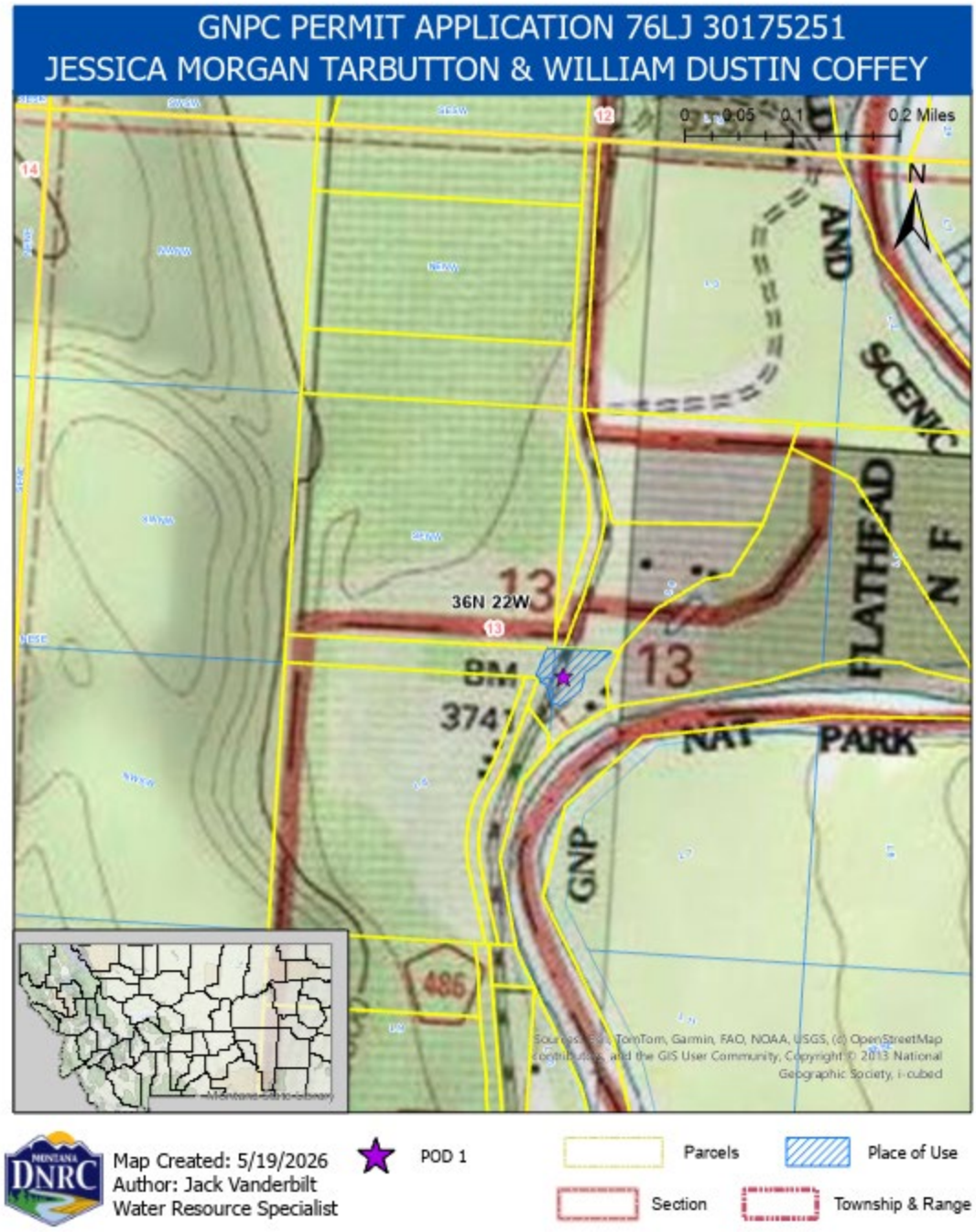


Figure 1. Map of the proposed place of use and points of diversion.

Part II. Environmental Review

1. ENVIRONMENTAL IMPACT CHECKLIST:

PHYSICAL ENVIRONMENT

1.1 WATER QUANTITY, QUALITY AND DISTRIBUTION

Water Quantity - *Assess whether the source of supply is identified as a chronically or periodically dewatered stream by DFWP. Assess whether the proposed use will worsen the already dewatered condition.*

The Applicant proposes to divert groundwater from a well that is approximately 250 feet northwest of the North Fork Flathead River. The North Fork Flathead River is not on the DFWP list of chronically or periodically dewatered streams.

Determination: No significant impact.

Water Quality - *Assess whether the stream is listed as water quality impaired or threatened by DEQ, and whether the proposed project will affect water quality.*

The Applicant proposes to divert and use groundwater. The nearest surface water sources to the proposed groundwater diversion are the North Fork Flathead River. Diversions in this area may deplete the North Fork Flathead River.

North Fork Flathead River: MDEQ Clean Water Act Information Center's 2020 Water Quality Information report lists the North Fork Flathead River as:

i. Water Quality Category 1: Waters for which all applicable beneficial uses have been assessed and all uses have been determined to be fully supported;

ii. Use Class A-1: Waters classified as suitable for drinking, culinary and food processing purposes after conventional treatment for removal of naturally present impurities.

It is not anticipated that the appropriation of groundwater will result in significant water quality impacts to the nearby surface water sources.

Determination: No significant impact.

Groundwater - *Assess if the proposed project impacts ground water quality or supply. If this is a groundwater appropriation, assess if it could impact adjacent surface water flows.*

The Applicant will divert groundwater from the aquifer at a rate of 0.04 GPM.

The well is 100 feet deep and is approximately 250 feet northwest of the North Fork Flathead River. The NPS did not object to this application, therefore the flow rate will not be included in the calculation of total consumptive use for the North Fork Flathead River per the Glacier National Park Compact.

Determination: No significant impact.

1.2 DIVERSION WORKS - *Assess whether the means of diversion, construction and operation of the appropriation works of the proposed project will impact any of the following: channel impacts, flow modifications, barriers, riparian areas, dams, well construction.*

The means of diversion, a well, has already been constructed. As this is a groundwater appropriation, there will be no channel impacts, flow modifications, barriers, dams, or riparian impacts to surface water.

Determination: No significant impact.

1.3 UNIQUE, ENDANGERED, FRAGILE OR LIMITED ENVIRONMENTAL RESOURCES

Endangered and Threatened Species - *Assess whether the proposed project will impact any threatened or endangered fish, wildlife, plants, aquatic species, or any "species of special concern," or create a barrier to the migration or movement of fish or wildlife. For groundwater, assess whether the proposed project, including impacts on adjacent surface flows, would impact any threatened or endangered species or "species of special concern."*

The Montana Natural Heritage Program website was reviewed to determine if there are any threatened or endangered fish, wildlife, plants, aquatic species, or any "species of special concern" in the project area that could be impacted by the proposed project. Fifteen animal species of concern (Table 1) were identified within the project area. Of these species, the Grizzly Bear (*Ursus arctos*), the Canada Lynx (*Lynx canadensis*), the Wolverine (*Gulo gulo*), and the Bull Trout (*Salvelinus confluentus*) are listed as threatened* by the USFWS. An adequate quantity of water will still exist in the North Fork Flathead River to maintain existing populations of Bull Trout, should they exist there currently. It is not anticipated that any species of concern will be impacted by the proposed project.

Table 1. Species of Concern

Species Group	Common Name	Scientific Name
Mammals	Canada Lynx*	*Lynx canadensis*
Mammals	Fisher	*Pekania pennanti*
Mammals	Grizzly Bear*	*Ursus arctos*
Mammals	Little Brown Myotis	*Myotis lucifugus*
Mammals	Long-eared Myotis	*Myotis evotis*
Mammals	Wolverine*	*Gulo gulo*
Birds	Black-backed Woodpecker	*Picoides arcticus*
Birds	Boreal Chickadee	*Poecile hudsonicus*
Birds	Brown Creeper	*Certhia americana*
Birds	Great Blue Heron	*Ardea herodias*
Birds	Harlequin Duck	*Histrionicus histrionicus*
Birds	Pileated Woodpecker	*Dryocopus pileatus*
Birds	Varied Thrush	*Ixoreus naevius*
Fish	Bull Trout*	*Salvelinus confluentus*
Fish	Westslope Cutthroat Trout	*Oncorhynchus lewisi*
Vascular Plants	Wavy Moonwort	*Botrychium crenulatum*
Vascular Plants	Western Moonwort	*Botrychium hesperium*
Vascular Plants	Michigan Moonwort	*Botrychium michiganense*
Vascular Plants	Peculiar Moonwort	*Botrychium paradoxum*

Determination: No significant impact.

Wetlands & Ponds - *Consult and assess whether the apparent wetland is a functional wetland (according to COE definitions), and whether the wetland resource would be impacted. For ponds, consult and assess whether existing wildlife, waterfowl, or fisheries resources would be impacted.*

Determination: N/A, project does not involve wetlands or ponds.

1.4 GEOLOGY/SOIL QUALITY, STABILITY AND MOISTURE - *Assess whether there will be degradation of soil quality, alteration of soil stability, or moisture content. Assess whether the soils are heavy in salts that could cause saline seep.*

The proposed domestic use will not negatively impact the soil quality, stability, or moisture content in the project area. The soil type in the project area is, "Andeptic Cryoboralfs, sandy till substratum, rolling" formed from sandy till material. This soil has a moderately high to high capacity to transmit water. Soils in this area are not typically saline and are therefore not likely susceptible to saline seep.

Determination: No significant impact.

1.5 VEGETATION COVER, QUANTITY AND QUALITY/NOXIOUS WEEDS - *Assess impacts to existing vegetative cover. Assess whether the proposed project would result in the establishment or spread of noxious weeds.*

It is not anticipated that this project will impact the existing vegetative cover beyond what has been cleared for construction of the dwelling in the project area. It is not anticipated that issuance of a water use permit will contribute to the establishment or spread of noxious weeds in the project area. Noxious weed prevention and control will be the responsibility of the landowners, who must follow local noxious weed regulations.

Determination: No significant impact.

1.6 AIR QUALITY - *Assess whether there will be a deterioration of air quality or adverse effects on vegetation due to increased air pollutants.*

There will be no impact to air quality associated with issuance of the proposed permit for beneficial use of groundwater.

Determination: No significant impact.

1.7 HISTORICAL AND ARCHEOLOGICAL SITES - *Assess whether there will be degradation of unique archeological or historical sites in the vicinity of the proposed project if it is on State or Federal Lands. If it is not on State or Federal Lands simply state NA-project not located on State or Federal Lands.*

Determination: N/A, project not located on State or Federal Lands.

1.8 DEMANDS ON ENVIRONMENTAL RESOURCES OF LAND, WATER, AND ENERGY - *Assess any other impacts on environmental resources of land, water, and energy not already addressed.*

All impacts to land, water, and energy have been identified and no further impacts are anticipated.

Determination: No significant impact.

HUMAN ENVIRONMENT

1.9 LOCALLY ADOPTED ENVIRONMENTAL PLANS AND GOALS - *Assess whether the proposed project is inconsistent with any locally adopted environmental plans and goals.*

The project is consistent with planned land uses.

Determination: No significant impact.

1.10 ACCESS TO AND QUALITY OF RECREATIONAL AND WILDERNESS ACTIVITIES - *Assess whether the proposed project will impact access to or the quality of recreational and wilderness activities.*

The proposed project will not inhibit, alter, or impair access to present recreational opportunities in the area. The project is not expected to create any significant pollution, noise, or traffic congestion in the area that may alter the

quality of recreational opportunities. The proposed place of use and diversion do not exist on land designated as wilderness.

Determination: No significant impact.

1.11 HUMAN HEALTH - *Assess whether the proposed project impacts human health.*

This proposed use will not adversely impact human health.

Determination: No impact.

1.12 PRIVATE PROPERTY - *Assess whether there are any government regulatory impacts on private property rights. If yes, analyze any alternatives considered that could reduce, minimize, or eliminate the regulation of private property rights*.

No government regulatory impacts on private property rights.

Determination: No impact.

1.13 OTHER HUMAN ENVIRONMENTAL ISSUES - *For routine actions of limited environmental impact, the following may be addressed in a checklist fashion.*

Impacts on:

(a) *Cultural uniqueness and diversity?* None identified.

(*b)* *Local and state tax base and tax revenues?* None identified.

(c) *Existing land uses?* None identified.

(*d)* *Quantity and distribution of employment?* None identified.

(e) *Distribution and density of population and housing?* None identified.

(f) *Demands for government services?* None identified.

(g) *Industrial and commercial activity?* None identified.

(h) *Utilities?* None identified.

(i) *Transportation?* None identified.

(j) *Safety?* None identified.

(k) *Other appropriate social and economic circumstances?* None identified.

2. SECONDARY AND CUMULATIVE IMPACTS ON THE PHYSICAL ENVIRONMENT AND HUMAN POPULATION:

Secondary Impacts: None identified.

Cumulative Impacts: None identified.

3. DESCRIBE ANY MITIGATION/STIPULATION MEASURES:

None.

4. DESCRIPTION AND ANALYSIS OF REASONABLE ALTERNATIVES TO THE PROPOSED ACTION, INCLUDING THE NO ACTION ALTERNATIVE, IF AN ALTERNATIVE IS REASONABLY AVAILABLE AND PRUDENT TO CONSIDER:

The only alternative to the proposed action would be the no action alternative. The no action alternative would not authorize the diversion of groundwater at this location.

Part III. Conclusion

1. PREFFERED ALTERNATIVE:

Issue a water use permit if the Applicant proves the criteria in 85-20-401 MCA are met.

2. COMMENTS AND RESPONSES:

None.

3. FINDING:

Based on the significance criteria evaluated in this EA, is an EIS required? **___Yes _X_No**

If an EIS is not required, explain <u>why</u> the EA is the appropriate level of analysis for this proposed action:

No significant impacts related to the proposed project have been identified.

4. NAME OF PERSON(S) RESPONSIBLE FOR PREPARATION OF EA:

Name: Jack Vanderbilt
Title: Water Resource Specialist
Date: 5/21/2026

Montana Fish, Wildlife & Parks

FWP DEWATERING CONCERN AREAS

Revised, May 2005

The following is a list of Montana streams that support important fisheries or contribute to important fisheries (i.e., provide spawning and rearing habitats) that are significantly dewatered. Dewatering refers to a reduction in streamflow below the point where stream habitat is adequate for fish.

This is the third revision of the Dewatered Streams List compiled by FWP dated January 24, 1991 and last updated in May 2003. List entries and updates were provided by FWP regional fisheries biologists from field observations. Further revisions may be necessary as water use patterns change, and additional or more detailed information becomes available.

This revised list includes a total of 323 stream reaches on 314 streams, which are chronically dewatered, and 113 stream reaches on 109 streams, which are periodically dewatered. The reaches do not overlap between categories.

The two categories of dewatering are:

1. **Chronic dewatering** -- streams where dewatering is a significant problem in virtually all years; and

2. **Periodic dewatering** -- streams where dewatering is a significant problem only in drought or water-short years.

Most man-made dewatering occurs during the irrigation season (July-September). Although most dewatering is caused by irrigation withdrawals, a few of the listed waters are dewatered through dam regulation for agricultural and power production purposes or by natural causes.

Each listed stream shows the length (in miles) of the dewatered reach. For larger/longer streams, the boundaries of the dewatered reach (Point A - Point B) are given. For streams that have no reach boundaries given, the miles shown as dewatered are from the mouth upstream. All mileages are approximate.

The dewatered reaches shown are typical for the stream. However, the number of miles dewatered may vary from year to year depending upon the amount of water available in the stream system.

CHRONIC DEWATERING

STREAM AND REACH	MILES DEWATERED
Beaverhead-Red Rock River Drainage	
Beaverhead River: West Side Canal – mouth	39
Big Sheep Creek: BLM Boundary - Red Rock River	3
Blacktail Deer Creek: Axes Canyon Rd - Beaverhead River	5.5
Horse Prairie Creek: Red Butte - Clark Canyon Reservoir	15
Junction Creek: I-15 - Red Rock River	4
Rattlesnake Creek: Dillon/Argenta Rd - mouth	7.5
Red Rock River: Dell-Briggs Ranch	6
Subtotal for Drainage	80.0
Big Hole River Drainage	
Alder Creek	0.1
Big Hole River:	
Big Lake Creek - Swamp Creek	9
Glen Bridges - mouth	24.4
Birch Creek: Beaverhead/Willow Ditch - mouth	9.8
Governor Creek	5
Wise River: Wise River Ditch - mouth	5
Subtotal for Drainage	53.3
Bitterroot River Drainage	
Baker Creek	1
Bass Creek	1
Bear Creek:	
North Channel	4
South Channel	4
Big Creek	3
Bitterroot River: Corvallis-Stevensville	17
Blodgett Creek	2
Burnt Fork Creek	5
Carlton Creek	5
Chaffin Creek	2
Eightmile Creek	3
Kootenai Creek	2
Lolo Creek	3
Lost Horse Creek	4
Mill Creek	3
Mill Creek (Trib. to Lolo Creek)	0.5
O'Brien Creek	1.5
Reimel Creek	1
Rock Creek	5
Skalkaho Creek	4
South Fork of Lolo Creek	0.5
Sweathouse Creek	2

Sweeney Creek	1
Tin Cup Creek *[1]	2
Tolan Creek	1
Subtotal for Drainage	77.5

Blackfoot River Drainage

Arrastra Creek: Stream mile 2.5-2.0	0.5
Bear Creek (North Fork)	1
Blackfoot River: Seven-Up Pete Creek - Poorman Cr.	11
Blanchard Creek*	1.2
Burnt Bridge Creek	1.0
Chamberlain Creek*	0.5
Chimney Creek (Nevada Creek)	0.5
Cottonwood Creek*: Stream mile 10.0-4.4	5.6
Dick Creek: Stream mile 6.0-3.5	2.5
Douglas Creek	14
Dry Creek	0.5
Dunham Creek	5
Fish Creek	0.3
Frazier Creek	1.5
Frazier Creek, North Fork	0.5
Gallagher Creek	3
Humbug Creek	1
Jefferson Creek	1
McElwain Creek	1
Monture Creek: Stream mile 15.0-12.0	3
Murray Creek	3
Nevada Creek: Stream mile 31.7-6.4	25.3
No-Name Creek	0.5
North Fork of Blackfoot River: River mile 12.0-6.2	5.8
Owl Creek	4.3
Pearson Creek*	2
Poorman Creek	2
Rock Creek: stream fmile 7.0-1.4	5.6
Spring Creek (Cottonwood Creek)	1
Spring Creek (North Fork)	2.5
Trail Creek	1
Union Creek: Stream mile 7.0-0.5	6.5
Wales Creek	1.9
Warm Springs Creek	1
Warren Creek	6
Washington Creek: Sections 24 and 26	1
Wasson Creek	2
Willow Creek	2
Wilson Creek	0.8
Yourname Creek	1
Subtotal for Drainage	129.8

[1] Asterisk (*) indicates that FWP currently holds a water lease on the stream to improve the dewatered condition.

Dearborn River Drainage

Dearborn River: Bean Lake Canal – mouth	44
Middle Fork Dearborn River	4
Subtotal for Drainage	48

Flathead River Drainage

Lost Creek: 4 miles Above Lore Lake - Stillwater River	7
Mount Creek: Welcome Springs - mouth	5
South Fork Flathead River: Hungry Horse Dam - mouth	5.3
Walker Creek: Entire Length	7
Subtotal for Drainage	24.3

Flint Creek Drainage (Clark Fork)

Cow Creek	3
Douglas Creek	2
Flint Creek: Georgetown Lake - mouth	42.4
Gird Creek	1
Henderson Creek: USFS Boundary - mouth	4
Lower Willow Creek: Reservoir - mouth	9.4
Marshall Creek: USFS Boundary - mouth	5
Subtotal for Drainage	66.8

Gallatin River Drainage

Baker Creek	10
Big Bear Creek	5
Bridger Creek	10
Gallatin River: Shedd's Bridge - Mouth	32.7
Hyalite (Middle) Creek	20
South Cottonwood Creek	6
Subtotal for Drainage	83.7

Jefferson River Drainage

Antelope Creek	7
Boulder River: Boulder - Cold Springs	36
Fish Creek	10
Jefferson River: Headwaters - mouth	84
Little Boulder River	10
North Willow Creek	9
Pipestone Creek	8
South Boulder River	10
South Willow Creek	8
Whitetail Creek	24
Subtotal for Drainage	206

Judith River Drainage

Cottonwood Creek: McMillan ditch to Big Spring Creek	17
Judith River: Ackley Lake diversion – Big Spring Creek	37
Ross Fork Creek	10
Subtotal for Drainage	64

Kootenai River Drainage

Grave Creek: Glen Lake Diversion Dam -Fortine Creek	5
Indian Creek: Burma Road - mouth	3
Kootenai River: Libby Dam - Montana/Idaho border	45
Phillips Creek: US/Canadian Border - Sophie Lake	3
Pleasant Valley Fisher River: Lost Prairie - Loon Lake	25
Sinclair Creek: Source - mouth	4
Therriault Creek: Glen Lake Irrigation Diversion - US Hwy 93	2
Subtotal for Drainage	87

Little Blackfoot River Drainage

Carpenter Creek	4.8
Dog Creek	2
Galleger Creek	3
Gimlet Creek	2
Jefferson Creek	1
Little Blackfoot River: Elliston - mouth	25.5
North Trout Creek	5.1
Ophir Creek	4
Sixmile Creek	9
Snowshoe Creek: USFS Boundary - mouth	6
Spotted Dog Creek: Private Reservoir – mouth	2.5
Threemile Creek	8
Washington Creek	1
Willson Creek	0.8
Subtotal for Drainage	74.7

Lower Clark Fork River Drainage

Beaver Creek	5
Big Beaver Creek– Stream miles: 5.7 to 12.0	6.3
Boyer Creek: Deemer Creek - mouth	2
Clear Creek – Stream miles: 4.1 to 8.3	4.2
Cooper Gulch	1.7
Deep Creek	0.7
Dry Creek – Stream miles: 0.5 to 4.1	3.6
East Fork Blue Creek – Stream miles: 1.1 to 3.0	1.9
East Fork Elk Creek – Stream miles: 2.4 to 5.1	2.7
East Fork Trout Creek	2.3
Elk Creek	0.7
Graves Creek	0.4
Henry Creek: Section 31 - mouth	2
Little Beaver Creek – Stream miles: 5.6 to 8.1	2.5
Little Trout Creek – Stream miles: 0.0 to 0.5 and 1.1 to 3.2	2.6
Lynch Creek	2
Marten Creek– Stream miles: 5.3 to 9.0	3.7
McKay Creek	4
Middle Fork Bull River – Stream miles: 0.4 to 1.2	0.8
North Branch Marten Creek	0.2
North Fork Bull River	0.4
Pilgrim Creek – Stream miles: 5.0 to 7.0	2

Prospect Creek – Stream miles: 8.4 to 11.1 and 12.3 to 16.5	6.9
South Fork Marten Creek – Stream miles: 0.2 to 3.3	3.1
South Fork Pilgrim Creek	2.3
Squaw Creek	0.5
Stevens Creek – Stream miles: 4.0 to 6.2	2.2
Swamp Creek – Stream miles: 0.5 to 2.8 and 3.7 to 4.3	2.9
Trout Creek – Stream miles: 7.0 to 9.1	2.1
Tuscor Creek – Stream miles: 0.9 to 1.2 and 3.0 to 4.3	1.6
West Fork Elk Creek – Stream miles: 0.0 to 0.1 and 1.3 to 1.8	0.6
West Fork Pilgrim Creek	1.0
West Fork Rock Creek	0.2
West Fork Trout Creek	1.0
Whitepine Creek – Stream miles: 3.4 to 10.2	6.8
Subtotal for Drainage	82.9

Madison River Drainage

Bear Creek	6.0
Indian Creek	5.8
Jack Creek	4.6
Moore Creek	5
North Meadow Creek	10.1
South Meadow Creek	3.5
Watkins Creek	1
Wigwam Creek	2.0
Subtotal for Drainage	38.0

Marias River Drainage

Birch Creek: Swift Dam - mouth	61
Dupuyer Creek: Above Dupuyer - mouth	20
Subtotal for Drainage	81

Middle Clark Fork River Drainage (Rock Creek to Flathead River)

Albert Creek	1
Big Creek (Tributary to St. Regis River)	0.5
Butler Creek	4
Cedar Creek	2
Cold Creek: Road 69 (near mouth) to 1 mile upstream	1
Deep Creek (near Lozeau)	2.5
Deep Creek (near Harper's Bridge)	2.5
Dirty Ike Creek	0.5
Donovan Creek	0.5
Dry Creek: Dry Fork to mouth	2.5
First Creek	2
Grant Creek	5
Johnson Creek	2
Kendall Creek	0.5
Lavalle Creek	4
Little Joe Creek (Tributary to St. Regis River)	1.5

Meadow Creek	3.5
Nemote Creek: Sheridan Creek to Miller Creek	4
O'Keefe Creek: Section 34 to Mullan Road	6
Pardee Creek: Section 9 to mouth	2.5
Patrick Creek	1.5
Petty Creek: Gus Creek to 1.5 miles above mouth	6
Quartz Creek	1
Rock Creek (near Rivulet): Section 15 – Road 343 crossing	2
Rock Creek (downstream of Harper's Bridge)	2.5
Second Creek	1.5
Sixmile Creek	1
Siegel Creek:	2
Slowey Gulch: Little Pittsburg Mine to mouth	2.5
Sunrise Creek	3
Swartz Creek	0.5
Tamarack Creek: below Dry Fork to Section 4	2
Thompson Creek: Sectoin 11 to Section 32	2.5
Turah Creek	0.5
Twelvemile Creek (Tributary to St. Regis River)	1
Wallace Creek	1
West Mountain Creek	1.5
Subtotal for Drainage	80.0

Musselshell River Drainage

American Fork Creek	10
Big Elk Creek	10
Careless Creek: Bercail - Franklin	25
Cottonwood Creek	3
Flatwillow Creek: Durfee Creek - Petrolia Reservoir	69
McDonald Creek	50
Musselshell River: Deadmans Basin Supply Canal - mouth	309
North Fork McDonald Creek	26
North Fork Musselshell River: Bair Reservoir - mouth	25
South Fork Musselshell River: Muddy Creek - mouth	13
South Fork McDonald Creek	31
Spring Creek	6
Swimming Woman Creek	20
Subtotal for Drainage	597

Rock Creek Drainage (Clark Fork)

Brewster Creek	0.5
North Fork Spring Creek	3
Ranch Creek	1
Ross's Fork	5
South Fork Spring Creek	5
Upper Willow Creek: USFS Boundary - mouth	7.4
Subtotal for Drainage	21.9

Ruby River Drainage

Indian Creek: National Forest - Leonard Slough	8.5
Mill Creek: National Forest - BN RR Bridge	6
Ruby River: Alder, MT - Clear Creek	10
Thompson Ditch - mouth	18
Sweetwater Creek: Irrigation Diversion - mouth	3.3
Wisconsin Creek: National Forest - mouth	7
Subtotal for Drainage	52.8

Shields River Drainage

Bangtail Creek	5
Canyon Creek	0.7
Cottonwood Creek	5.9
Rock Creek	2
Willow Creek	12.2
Subtotal for Drainage	25.8

Smith River Drainage

Big Birch Creek	5
Camas Creek	5
North Fork of Smith River: Dam - mouth	23
Smith River: McKamey Diversion - mouth	28
Subtotal for Drainage	61

Sun River Drainage

Elk Creek: Augusta vicinity	7
Sun River: Diversion Dam - Fort Shaw	60
Subtotal for Drainage	67

Teton River Drainage

Deep Creek: T23N, R5W, Sec 10 - mouth	5
Spring Creek: Above Choteau - mouth	5
Teton River: Bynum Diversion - mouth	188
Subtotal for Drainage	198

Upper Clark Fork River Drainage

Bear Creek: Forks - Clark Fork River	2.2
Blum Creek (Tributary to Gold Creek)	2
Clark Fork River: Racetrack - Rock Creek	92.7
Cottonwood Creek: USFS Boundary - mouth	8
Crevise Creek (Tributary to Gold Creek)	2
Dempsey Creek: Jct. North/South forks - mouth	8.4
Gold Creek: Pioneer - mouth	6.5
Harvey Creek	0.5
Hoover Creek: Miller Lake - mouth	5.4
Lost Creek: State Park - mouth	12
Mill Creek: BA&P Tracks - Settling Ponds	6.6
Morris Creek	4
Peterson Creek: USFS Boundary - mouth	10.5
Powell Creek: Powell Lake - mouth	6.5
Racetrack Creek: USGS Station - mouth	11.3
Rock Creek: Rock Creek Lake - mouth	10.9
Storm Lake Creek (Tributary to Warm Spring Creek)	2
Swartz Creek	0.5
Taylor Creek: Lower Taylor Reservoir - mouth	4.7
Tigh Creek	1
Tin Cup Joe Creek: Conley's Lake - mouth	5.2
Twin Lakes Creek (Tributary to Warm Spring Creek)	2
Warm Spring Creek: Hwy 273 - mouth	8
Warm Spring Creek (near Garrison): Falls - mouth	5.4
Willow Creek: Mt. Haggin WMA - Settling Ponds	6.5
Subtotal for Drainage	224.8

Upper Missouri River Drainage

Beaver Creek (Tributary to Canyon Ferry Reservoir)	6
Confederate Creek (Tributary to Canyon Ferry Reservoir)	4
Crow Creek	15
Deep Creek	6
Dry Creek	7
Duck Creek (Tributary to Canyon Ferry Reservoir)	3.5
Greyson Creek	4
Prickly Pear Creek: East Helena - Lake Helena	8
Sixmile Creek	7
Tenmile Creek (Tributary to Prickly Pear Creek)	13.5
Subtotal for Drainage	74.0

Yellowstone River Drainage

Big Creek	1.6
Big Timber Creek	5
Boulder River	5
Bridger Creek	3
Clarks Fork of the Yellowstone: State Line - Bluewater Creek	40
Deep Creek	3.3
East Boulder River: Forest Boundary - mouth	7
Eightmile Creek	2

Elbow Creek	4
Elk Creek (Tributary to East Boulder River)	2
Emigrant Creek	3
Fridley Creek	0.1
Little Trail Creek	8
Lower Deer Creek	4
Mill Creek*	0.7
Mission Creek	0.8
Pine Creek	1.6
Powder River: Montana/Wyoming Border - mouth	217.5
Pryor Creek	21
Rock Creek (Tributary to Clarks Fork): Red Lodge - mouth	41
Sage Creek (Tributary to Shoshone-Bighorn): Res. Boundary - State Line	18
Sixmile Creek	3
Soap Creek (Tributary to Bighorn River)	9
Strawberry Creek	1
Suce Creek	1.5
Sweet Grass Creek	6
Tongue River: T&Y Diversion - mouth	20.4
Trail Creek	5
Upper Deer Creek	5
Subtotal for Drainage	439.5

PERIODIC DEWATERING

STREAM AND REACH	MILES DEWATERED
Beaverhead - Red Rock River Drainage	
Beaverhead River: Clark Canyon Dam - West Side Canal	21
Big Beaver Creek	0.7
Blacktail Deer Creek: West Fork - Axes Canyon Rd.	19.8
Bloody Dick Creek (Tributary to Horse Prairie Cr.)	10
Grasshopper Creek:	
Polaris - Bannock	14
Frency Place Placer - mouth	6
Jones Creek: BLM boundary - mouth	1.5
Little Sheep Creek: Road crossing - mouth	7.5
Medicine Lodge Creek (Tributary to Horse Prairie Cr.): Ayers Cyn - mouth	16.8
Peet Creek: Jones Diversion - mouth	1.7
Sage Creek: Rock Island Ranch - mouth	11
Trail Creek (Tributary to Horse Prairie Cr.): Source - mouth	7
Subtotal for Drainage	117.0
Big Hole River Drainage	
Big Hole River:	
Hamby Creek - Big Lake Creek	23.4
Swamp Creek - Glen Bridges	84.5
Big Lake Creek	7.5
Canyon Creek	6
Deep Creek	5.1
Divide Creek	9.5
Doolittle Creek	1.5
Fishtrap Creek	2.4
Francis Creek	7.7
Jerry Creek	3.1
Johnson Creek	3.7
Moose Creek	3.0
Mussigbrod Creek	9.4
North Fork Big Hole River	25
Pintlar Creek	10.8
Rock Creek	3
Rock Creek (Tributary to Big Lake Cr)	7
Ruby Creek	4.3
Sandhollow Creek	4.8
Steel Creek	8.6
Swamp Creek	17.4
Trapper Creek	6
Warm Springs Creek	9
Willow Creek	5.5
Subtotal for Drainage	268.2

Bitterroot River Drainage

Lolo Creek	1
Subtotal for Drainage	1

Blackfoot River Drainage

Arkansas Creek	2
Ashby Creek	2
Blackfoot River: Stream mile 84.9-54.1	30.8
Clearwater River	3.5
Elk Creek	3
Hoyt Creek	1
Nevada Creek: Stream mile 34.0-40.0	6
Shanley Creek	1.6
Subtotal for Drainage	49.9

Dearborn River Drainage

South Fork Dearborn River	10
Subtotal for Drainage	10

Flathead River Drainage

Ashley Creek: US Hwy. 2 Bridge – mouth	20
Blaine Creek: Above Lake Blaine - Lake Blaine	3
Bowser Spring Creek: Hwy 424 - Kalispell	8
Dayton Creek: Co. Line - mouth	10
Echo Creek: Sec. 27 - mouth	3
Evergreen Spring Creek	5
Garnier Creek: USFS - mouth	3
Lynch Creek: Sec. 12 - mouth	5
Meadow Creek (Big Fork): USFS - mouth	3
Ronan Creek: Lake Mary Ronan - mouth	5
Spring Creek: North of Kalispell	5
Trumbull Creek: USFS - Rose Crossing	20
Subtotal for Drainage	90

Gallatin River Drainage

Bozeman (Sourdough) Creek	8
Gallatin River: Gallatin Gateway - Shedd's Bridge	5.3
Subtotal for Drainage	13.3

Jefferson River Drainage

Hells Canyon Creek*	0.3
Willow Creek	10
Subtotal for Drainage	10.3

Judith River Drainage

Judith River: Utica to Ackley Lake diversion	5
Subtotal for Drainage	5

Kootenai River Drainage

Fortine Creek: Crystal Lake - mouth	5
Libby Creek: US 2 Bridge - mouth	14
Pinkham Creek: Still Cr. in Sec. 3 - mouth	15
Young Creek: Sec. 15-16 Crossing - mouth	5
Subtotal for Drainage	39

Lower Clark Fork River Drainage

Rock Creek – Stream miles: 0.0 to 1.5 and 2.6 to 5.3	4.2
Fishtrap Creek – Stream miles: 2.7 to 3.7	1
Subtotal for Drainage	5.2

Madison River Drainage

Ruby Creek	0.4
Blaine Spring Creek	2.3
Subtotal for Drainage	2.7

Marias River Drainage

Cut Bank Creek: City of Cut Bank – mouth	18
Subtotal for Drainage	18

Middle Clark Fork River Drainage (Rock Creek to Flathead River)

Bear Creek (Tributary to Fish Creek)	2
Nemote Creek	2
Ninemile Creek	3
West Fork Fish Creek	2
Subtotal for Drainage	9

Milk River Drainage

Beaver Creek: Ft. Assiniboine - mouth	6
Clear Creek: Clear Creek Rd - mouth	15
Subtotal for Drainage	21

Musselshell River Drainage

Cottonwood Creek	10
Musselshell River: N/S Forks Confluence – Deadmans Supply Canal	55
North Willow Creek	20
Painted Robe Creek	28
Subtotal for Drainage	113

Shields River Drainage

Brackett Creek	14
Flathead Creek	12
Shields River	82
Subtotal for Drainage	108

Smith River Drainage

Hound Creek: East Fork - mouth	25
Sheep Creek: Jumping Creek - mouth	30

Smith River: Jct. North/South forks - McKamey Diversion	97
South Fork of Smith River	15
Subtotal for Drainage	167

Upper Clark Fork River Drainage

Clark Fork River: Warm Springs - Racetrack	9
Subtotal for Drainage	9

Upper Missouri River Drainage

Little Prickly Pear Creek: Canyon Creek - mouth	26
Missouri River: Headwaters - Townsend	42
Subtotal for Drainage	68

Yellowstone River Drainage

Bad Canyon Creek (Tributary to Stillwater River): BLM - Mouth	1.0
Bighorn River: Afterbay Dam - Little Bighorn R.	42
Cedar Creek*	0.7
Clarks Fork of the Yellowstone: Bluewater Creek - mouth	32
Crooked Creek (Tributary to Bighorn River): Tillet - State Line	4.0
Fishtail Creek (Tributary to Stillwater River): At Fishtail	2
Fleshman Creek	1
Locke Creek*	0.3
Mill Creek*: Stream mile 4.9-0.7	4.2
Mol Heron Creek	0.8
Sand Creek-Tributary of Spidel WPA	5.0
Stillwater River: Cliff Swallow - Rosebud Creek	11
Suce Creek: Stream mile 3.0-1.5	1.5
Sweet Grass Creek	2
Tongue River: state line to T&Y Diversion	185.3
Trail Creek: Stream mile 31.2-17.7	13.5
Yellowstone River: Springdale - Bighorn River	179
Subtotal for Drainage	485.3

Total Number of Dewatered Streams: 314 (chronic); 109 (periodic)
Total Number of Dewatered Reaches: 323 (chronic); 113 (periodic)

Assessment Record Summary

Reporting Cycle: 2020 **Assessment Record:** MT76Q001_010 **Status:** Unassigned

WATER INFORMATION — Status: Unassigned

Reporting Cycle: 2020

Assessment Unit: MT76Q001_010

Name: North Fork Flathead River

Location Description: NORTH FORK FLATHEAD RIVER, Canadian Border to Mouth

Water Type:	Size (Miles/Acres)	Use Class:
RIVER	57.93 MILES	A-1

Trophic Status:

Trophic Trend:

1 - Hydrologic Unit Code: 17010206

2 - HUC Name: North Fork Flathead

3 - Watershed: Pend Oreille

4 - Basin: Columbia

5 - TMDL Planning Area: Flathead Headwaters

6 - Ecoregion: Canadian Rockies

7 - County: Flathead County

8 - LAT/LONG AU Upstream: Start: 49.001083 / -114.475567

9 - LAT/LONG AU Downstream: End: 48.467256 / -114.071261

Water Quality Category: 1 - Waters for which all applicable beneficial uses have been assessed and all uses have been determined to be fully supported.

Assessment Record Summary

Reporting Cycle: 2020 **Assessment Record:** MT76Q001_010 **Status:** Unassigned

Beneficial Use Support Information

Use Name	Fully Supporting	Not Fully Supporting	Threatened	Insufficient Information	Not Assessed
Aquatic Life	X				
Agricultural	X				
Drinking Water	X				
Primary Contact Recreation	X				

Assessment Information

Use Name	Assessment Type	Assessment Confidence
NA		

Use Name	Assessment Methods
NA	

Impairment Information

Use Name	Probable Causes	Probable Sources	TMDL Completed
NA			

Assessment Record Summary

Reporting Cycle: 2020 **Assessment Record:** MT76Q001_010 **Status:** Unassigned

Use Name	Observed Effects
NA	

Delisting / Category Changes

Cause	Reason for Change	Change Date	Comments
NA			

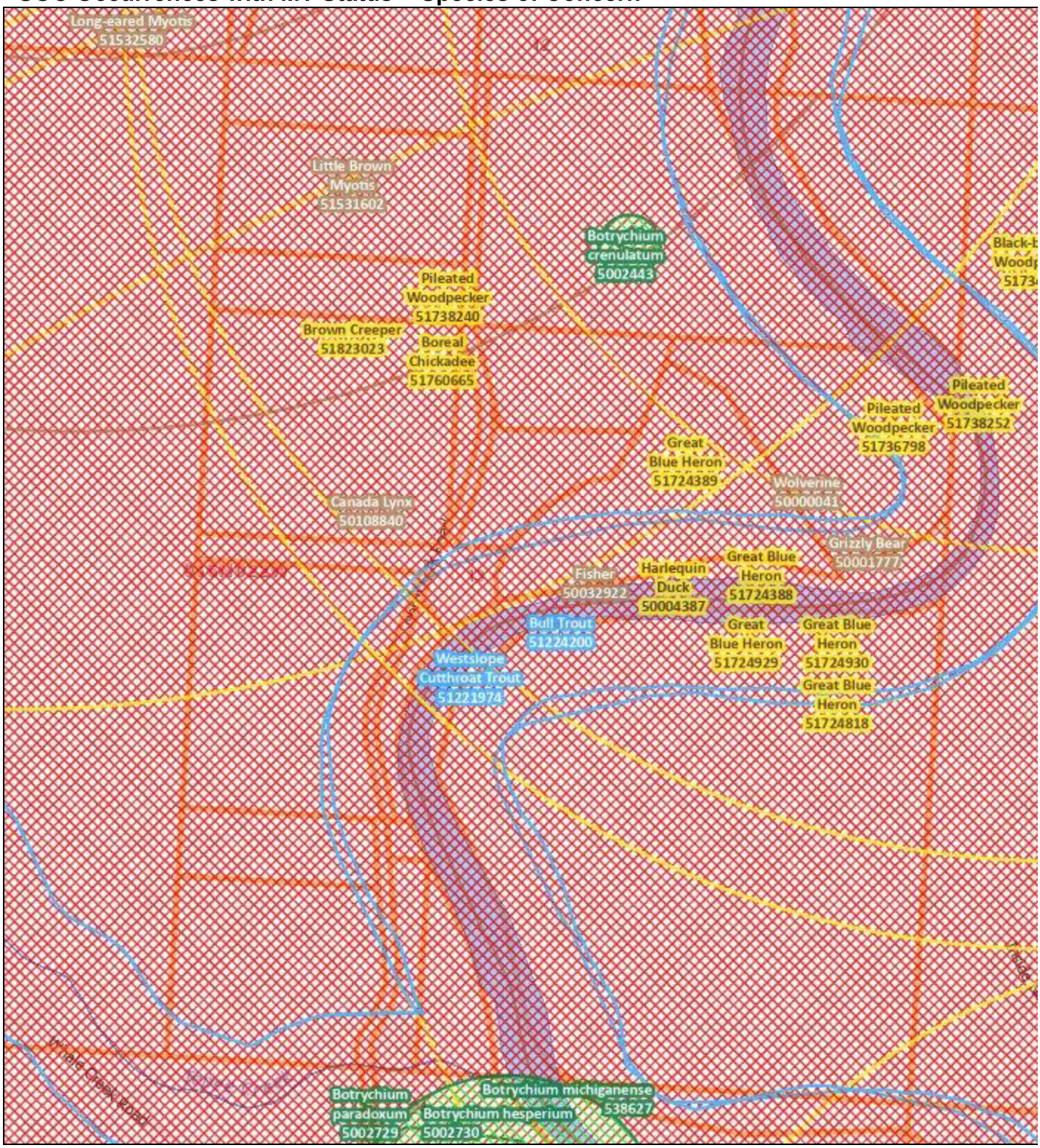
MONTANA STATE LIBRARY
NATURAL HERITAGE PROGRAM
A program of the **Montana State Library's Natural Resource Information System**.

Latitude	Longitude
48.87327	-114.34395
48.89365	-114.39679

Montana SOC Occurrences Report

SOC Occurrences with MT Status = Species of Concern

Report generated 5/19/2026 10:25:16 AM



⊞ **Mammals - Canada Lynx** *(Lynx canadensis)*

	SO Count: 2	**Obs Count**: 2155	**Earliest Obs**: 1895	**Recent Obs**: 2026
⊞ **Mammals - Fisher** *(Pekania pennanti)*				
	SO Count: 1	**Obs Count**: 216	**Earliest Obs**: 1947	**Recent Obs**: 2026
⊞ **Mammals - Grizzly Bear** *(Ursus arctos)*				
	SO Count: 1	**Obs Count**: 1521	**Earliest Obs**: 1895	**Recent Obs**: 2025
⊞ **Mammals - Little Brown Myotis** *(Myotis lucifugus)*				
	SO Count: 1	**Obs Count**: 1	**Earliest Obs**: 2007	**Recent Obs**: 2007
⊞ **Mammals - Long-eared Myotis** *(Myotis evotis)*				
	SO Count: 1	**Obs Count**: 1	**Earliest Obs**: 2007	**Recent Obs**: 2007
⊞ **Mammals - Wolverine** *(Gulo gulo)*	**SO Count**: 1	**Obs Count**: 2033	**Earliest Obs**: 1934	**Recent Obs**: 2025
⊞ **Birds - Black-backed Woodpecker** *(Picoides arcticus)*				
	SO Count: 2	**Obs Count**: 2	**Earliest Obs**: 2005	**Recent Obs**: 2021
⊞ **Birds - Boreal Chickadee** *(Poecile hudsonicus)*				
	SO Count: 1	**Obs Count**: 1	**Earliest Obs**: 2023	**Recent Obs**: 2023
⊞ **Birds - Brown Creeper** *(Certhia americana)*				
	SO Count: 1	**Obs Count**: 1	**Earliest Obs**: 2023	**Recent Obs**: 2023
⊞ **Birds - Great Blue Heron** *(Ardea herodias)*				
	SO Count: 5	**Obs Count**: 5	**Earliest Obs**: 1992	**Recent Obs**: 1993
⊞ **Birds - Harlequin Duck** *(Histrionicus histrionicus)*				
	SO Count: 1	**Obs Count**: 153	**Earliest Obs**: 1976	**Recent Obs**: 2024
⊞ **Birds - Pileated Woodpecker** *(Dryocopus pileatus)*				
	SO Count: 3	**Obs Count**: 3	**Earliest Obs**: 2021	**Recent Obs**: 2024
⊞ **Birds - Varied Thrush** *(Ixoreus naevius)*				
	SO Count: 1	**Obs Count**: 1	**Earliest Obs**: 2022	**Recent Obs**: 2022
⊞ **Fish - Bull Trout** *(Salvelinus confluentus)*				
	SO Count: 1	**Obs Count**: 222	**Earliest Obs**: 1979	**Recent Obs**: 2021
⊞ **Fish - Westslope Cutthroat Trout** *(Oncorhynchus lewisi)*				
	SO Count: 1	**Obs Count**: 365	**Earliest Obs**: 1984	**Recent Obs**: 2021
⊞ **Vascular Plants - *Botrychium crenulatum*** (Wavy Moonwort)				
	SO Count: 1	**Obs Count**: 1	**Earliest Obs**: 1999	**Recent Obs**: 1999
⊞ **Vascular Plants - *Botrychium hesperium*** (Western Moonwort)				
	SO Count: 1	**Obs Count**: 3	**Earliest Obs**: 1998	**Recent Obs**: 1999
⊞ **Vascular Plants - *Botrychium michiganense*** (Michigan Moonwort)				
	SO Count: 2	**Obs Count**: 2	**Earliest Obs**: 1999	**Recent Obs**: 1999
⊞ **Vascular Plants - *Botrychium paradoxum*** (Peculiar Moonwort)				
	SO Count: 1	**Obs Count**: 1	**Earliest Obs**: 1998	**Recent Obs**: 1998

Citation for this report:
Montana SOC Occurrences Report
SOC Occurrences with MT Status = Species of Concern
Within Lat/Long: (48.87327,-114.34395) to (48.89365,-114.39679)
Natural Heritage Map Viewer. Montana Natural Heritage Program.
Retrieved on May 19, 2026, from https://mtnhp.org/MapViewer/SOReport.aspx

Map Scale: 1:543 if printed on A portrait (8.5" x 11") sheet.

N

Meters
0 5 10 20 30

Feet
0 25 50 100 150

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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: Flathead National Forest Area, Montana
Survey Area Data: Version 22, Aug 30, 2025

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

Date(s) aerial images were photographed: Aug 31, 2021—Oct 12, 2021

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
10-2	Fluvents, stream bottoms	0.3	21.3%
28-7	Dystric Eutrochrepts, outwash substratum	1.0	78.7%
Totals for Area of Interest		**1.2**	**100.0%**

Flathead National Forest Area, Montana

28-7—Dystric Eutrochrepts, outwash substratum

Map Unit Setting

National map unit symbol: nq3q
Elevation: 3,000 to 4,100 feet
Mean annual precipitation: 20 to 40 inches
Mean annual air temperature: 39 to 43 degrees F
Frost-free period: 70 to 105 days
Farmland classification: Not prime farmland

Map Unit Composition

Dystric eutrochrepts and similar soils: 85 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dystric Eutrochrepts

Setting

Landform: Terraces
Parent material: Outwash

Typical profile

Oi - 0 to 3 inches: slightly decomposed plant material
Bs - 3 to 9 inches: silt loam
2Bw1 - 9 to 18 inches: extremely gravelly loam
2Bw2 - 18 to 31 inches: extremely gravelly loam
2C - 31 to 60 inches: very cobbly loamy sand

Properties and qualities

Slope: 0 to 20 percent
Depth to restrictive feature: More than 80 inches
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Hydrologic Soil Group: B
Ecological site: F043AP909MT - Upland Cool Woodland Group
Other vegetative classification: Douglas-fir/dwarf huckleberry (PK250), subalpine fir/dwarf huckleberry (PK640)

Data Source Information

Soil Survey Area: Flathead National Forest Area, Montana
Survey Area Data: Version 22, Aug 30, 2025

Flathead National Forest Area, Montana

10-2—Fluvents, stream bottoms

Map Unit Setting

National map unit symbol: np27
Elevation: 3,000 to 5,000 feet
Mean annual precipitation: 20 to 40 inches
Mean annual air temperature: 39 to 45 degrees F
Frost-free period: 95 to 135 days
Farmland classification: Not prime farmland

Map Unit Composition

Fluvents and similar soils: 90 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Fluvents

Setting

Landform: Flood plains
Parent material: Alluvium

Typical profile

A - 0 to 10 inches: loamy sand
C1 - 10 to 29 inches: stratified fine sandy loam to sand
2C2 - 29 to 60 inches: very gravelly loamy sand

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water supply, 0 to 60 inches: Low (about 3.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Hydrologic Soil Group: A
Ecological site: R043AP802MT - Bottomland Group
Other vegetative classification: Douglas-fir/snowberry (PK310), subalpine fir/queencup beadlily (PK620), subalpine fir/dwarf huckleberry (PK640)

Data Source Information

Soil Survey Area: Flathead National Forest Area, Montana
Survey Area Data: Version 22, Aug 30, 2025

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands

May 19, 2026

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.