

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:* Jeff and Lisa Underdahl, 213 Peregrine Lane, Whitefish MT 59937
2. *Type of action:* Permit to Appropriate water 76LJ-30051797
3. *Water source name:* Groundwater well
4. *Location affected by project:* NE $\frac{1}{4}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 12, Township 31, Range 20W, Flathead County.
5. *Narrative summary of the proposed project, purpose, action to be taken, and benefits:*
The DNRC shall issue a water use permit if an applicant proves the criteria in 85-2-311 MCA are met.

This application is to obtain a water use permit for a well located in the Glacier National Park Compact Area in the above-described location. The applicant proposes to divert water at a rate of 5 GPM up to 1.25 acre-feet per year. The proposed use is for domestic use from January 1 through December 31 and lawn and garden use from April 25 through October 5 inclusive of each year.

6. *Agencies consulted during preparation of the Environmental Assessment:*
(include agencies with overlapping jurisdiction)

The National Park Service is being notified per compact requirement.
Montana Natural Heritage Program
US Fish and Wildlife Service
Natural Resource Conservation Service

Part II. Environmental Review

1. **Environmental Impact Checklist:**

PHYSICAL ENVIRONMENT

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.

Determination: Not applicable, the source is groundwater.

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.

Determination: Not applicable, the source is groundwater.

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.

Determination: The applicant will derive ground water from the aquifer at a rate up to 5 GPM. The well was completed to a depth of 118 feet below ground surface (bgs) and has a static water level of 13 feet. Mills knife perforations at 71 and 73 feet are 3/8" x 3" and a continuous stainless screen is from 100 to 105 feet. No immediate impacts to surface water.

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.

Determination: The well was constructed with a 6-inch steel casing to a depth of 100.17 feet bgs and a 4-inch PVC liner from 60 feet to 100 feet. There are Mills knife perforations of 3/8" x 3" at 71 and 73 feet and a continuous stainless screen from 100 to 105 feet. The well was completed by a licensed Montana state driller, license WWC-497, in November of 2003. No significant impacts have been noted.

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 or 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."

Determination: The Wolverine, Canada Lynx, and Fisher frequent this area of Flathead County. The well is drilled and should not impact area wildlife. Other species of concern include the Brown Creeper, Pileated Woodpecker, Common Loon, Harlequin Duck, Pacific Wren, Northern Alligator Lizard, Westslope Cutthroat Trout, Bull Trout, Lake Trout, Maidenhair Spleenwort, Prairie Moonwort, Western Moonwort, Mountain Moonwort, Peculiar Moonwort, Deer Indian Paintbrush, Short-Styled Thistle, Latah Tule Pea, Giant Helleborine, Slender Cottongrass, Tufted Club-rush, Aloina moss and Meesia moss.

Wetlands - Consult and assess whether the apparent wetland is a functional wetland (according to COE definitions), and whether the wetland resource would be impacted.

Determination: There are no wetlands in the area of this project.

Ponds - *For ponds, consult and assess whether existing wildlife, waterfowl, or fisheries resources would be impacted.*

Determination: Not applicable, the project does not involve a pond.

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.*

Determination: This part of the Flathead National Forest is made-up of aquepts, stream bottoms. Typical profile consists of gravelly loam, very gravelly sandy loam and extremely gravelly sand with a moderately high to high transmitting capacity and a low available water capacity. No saline seep.

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.*

Determination: The land use will not change so no impact is anticipated.

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

Determination: No impact.

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: No impact from the proposed project.

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

Determination: None

| |
|--------------------------|
| HUMAN ENVIRONMENT |
|--------------------------|

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

Determination: The project is consistent with planned land use.

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.*

Determination: The well is drilled on private property. It will not impact recreation or effect wilderness activities.

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

Determination: No impact.

PRIVATE PROPERTY - *Assess whether there are any government regulatory impacts on private property rights.*

Yes___ NoXX *If yes, analyze any alternatives considered that could reduce, minimize, or eliminate the regulation of private property rights.*

Determination: No impact.

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? No
- (b) Local and state tax base and tax revenues? Values already assessed.
- (c) Existing land uses? No
- (d) Quantity and distribution of employment? No
- (e) Distribution and density of population and housing? No
- (f) Demands for government services? No
- (g) Industrial and commercial activity? No
- (h) Utilities? No
- (i) Transportation? No
- (j) Safety? No
- (k) Other appropriate social and economic circumstances? None

2. *Secondary and cumulative impacts on the physical environment and human population:*

Secondary Impacts: None

Cumulative Impacts: None

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:***

PART III. Conclusion

1. ***Preferred Alternative:*** As proposed

2. ***Comments and Responses:*** None

3. ***Finding:***
Yes___ No**XX**_ *Based on the significance criteria evaluated in this EA, is an EIS required?*

If an EIS is not required, explain why the EA is the appropriate level of analysis for this proposed action: No significant impacts have been identified; therefore, no EIS is necessary.

Name of person(s) responsible for preparation of EA:

Name: Kathy Olsen
Title: Water Resource Specialist
Date: October 27, 2011