

5. **Narrative summary of the proposed project, purpose, action to be taken, and benefits:**

The Applicant proposes to divert and use water from Island Creek (Island Lake), by means of a pump, April 15th thru October 15th at a rate of 30 GPM up to 1.9 AF, from a point in NWSWNWNE, Section 31, Township 29N, Range 26W, Lincoln, Montana for lawn and garden use. 0.75 acres will be irrigated. The DNRC shall issue a water use permit if an applicant proves the criteria in 85-2-311 MCA are met.

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

Montana Natural Heritage Program
Natural Resources and Conservation Service soil maps
Montana Department of Environmental Quality
United States Fish and Wildlife Wetland Mapper
Department of Fish, Wildlife and Parks

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.

The source of water for the proposed project is Island Creek (Island Lake), which has a surface area of approximately 205 acres. The geology around the Lake consists of glacial deposits of unconsolidated silt, sand and gravel. The Lake is not identified as being periodically or chronically dewatered.

Determination: No 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.

Island Lake is not listed by the MDEQ for having water quality impairment issues or for being threatened.

Determination: No 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.

Determination: Not applicable, application is for 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.*

The Applicant proposes to pump surface water from Island Creek (Island Lake) at a rate of 30 GPM via a Munro LP 2 HP jet pump, model number LP200B. From the pump water will travel uphill via a two-inch mainline and 1.5-inch branch lines to eight hydrants. Water will be distributed to the yard via 1-inch garden hoses and moveable sprinklers. Pump specifications were included in the application. Based on the total dynamic head (128 feet) and pump specifications (60 psi output or 139 feet); the system can produce and distribute the requested flow rate of 30 GPM and volume of 1.9 AF for lawn and garden use

Determination: No impact

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 Montana Natural Heritage Program and DFWP websites were reviewed to determine if there are any threatened or endangered fish, wildlife, plants or aquatic species or any "species of special concern", that could be impacted by the proposed project.

According to the Montana Natural Heritage Program in Township 29N, Range 26W there are no plant species listed threatened or sensitive or species of concern.

The Canada Lynx is listed as threatened the Fisher, Common Loon, Westslope Cutthroat Trout and Columbia River Redband Trout are listed as sensitive by the USFS. The Wolverine, Northern Goshawk, Great Blue Heron, Great Gray Owl and Shiny Tanager are species of concern for the state of Montana. An adequate quantity of water will still exist in surface water sources to maintain existing populations of aquatic species should they exist there currently. Human development has existed near this lake 20 plus years; any impacts to sensitive mammal species most likely has already occurred. No impact.

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: The property is not located within a designated wetland boundary.

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

Determination: N/A

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: Soil within the proposed place of use is made up of silt loam and very fine sandy loam. Available water storage in the soil is low and the soil is classified as non-saline. The proposed use is not expected to degrade or significantly alter the soil profile.

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: Private property and the property owner is responsible for spread of noxious weeds. No impact.

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

Determination: No impacts are anticipated.

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*

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

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: No other impacts were identified during this EA.

HUMAN ENVIRONMENT

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

Determination: No inconsistency noted.

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: No impact expected.

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

Determination: No impact expected.

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? None*
- (b) Local and state tax base and tax revenues? None*
- (c) Existing land uses? None*
- (d) Quantity and distribution of employment? None*
- (e) Distribution and density of population and housing? None*
- (f) Demands for government services? None*
- (g) Industrial and commercial activity? None*
- (h) Utilities? None*
- (i) Transportation? None*
- (j) Safety? None*
- (k) Other appropriate social and economic circumstances? None*

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 identified

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:* No reasonable alternatives identified.

PART III. Conclusion

1. Preferred Alternative: *None*

2 Comments and Responses: *None*

3. Finding:

Yes___ No_x__ 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:

An EA is the appropriate level of analysis for the proposed action because no significant impacts were identified.

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

Name: Melissa Brickl

Title: Hydrologist/Water Resource Specialist

Date: April 28, 2020