Constance Cummins, Forest Supervisor c/o Michael Jiménez, Project Leader Superior National Forest 8901 Grand Avenue Place Duluth, MN 55808

Re: Lutsen Mountains Expansion DEIS Project

Dear Supervisor Cummins,

Alecse see attached drawing on item #2

Nov 30, 2021

Action Alternative 1 Please protect Moose and Fagle

I recommend the Forest Service choose the No Action Alternative 1. Please protect Moose and Eagle Mountains forests/animals for our children and future generations.

If the Forest Service is still considering Alternate 2 or 3 proposed action, please before proceeding require LMC to agree to the following:

- 1. Reach an agreement with SHTA on an acceptable re-route and LMC to cover all costs. The SHTA Director's Nov 4th 2021 letter states there has been no agreement reached.
- 2. Agree to a complete Engineering review of the Lake Superior water intake system; pump vault, 4 pumps, 20-inch 200ft intake pipe, filtration, LMC's storage ponds/capacity. The \$5M system had several serious problems pumping water from Lake Superior for their snowmaking. LMC uses 140 million gallons/year and will need to increase two fold for Alternate 2 or 3 to succeed. A summary of issues of the system includes, but are probably not limited to the following:
 - a. 2014 Severe cracks in the original foundation for the four pumps (two 450HP and two 50HP) which are 30ft underground on the shoreline of Lutsen resort's property.
 - b. 2014 The 20-inch 200ft stored pipe ended up in Two Harbors due to a winter storm. According to Tom Rider, Marine Tech Co. was replaced by LHB Co. to install the 200ft pipe properly.
 - c. Per Mr. Rider "one million pounds" was put on the intake pipe to hold it in place. One million pounds of concrete would be equivalent in size to the Cook County Courthouse. Per the LHB Co. drawing C2.00, the intake is only 20-25 feet below Lake Superior's surface.
 - d. 2017 In a winter test of the intake system, it plugged and failed due to an algae problem.
 - e. 2018 The filtration system was modified. The algae problem according to Tom Rider is rare but likely periodic. Lake Superior's yearly water temperature is rising and algae will likely be an ongoing issue. This year the lake was around 5.0F degrees above average.
 - f. 2021 Sand plugged the 20" pipeline and filled the pump vault 30ft underground. LMC hired a mining contractor to remove the sand from the intake and pump house.
- 3. If LMC or a future owner closes the ski business, they must agree in the SUP to remove all structures and restore Moose and Eagle Mtns to natural forest.
- 4. For each tree cut down on Moose and Eagle Mtns, LMC must plant 200 saplings Cook County.

In conclusion I am strongly against Alternatives 2 or 3. Please choose No Action Alternative 1.

Sincerely, Mark Dobbelmann SHTA members 1994-2003

sypthises beli MATER SUPPLY LINE PLAN & PROFILE STA. 100+00 TO 112+50 **C2.00** sold with fall disclosure use had a lk Superior great assignaly installed System failed phygging remedies and dollar debris oxnd alage からめ PURKY 2 WIRS due to Dy a Northshore well installer The Aster numerous Intake system we gave to 691.0 LMC Lake System -BEN AT TOP OF BY FRE (MP.) 17099 CONSTRUCT BITUMINOUS ACCESS ROAD SEE SHEET CI,OH & C2.11 FOR DETAILS ACCEST RU TO WEST FLANK PLAT вивар елество STENE CRICE OLDY (NP.) -SEPTIC FIELD LOCATION APPROXIMATE LOCATED FROM PLAN DATE 5/30/03 BURED TELPHONE PUIP HOUSE NOT WALLS PULP HOTE INTAKE

MERT EL = 592.00" 8 62729 UNED CATY EAST LINE LUISEN ... COLF COURSE PUMP HOUSE BLDG. CHO OF BEACH VECETATION HAS A BURED MANNOLE IN THE BEACH.
LOCATION AND DEPTH UNKNOWN, UNE SUPBLOR OI.1" (FEB 2012) WATTER'S EDGE AS NAPPED FEB. 2012 — DESCN EL. 601,1' 6-WCH LINE NOT STORN BY PROTECTION OF PROTECTION OF THE PROTECTION LOW WATER MARK 509.37

This system and all tribit H fixes should be reviewed by a 3sd party independent Eng. Finn better any sur is agreed

40 वर

womerous issues with intake and pump house fro