7.2-1 Net Creek Dam (Ministry of Natural Resources)

		Opt	ion 1		Option 2				
Issue Objective	Target/Existing Voluntary Constraint	Strategy	Benefits	Conflict or Concern	Target	Strategy	Benefits	Conflict or Concern	Rationale for selection of Preferred
Fisheries: -operate the dam to maintain or improve the fish habitat during its natural life cycle. Walleye spawning. (1.1.1)	-drawdown initiated last week of Feb3 logs out by 2nd week in March -levels are monitored to mitigate flooding potential (freshet) and ensure a balance for adequate water levels for walleye spawning upstream and down stream for the 20 day incubation	-maintain status quo operations to ensure continued protection fo walleye and pike spawning habitat/ time period. Draw down initiated last week of February -3 logs out by 2nd week in March	-maintain spawning habitat /conditions for walleye fisheries for upstream and downstream waterbodies	-minimal freshet / low water natura events might impact ability to provide adequate water for upstream and downstream simultaneously	-Option 1 maintains fish habitat				Option 1 maintains appropriate walleye habitat, no option 2
-operate the dam to maintain or improve the fish habitat during its natural life cycle. Trout spawning. (1.1.1, 1.1.2)					-begin the winter drawdown on September 15 by 30 cm and on Thanksgiving day weekend continue winter drawdown	-initiate the winter drawdown on September 15 by 30 cm to encourage the trout to spawn deeper (Oct) to protect incubation fry movement (Apr) from the final drawdownlevels are monitored to mitigate flooding potential (freshet) and ensure a balance for adequate water levels for walleye and pike spawning upstream and down stream for the 20 day incubation period post spawn	-fisheries - lake trout -flood mitigation -power production -public safety	-navigation -recreation	Option 2 revised drawdown potential benefit for trout spawning by encouraging deeper spawning
-operate the dam to maintain or improve the fish habitat during its natural life cycle. Pike spawning. (1.1.1)	-none								
Navigation:									
-No issue identified to date Recreation:	-none								
-No issue identified to date	-none								
for low lying areas - i.e. Guppyville (1.6.1,1.6.2)	-maintain status quo operations to ensure continued protection for walleye spawning habitat/ time period. Drawdown initiated last week of February -3 logs out by 2nd week in March -levels are monitored to mitigate flooding potential (freshet)		-current operations have proven effective at minimizing flooding potential -minimizes natural flooding of loon habitat -power production at low natural inflow period.	-minor impact on beaver habitat -potential for ice hang up damage to docks if water levels were high when ice formed	-begin the winter drawdown on September 15 by 30 cm and on Thanksgiving day weekend continue winter drawdown	-the winter drawdown on September 15 by 30 cm to avoid disturbing trout spawning and incubation and on Thanksgiving day weekend continue winter drawdown	-fisheries -flood mitigation (docks)	-power production	Option 2 selected: - Improves flood mitigation - Improves trout spawning habitat
First Nations: -No issue identifed to date	-none								
Cultural Heritage: -No issues identifed to date	-none								
Erosion: -No issue identified to date	-none								

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		Ор	tion 1			Option 2			
Issue Objective	Target/Existing Voluntary Constraint	Strategy	Benefits	Conflict or Concern	Target	Strategy	Benefits	Conflict or Concern	Rationale for selection of Preferred
Wildlife: -operate the dam to maintain or improve Loon habitat (1.2.1)	-none								
-maintain or improve habitat for beavers (1.2.2)	-none				-begin the winter drawdown on September 15 by 30 cm and on Thanksgiving day weekend continue winter drawdown	the winter drawdown on September 15 by 30 cm to avoid disturbing trout spawning and incubation and on Thanksgiving day weekend continue winter drawdown levels are monitored to mitigate flooding potential (freshet) and ensure a balance for adequate water levels for walleye spawning upstream and down stream for the 20 day incubation period post spawn establish a communication protocol between the Temagami Area Fisheries Involvement Program and the MNR from April 25th to the end of incubation	-fisheries - lake trout -flood mitigation -power production	-navigation	Option 2 selected: - Improves beaver habitat
Economics: - No issue identified to date	- none								
Public Safety: -operate the dam to maximize public safety - late winter draw down has impact on ice conditions near inlet and outlet of dam site - potential snowmobile hazard	-draw down initiated last week of February -3 logs out by 2nd week in March-levels are monitored to mitigate flooding potential (freshet) -normal operating range 295.30 - 296.30 m -absolute range 294.92 - 297.05 m -summer band 296.16 - 296.30 m summer period	-operate dam within the normal operating range on a reasonable effort basis, but use flood allowance to minimize flooding downstream -educate the public	-contributes to public safety	-none	-begin the winter drawdown on September 15 by 30 cm to avoid disturbing trout spawning and incubation and on Thanksgiving day weekend continue winter drawdown -levels are monitored to mitigate flooding potential (freshet) and ensure a balance for adequate water levels for walleye spawning upstream and down stream for the 20 day incubation period post spawn -establish a communication protocol between the Temagami Area Fisheries Involvement Program and the MNR from April 25th to the end of incubation	-fisheries - lake trout -flood mitigation -power production	-navigation	-power production	Option 2 selected: - Improves flood mitigation - Improves trout spawning habitat
Power Generation: -operate the dam to maintain or improve power production	- draw down initiated last week of Feb 3 logs out by 2nd week in March - levels are monitored to mitigate flooding potential (freshet) - normal operating range 295.30 - 296.30 m - absolute range 294.92 - 297.05 m - summer band 296.16 - 296.30 m summer period	the walleye incubation is complete	from optimum timing use of stored water during low flow periods.		and operate within legal limits to maximize power production	-maximize power production within legal limits	-power production -public safety	-fisheries -recreation -navigation -erosion -wildlife	Option 1 maintains power generation downstream, no Option 2
Natural Flow Regime*: -operate the dam to reflect a natural flow regime	-draw down initiated last week of February -3 logs out by 2nd week in March -levels are monitored to mitigate flooding potential (freshet) -normal operating range 295.30 - 296.30 m -absolute range 294.92 - 297.05 m -summer band 296.16 - 296.30 m summer period		-some power production benefits from optimum timing use of stored water during low flow periods.	- potential public safety concern fo impact on ice conditions	Natural Flow Regime data not available for reservoirs.				Option 1 selected due to information gaps regarding natural flow regime data