

Appendix AA
 Summary of Referral Comments / MSAC Reasons for
 Short listing 121 Potential Storage Sites
 Phase 1 continued.....

December 13, 2007

	A	B	C	D	E
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2	Sub-Basin	L/S*	Code	Name	Comments by source:
3				Source Legend	<p>CCC - Coquihalla Cattle Co. (L. Cooke); CIB - Coldwater Indian Band (H. Aljam); CRSFS &/or Les - local residents); DFO - Department of Fisheries & Oceans, J. Guerin, Kamloops; DLR - Douglas Lake Ranch (S. Jacobs, S. Murray); DU - Ducks Unlimited (Library information); KITSCH - Dick (local resident); KJR Ranch - R. Thomsen; LNIB - Lower Nicola Indian Band (H. Joe); MOE - Ministry of Environment, Kamloops - A. Caverly; MOF - Ministry of Forests Lake Classification 1995-1998; MSAC - Creek Fish Hatchery - D. Turvey; STRAND - Doug (local resident); CURNOW - Sandy SCFH - Spius</p>
4	Clapperton Creek	L	101	Helmer Lake	<p>DU - NTS mapsheet 92I/7 Reference 92I-441. File exists.</p> <p>DFO - Flow issues on Clapperton Creek already. MoE managed fisheries in many of these lakes in the Clapperton system.</p> <p>KITSCH - Potential for storage.</p> <p>LNIB - Dam on lake, water used by Nicola Lake Ranch on an "as needed" basis and to keep Clapperton Creek viable for fish requirements.</p> <p>MOE - Existing storage supports Clapperton instream flow. Small lake fishery on Helmer with recreation site would be impacted by negative storage draw down or by higher water levels.</p> <p>MOF - Lake # 2048. Lake area 16.9 hectares. Elevation 1370 m. Mapsheet 92I037. Easy access off Coquihalla Hwy. Recreation site at SW end. Popular assembly point for Swakum Mtn. snowmobile trail system. Old cabin at south end. 4 lake inlets, 1 lake outlet. Wild stock fishery. Downstream name - Clapperton Creek. <u>Dam on lake</u>, Ministry of Environment has two water licences to maintain water levels for fish survival (3002897 - Conservation Storage 500 AF, 3002898 Conservation Storage - 500 AF. Water Licence CL 56518 (0125377) Storage Non-Power 2500 AF - Coquihalla Developments Corp.</p>
5	Clapperton Creek	L	89	Conant lake	<p>DU - NTS mapsheet 92I/7 No information.</p> <p>MOE - Existing stroage support Clapperton instream flow. Additional storage requires wetland impacts assessment. Licence C056518 in Clapperton Creek for 2500 AF includes Conant, Helmer, Surrey and other surrounding waterbodies.</p> <p>MOF - Lake # 2077. Lake area 18.1 hectares. Elevation 1402 m. Mapsheet 92I028. 4WD access to lake. Downstream name - Mabel Creek. No fish present, 6 m deep. 1 lake inlet, 1 lake outlet. Powerline crosses over N end of lake. Crown land. Waterfowl use, moose, White & Mule deer. <u>Dam on lake</u>, water level fluctuates 1 to 1.5 m per year. Original water licence C13194 for 5000 AF - Storage & Irrigation. Existing licence C56518 - 2500 AF Storage Non-Power - Coquihalla Developments Corp. (of original licence). In 1998 Ministry of Environment Fisheries Branch was trying to assume control of C56518 under Z109560 & Z109561 - Conservation Storage - 5000 AF. Other licences that may be applicable are C13194 and C110656. Nicola Tribal Association carried out traditional use study 12/97.</p>

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6	Clapperton Creek	L	74	No Name 4 (Mabel/ Abbott Meadows)	<p>DU - NTS mapsheet 921/7 No information.</p> <p>MOE - Existing storage supports Clapperton instream flow. Requires wetlands impact assessment.</p> <p>MOF - Lake # 2078. Lake area 32.2 hectares. Elevation 1325 m. Mapsheet 921028. Man-made lake, originally a homestead in a large meadow. Crown land Lot 2081. Downstream Mule deer. Moose year round. <u>Dam on lake</u>. Water Licence C056518 Storage Non-power - 2500 AF - Coquihalla Developments Corp. Blue-green algae blooms are toxic to cattle during late summer meadows) Lake are C13195, C13194, C110656, Z109561 and Z109560.</p>
7	Clapperton Creek	L	106	Fox Lake	<p>DU - NTS mapsheet 921/2 No information.</p> <p>KITSCH - Lake is too small, plus there is sensitive ungulate habitat.</p> <p>MOF - Lake # 2080. Lake area 15 hectares. Elevation 1280 m. Mapsheet 921028. Approximately 100 m walk-in to lake. 1 lake inlet, 1 lake outlet. Downstream name - Fox Creek. No fisheries inform for waterfowl. Two range permittees. In 1998 Ministry of Environment applied for water licences Z109561 & Z 109560, Conservation Storage 5000 AF to assume control of C56518. Other pertinent water licences associated with Fox Lake may be C56518 - 2500 AF - Coquihalla Development Corp. and C13195 and C13194.</p> <p>MSAC - Eliminated from the shortlist due to lack of information.</p>
8	Clapperton Creek	L	38	Sussex Lake	<p>DU - NTS mapsheet 921/7 Reference 921-442. File exists.</p> <p>KITSCH - Conflict with a fishing camp on lake.</p> <p>LNIB - Dam on lake, water used by Nicola Lake Ranch on an "as needed" basis and to keep Clapperton Creek viable for fish requirements.</p> <p>MOE - Existing storage supports Clapperton instream flow. Requires wetland impacts assessment. Developed small lake fisheries would be impacted by negative storage draw down, resort on Surrey Accesses Sussex fishery.</p> <p>MOF - Lake # 2044. Lake area 33 hectares. Elevation 1445 m. Mapsheet 921037. Coquihalla Hwy within 1 km of west shoreline. Recreation site on northeast end (4 campsites). migrate from and to Surrey Lake. High winter ungulate use. <u>Dam on lake</u> lake, cattle trail on east side used between June - September. Affected by same Water Licence as for Surrey Lake, C056518 - Storage Non-Power 2500 AF - Coquihalla Development Corporation.</p>

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9	Clapperton Creek	L	22	Surrey Lake	<p>DU - NTS mapsheet 92I/7 Reference 92I-443. File exists.</p> <p>MOF - Lake # 2041. Lake area 54.4 hectares. Elevation 1457 metres. Mapsheet 92I037. Coquihalla Hwy is 400-1000 m from west shoreline. Surrey Lake Fishing Resort is located on north Pennask Lakes. First Nations people stocked the dammed lakes in the late 1920's, early 1930's. Depth 15+ metres. Spawning in stream inlet on northeast end of lake. <u>Dam on lake</u> at south end. Surrey Lake Resort draws domestic water from the lake. Skating rink in winter, ice fishing. High recreational use. Cabins on lake. Lake is drawn down in October for irrigation licence downstream. Water Licence C056518 - Storage Non-power 2500 AF - Coquihalla Development Corporation. Waterfowl, grouse, moose, deer. Cattle travel on road on west side of lake edge and use cattle trail on east side of lake between June-September.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>
10	Clapperton Creek	S	12		<p>DU - NTS mapsheet 92I/7 No information.</p> <p>Should this be a swamp, not a lake? MSAC agreed to change to Swamp, November 20, 2007.</p> <p>MOE - no information, wetland impact assessment required.</p>
11	* L= Lake, S=Swamp				When highlighted in Blue, indicates little to no known information, difficult to assess potential for storage without field examination.
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13	Sub-Basin	L/S*	Code	Name	Comments by source:
14				Source Legend	CCC - Coquihalla Cattle Co. (L. Cooke); CIB - Coldwater Indian Band (H. Aljam); CRSFS - Coldwater River Storage Feasibility Study (Dec 2002); CURNOW - Sandy &/or Les - local residents); DFO - Department of Fisheries & Oceans, J. Guerin, Kamloops; DLR - Douglas Lake Ranch (S. Jacobs, S. Murray); DU - Ducks Unlimited (Library information); KITSCH - Dick (local resident); KJR Ranch - R. Thomsen; MOF - Ministry of Forests Lake Classification 1995-1998; SCFH - Spius Creek Fish Hatchery - D. Turvey; STRAND - Doug (local resident);
15	Coldwater River	L	274	Mathew Lake	CCC - Surrounded by private land, Lots 713, 714 KDYD DU - NTS mapsheet 92I/2 Reference 92I-298 Biological reconnaissance. MSAC - Eliminated by MSAC Criteria #1 : Nicola Ranch B & B operation, clietns use for fishing.
16	Coldwater River	L	263	Chicken Ranch Lake	CCC - Surrounded by private land, Lot 4406 KDYD DU - NTS mapsheet 92H/15 Reference 92H-22 Biological preview. KITSCH - Recreational use, wildfowl nesting, rearing and other wildlife habitat issues, all suggest that the Kane Valley and Voght Valley be left unchanged. MOF - Lake # 2176. Lake area 5.2 hectares (3 hectares of shoal). Elevation 1070 m. Mapsheet 92H097. 2WD access. Downstream name - not applicable. Deeded Lot 4406 KDYD surrounds northern portion of lake. 1 lake inlet, 1 lake outlet. 1006 m of perimeter, mean depth 5 m, maximum depth 9.1 m. Rainbow Trout. Brook Trout stocked annu of wetland surrounding lake. No registered water licences. MSAC - Eliminated by MSAC Criteria #1: developed private land.
17	Coldwater River	L	90	Harrison Lake continued.....	CCC - Majority of lake surrounded by private land, Lot 2906 KDYD. Northeast end lies on Crown land. Existing dam broke in 2007, very little water retained. CRSFS - Low priority for additional storage. Existing dam embankment is in place; increasing the lake level would inundate 350 m of Kanevale Road along the shore. Lots 2 DU - NTS mapsheet 92H/15 Reference 92H-25 Biological reconnaissance. KITSCH - Recreational use, wildfowl nesting, rearing and other wildlife habitat issues, all suggest that the Kane Valley and Voght Valley be left unchanged.

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18				Harrison Lake	<p>MOF - Lake # 2181. Lake area 18.1 hectares. Elevation 1050 m. Mapsheet 92H097. Deeded Lots 2906 and 3223 surround most of the lake. 2WD access, recreation reserve on east end of lake on Crown land. Rainbow trout, red-sided shiners, not stocked. Downstream name - Kanevale Creek. Whitetail, mule deer & moose year round. Waterfowl breeding and staging. Barrows Goldeneye. <u>Dam on lake</u> Irrigation 27 AF. Heavy cattle use on deeded land.</p> <p>MSAC - Eliminated by MSAC Criteria #1: developed private land; and #2: Low priority ranking in Coldwater River Storage Feasibility Study, December 2002.</p>
19	Coldwater River	L	163	Upper Kane Lakes	<p>CCC - Northern edge of lake abutts private land, Lots 1484, 3228 KDYD</p> <p>DU - NTS mapsheet 92H/15 Reference 92H-21 Biological reconnaissance.</p> <p>KITSCH - Recreational use, wildfowl nesting, rearing and other wildlife habitat issues, all suggest that the Kane Valley and Voght Valley be left unchanged.</p> <p>MOF - Lake # 2178. Lake area 8.5 hectares. Elevation 1100 m. Mapsheet 92H097. 2WD access. Deeded Lots 1484 and 3228 KDYD abutt north side of lake. Dispersed recreation use. Rainbow trout stocked annually. Mean depth 8 m, maximum depth 9.5 m. Whitetail & Mule deer, moose year round. Waterfowl breeding and staging. Stock watering licence Z103139 for 2500GD held by DU.</p> <p>MSAC - Eliminated by MSAC Criteria #1: developed private land.</p>
20	Coldwater River	L	97	Shea Lake	<p>DU - NTS mapsheet 92H/15 Reference 92H-48 Biological reconnaissance.</p> <p>DFO - Recreation site.</p> <p>KITSCH - Recreational use, wildfowl nesting, rearing and other wildlife habitat issues, all suggest that the Kane Valley and Voght Valley be left unchanged.</p> <p>MOE - Small lakes fishery managed by Region 8 (Penticton), would be impacted by negative storage draw down. Wetland impact assessment required.</p> <p>MOF - Lake # 2183. Lake area 16.6 hectares. Elevation 1070 m. Mapsheets 92H097/087. 2WD access, lake on Crown land. Two popular recreation sites. Downstream name - Vogh round. Waterfowl breeding and staging. Large wetland area north end of lake. No registered water licences.</p>
21	Coldwater River	L	246	No Name 81	<p>DU - NTS mapsheet 92H/15 Reference 92H-19 <u>Completed project</u>.</p> <p>MSAC - Eliminated by MSAC Criteria #6: Ducks Unlimited completed project takes precedence.</p>

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22	Coldwater River	L	149	Edna Lake	<p>CCC - Surrounded by private land, Lots 3765, 4420 KDYD</p> <p>CRSFS - Cultivated land would be inundated. Site is located on Lot 3765.</p> <p>DU - NTS mapsheet 92I/2 Reference 92I-173 Biological Preview.</p> <p>KJR Ranch - <u>Unmaintained existing dam</u> on Edna Lake, water licence believed to be held by P. Chambers. One stream inlet feeding Edna comes out of a steep narrow gully which then flattens out on top. This might be considered for a dam structure to hold water above Edna Lake.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>
23	Coldwater River	L	108	Brook Lake	<p>DU - NTS mapsheet 92H/10 No information.</p> <p>CRSFS - One of the eight recommended sites with potential to provide increased storage and increased streamflows in the low flow period of the year. Medium priority for further storage assessment, possibly suitable for low earth dam construction at point of stream discharge.</p> <p>MOE - Brook Creek supports threatened steelhead spawning/rearing and flow to Coldwater River, needs Instream Flow Assessment and conservation flow built into water</p> <p>MOF - Lake # 2247. Lake area 14.3 hectares. Elevation 1520 m. Mapsheet 92H076. Walk-in access of 400 m from south. Recreation site just north of lake, with toilet due to Community Watershed status. Lake is domestic water source for Brookmere residents. Within Brook Creek Local Resource Management Plan Area. Downstream name - Brook Creek on which 39 water licences are held. 2 lake inlets, 1 lake outlet. Large wild population of Rainbow Trout. Fish rearing in outflow stream below Brook Lake, spawning between Andys and Brook Lakes.</p>
24	Coldwater River	L	125	East Second Lake	<p>DU - NTS mapsheet 92H/15 Reference 92H-23 Biological preview.</p> <p>MOF - Lake # 2175. Lake area 13.1 hectares. Elevation 1120 m. Mapsheet 92H097. 2WD access. Crown land. Downstream name - not applicable. Recreation Reserve 4559, 1716. 1 lake inlet, 1 late outlet. Eastern Brook Trout stocked annually. Maximum depth 13.1 m. Considered to be a chain lake with West Second Lake because they are less than 100 m apart and connected by a water way. Whitetail & mule deer and moose year round. Waterfowl breeding and staging. Kane Lake Ranch advises they hold a s</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>

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25	Coldwater River	L	87	Garcia Lake	<p>CCC - Surrounded by private land, Lots 712, 2391 KDYD. B & B clients at Matthew Lake use this lake to fish.</p> <p>CIB - Review with Lower Nicola Indian Band.</p> <p>CURNOW - New highway Right of Way has produced fresh spring water in this area. Do not know the impact to Garcia / Godey Creek system.</p> <p>DU - NTS mapsheet 92I/2 Reference 92I-297 Biological reconnaissance.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>
26	Coldwater River	L	146	Little Douglas Lake	<p>CIB - Cultural area with high value to First Nations, no changes to Little Douglas Lake will be entertained. Westscapes Development Ltd. planning ski resort for future, have plans for holding water with quality within the Upper Coldwater River watershed.</p> <p>CRSFS - One of the eight recommended sites with potential to provide increased storage and increased streamflows in the low flow period of the year. Medium priority for further storage assessment based on office not field information.</p> <p>DFO - Flow concerns in Coldwater River. Likely First Nations concerns, conflicts with all-season resort proposal? Fish stocks present?</p> <p>DU - NTS mapsheet 92H/11 No information.</p>
27				Little Douglas Lake	<p>MOF - Lake #2292. Lake area 11.4 hectares. Elevation 1325 m. Mapsheet 92H065. Walk-in access of 1.3 km. Crown land. Recreation site at trail head. Downstream name - Upper Coldwater ! to nine coniferous tree species present. Beautiful cirque lake, rare in the Merritt area. No registered water licences.</p> <p>SCFH - Stream outlet from Little Douglas Lake runs into Upper Coldwater River. From the mouth of the Coldwater River up to this junction DFO advises that Coho salmon have been sampled. Chinook salmon also utilize the lower reaches of the Upper Coldwater River up to 1st bridge past highway yard. Stored water would benefit fishery.</p> <p>MSAC - Eliminated by MSAC Criteria #3: existing First Nations values considered to be high.</p>
28	Coldwater River	L	120	No Name 18	<p>CCC - Water stored would be lost in swamp "19". Very shallow, would only supply warm water source to Coldwater River system.</p> <p>DU - No information.</p>

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29	Coldwater River	L	83	Gillis Lake	<p>CIB - Lies in steeper terrain, small water body next to Gillis Lake will be affected. Future additional hydro lines are planned to run beside existing power line. Fish bearing lake, fish spawn in creek below, but unsure if fish travel between the creek and lake itself, due to steepness of creek.</p> <p>CRSFS - One of the eight recommended sites with potential to provide increased storage and increased streamflows in the low flow period of the year. High priority for further storage assessment, possibly suitable for low earth dam construction at south end of lake.</p> <p>DFO - recreation site</p> <p>DU - No information.</p> <p>MOE - Small lake fishery value assessment including spawning areas. Outlet streamflow contribution to Coldwater River unknown.</p>
30				Gillis Lake	<p>MOF - Lake # 2172. Lake area 20 hectares. Elevation 1140 m. 2WD access. Downstream name - Gillis Creek. Two recreation sites, very popular lake. Crown land. Powerline visible from lake. 1 lake inlet, 1 lake outlet. 1829 m of perimeter, mean depth 6 m, maximum depth 23.8 m. Stocked annually with Rainbow Trout, natural recruitment can occur. Few moose, mule deer year round. Waterfowl. No registered Water licences on lake but three water licences are held downstream for irrigation and storage non-power, as well as domestic. Netting on outlet stream by First Nations. Coldwater Band traditional use area. Lake #2171 (3.3 hectares) immediately west of Gillis Lake feeds water to Gillis and may be stocked with Rainbow Trout if there are no fish obstacles between the two (possible rearing). No registered water licences to this small lake.</p> <p>SCFH - Outlet stream benefit salmon.</p> <p>STRAND - Potential for increased storage.</p>
31	Coldwater River	L	132	Fig Lake continued.....	<p>CCC - Stream flowing out of Fig Lake well shaded, chance of supplying colder water to Coldwater River system.</p> <p>CRSFS - One of the eight recommended sites with potential to provide increased storage and increased streamflows in the low flow period of the year. High priority for further storage assessment, possibly suitable for low earth dam construction at north end of lake.</p> <p>DU - No information.</p> <p>MOE - No information.</p>

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32				Fig Lake	<p>MOF - Lake # 2213. Lake area 11.6 hectares. Elevation 1120 m. Mapsheet 92H086. 2WD access from Coquihalla Hwy, Larson Hill exit. Road runs directly along eastern shore round, within Ungulate Winter Range. Yellow-bellied marmots. Waterfowl breeding and staging. Heavy cattle use in vicinity. Wetland development at north and south end of lake. Minist lake.</p> <p>STRAND - Potential for increased storage, barren of fish, cold and has a close proximity to the Coldwater River.</p>
33	Coldwater River	L	126	Andys Lake	<p>DU - NTS mapsheet 92H/10 No information.</p> <p>MOE - Brook Creek supports threatened steelhead spawning/rearing and Coldwater River flow. Needs Instream Flow Assessment and `conservation flow built into water</p> <p>MOF - Lake # 2248. Lake area 13.2 hectares. Elevation 1510 m. Mapsheet 92H076. 2WD access, recreation site at northern end. Heavy snowmobile use in winter. Downstream name - Brook Lake. 1 lake outlet. Large wild population of Rainbow Trout, no stocking. Some waterfowl use in north bay. Summer range for muledeer. Community Watershed for Brookmere, domestic water source. Range use restricted in this area as cattle present health hazard to drinking water. Within Brook Creek Local Resource Use Plan, 39 water licences on Brook Creek.</p>
34	Coldwater River	L	160	Lily Lake	<p>CIB - Have wanted to raise the water level but inflow is not sufficient. Also an issue of flooding wetlands. Elders dammed in the past (1930's) but it is not known how high the water level was raised.</p> <p>CRSFS - One of twenty one sites assessed for potential to provide increased storage and increased streamflows in the low flow period of the year. Low priority, not recommended for further storage assessment. Currently used as recreational fishing ground, and wetlands would be affected by storage development.</p> <p>DU - NTS mapsheet 92I/2 No information.</p>
35				Lily Lake	<p>MOF - Lake # 2114. Lake area 10.3 hectares. Elevation 1170 m. Mapsheet 92I006. Road access to recreation site at northwest end of lake. 0 lake inlets, 1 lake outlet. Downstream name - not applicable. Maximum depth 13.1 m, Rainbow Trout stocked every second Fall. 2615 metres of perimeter. Waterfowl staging, nesting, breeding. Moose year round, Whitetail & mule deer spring/summer fall range. Many bird species frequent. No registered water licences. Cattle use lake in summer for watering.</p> <p>MSAC - Eliminated by MSAC Criteria #2: Coldwater River Storage Feasibility Study indicates low priority for storage (Dec 2002).</p>

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36	Coldwater River	S	4		<p>CCC -</p> <p>DU - No information.</p> <p>KITSCH - Recreational use, wildfowl nesting, rearing and other wildlife habitat issues, all suggest that the Kane Valley and Voght Valley be left unchanged.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>
37	Coldwater River	S	10		<p>CCC - Surrounded by private land, Lots 2999,1893 KDYD. Water levels higher in 2007 due to dam breakage on Harrison Lake.</p> <p>DU - No information.</p> <p>KITSCH - Recreational use, wildfowl nesting, rearing and other wildlife habitat issues, all suggest that the Kane Valley and Voght Valley be left unchanged.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>
38	Coldwater River	S	8		<p>CCC - lies in Upper Coldwater River drainage where Westscapes Development Ltd. is planning a ski resort for the future. Water gets very warm in summer, increases water temperature in Coldwater River system.</p> <p>DFO - potential issues with off-channel habitat for coho juveniles, close to bull trout spawning in mainstem river.</p> <p>DU - NTS mapsheet 92H/11 No information.</p> <p>MOE - Braided channels, important fish habitat for bull trout/coho nearby and upstream. Old growth timber.</p>
39	Coldwater River	S	19		<p>CCC - Surrounded by private land, Lots 774, 3000 KDYD. Water level higher in 2007 due to dam breakage on Harrison Lake. Old hay field, not utilized at this time.</p> <p>DU - No information.</p> <p>KITSCH - Recreational use, wildfowl nesting, rearing and other wildlife habitat issues, all suggest that the Kane Valley and Voght Valley be left unchanged.</p> <p>MOE - Review moose Ungulate Winter Range (UWR) and wetland values.</p>

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40	Coldwater River	S	13		<p>CCC - Surrounded by private land, Lots 1858, 774 KDYD. Water level higher in 2007 due to dam breakage on Harrison Lake.</p> <p>DU - No information.</p> <p>KITSCH - Recreational use, wildfowl nesting, rearing and other wildlife habitat issues, all suggest that the Kane Valley and Voght Valley be left unchanged.</p> <p>MOE - Review moose Ungulate Winter Range and wetland values.</p>
41	Coldwater River	S	50		<p>CCC - Surrounded by private land, Lot 2393 KDYD. Water level higher in 2007 due to dam breakage on Harrison Lake. Hayfields developed.</p> <p>DU - No information.</p> <p>KITSCH - Recreational use, wildfowl nesting, rearing and other wildlife habitat issues, all suggest that the Kane Valley and Voght Valley be left unchanged.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>
42	* L= Lake, S=Swamp				<p>When highlighted in Blue, indicates little to no known information, difficult to assess potential for storage without field examination.</p>
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46	Guichon Creek	L	6	Mamit Lake	<p>DFO - Burbot and resident Rainbow Trout concern likely.</p> <p>DU - NTS mapsheet 92I/7 Reference 92I-204 (swamp at north end). Biological Preview.</p> <p>LNIB - Dam on lake held in trust by Department of Indian & Northern Affairs for LNIB. Indian & Northern Affairs responsible for dam upkeep. Any "added water storage" would be an "added advantage" since the LNIB's dam structure on Steffens Creek has been damaged, and water is no longer contained.</p> <p>RCR - Ranch has no real shortage of irrigation water even in drought years. Do not need more dams right now. If present dam level raised to store additional water then hay fields would be flooded.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>
47	Guichon Creek	L	58	Rey Lake	<p>DFO - Fish use in lower stream reach(es)?</p> <p>DU -</p> <p>MOE - small lake fishery values, wetland/UWR values assessment.</p> <p>MOF - Lake #2045. Lake area 30.9 hectares (including S 15, see line 64). Elevation 1408 m. Mapsheet 92I037. Crown and private land (DL 3992, 4069, 3993 KDYD). 4WD access.</p> <p><u>Dam on lake</u>, main irrigation water source for Rey Creek Ranch. Water Licence C045259 - Storage Non-Power 350 AF - G. Garthewaite. Water also used in summer for domestic purposes. Fence line meets lake on NE edge.</p>
48	Guichon Creek	L	131	Logan Lake	<p>DU - NTS mapsheet 92I/7 Reference 92I-414 (west end of lake). <u>Completed project</u>.</p> <p>MSAC - Eliminated by MSAC Criteria #3: Existing community values considered to be high.</p>

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49	Guichon Creek	L	33	Walloper Lake	<p>DU - NTS mapsheet 92I/7 No information.</p> <p>SANFORD - Private developments surround. Lots of cabins.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>
50	Guichon Creek	L	142	No Name 24	<p>DU - NTS mapsheet 92I/10 No information.</p>
51	Guichon Creek	L	68	Desmond Lake	<p>DU - NTS mapsheet 92I/7 Reference 92I-336 Biological reconnaissance.</p> <p>MOE - Wetland/UWR assessment required if storage is contemplated.</p>
52	Guichon Creek	L	26	Paska Lake	<p>DU - NTS mapsheet 92I/10 No information.</p> <p>MOE - Small lake fishery, Mile High Fishing Resort, wetland assessment.</p>
53	Guichon Creek	L	122	Ridge Lakes A	<p>DU - NTS mapsheet 92I/8 No information.</p> <p>MOE - Small lakes fishery, wetland / UWR assessment.</p>
54	Guichon Creek	L	96	No Name 11	<p>DU - NTS mapsheet 92I/7 Reference 92I-339 Biological reconnaissance. May impact 92I-338 immediately to the west.</p> <p>MOE - No information.</p>
55	Guichon Creek	L	81	Tyner Lake	<p>DU - NTS mapsheet 92I/7 No information.</p> <p>MOE</p> <p>MOF - Lake # 2066. Lake area 24.6 hectares. Elevation 1340 m. Mapsheet 92I026. 2WD access. Downstream name - not applicable. Cabins at north end on Crown lease land. Crown land surrounds lake. 3 lak odd elk, wolf noted. Large wetland complex associated with this lake. No registered water licences.</p>

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 Short listing 121 Potential Storage Sites
 Phase 1 continued.....

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	A	B	C	D	E
56	Guichon Creek	L	62	Bose Lake	<p>DFO - connectivity to other water?</p> <p>DU - NTS mapsheet 92I/10 No information.</p> <p>KITSCH - Access through Bethlehem Copper Mine Property.</p> <p>MOE</p>
57	Guichon Creek	L	53	Billy Lake	<p>DFO - Recreation site.</p> <p>DU - NTS mapsheet 92I/7 No information.</p> <p>MOE</p> <p>MOF - Lake # 2013. Lake area 27.7 hectares. Elevation 1463 m. Mapsheet 92I046. 4WD access along east and south ends of lake. Recreation site. Downstream name - Cougar Creek. 2 lake inlets, 1 lake outlet. Rainbow Trout stocked on semi-regular basis. Winter ungulate use noted. Minimal waterfowl production expected. Moose year round. <u>Dam on lake</u>. Highland Valley Copper Mine has a number of water licences in the vicinity of Billy Lake. In the early 1990's the lake water level rose by 15 to 20 feet, which damaged the shoreline and made the lake very unattractive. Water licence 16090 (0142269) 100 AF and CL 28272 (0220889) 80 AF; both Storage Non-Power - Garthewaite.</p>
58	Guichon Creek	L	129	Wyse Lake	<p>DU - NTS mapsheet 92I/10 No information.</p> <p>MOE - Small lake fishery, Mile High Fishing Resort, wetland assessment.</p>
59	Guichon Creek	L	109	Saxon Lake	<p>DU - NTS mapsheet 92I/7 No information.</p> <p>MOE - UWR/ wetland assessment required if storage contemplated.</p> <p>MOF - Lake # 2074. Lake area 12.4 hectares. Elevation 1450 m. Mapsheet 93I027. Crown land. 2 lake inlets, 1 lake outlet. Downstream name - Saxon Creek. Suspect no fish present. Moose, Mule & Whitetail deer, some waterfowl. <u>Two dams on lake</u> irrigat</p> <p>Storage Non-Power 48 AF - G. Garthewaite. Licenced dam on Saxon Creek - Pooley Ranch Ltd. Holding corral at NW end of lake. <u>Saxon Lake is a man-made lake</u> constructed by Pooley Ranch (1920-1960).</p>

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 Summary of Referral Comments / MSAC Reasons for
 Short listing 121 Potential Storage Sites
 Phase 1 continued.....

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	A	B	C	D	E
60	Guichon Creek	L	121	Sophia Lake	<p>DU - NTS mapsheet 92I/7 No information.</p> <p>MOE</p> <p>MOF - Lake # 2050. Lake area 12 hectares. Elevation 1430 m. Mapsheet 93I037. Crown land. 2 lake inlets, 1 lake outlet. Downstream name - Steffens Creek. <u>Dam on lake</u></p> <p>Steffens Bros. Ranch. Fence on east side of lake.</p>
61	Guichon Creek	S	54		<p>DU - NTS mapsheet 92I/10 No information.</p> <p>MOE - No information.</p>
62	Guichon Creek	S	16		<p>DU - NTS mapsheet 92I/7 No information. Note Reference 92I-323 lies close to north end of this waterbody and has had a Biological preview.</p> <p>MOE - No information.</p>
63	Guichon Creek	S	51		<p>DU - NTS mapsheet 92I/7 Reference 92I-337 Biological preview.</p> <p>MOE - No information.</p>
64	Guichon Creek	S	18		<p>DU - NTS mapsheet 92I/7 No information. Note Reference 92I-329 lies close to north end of this waterbody and has had a Biological preview.</p> <p>MOE - No information.</p>
65	Guichon Creek	S	42		<p>DFO - may be within Indian Reserve lands.</p> <p>DU</p> <p>MOE - No information.</p>
66	Guichon Creek	S	25		<p>DU - NTS mapsheet 92I/7 No information. Lots 648, 755 KDYD.</p> <p>MOE - No information.</p>
67	Guichon Creek	S	43		<p>DU - NTS mapsheet 92I/7 No information.</p> <p>MOE - No information.</p>

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 Summary of Referral Comments / MSAC Reasons for
 Short listing 121 Potential Storage Sites
 Phase 1 continued.....

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	A	B	C	D	E
68	Guichon Creek	S	27		DU - NTS mapsheet 92I/7 No information. East side of Coquihalla Hwy, but connected to Swamp 3 (Guichon Creek Sub-basin) below. MOE - No information.
69	Guichon Creek	S	15		DU MOE - No information.
70	Guichon Creek	S	53		DU - NTS mapsheet 92I/7 No information. MOE - No information. Wetland associated with Tyner Lake (L 81 Guichon Creek Sub-basin).
71	Guichon Creek	S	3		DU - NTS mapsheet 92I/7 Reference 92I-334 Biological Preview. May affect nearby 92I-333 at west end of waterbody which has had a Biological Reconnaissance.
72	Guichon Creek	S	28		DU - NTS mapsheet 92I/7 No information. Lot 748 KDYD. MOE - No information.
73	Guichon Creek	S	49		DU - NTS mapsheet 92I/10 No information. MOE - No information.
74	* L= Lake, S=Swamp				When highlighted in Blue, indicates little to no known information, difficult to assess potential for storage without field examination.
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 Summary of Referral Comments / MSAC Reasons for
 Short listing 121 Potential Storage Sites
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	A	B	C	D	E
76	Sub-Basin	L/S*	Code	Name	Comments by source:
77				Source Legend	CCC - Coquihalla Cattle Co. (L. Cooke); CIB - Coldwater Indian Band (H. Aljam); CRSFS - Coldwater River Storage Feasibility Study (Dec 2002); CURNOW - Sandy &/or Les - local residents); DFO - Department of Fisheries & Oceans, J. Guerin, Kamloops; DLR - Douglas Lake Ranch (S. Jacobs, S. Murray); DU - Ducks Unlimited (Library information); KITSCH - Dick (local resident); KJR Ranch - R. Thomsen; MOE - Ministry of Environment, Kamloops - A. Caverly; MOF - Ministry of Forests Lake Classification 1995-1998; MSAC - Multi-Stakeholder Advisory Committee of the Nicola WUMP; SANFORD - Gerry (local resident); SCFH - Spius Creek Fish Hatchery - D. Turvey; STRAND - Doug (local resident);
78	Mid Nicola	L	56	Hamilton Lake	DU - NTS mapsheet 92I/2 Reference 92I-280 Biological reconnaissance. MOE - Assess impacts of further storage development on lake fishery viability. Wetland fish and wildlife values require assessment. MOF - Lake # 2099. Lake area 27.3 hectares. Elevation 1097 m. Mapsheets 92I017/007. Access is difficult. 3 Lake inlets, 1 lake outlet. Downstream name - Hamilton Creek. Brook Trout are stocked, 5000 in 1996. Lake winterkills every now and then. Moose year round, Whitetail & Mule deer spring/summer/fall range. Waterfowl nesting, breeding and staging - loons, mallards. Lots of bird species frequent area. <u>Dam on lake.</u>
79	Mid Nicola	L	1	Nicola Lake	DFO - On-going agency concerns with current dam alteration proposal. Environmental assessment requirements still to be clarified. DU Reference 92I-277 Biological Reconnaissance Reference 92I-278 Biological Reconnaissance Reference 92I-396 Biological Reconnaissance MOE - On-going agency concerns with current dam alteration proposal. Environmental Assessment requirements still to be clarified. MSAC
80	Mid Nicola	S	35		DU MOE - On-going agency concerns with current dam alteration proposal. Environmental Assessment requirements still to be clarified. SANFORD - Require extensive damming along Nicola lake shoreline to capitalize on water storage.
81	* L= Lake, S=Swamp				When highlighted in Blue, indicates little to no known information, difficult to assess potential for storage without field examination.
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 Summary of Referral Comments / MSAC Reasons for
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	A	B	C	D	E
83	Sub-Basin	L/S*	Code	Name	Comments by source:
84				Source Legend	CCC - Coquihalla Cattle Co. (L. Cooke); CIB - Coldwater Indian Band (H. Aljam); CRSFS - Coldwater River Storage Feasibility Study (Dec 2002); CURNOW - Sandy &/or Les - local residents); DFO - Department of Fisheries & Oceans, J. Guerin, Kamloops; DLR - Douglas Lake Ranch (S. Jacobs, S. Murray); DU - Ducks Unlimited (Library information); KITSCH - Dick (local resident); KJR Ranch - R. Thomsen; MOE - Ministry of Environment, Kamloops - A. Caverly; MOF - Ministry of Forests Lake Classification 1995-1998; MSAC - Multi-Stakeholder Advisory Committee of the Nicola WUMP; SCFH - Spius Creek Fish Hatchery - D. Turvey; STRAND - Doug (local resident);
85	Moore Creek	L	39	Frogmoore Lakes	DU - NTS mapsheet 921/7 No information. CURNOW - A sizeable increase in water levels could seriously affect resting and feeding habitat for migratory bird species. MOE - Impacts of further storage development on small lake fishery viability and wetlands fish and wildlife values requires assessment.
86	Moore Creek	L	23	Frogmoore Lakes	DU - NTS mapsheet 921/7 No information. CURNOW - A sizeable increase in water levels could seriously affect resting and feeding habitat for migratory bird species. MOE - Impacts of further storage development on small lake fishery viability and wetlands fish and wildlife values requires assessment.
87	Moore Creek	S	52		DU - NTS mapsheet 921/8 No information. MOE
88	Moore Creek	S	34		DU - NTS mapsheet 921/7 No information. MOE
89	* L= Lake, S=Swamp				When highlighted in Blue, indicates little to no known information, difficult to assess potential for storage without field examination.
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	A	B	C	D	E
91	Sub-Basin	L/S*	Code	Name	Comments by source:
92				Source Legend	CCC - Coquihalla Cattle Co. (L. Cook); CIB - Coldwater Indian Band (H. Aljam); CRSFS - Coldwater River Storage Feasibility Study (Dec 2002); CURNOW - Sandy &/or Les - local residents); DFO - Department of Fisheries & Oceans, J. Guerin, Kamloops; DLR - Douglas Lake Ranch (S. Jacobs, S. Murray); DU - Ducks Unlimited (Library information); KITSCH - Dick (local resident); KJR Ranch - R. Thomsen; LNIB - Lower Nicola Indian Band (H. Joe); MOE - Ministry of Environment, Kamloops - A. Caverly; MOF - Ministry of Forests Lake Classification 1995-1998; MSAC - RCR - Rey Creek Ranch (G. Garthewaite); SCFH - Spius Creek Fish Hatchery - D. Turvey; STRAND - Doug (local resident);
93	Quilchena Creek	L	134	Pothole Lake	DLR - Deeded DLR land. Plans to raise dam by 8 feet. DU - NTS mapsheet 92H/15 Reference 92H-8 Biological preview and 92H-80 Biological preview. MOE - Assess impacts of further storage development on small lake fishery and wildlife.
94	Quilchena Creek	L	63	Pattinson Lake	DFO - Fish stock status? DLR - Crown and deeded DLR; possible storage in conjunction with Raspberry Meadows (see S 11 & 20, Quilchena Creek Sub-basin). DU - NTS mapsheet 92H/16 Reference 92H-1 Biological preview. CURNOW MOE - Assess impacts of storage development on small lake fishery viability. Wetlands fish and wildlife values require assessment. MOF - Lake # 2209. Lake area 24.1 hectares. Elevation 1430 m. Mapsheet 92H100. 4WD access east side. Lots 4745, 724, 725 owned by DLR, majority of lakeshore on Crown land. Downstream name - Quilchena Creek. 2 lake inlets, 1 lake outlet. Wild Rainbow Trout stocks. High moose population, Whitetail & Muledeer. Two DU projects down located in NW on private land. Lake is integrally connected to a huge wetland complex (see S 11 Quilchena Creek Sub-basin). No existing water licences.
95	Quilchena Creek	L	19	No Name 1 (Stony Lake)	DFO - Direction of outlet stream flow? Maps show both directions. DLR - DU - NTS mapsheet 92I/1 Reference 92I-5 Biological Preview. MSAC - Eliminated by MSAC Criteria #1 and #4d: additional storage will have negative impact on Stony Lake Lodge; and considered to be developed to full water storage potential.

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	A	B	C	D	E
96	Quilchena Creek	L	113	Marsh Lake	<p>DLR - Crown land; possible storage potential.</p> <p>DU - NTS mapsheet 92H/16 No information. NW corner Lot 723 KDYD.</p> <p>MOE - MOE Region 8. Assess impacts of storage development on small lake fishery viability. Fish and wildlife values including wetlands require assessment.</p> <p>MOF - Lake # 2208. Lake area 14.4 hectares. Elevation 1420 m. Mapsheet 92H100. Walk-in access. Lake in Pennask LRUP. Lake on Crown land, nearby Lots 723 and NE1/4 Lot 3754 privately owned. Downstream name - Quilchena Creek. 2 lake inlets, 1 lake outlet. Wild Rainbow Trout in, upstream, and downstream of Marsh Lake which all provide juvenile fish habitat. <u>Protection of fish resource important.</u> High moose population. Two DU projects are downstream. Molting lake for ducks, fall migration for waterfowl. Large wetland complexes surround this lake. No existing water licences.</p>
97	Quilchena Creek	L	124	No Name 19 (Road Lake)	<p>DLR - No water, no drainage area; deeded DLR lands.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-30 Biological preview.</p> <p>MSAC - Eliminated by MSAC Criteria #4c: no water, no drainage.</p>
98	Quilchena Creek	L	52	Bluey Lake	<p>DFO - Recreation site, fish stocks? Managed fishery?</p> <p>DLR - Possible no real drainage; deeded DLR lands.</p> <p>DU - NTS mapsheet 92H/15 Reference 92H-40 Biological preview.</p> <p>MOF - Lake # 2226. Lake area 29.2 hectares. Elevation 1020 m. Mapsheet 92H088. Rough 2WD access, two recreation sites. Crown and deeded land (Lot 2360 owned by DLR at sc Nations used lake for fishing, located hunting camps nearby and used volcanic rock outcrops for cleansing. Moose, Whitetail & Mule deer year round. No registered water licences in vicinity.</p> <p>MSAC - Eliminated by Criteria #4b and c: recreational values high and questionable water drainage.</p>

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	A	B	C	D	E
99	Quilchena Creek	L	50	Corbett Lake	<p>DFO - Private land issues and resort.</p> <p>DLR -</p> <p>DU - NTS mapsheet 92I/2 Reference 92I-181 Biological preview.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>
100	Quilchena Creek	L	82	No Name 8 (West Wasley Lake)	<p>DLR - No water, no drainage area; deeded DLR lands.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-34 Biological preview.</p> <p>MSAC - Eliminated by MSAC Criteria #4c: no water, no drainage.</p>
101	Quilchena Creek	L	60	Wasley Lake	<p>DFO - Managed trophy fishery?</p> <p>DLR - Already dammed by DU; Crown and deeded DLR lands.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-382 and 92I-48, both <u>completed projects</u> water level of Wasley Lake and Little Wasley Lake (a more typical duck marsh). A fishing lake (for DLR clients) about 38.5 ha in size. DU is <u>NOT IN FAVOUR</u> of increasing water levels on Wasley Lake.</p> <p>MOE - Assess impacts of storage development on small lake fishery. Fish and wildlife values, including wetlands, require assessment.</p>
102				Wasley Lake	<p>MOF - Lake # 2147. Lake area 23.5 hectares. Elevation 1270 m. Mapsheet 92I010. Walk in access as per Pennask LRUP. Existing roads to DLR land are unavailable to public. Downstream name - Wasley Creek. Lot 1234 KDYD owned by DLR surrounds most of lake. 2 lake inlets, 1 lake outlet. Stocked to Rainbow Trout, managed as Quality sport fishery. Moose, mule & whitetail deer. Wildlife Resource Emphasis area in Pennask LRUP to maintain productivity of deer and moose winter range. Also Fish/Water and Recreation Resource Emphasis area in Pennask LRUP. Waterfowl, breeding and molting. Water Licence C063673 - 324 AF Conservation Storage - waterfowl habitat enhancement (DLR & DU). Pictographs about 200 m from the lake on the west side.</p>

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	A	B	C	D	E
103	Quilchena Creek	L	17	Reservoir Lake	<p>DFO - recreation site</p> <p>DLR - Existing DLR dam in place; Crown land.</p> <p>DU</p> <p>MOE - Assess impacts of further storage development on small lake fishery viability. Fish and wildlife values, including wetlands, require assessment.</p> <p>MOF - Lake # 2206. Lake area 73.5 hectares. Elevation 1570 m. Mapsheets 92H099/100. 4WD access to north end where a recreation site exists. Downstream name - Quilchena Creek. 1 lake inlet, 1 lake outlet. Wild stocks of Rainbow Trout. High moose population with habitat at southern end of lake. Whitetail & Mule deer. <u>Dam at north end of lake</u> has created dead standing timber around lake perimeter. Attracts birds and waterfowl. A second diversion allows water to be diverted to Skunk Lake for fish enhancement purposes. Pit house along lakeshore. Water licence C067288 for 200 AF Irrigation and 200 AF Storage non-power - DLR.</p>
104	Quilchena Creek	L	36	Kentucky Lake	<p>CURNOW - Could accommodate some increase in water level without seriously impacting recreation sites. There may eventually have to be some trade-off for water conservation with recreational use.</p> <p>DFO -</p> <p>DLR - Provincial Park.</p> <p>DU - NTS mapsheet 92H/15 Reference 92H-14 Biological preview.</p> <p>MOE - MOE Region 8. Provincial Park. Assess impacts of storage development on small lake fishery viability. Fish and wildlife values including wetlands require assessment.</p> <p>MOF - Lake # 2194. Lake area 41.2 hectares. Elevation 1020 m. Mapsheets 92H098/088. 2WD access. Downstream name - not applicable. Lake is highly productive for fish, stocked annually to Rainbow Trout in spring. North end of lake falls within <u>Class "A" Provincial Park</u> Kentucky. V and spiritually. No registered water licences.</p>
105	Quilchena Creek	S	14	(Tommy's Meadow)	<p>DLR - Already dammed by DU; Crown and deeded DLR lands. Hay field.</p> <p>DU - NTS mapsheet 92H/16 Reference 92H-89. <u>Completed project</u>. Lot 487</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.</p>

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	A	B	C	D	E
106	Quilchena Creek	S	17	(<i>Gilcrest Meadow</i>)	<p>DLR - Not suitable, cattle gathering area and transit route.</p> <p>DU - NTS mapsheet 92H/15 No information. Lot 1902 YLD.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on land developed for cattle.</p>
107	Quilchena Creek	S	23	(<i>Elkhart Meadow</i>)	<p>DLR - Possible storage; deeded DLR land, DL 4536 KDYD.</p> <p>DU - NTS mapsheet 92H/16 No information. East of Paradise Lake.</p> <p>MOE - Assess impacts of storage development on fish and wildlife values including wetlands.</p>
108	Quilchena Creek	S	41	(<i>Snowshoe Meadow</i>)	<p>DLR - Possible storage; Crown land.</p> <p>DU - NTS mapsheet 92H/16 No information.</p> <p>MOE - MOE Region 8. Assess impacts of storage development on fish and wildlife values including wetlands.</p>
109	Quilchena Creek	S	33	(<i>Shorty's Meadow</i>)	<p>DLR - Possible storage; deeded DLR land, DL 532 KDYD.</p> <p>DU - NTS mapsheet 92H/16 No information. Lot 532.</p> <p>MOE - Assess impacts of storage development on wildlife values including wetlands, consider private land limits.</p> <p>MSAC - Actually flows into Spahomin Creek drainage, therefore most likely in the Upper Nicola Sub-basin.</p>
110	Quilchena Creek	S	11	(<i>Raspberry Meadow</i>)	<p>DLR - Possible storage; Crown and deeded DLR lands.</p> <p>DU - NTS mapsheet 92H/16 No information. South of Pattinson Lake.</p> <p>MOE - Assess impacts of storage development on fish and wildlife values including wetlands and Pattison Lake.</p> <p>MOF - This wetland is integrally connected to Pattinson Lake # 2209 (L 63 Quilchena Creek Sub-basin).</p>

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	A	B	C	D	E
111	Quilchena Creek	S	20	(Raspberry Meadow)	<p>DLR - Possible storage; deeded DLR land, Lot 725 KDYD.</p> <p>DU - NTS mapsheet 92H/16 No information.</p> <p>MOE - Assess impacts of storage development on wildlife values including wetlands. Consider private land limits.</p>
112	Quilchena Creek	S	47		<p>DLR - Possible storage; Crown land.</p> <p>DU - NTS mapsheet 92H/16 No information.</p> <p>MOE - Assess impacts of storage development on fish and wildlife values including wetlands.</p>
113	* L= Lake, S=Swamp				When highlighted in Blue, indicates little to no known information, difficult to assess potential for storage without field examination.
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	A	B	C	D	E
115	Sub-Basin	L/S*	Code	Name	Comments by source:
116				Source Legend	<p>CCC - Coquihalla Cattle Co. (L. Cook); CIB - Coldwater Indian Band (H. Aljam); CRSFS - Coldwater River Storage Feasibility Study (Dec 2002); CURNOW - Sandy &/or Les - local residents); DFO - Department of Fisheries & Oceans, J. Guerin, Kamloops; DLR - Douglas Lake Ranch (S. Jacobs, S. Murray); DU - Ducks Unlimited (Library information); KITSCH - Dick (local resident); KJR Ranch - R. Thomsen; LNIB - Lower Nicola Indian Band (H. Joe); MOE - Ministry of Environment, Kamloops - A. Caverly; MOF - Ministry of Forests Lake Classification 1995-1998; MSAC - RCR - Rey Creek Ranch (G. Garthewaite); SCFH - Spius Creek Fish Hatchery - D. Turvey; STRAND - Doug (local resident);</p>
117	Spius Creek	S	32		<p>CURNOW - No real potential short of a large dam and serious expense to create a reservoir. One positive could be the generation of power which could help fund costs. The advantage of the extra water would be only for hatchery use and a few ranches downstream.</p> <p>DU - NTS mapsheet 92I/3? No information.</p> <p>MOE - Assess Bull Trout values and Coastal Tailed Frog (Identified Wildlife - blue-listed; temperature sensitive). Wetland values.</p> <p>SCFH - Waterfall lies below this waterbody which is impassible to salmonid species. If dammed would not impact salmon, but do not know if resident fish are present above the falls. Road does go p: critical for Chinook migration and holding. Perhaps provide a cool water source to lower stream temperature in Spius Creek. From a fisheries perspective additional storage would be a benefit. Approximately 8 water licences (irrigation, possibly domestic) on the lower reaches of Spius Creek, below Little Box Canyon would also</p>
118	Lower Nicola	L	112	Farr Lake	<p>DFO - Steelhead reported in lower/middle reaches of Skuhun Creek, likely Chinook in lower reach of Skuhun Creek.</p> <p>DU - NTS mapsheet 92I/3? No information.</p> <p>MOE - Skuhun Creek threatened steelhead spawning/rearing and migratory Rainbow Trout. Needs instream flow targets. Wetland impact assessment.</p> <p>MOF - Lake # 2038. Lake area 15.2 hectares. Elevation 1340 m. Mapsheets 92I036/026. Walk in access from rough vehicle access to within 150 metres of south end of lake. 2 lake inlets, 1 lake outlet. Downstream name- Skuhun Creek. Rainbow Trout present, stocked in 1990 & 1991. 1500 fall fry Rainbow Trout. Lake looks shallow through middle section. No regi Two range permittees. Considerable amount of wetland along western shoreline. Some migrational value for waterfowl. Muledeer summer range. Moose year round.</p>
119				Farr Lake	<p>KJR Ranch - Large hay meadow surrounding lake known as Faraway Meadow. Old cabin nearby, used to put up hay from the meadow. Not good for cattle watering due to swampy edges, cows often get stuck levels. Old beaver dam at lake outlet at north end, outlet creek does not run year round.</p>
120	* L= Lake, S=Swamp				When highlighted in Blue, indicates little to no known information, difficult to assess potential for storage without field examination.

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	A	B	C	D	E
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 Short listing 121 Potential Storage Sites
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	A	B	C	D	E
122	Sub-Basin	L/S*	Code	Name	Comments by source:
123				Source legend	CCC - Coquihalla Cattle Co. (L. Cook); CIB - Coldwater Indian Band (H. Aljam); CRSFS - Coldwater River Storage Feasibility Study (Dec 2002); CURNOW - Sandy &/or Les - local residents); DFO - Department of Fisheries & Oceans, J. Guerin, Kamloops; DLR - Douglas Lake Ranch (S. Jacobs, S. Murray); DU - Ducks Unlimited (Library information); KITSCH - Dick (local resident); KJR Ranch - R. Thomsen; MOE - Ministry of Environment, Kamloops - A. Caverly; MOF - Ministry of Forests Lake Classification 1995-1998; SCFH - Spius Creek Fish Hatchery - D. Turvey; STRAND - Doug (local resident);
124	Upper Nicola	L	100	No Name 13	DLR - Part of Otter Creek Meadow S 5 (Upper Nicola Sub-basin). High cattle activity, heavy grazing. DU - NTS mapsheet 82E/13 No information. MSAC - Eliminated by MSAC Criteria #1 and #3: negative impact on developed cattle usage area.
125	Upper Nicola	L	20	Barton Lake	DLR - Possible storage; Crown land. DU - NTS mapsheet 82L/4 No information. MOE
126	Upper Nicola	L	4	Douglas Lake	DLR DU - NTS mapsheet 92I/1 Reference 92I-95 Biological preview. MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed land.
127	Upper Nicola	L	111	Eileen Lake	DLR - Possible storage - good potential. DU - NTS mapsheet 82L/4 No information. MOE - Small lakes fishery, UWR and wetland impact assessment.
128	Upper Nicola	L	16	Sucker Lake	DLR - DU - NTS mapsheet 82L/4 Reference 82L-2 Biological preview. MSAC - Eliminated by MSAC Criteria #4d: considered to be developed to full water storage potential.

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	A	B	C	D	E
129	Upper Nicola	L	127	Jacks Lake	<p>DLR - No water, no drainage; deeded DLR land, DL 1054, 1059 KDYD.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-110 Biological preview.</p> <p>MSAC - Eliminated by MSAC Criteria #4c: no water, no drainage.</p>
130	Upper Nicola	L	139	No Name 23	<p>DLR - Quilchena deeded land; no water, no drainage.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-395 Biological Reconnaissance (one of a series of pothole-type wetlands reviewed in the 1980's. Typically dry by mid-summer). East of Kame Lakes A & B.</p> <p>MSAC - Eliminated by MSAC Criteria #4c: no water, no drainage.</p>
131	Upper Nicola	L	135	Kame Lakes A	<p>DLR - No water, no drainage.</p> <p>DU - NTS mapsheet 92I/1 Reference 92H-41 Biological preview.</p> <p>MSAC - Eliminated by MSAC Criteria #4c: no water, no drainage.</p>
132	Upper Nicola	L	59	No Name 2 (Marsh Meadow)	<p>DLR - Possible storage; deeded DLR land, DL 479, 506 KDYD. Actually a swamp that had a dam but it washed out.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-97 Biological preview.</p> <p>MOE - Conservation Data Centre (CDC) polygons, request further information from CDC. Great Basin Spadefoot present in area.</p>
133	Upper Nicola	L	140	Salt Lake	<p>DLR - On Guichon Ranch range.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-209 Biological preview.</p> <p>MOE</p>
134	Upper Nicola	L	95	Nauchachapt Lake	<p>DLR</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-136 Biological preview.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed private land.</p>

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	A	B	C	D	E
135	Upper Nicola	L	103	Raymer Lake	<p>DLR - Possible storage.</p> <p>DU - NTS mapsheet 82E/13 No information.</p> <p>MOE - MOE Region 8, small lakes fishery and wetland impact assessment required if storage contemplated.</p>
136	Upper Nicola	L	5	Chapperon Lake	<p>DLR</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-137 Biological preview. See S 7 (Upper Nicola Sub-basin).</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed private land.</p>
137	Upper Nicola	L	151	No Name 27	<p>DFO - Fish stock status?</p> <p>DLR - John Lauder range - in same area as Salt lake.</p> <p>DU - NTS mapsheet 92I/8 Reference 92I-119 Biological preview.</p> <p>MOE</p>
138	Upper Nicola	L	99	No Name 12	<p>DFO - existing water rights?</p> <p>DLR - on Guichon range.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-59 Biological preview.</p> <p>MOE</p>
139	Upper Nicola	L	44	Rouse Lake	<p>DFO - Fish stock status?</p> <p>DLR - Possible storage; Crown and deeded land (John & Kip Woodward). Very flat topography.</p> <p>DU <i>Georges Meadow</i> (Upper Nicola Sub-basin).</p> <p>MOE - MOE Region 8, small lakes fishery and wetland impact assessment required if storage contemplated.</p>

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	A	B	C	D	E
140	Upper Nicola	L	61	No Name 3 (Upper Sabin)	<p>DLR - Existing dams (2), potential above; deeded DLR land, DL 480, 483 KDYD. Would like to check that DU has a completed project on this waterbody, does not coincide with their field knowledge of the area.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-135 <u>Completed project</u>.</p> <p>MSAC - Eliminated by MSAC Criteria #4d: considered to be developed to full water storage potential.</p>
141	Upper Nicola	L	67	Spahomin Lake	<p>DFO - within Indian Reserve lands.</p> <p>DLR - No water, no drainage; deeded UNB (IR #8) and DLR.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-68 Biological preview.</p> <p>MOF - Lake # 2135. Lake area 21.4 hectares. Elevation 1190 m. Mapsheet 92I010/009. 4WD access to west end. Majority of lake surrounded by IR # 8. Crown land at east end lies within the Pennask Lake LRUP. 2 lake inlets, 0 lake outlets. Maximum depth 12 m. Potential to support fish. Moose year round, Whitetail & Mule deer spring/summer/fall range. <u>Dam on lake</u>, but Ministry of Environment advises there are no water licences. Open grassland to NE end of lake. Small amount of alder and willow along shore. Patches of sedge along all shores.</p> <p>MSAC - Eliminated by MSAC Criteria #4c: no water, no drainage.</p>
142	Upper Nicola	L	49	Rat Lake	<p>DLR - Possible storage; Crown and deeded DLR land, DL 4137, 4250 KDYD.</p> <p>DU - NTS mapsheets 92I/1 and 92H/16. No information.</p> <p>MOE - MOE Region 8, small lakes fishery and wetland impact assessment required if storage contemplated.</p> <p>NTS Mapsheets 92I/SE & 92H/NE - Within Pennask Lake Recreation area.</p>
143	Upper Nicola	L	13	Glimpse Lake continued.....	<p>CURNOW - Some ptoential but private land and recreational conflicts would require some trade offs.</p> <p>DFO - Private and First Nation lands issues.</p> <p>DLR - Considerable development.</p> <p>DU</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed private land.</p>

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	A	B	C	D	E
144				Glimpse Lake	<p>MOF - Lake # 2086. Lake area 87 hectares. Elevation 1220 m. Mapsheet 92I029. Good access. 2 lake inlets, 1 lake outlet. Downstream name - Lauder Creek. Rainbow Trout, stream used for spawning. Lake depth up to 21.3 m. Stocked with 12,000 Rainbow Trout yearly, electric motors only. Many permanent homes and summer cabins, with 20% of lake perimeter developed (Lots 4447, 3368, 3367 and 1246 KDYD). Two public recreation sites. Heavy recreational use in summer, moderate use in winter. Hotel/ ranch resort operates on NE end of lake, European and American clients. Moose, Whitetail & Mule deer year round. Waterfowl nesting - loons, ducks, geese</p> <p>Barrows Goldeneye breeding. Water Licences: C066956 - 500 GD Domestic - Smith; C066991 - 500 GD Domestic - Bucher; Z106362 - 500 GD Domestic - Magnusson; C052015 - 1000 GD Domestic - Duerks; Z106357 - 30 AF Irrigation - Lauder Ranches; F010195- 200 AF Storage Non-power -Lauder Ranches; F010196 - 159 AF Storage Non-power - Lauder Ranches; Z104763 - 200 AF Storage Non-power - Upper Nicola Band.</p>
145	Upper Nicola	S	48		<p>DLR - Possible storage; Crown land.</p> <p>DU - NTS mapsheet 92H/16 No information. SE of Lot 3761.</p> <p>MOE</p>
146	Upper Nicola	S	30		<p>DLR - Possible storage; Crown land.</p> <p>DU - NTS mapsheet 82L/4 No information. NE of Barton Lake.</p> <p>MOE</p>
147	Upper Nicola	S	6	(Big Meadow)	<p>DLR -</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-138 Biological preview. West of Chapperon Lake.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed private land.</p>
148	Upper Nicola	S	38	(Beak Creek)	<p>DLR - Possible storage; direct to Nicola River; Crown land.</p> <p>DU - NTS mapsheet 82L/4 No information. Beak Creek</p> <p>MOE</p>

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	A	B	C	D	E
149	Upper Nicola	S	56	(Hillside Meadow)	<p>DLR - Possible storage; short on water; deeded DLR land, DL 4256 KDYD. At times does not have great quantities of water.</p> <p>DU - NTS mapsheet 82E/13 No information. Lot 4256</p> <p>MOE</p>
150	Upper Nicola	S	45		<p>DLR - Possible storage; Crown land.</p> <p>DU - NTS mapsheet 92H/16 No information.</p> <p>MOE</p>
151	Upper Nicola	S	7		<p>DLR -</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-137 Biological preview. Swamp at south end of Chapperon Lake.</p> <p>MSAC - Eliminated by MSAC Criteria #1:- additional storage will have negative impact on developed private land.</p>
152	Upper Nicola	S	37	(Old Dave's Meadow)	<p>DLR - On Nicola River; possible storage; Crown land.</p> <p>DU - NTS mapsheet 82L/4 No information.</p> <p>MOE</p>
153	Upper Nicola	S	2		<p>DLR - Possible storage; Crown land.</p> <p>DU - NTS mapsheet 92I/1 Reference 92I-399 Biological Reconnaissance and 92I-404 Biological preview.</p> <p>MOE</p>
154	Upper Nicola	S	24		<p>DLR - Possible storage; Crown land; head of Chapperon Creek.</p> <p>DU - NTS mapsheet 82L/4 No information.</p> <p>MOE</p>

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	A	B	C	D	E
155	Upper Nicola	S	31	<i>(Georges Meadow)</i>	<p>DLR - Possible storage; deeded DLR land, DL 4821 and Crown?</p> <p>DU - NTS mapsheet 92I/1 No information. Between Pennask and Rouse Lakes. Lot 4253 KDYD</p> <p>MOE - UWR and wetland impact assessment required if storage contemplated. No information.</p>
156	Upper Nicola	S	21	<i>(Horse Pasture)</i>	<p>DLR - High cattle activity; deeded DLR land, DL 4138 KDYD.</p> <p>DU</p> <p>MSAC</p>
157	Upper Nicola	S	44	<i>(Horse Pasture)</i>	<p>DLR - High cattle activity; deeded DLR land, DL 4138, 4139 KDYD.</p> <p>DU - NTS mapsheet 92H/16 No information. Between Hatheume and Ellen Lakes. Lot 4139 KDYD.</p> <p>MSAC</p>
158	Upper Nicola	S	29	<i>(White Rock Meadow)</i>	<p>DLR - High cattle activity; deeded DLR land, DL 4251 KDYD.</p> <p>DU - NTS mapsheet 92H/16 No information. Lot 4251</p> <p>MSAC</p>
159	Upper Nicola	S	5	<i>(Otter Creek Meadow)</i>	<p>DLR - High cattle activity; deeded DLR land, DL 4249 KDYD.</p> <p>DU</p> <p>MSAC - Eliminated by MSAC Criteria #1 and #3: negative impact of increased storage on developed private land; and value for cattle considered to be high.</p>
160	Upper Nicola	S	26	<i>(Jerry's / Mellon Meadow)</i>	<p>DLR - Development; cattle activity; deeded DLR land, DL 4453, 4560 KDYD.</p> <p>DU - NTS mapsheet 92I/1 No information. South end of Mellin Lake.</p> <p>MSAC - Eliminated by MSAC Criteria #1 and #3: negative impact of increased storage on developed private land; and value for cattle considered to be high.</p>
161	* L= Lake, S=Swamp				When highlighted in Blue, indicates little to no known information, difficult to assess potential for storage without field examination.

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	A	B	C	D	E
162					<p>MSAC Criteria List for eliminating additional storage sites adopted October 25 and November 20, 2007.</p> <p>Criteria #1 - Negative impact of increased storage on developed private (e.g., agriculture, buildings) land.</p> <p>Criteria #2 - CRSFS Study by Summit (December 2002) indicates waterbody as Low Priority for additional water storage potential.</p> <p>Criteria #3</p> <p>Criteria #4 - Not suitable for various reasons:</p> <ul style="list-style-type: none"> b) recreational c) no water, no drainage <p>Criteria #5 - Provincial Park</p> <p>Criteria #6 - Ducks Unlimited completed project considered to have precedence.</p>