



2010/2011 Capital Plan

For submission to the Ministry of Education

June 2010

School District No. 8 (Kootenay Lake) 2010/2011 Capital Plan

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Capital Project Request Form

RDER0310 V.4.06

Hidden: No
 District Priority: High
 District Ranking: 1
 Ministry Priority: HIGH

'monica schulte' (PRD01)

Project No.: 116036

Request Type: Update

Part A - Project Identification

1. Capital Plan Year: 2010/2011	2. SD Ref. No.: 100	3. Last Modified: Jun. 10, 2010	4. Submitted On: unsubmitted
5. SD No. 08	6. SD Name Kootenay Lake	7. Municipality: NELSON	8. Asset No.: 100246
9. Facility No.: 07005	10. Facility Name: TRAFALGAR MIDDLE SCHOOL	Facility Type:	
13. Proj. Cd.: REPLACE	14. Project Description: TRAFALGAR ELEMENTARY/MIDDLE SCHOOL	11. Current: Junior Middle School	
15. Proj. Type: MAJOR		12. Proposed: Elementary-Secondary Sch	

Part B - Capacity, Area Factors and Allowances

<u>Nominal Capacity:</u>		Kindergarten	Grades 1 - 7	Grades 8 - 12	7. Grade Configuration
1. Actual Existing:		0	375	200	6-8
2. Capacity Adjustments:		0	125	-50	
3. Proposed Higher Priority Additions:		0	0	0	
4. Total Existing:		0	500	150	
5. Proposed Addition:		0	0	0	
6. Proposed Total Capacity:		0	500	150	8. K-8
<u>Site Area (ha):</u>		<u>Allowable Building Area (sq.m.)</u>			<u>Allowable Renovation Area (sq.m.)</u>
9. Required Size:	0.0	12. Total Allowable Area:	6942.0		16. Renovations Associated With Additions (%):
10. Existing Area:	0.0	13. Existing Area:	0.0		17. Renovation Area:
11. Total New Area:	0.0	14. Area to be demolished:	0.0		18. Renovation Unit Rate:
		15. Area of New Space:	6942.0		
<u>Construction Cost Factors:</u>				<u>Equipment Allowance (%):</u>	
19. Base Unit Rate:	1050.00	20. Air Conditioning:	0	LFA: 0.00	MF: 1.00
21. Project Size Factor:	0.981	22. Location Factor:	2.513	23. Ground Factor:	1.00
				24. New Space:	17.3
				25. Freight Allowance:	8.609

Part C - Estimated Budget

<u>Site Acquisition:</u>		1. Purchase:	0	2. Other Cost:	186,701	3. Subtotal:	186,701	
<u>Site Development:</u>		4. Development Cost Charges:	0	5. Offsite Costs:	0	6. Adjusted Site Development:	1,171,058	
		7. Supplementary Site:	0	8. New Building on Existing Site:	466,000	8. Subtotal:	1,171,058	
<u>New Construction:</u>		9. New Area:	6,942.0	Renovations:	13. Renovation Area:	0.00		
		10. Adjusted Unit Rate:	2,588.5157	14. Renovation Unit Rate:	0	15. Subtotal:	0	
		11. Subtotal:	17,969,476	16. Supplementary Costs:	0	17. Other Costs:	0	
		12. Supplementary Building:	0	18. Build Total:	17,969,476	19. Reno Cost:	0	
<u>Building Costs:</u>		20. Subtotal:	17,969,476	<u>Area Allowance</u>				
<u>Equipment Allowance:</u>		21. New Area:	1,372.00	22. Area Entitled to Equipment Replacement:	0.00	23. Equipment Freight Allowance:	21,456	
New Fee	Reno Fee	24. Subtotal:	270,680	25. Site Dev.:	108,557	26. New:	1,665,770	
0.0927	0.1600	27. Renovation:	0	28. Subtotal:	1,774,327	29. New:	574,216	
Fees:	30. Renovation:	0	31. Subtotal:	574,216	32. Other:	32. Supplementary Building:	4,605,773	
Contingency:	33. Subtotal:	4,605,773	34. Site:	186,701	35. Plan:	765,621	36. Completion:	25,599,909
Other:	37. Planning Costs in Planning Phase:	765,621	38. In Completion Phase:	0	39. Total Estimated Budget:	26,552,231		

Part D - Schedule and Funding

Project Cost Schedule:		Site	Planning	Completion
	1. Year:	2012/2013	2012/2013	2012/2013
	2. Cost:	186,701	765,621	25,599,909
Funding Source:				
	3. Bylaw Capital:	186,701	765,621	25,599,909
	4. Capital Reserve:	0	0	0
	5. Land Reserve:	0		0
	6. Local Capital:	0	0	0

Part E - Approved Funding

Phase Status:	1. Status:	Requested	Requested	Requested
Approved:	2. Bylaw Capital:	0	0	0
	3. Capital Reserve:	0	0	0
	4. Land Reserve:	0		0
	5. Local Capital:	0	0	0
Variance:	6. Variance	186,701	765,621	25,599,909
Net Request:	7. Bylaw Capital:	186,701	765,621	25,599,909
	8. Capital Reserve:	0	0	0
	9. Land Reserve:	0	0	0
	10. Local Capital:	0	0	0

Part F - Comments

New Trafalgar Elementary / Jr. Middle School
DESIGN AID SHEET FOR SECONDARY SCHOOLS - SHEET #1

Option 4.1

Grades K to 8

Date 2-Jun-10

SCHOOL NAME Trafalgar Elementary / Middle

Facility Code _____

DISTRICT SD #8

School Capacity *Nominal -

E	500	S	150	K 40
E	440	S	150	K 38

Total Elective Modules

1

Agreed Nominal / Operating Capacity:

Ministry of Education _____ Date _____

This sheet is for use in the design procedures in PART 2 of the building manual.

PART 1 - ACADEMIC/VOCATIONAL

Space Function	1A - EXISTING		1B - MODULES			1C - NEW CORE			1D - NEW ELECTIVE				
	Description	Area	Mods.	Core	Deficit	Surplus	Description	Area	Mods.	Description	Area	Mods.	
Business Education			0.00								0		
			0.00	1.0	1.00	0.00	Computers	100	1.00		0		
			0.00								0		
			0.00								0		
Fine Arts	Art		0.00								0		
	Coral Music		0.00	1.0	1.00	0.00	music	160	1.00	Drama & Theatre	120	1.00	
	Music		0.00								0		
Home Economics	Drama & Theatre		0.00								0		
	Clothing		0.00								0		
	Foods		0.00	1.0	1.00	0.00	clothing/foods	140	1.00		0		
Industrial Education	Clothing/Foods		0.00								0		
	General Shop		0.00								0		
	Drafting		0.00	1.0	1.00	0.00	General Shop	155	1.00		0		
Science	Technology		0.00								0		
	General Science		0.00								0		
	Physics		0.00	1.0	1.00	0.00	Science	100	1.00		0		
	Chemistry		0.00								0		
Other*	Biology		0.00								0		
General Instruction	rooms 75-95 s.m.	0	0.00	E: 20			Area = no. of			Area = no. of			
	other rooms		0.00	S: 1.0	21.00	0.00	modules x 80 s.m.	1680	21.00	modules x 80 s.m.	0		
Sub-Totals		0				0.00		2335			120		
		Ai				Bi		Ci			Di	Dii	
											Total of New Elective Modules		1.00

*Note - May not be used except for spaces agreed in writing by the Ministry.

New Trafalgar Elementary / Jr. Middle School
DESIGN AID SHEET FOR SECONDARY SCHOOLS - SHEET #2

Option 4.1

Jun 02, 10

(See sheet #1 for base information)

PART 2 - SERVICE ACTIVITY					PART 3 - TOTAL AREAS			
Space Function	E-Exist.	F-Allowable	G-Deficit	H-New		N-EXISTING	P-NEW	
Administration / Health		190	190	190	Existing Acad./Voc.	Ai	0	
Counselling		50	50	50	Core Acad./Voc. Additions			Ci 2335
Gen. Storage		90	90	90	Elective Acad./Voc. Additions			Di 120
Gym Activity		600	600	600	Service Activity	Ei	0	Hi 4487
Gym Ancilliary		150	150	150	SUB-TOTAL		0	Pi 6942
Media / Tech Centre		320	320	320				Ni 0
Multi-purpose		160	160	160	Total Gross Allowable Area		5775	6942
Spec. Education		320	320	320	extra gross area for 25 Elem. students		117.5	
Mechanical		170	170	170	plus Other		1212	
Design Space		1225	1225	1225			7104.5	
* Other		1212	1212	1212				
SUB-TOTAL	Ei	0	Fi 4487	Hi 4487				

Fi-Ei= 4487

Other' is:
 2 X Kindergarten @ 90 sm + 20 sm (design space)
 Strong start @90 s.m. + 20 sm (design space)
 Neighborhood Learning Centre at 15% of 5880 s.m. = 882 s.m.

ENROLLMENT: 2014 / 2015
Full Day K at 36 FTE
Elementary (1 to 7) at 437
Secondary (gr 8) at 155

SITE REQUIREMENTS	PROVIDED	REQUIRED
HECTARES		
ACRES	0.00	0.00

Area New	6942
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Capital Project Request Form

RDER0310 V.4.06

Hidden: No
District Priority: High
District Ranking: 2
Ministry Priority:

monica schulte' (PRD01)

Project No: N/A

Request Type: New

Part A - Project Identification

1. Capital Plan Year: 2010/2011	2. SD Ref. No.: 150	3. Last Modified: Jun. 2, 2010	4. Submitted On: unsubmitted
5. SD No. 08	6. SD Name Kootenay Lake	7. Municipality: NELSON	8. Asset No.: 100242
9. Facility No.: 07004	10. Facility Name: HUME ELEMENTARY SCHOOL	Facility Type:	
13. Proj. Cd.: MECHUP	14. Project Description: HUME MECHANICAL SYSTEM UPGRADE	11. Current: Elementary School	
15. Proj. Type: MINOR		12. Proposed: Elementary School	

Part B - Capacity, Area Factors and Allowances

Nominal Capacity:		Kindergarten	Grades 1 - 7	Grades 8 - 12	7. Grade Configuration		
1. Actual Existing:		40	250	0	K-5		
2. Capacity Adjustments:		0	0	0			
3. Proposed Higher Priority Additions:		0	0	0			
4. Total Existing:		40	250	0			
5. Proposed Addition:		0	0	0			
6. Proposed Total Capacity:		40	250	0	8. K-5		
Site Area (ha):	Allowable Building Area (sq.m.)			Allowable Renovation Area (sq.m.)			
9. Required Size:	0.0	12. Total Allowable Area:	0.0	16. Renovations Associated With Additions (%):	20		
10. Existing Area:	0.0	13. Existing Area:	0.0	17. Renovation Area:	0.00		
11. Total New Area:	0.0	14. Area to be demolished:	0.0	18. Renovation Unit Rate:	0		
		15. Area of New Space:	0.0				
Construction Cost Factors:			Equipment Allowance (%):				
19. Base Unit Rate:	1035.00	20. Air Conditioning:	0	LFA: 0.00	MF: 1.00	24. New Space:	13.0
21. Project Size Factor:	1.050	22. Location Factor:	2.513	23. Ground Factor:	1.00	25. Freight Allowance:	8.609

Part C - Estimated Budget

Site Acquisition:		1. Purchase:	0	2. Other Cost:	0	3. Subtotal:	0
Site Development:		4. Development Cost Charges:	0	5. Offsite Costs:	0	6. Adjusted Site Development:	0
		7. Supplementary Site:	0	8. Subtotal:	0		
New Construction:		9. New Area:	0.0	Renovations:	13. Renovation Area:	0.00	
		10. Adjusted Unit Rate:	0.0000	14. Renovation Unit Rate:	0	15. Subtotal:	0
		11. Subtotal:	0	16. Supplementary Costs:	0	17. Other Costs:	0
		12. Supplementary Building:	0	18. Build Total:	0	19. Reno Cost:	0
Building Costs:		20. Subtotal:	0	Area Allowance			
		21. New Area:	0.00	22. Area Entitled to Equipment Replacement:	0.00	23. Equipment Freight Allowance:	0
New Fee	Reno Fee	24. Subtotal:	0	25. Site Dev.:	0	26. New:	0
0.0000	0.1600	27. Renovation:	0	28. Subtotal:	0	29. New:	0
Fees:		30. Renovation:	0	31. Subtotal:	0		
Contingency:		32. MECHANICAL SYSTEM UPGRADE		33. Subtotal:	1,425,990		
Other:		34. Site:	0	35. Plan:	0	36. Completion:	1,425,990
Phases:		37. Planning Costs in Planning Phase:	0	38. In Completion Phase:	0		
Total Estimated Budget:		39. Subtotal:	1,425,990				

Part D - Schedule and Funding

Project Cost Schedule:	Site	Planning	Completion
1. Year:	2012/2013	2012/2013	2010/2011
2. Cost:	0	0	1,425,990
Funding Source:			
3. Bylaw Capital:	0	0	1,425,990
4. Capital Reserve:	0	0	0
5. Land Reserve:	0		0
6. Local Capital:	0	0	0

Part E - Approved Funding

Phase Status:	1. Status:	Requested	Requested	Requested
Approved:	2. Bylaw Capital:	0	0	0
	3. Capital Reserve:	0	0	0
	4. Land Reserve:	0		0
	5. Local Capital:	0	0	0
Variance:	6. Variance	0	0	1,425,990
Net Request:	7. Bylaw Capital:	0	0	1,425,990
	8. Capital Reserve:	0	0	0
	9. Land Reserve:	0	0	0
	10. Local Capital:	0	0	0

Part F - Comments

HUME ELEMENTARY SCHOOL

HVAC SYSTEMS ASSESSMENT
SCHOOL DISTRICT NO. 8 (Kootenay)
Nelson, B.C.
May 27, 2010



1.0 Executive Summary

- The existing structure is well maintained and is good shape.
- The school appears to be well utilized. Present student population is about 180 students.
- Existing mechanical systems do not deliver good occupant comfort.
- Existing mechanical system are not capable of delivering adequate ventilation for the most part.
- Existing heating system is old and inefficient.
- The building is amongst the poorest energy consumers in the district.
- Significant portion of the control systems are pneumatic and need to be upgraded.
- A conventional heat pump upgrade is estimated at \$1,040,000.
- A Ground Source Heat Pump (GSHP) upgrade is estimated at \$1,425,000.
- A GSHP will save 74 tonnes of CO2 Per Year.

2.0 Description of Existing Building

- Area of Building: 3254m²
- The bulk of the building is a three storey classroom block using a masonry façade. The style of building could be considered heritage and is in very good shape considering its vintage.
- Building was original constructed in 1923. Library and Classroom Addition was in 1966. Gymnasium was added in 1991.

3.0 Description of Existing Mechanical Systems

- Three Storey Classroom Block utilizes Gas-fired hydronic boilers without mechanical cooling. Central air handling unit with hydronic reheat coils with supplementary wall fin radiators and convectors. Pneumatic controls.
- Library, Gym and select upper storey classroom are service by a combination of heating only and heat/cool roof top units.

4.0 Recommended Mechanical Upgrade

- The proposal is that classrooms and support areas will be served by new water to air heat pump units located in service area areas and possibly in the ceiling spaces. New supply ducts, and new return air ducts will be connected to the new heat pumps.
- New primary outside air heat pump will be modified to provide outdoor air ventilation service. Ventilation levels will be controlled by automatic dampers controlled by carbon dioxide sensors.
- In order to save significant energy costs, the main heat source and heat rejection medium can be upgraded to a new geo-thermal source field located east of the classroom building. The geo-thermal field will be sized to provide 75 – 85 % of the plant energy needs. Supplemental heat will be provided by new condensing boilers. A new fluid cooler will be needed to provide heat rejection when the geo-thermal field has reached its performance limit.
- The ground systems will need to be based on the more expensive vertical type systems to accommodate a small site situation.

5.0 Appendix

- Construction estimates
- Energy and carbon saving calculation.

HUME Elementary School 2010 May 27

ANNUAL UTILITY COSTS for HVAC SYSTEM UPGRADE

Effective area 3,254 sq m Current Enrollment Estimate 180 Students

EXISTING CONSUMPTION

NATURAL GAS									ELECTRICITY									TOTAL	ANNUAL GHG and ENERGY REDUCTIONS						
GJ	kWhr	Tonne CO2	GJ/sq.m.	kWhr/sq.m.	\$	\$/GJ	\$/kWhr	\$/sq.m	GJ	kWhr	Tonne CO2	GJ/sq.m.	kWhr/sq.m.	\$	\$/GJ	\$/kWhr	\$/sq.m	Tonne CO2	Tonne Fuel CO2 Saving	Tonne Hydro CO2 Saving	Total Tonne CO2 Saving	% CO2 Saving	Fuel \$ Saving	Hydro \$ Saving	TOTAL \$ Saving
1,730	480,594	85.9	0.53	148	\$27,238	\$15.74	\$0.057	\$8.37	504	140,000	3.1	0.15	43	\$14,030	\$27.84	\$0.100	\$4.31	89.0							

Option 1 - Conventional Heat Pump

10% Reduction Estimate									10% Reduction Estimate									TOTAL	ANNUAL GHG and ENERGY REDUCTIONS						
NATURAL GAS									ELECTRICITY									TOTAL	ANNUAL GHG and ENERGY REDUCTIONS						
GJ	kWhr	Tonne CO2	GJ/sq.m.	kWhr/sq.m.	\$	\$/GJ	\$/kWhr	\$/sq.m	GJ	kWhr	Tonne CO2	GJ/sq.m.	kWhr/sq.m.	\$	\$/GJ	\$/kWhr	\$/sq.m	Tonne CO2	Tonne Fuel CO2 Saving	Tonne Hydro CO2 Saving	Total Tonne CO2 Saving	% CO2 Reduction	Fuel \$ Saving	Hydro \$ Saving	TOTAL \$ Saving
1,557	432,535	77.3	0.48	133	\$24,514	\$15.74	\$0.057	\$7.53	454	126,000	2.8	0.14	39	\$12,627	\$27.84	\$0.100	\$3.88	80.1	8.6	0.3	8.9	10%	\$2,724	\$1,403	\$4,127

Option 2 - Ground Source Heat Pump

90% Reduction Estimate									130% Increase Estimate									TOTAL	ANNUAL GHG and ENERGY REDUCTIONS						
NATURAL GAS									ELECTRICITY									TOTAL	ANNUAL GHG and ENERGY REDUCTIONS						
GJ	kWhr	Tonne CO2	GJ/sq.m.	kWhr/sq.m.	\$	\$/GJ	\$/kWhr	\$/sq.m	GJ	kWhr	Tonne CO2	GJ/sq.m.	kWhr/sq.m.	\$	\$/GJ	\$/kWhr	\$/sq.m	Tonne CO2	Tonne Fuel CO2 Saving	Tonne Hydro CO2 Saving	Total Tonne CO2 Saving	% CO2 Reduction	Fuel \$ Saving	Hydro \$ Saving	TOTAL \$ Saving
173	48,059	8.6	0.05	15	\$2,724	\$15.74	\$0.057	\$0.84	1,159	322,000	7.1	0.36	99	\$32,269	\$27.84	\$0.100	\$9.92	15.7	77.3	-4.0	73.3	82%	\$24,514	-\$18,239	\$6,275



Capital Project Request Form

RDER0310 V.4.06

Hidden: No
District Priority: High
District Ranking: 3
Ministry Priority:

'monica schulte' (PRD01)

Project No: N/A

Request Type: New

Part A - Project Identification

1. Capital Plan Year: 2010/2011	2. SD Ref. No.: 151	3. Last Modified: Jun. 2, 2010	4. Submitted On: unsubmitted
5. SD No. 08	6. SD Name Kootenay Lake	7. Municipality: NELSON	8. Asset No.: 100270
9. Facility No.: 07013	10. Facility Name: L V ROGERS SECONDARY	Facility Type:	
13. Proj. Cd.: MECHUP	14. Project Description: LV ROGERS MECHANICAL SYSTEM UPGRADE	11. Current: Secondary School	
15. Proj. Type: MAJOR		12. Proposed: Secondary School	

Part B - Capacity, Area Factors and Allowances

Nominal Capacity:		Kindergarten	Grades 1 - 7	Grades 8 - 12	7. Grade Configuration
1. Actual Existing:		0	0	725	9-12
2. Capacity Adjustments:		0	0	0	
3. Proposed Higher Priority Additions:		0	0	0	
4. Total Existing:		0	0	725	
5. Proposed Addition:		0	0	0	
6. Proposed Total Capacity:		0	0	725	8. 9-12
Site Area (ha):		Allowable Building Area (sq.m.)			Allowable Renovation Area (sq.m.)
9. Required Size:	0.0	12. Total Allowable Area:	0.0		16. Renovations Associated With Additions (%): 22
10. Existing Area:	0.0	13. Existing Area:	0.0		17. Renovation Area: 0.00
11. Total New Area:	0.0	14. Area to be demolished:	0.0		18. Renovation Unit Rate: 0
		15. Area of New Space:	0.0		
Construction Cost Factors:				Equipment Allowance (%):	
19. Base Unit Rate:	1065.00	20. Air Conditioning:	0	LFA: 0.00	MF: 1.00
21. Project Size Factor:	1.090	22. Location Factor:	2.513	23. Ground Factor:	1.00
				24. New Space:	25.9
				25. Freight Allowance:	8.609

Part C - Estimated Budget

Site Acquisition:		1. Purchase:	0	2. Other Cost:	0	3. Subtotal:	0	
Site Development:		4. Development Cost Charges:	0	5. Offsite Costs:	0	6. Adjusted Site Development:	0	
		7. Supplementary Site:	0	8. None:	0		0	
New Construction:		9. New Area:	0.0	Renovations:	13. Renovation Area:	0.00		
		10. Adjusted Unit Rate:	0.0000	14. Renovation Unit Rate:	0	15. Subtotal:	0	
		11. Subtotal:	0	16. Supplementary Costs:	0	17. Other Costs:	0	
		12. Supplementary Building:	0	18. Build Total:	0	19. Reno Cost:	0	
Building Costs:		20. Subtotal:	0	21. New Area:	0.00	22. Area Entitled to Equipment Replacement:	0.00	
Equipment Allowance:		23. Equipment Freight Allowance:	0	24. New Fee:	0.0000	25. Site Dev.:	0	
		26. New:	0	27. Renovation:	0	28. Contingency:	0	
		29. New:	0	30. Renovation:	0	31. Other:	1,678,300	
		32. Mechanical System Upgrade:		33. Phases:	34. Site:	0	35. Plan:	0
		36. Completion:	1,678,300	37. Planning Costs in Planning Phase:	0	38. In Completion Phase:	0	
Total Estimated Budget:		39. Total Estimated Budget:	1,678,300					

Part D - Schedule and Funding

Project Cost Schedule:		Site	Planning	Completion
	1. Year:	2012/2013	2012/2013	2011/2012
	2. Cost:	0	0	1,678,300
Funding Source:	3. Bylaw Capital:	0	0	1,678,300
	4. Capital Reserve:	0	0	0
	5. Land Reserve:	0		0
	6. Local Capital:	0	0	0

Part E - Approved Funding

Phase Status:	1. Status:	Requested	Requested	Requested
Approved:	2. Bylaw Capital:	0	0	0
	3. Capital Reserve:	0	0	0
	4. Land Reserve:	0		0
	5. Local Capital:	0	0	0
Variance:	6. Variance	0	0	1,678,300
Net Request:	7. Bylaw Capital:	0	0	1,678,300
	8. Capital Reserve:	0	0	0
	9. Land Reserve:	0	0	0
	10. Local Capital:	0	0	0

Part F - Comments

LV ROGERS SECONDARY SCHOOL

HVAC SYSTEMS ASSESSMENT SCHOOL DISTRICT NO. 8 (Kootenay)

Nelson, B.C.

May 31, 2010



1.0 Executive Summary

- The existing structure is well maintained and is good shape.
- The school appears to be well utilized.
- Existing HVAC system energy supply can be augmented by a Ground Source heat system fairly simply.
- The school is the largest energy consumer in the district.
- A Ground Source Heat Pump (GSHP) and woodshops upgrade is estimated at \$1,680,000.
- A GSHP will save 142 tonnes of CO2 Per Year

2.0 Description of Existing Building

- Area of Building: 10,080m²
- The building is a combination of 2 and 3 story building more or less contoured to the slopes of Nelson.
- Original Building date late 1960's. Additions were done throughout the 70's. An architectural systems upgrade and gym addition was done in 1995/

3.0 Description of Existing Mechanical Systems

- The bulk of the building is served by a constant volume reheat system. Air handling units supply constant volume tempered ventilation air and reheat function is provided by coils in the supply air ductwork.
- Gymnasium, Fine arts and shops areas are served by individual or combined air handling unit with hydronic heating. Mechanical cooling is not provided.
- These systems were upgraded in 1995. These system are functional and are in good repair.
- The wood shop sawdust collection system employer an older style sawdust collection system that is a housekeeping problem, is undersized and is located inside a enclosure where there is no explosion venting. This will need to be upgrading.

4.0 Recommended Mechanical Upgrade

Ground Source Heat Pump.

- Water to water heat pumps will be used to provide heating effect to the hydronic heating system. A system size of approximately 120 tons will provide 65% to 75% of the building heating loads in the average degree-day year. Ground systems will need to be vertical as there is limited site available. CO2 sensors will be introduced to help minimize the overall fresh air loads.

Shops

- Wood shop will be provided with a new sawdust collector. The collector will be of a style where the unit can be located outside and will be reconfigured to recirculate the air back to the building for an energy saving.

5.0 Appendix

- Construction estimates
- Energy and carbon saving calculation.

LV Rogers Estimate

LV Rogers Secondary - Vertical Ground Source Heat Pump - High Temperature Water to Water Heat Pump																										31-May-10	
IDENT	Notes	Existing Unit	Qty	Ton	Unit	Unit Costs	Accessories	Roof Curb	Econo	Damper motor	Unit Costs	Equipment Costs	Install	Duct	Insulation	Pipe	Balance, Misc	Controls	Electrical	Roofing	Carpentry	Misc.	Subtotal	HST	Total	FEE & Contingency	GRAND TOTAL
GENERAL SYSTEM UPGRADE																											
Demolition			1										\$5,000									\$650	\$5,650	\$700	\$6,350	\$1,100	\$7,450
Wood Shop -			1		collection	\$50,000					\$45,000	\$45,000	\$11,250	\$5,000	\$1,500		\$2,000	\$2,000	\$2,500		\$2,000	\$9,300	\$80,650	\$9,700	\$90,250	\$15,350	\$105,600
CO2 Upgrade			46			\$1,200												\$55,200				\$7,200	\$62,400	\$7,500	\$69,900	\$11,800	\$81,800
Sub Total											\$45,000	\$16,250	\$5,000	\$1,500			\$2,000	\$57,200	\$2,500		\$2,000	\$17,150	\$148,600	\$17,900	\$166,500	\$28,350	\$194,850
GROUND SOURCE HEAT PUMP																											
Ground Heat Exchanger -included ground repair			120			\$5,000										\$600,000						\$78,000	\$678,000	\$81,400	\$759,400	\$129,100	\$888,500
Water to water Heat pump			3		40 ton units	\$88,000					\$264,000	\$66,000		\$5,000	\$2,250	\$750	\$14,400	\$16,500		\$10,000	\$49,300	\$428,200	\$51,400	\$479,600	\$81,850	\$561,150	
Minor Circ Pumps						\$1,000																					
Major Circ Pumps			1			\$4,000					\$4,000	\$1,000		\$500	\$750	\$250	\$1,200	\$2,500		\$500	\$1,400	\$12,100	\$1,500	\$13,600	\$2,350	\$15,950	
Connection from mechanical to GSHP			100		4" - Piping						\$80				\$4,000	\$8,000						\$1,600	\$13,600	\$1,650	\$15,250	\$2,600	\$17,850
Sub Total											\$268,000	\$67,000		\$9,500	\$611,000	\$1,000	\$15,600	\$19,000		\$10,500	\$130,300	\$1,131,900	\$135,950	\$1,267,850	\$215,600	\$1,483,450	
GRAND TOTAL											\$313,000	\$83,250	\$5,000	\$11,000	\$611,000	\$3,000	\$72,900	\$21,500		\$12,500	\$147,450	\$1,280,500	\$163,850	\$1,434,350	\$243,950	\$1,678,300	
											22%	6%	0%	1%	43%	0%	5%	1%		1%	10%	89%	11%		17%		

LV Rogers Secondary School 2010 May 31

ANNUAL UTILITY COSTS for HVAC SYSTEM UPGRADE

Effective area 10,080 sq.m Current Enrollment Estimate 800 dents estimated

EXISTING CONSUMPTION

NATURAL GAS									ELECTRICITY									TOTAL	ANNUAL GHG and ENERGY REDUCTIONS						
GJ	kWhr	Tonne CO2	GJ/sq.m.	kWhr/sq.m	\$	\$/GJ	\$/kWhr	\$/sq.m	GJ	kWhr	Tonne CO2	GJ/sq.m.	kWhr/sq.m	\$	\$/GJ	\$/kWhr	\$/sq.m	Tonne CO2	Tonne Fuel CO2 Saving	Tonne Hydro CO2 Saving	Total Tonne CO2 Saving	% CO2 Saving	Fuel \$ Saving	Hydro \$ Saving	TOTAL \$ Saving
4,350	1,208,430	216.0	0.43	120	\$50,000	\$11.49	\$0.041	\$4.96	3,096	860,000	19.0	0.31	85	\$83,000	\$20.35	\$0.073	\$6.25	235.0							

Ground Source Heat Pump

70% Reduction Estimate									45% Increase Estimate									TOTAL	ANNUAL GHG and ENERGY REDUCTIONS						
GJ	kWhr	Tonne CO2	GJ/sq.m.	kWhr/sq.m	\$	\$/GJ	\$/kWhr	\$/sq.m	GJ	kWhr	Tonne CO2	GJ/sq.m.	kWhr/sq.m	\$	\$/GJ	\$/kWhr	\$/sq.m	Tonne CO2	Tonne Fuel CO2 Saving	Tonne Hydro CO2 Saving	Total Tonne CO2 Saving	% CO2 Reduction	Fuel \$ Saving	Hydro \$ Saving	TOTAL \$ Saving
1,305	362,529	64.8	0.13	36	\$15,000	\$11.49	\$0.041	\$1.49	4,489	1,247,000	27.6	0.45	124	\$91,350	\$20.35	\$0.073	\$9.06	92.4	151.2	-8.6	142.6	61%	\$35,000	-\$28,350	\$6,650



Capital Project Request Form

RDER0310 V.4.06

Hidden: No
District Priority: High
District Ranking: 4
Ministry Priority:

'monica schulte' (PRD01)

Project No: 116001

Request Type: Update

Part A - Project Identification

1. Capital Plan Year: 2010/2011	2. SD Ref. No.: 202	3. Last Modified: Jun. 2, 2010	4. Submitted On: unsubmitted
5. SD No. 08	6. SD Name: Kootenay Lake	7. Municipality: NELSON	8. Asset No.: 100352
9. Facility No.: 07504	10. Facility Name: BUS GARAGE,DISTRICT	Facility Type:	
13. Proj. Cd.: BUSREP	14. Project Description: REPLACE 4 - 72 PASSENGER VANS (7087, 7088, 7089, 9080)	11. Current:	Maintenance
15. Proj. Type: MINOR		12. Proposed:	Maintenance

Part B - Capacity, Area Factors and Allowances

Nominal Capacity:	Kindergarten	Grades 1 - 7	Grades 8 - 12	7. Grade Configuration
1. Actual Existing:	0	0	0	UNKN
2. Capacity Adjustments:	0	0	0	
3. Proposed Higher Priority Additions:	0	0	0	
4. Total Existing:	0	0	0	
5. Proposed Addition:	0	0	0	
6. Proposed Total Capacity:	0	0	0	8. UNKN

Site Area (ha):	Allowable Building Area (sq.m.)	Allowable Renovation Area (sq.m.)
9. Required Size: 0.0	12. Total Allowable Area: 0.0	16. Renovations Associated With Additions (%): 0
10. Existing Area: 0.0	13. Existing Area: 0.0	17. Renovation Area: 0.00
11. Total New Area: 0.0	14. Area to be demolished: 0.0	18. Renovation Unit Rate: 0
	15. Area of New Space: 0.0	

Construction Cost Factors:	Equipment Allowance (%):
19. Base Unit Rate: 1100.00	24. New Space: 0.0
20. Air Conditioning: 0	25. Freight Allowance: 8.609
LFA: 0.00	
MF: 1.00	
21. Project Size Factor: 1.000	
22. Location Factor: 2.513	
23. Ground Factor: 1.00	

Part C - Estimated Budget

				Subtotal
<u>Site Acquisition:</u>	1. Purchase:	0	2. Other Cost:	0
<u>Site Development:</u>	4. Development Cost Charges:	0		
	5. Offsite Costs:	0		
	6. Adjusted Site Development:	0	0	None
	7. Supplementary Site:	0		
<u>New Construction:</u>	9. New Area:	0.0	<u>Renovations:</u>	13. Renovation Area: 0.00
	10. Adjusted Unit Rate:	0.0000		14. Renovation Unit Rate: 0
	11. Subtotal:	0		15. Subtotal: 0
	12. Supplementary Building:	0		16. Supplementary Costs: 0
				17. Other Costs: 0
<u>Building Costs:</u>	18. Build Total:	0		19. Reno Cost: 0
			Area	20. 0
<u>Equipment Allowance:</u>			21. New Area:	0.00
	22. Area Entitled to Equipment Replacement	0.00		0
			23. Equipment Freight Allowance:	0
New Fee: 0.0000	Reno Fee: 0.0000			24. 0
Fees: 25. Site Dev.:	0	26. New:	0	28. 0
<u>Contingency:</u>	29. New:	0	30. Renovation:	0
				31. 0
<u>Other:</u>	32. BUS REPLACEMENT			33. 476,000
<u>Phases:</u>	34. Site:	0	35. Plan:	0
			36. Completion:	476,000
	37. Planning Costs in Planning Phase:	0	38. In Completion Phase:	0
Total Estimated Budget:				39. 476,000

Part D - Schedule and Funding

Project Cost Schedule:		Site	Planning	Completion
	1. Year:	2012/2013	2012/2013	2010/2011
	2. Cost:	0	0	476,000
Funding Source:	3. Bylaw Capital:	0	0	476,000
	4. Capital Reserve:	0	0	0
	5. Land Reserve:	0		0
	6. Local Capital:	0	0	0

Part E - Approved Funding

Phase Status:	1. Status:	Requested	Requested	Requested
Approved:	2. Bylaw Capital:	0	0	0
	3. Capital Reserve:	0	0	0
	4. Land Reserve:	0		0
	5. Local Capital:	0	0	0
Variance:	6. Variance	0	0	476,000
Net Request:	7. Bylaw Capital:	0	0	476,000
	8. Capital Reserve:	0	0	0
	9. Land Reserve:	0	0	0
	10. Local Capital:	0	0	0

Part F - Comments



Commercial Vehicle Inspection Report

FINAL INSPECTION CONFIRMATION NUMBER
7701486

PG 45216
PG45216

DECAL EXPIRY DATE
31 MAY 2011

INSPECTION RESULT: **Pass**
INSPECTION TYPE: **Complete**
REASON FOR INSPECTION: **Annual**
COLLISION REPAIR FACILITY:

WORK ORDER # INSPECTION DATE INSPECTION COMPLETE DATE/TIME
 10 MAY 2010 **10 MAY 2010 13:24**

REASON NOTE:
TECHNICIAN NAME: PHONE #:

INSPECTOR'S NUMBER: **M05909-005**
INSPECTOR'S NAME: **PETERSON, GARY BRUCE**
CARD EXPIRY DATE: **29 FEB 2012**
FACILITY NUMBER: **P4638-018**
FACILITY NAME: **SCHOOL DISTRICT NO. 8**
WORKING ON BEHALF OF FACILITY:
INSPECTION CLASS: **5 - School Bus**

OWNER/LESSEE: **Board of Education of S.D. #8**
ADDRESS: **570 Johnstone Rd.**
CITY: **Nelson** PROV: **BC** POSTAL CODE: **V1L6J2**
REGISTRATION NUMBER: **06312668** VEHICLE JURISDICTION: **BC** PLATE NUMBER: **2547CC**
YEAR: **1998** MAKE: **BLUEBIRD** MODEL:
BODY STYLE: **BUS** VIN: **1HVBBAAN2WH594677**
ODOMETER: **204879 KM** FUEL TYPE: **Diesel**
UNIT/FLEET # (Optional): **7087** BRAKE TYPE: **Air**

"F" Failed "R" Repaired Same Day "P" Passed "PC" Passed With Caution "C" Out Of Service "NA" Not Applicable

	F	R	P	PC	C	NA		F	R	P	PC	C	NA
Section 1 - Power Train			<input checked="" type="checkbox"/>				Pressure Fuel Liquid Propane Gas						<input checked="" type="checkbox"/>
							Compressed Natural Gas						<input checked="" type="checkbox"/>
Section 2 - Suspension			<input checked="" type="checkbox"/>				Pressure Fuel Inspector's Name & Number						
Section 3 - Hydraulic Brakes						<input checked="" type="checkbox"/>	Air Brake Chamber Type, Size and Push Rod Stroke Measurement (mm)						
Section 3A - Air Brakes			<input checked="" type="checkbox"/>				Axle # 1 2 3 4 5 6 7 8 9						
Section 4 - Steering			<input checked="" type="checkbox"/>				Type: Clamp Clamp						
Section 5 - Instruments, Auxillary Equipment			<input checked="" type="checkbox"/>				Size: 16 30						
Section 6 - Lamps			<input checked="" type="checkbox"/>				Slack: Auto Auto						
Section 7 - Electrical System			<input checked="" type="checkbox"/>				Left: 32 36						
Section 8 - Body & Frame Repair entrance door weatherstrip		<input checked="" type="checkbox"/>					Right: 32 36						
Section 9 - Tires & Wheels			<input checked="" type="checkbox"/>				Comments:						
Section 10 - Couplers & Hitches						<input checked="" type="checkbox"/>	Air Brake Camshaft Rotation Measurement (degrees)						
Section 10 - Special Use Vehicle Components						<input checked="" type="checkbox"/>	Axle # 1 2 3 4 5 6 7 8 9						
General Inspection Comments:							Left: 90 80						
							Right: 85 95						
							Comments:						
							Brake Lining/Pad Measurement (mm)						
							Axle # 1 2 3 4 5 6 7 8 9						
							Type: Lining (S Lining (S						
							Left: 11 12						
							Right: 12 12						
							Comments:						
							Rotor/Drum Measurement (mm)						
							Axle # 1 2 3 4 5 6 7 8 9						
							Type: Drum Drum						
							Left: 0 0						
							Right: 0 0						
							Comments: 1 - drums not removed; 2 - drums not removed						

Inspector's Name **PETERSON, GARY BRUCE**

Signature

The Inspector's signature above is certification that this vehicle has been inspected to the requirements of the Motor Vehicle Act and Regulations.

NOTICE: KEEP THIS VEHICLE INSPECTION REPORT WITH VEHICLE REGISTRATION

The information on this form is collected under the authority of the Motor Vehicle Act, Section 217. The information will be used to process your vehicle inspection. If you have any questions please call 250-952-0577 or visit our website at www.th.gov.bc.ca/cvse



Commercial Vehicle Inspection Report

FINAL INSPECTION CONFIRMATION NUMBER
7698368

PLACE DECAL
PG 45215

DECAL EXPIRY DATE
31 MAY 2011

INSPECTION RESULT: **Pass**
INSPECTION TYPE: **Complete**
REASON FOR INSPECTION: **Annual**
COLLISION REPAIR FACILITY:

WORK ORDER # INSPECTION DATE INSPECTION COMPLETE DATE/TIME
 06 MAY 2010 **06 MAY 2010 15:57**

REASON NOTE:
TECHNICIAN NAME: PHONE #:

INSPECTOR'S NUMBER: **M04800-005**
INSPECTOR'S NAME: **WORNARDT, KENNETH ARME**
CARD EXPIRY DATE: **30 SEP 2011**
FACILITY NUMBER: **P4638-018**
FACILITY NAME: **SCHOOL DISTRICT NO. 8**
WORKING ON BEHALF OF FACILITY:
INSPECTION CLASS: **5 - School Bus**

OWNER/LESSEE: **BOARD OF EDUCATION**
ADDRESS: **570 JOHNSTONE ROAD**
CITY: **NELSON** PROV: **BC** POSTAL CODE: **V1L6J2**
REGISTRATION NUMBER: **06315781** VEHICLE JURISDICTION: **BC** PLATE NUMBER: **2549CC**
YEAR: **1998** MAKE: **BLUEBIRD** MODEL:
BODY STYLE: **BUS** VIN: **1HVBBAAN4WH594678**
ODOMETER: **195788 KM** FUEL TYPE: **Diesel**
UNIT/FLEET # (Optional): **7088** BRAKE TYPE: **Air**

"F" Failed "R" Repaired Same Day "P" Passed "PC" Passed With Caution "C" Out Of Service "NA" Not Applicable

	F	R	P	PC	C	NA		F	R	P	PC	C	NA
Section 1 - Power Train			<input checked="" type="checkbox"/>				Pressure Fuel						
							Liquid Propane Gas						<input checked="" type="checkbox"/>
							Compressed Natural Gas						<input checked="" type="checkbox"/>
Section 2 - Suspension			<input checked="" type="checkbox"/>				Pressure Fuel Inspector's Name & Number						
Section 3 - Hydraulic Brakes						<input checked="" type="checkbox"/>	Air Brake Chamber Type, Size and Push Rod Stroke Measurement (mm)						
Section 3A - Air Brakes			<input checked="" type="checkbox"/>				Axle # 1 2 3 4 5 6 7 8 9						
Section 4 - Steering			<input checked="" type="checkbox"/>				Type: Clamp Clamp						
Section 5 - Instruments, Auxillary Equipment			<input checked="" type="checkbox"/>				Size: 16 30						
Section 6 - Lamps			<input checked="" type="checkbox"/>				Slack: Auto Auto						
Section 7 - Electrical System			<input checked="" type="checkbox"/>				Left: 13 13						
Section 8 - Body & Frame			<input checked="" type="checkbox"/>				Right: 13 13						
Section 9 - Tires & Wheels			<input checked="" type="checkbox"/>				Comments:						
Section 10 - Couplers & Hitches						<input checked="" type="checkbox"/>	Air Brake Camshaft Rotation Measurement (degrees)						
Section 10 - Special Use Vehicle Components						<input checked="" type="checkbox"/>	Axle # 1 2 3 4 5 6 7 8 9						
							Type: Lining (S Lining (S						
							Left: 14 14						
							Right: 13 14						
							Comments:						
							Brake Lining/Pad Measurement (mm)						
							Axle # 1 2 3 4 5 6 7 8 9						
							Type: Drum Drum						
							Left: 0 0						
							Right: 0 0						
							Comments: 1 - DRUMS NOT REMOVED; 2 - DRUMS NOT REMOVED						

General Inspection Comments:

Inspector's Name **WORNARDT, KENNETH ARMEN** Signature _____

The Inspector's signature above is certification that this vehicle has been inspected to the requirements of the Motor Vehicle Act and Regulations.

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Commercial Vehicle Inspection Report

FINAL INSPECTION CONFIRMATION NUMBER
7372153

PG
PG08882

DECAL EXPIRY DATE
31 JUL 2010

INSPECTION RESULT: **Pass**
INSPECTION TYPE: **Complete**
REASON FOR INSPECTION: **Annual**
COLLISION REPAIR FACILITY:

WORK ORDER # INSPECTION DATE INSPECTION COMPLETE DATE/TIME
 09 JUL 2009 09 JUL 2009 13:49

REASON NOTE:
TECHNICIAN NAME: PHONE #:

INSPECTOR'S NUMBER: **M05909-004**
INSPECTOR'S NAME: **PETERSON, GARY BRUCE**
CARD EXPIRY DATE: **28 FEB 2010**
FACILITY NUMBER: **P4638-018**
FACILITY NAME: **SCHOOL DISTRICT NO. 8**
WORKING ON BEHALF OF FACILITY:
INSPECTION CLASS: **5 - School Bus**

OWNER/ LESSEE: **Board of Education of SD # 8 Kootenay Lake**
ADDRESS: **570 Johnstone Rd.**
CITY: **Nelson** PROV: **BC** POSTAL CODE: **V1L6J2**
REGISTRATION NUMBER: **6315933** VEHICLE JURISDICTION: **BC** PLATE NUMBER: **2551CC**
YEAR: **1998** MAKE: **BLUEBIRD** MODEL:
BODY STYLE: **BUS** VIN: **1HVBBAAN6WH594679**
ODOMETER: **224731 KM** FUEL TYPE: **Diesel**
UNIT/FLEET #: **7089** BRAKE TYPE: **Air**
(Optional)

"F" Failed "R" Repaired Same Day "P" Passed "PC" Passed With Caution "C" Out Of Service "NA" Not Applicable

	F	R	P	PC	C	NA		F	R	P	PC	C	NA
Section 1 - Power Train			<input checked="" type="checkbox"/>				Pressure Fuel						
							Liquid Propane Gas						<input checked="" type="checkbox"/>
							Compressed Natural Gas						<input checked="" type="checkbox"/>
Section 2 - Suspension			<input checked="" type="checkbox"/>				Pressure Fuel Inspector's Name & Number						
Section 3 - Hydraulic Brakes						<input checked="" type="checkbox"/>	Air Brake Chamber Type, Size and Push Rod Stroke Measurement (mm)						
Section 3A - Air Brakes			<input checked="" type="checkbox"/>				Axle # 1 2 3 4 5 6 7 8 9						
Section 4 - Steering			<input checked="" type="checkbox"/>				Type: Clamp Clamp						
Section 5 - Instruments, Auxillary Equipment			<input checked="" type="checkbox"/>				Size: 16 30						
Section 6 - Lamps			<input checked="" type="checkbox"/>				Slack: Auto Auto						
Section 7 - Electrical System			<input checked="" type="checkbox"/>				Left: 300 300						
Section 8 - Body & Frame			<input checked="" type="checkbox"/>				Right: 300 300						
Section 9 - Tires & Wheels			<input checked="" type="checkbox"/>				Comments:						
Section 10 - Couplers & Hitches						<input checked="" type="checkbox"/>	Air Brake Camshaft Rotation Measurement (degrees)						
Section 10 - Special Use Vehicle Components						<input checked="" type="checkbox"/>	Axle # 1 2 3 4 5 6 7 8 9						
General Inspection Comments:							Left: 65 35						
							Right: 70 35						
							Comments:						
							Brake Lining/Pad Measurement (mm)						
							Axle # 1 2 3 4 5 6 7 8 9						
							Type: Lining (S Lining (S						
							Left: 150 190						
							Right: 150 200						
							Comments:						
							Rotor/Drum Measurement (mm)						
							Axle # 1 2 3 4 5 6 7 8 9						
							Type: Drum Drum						
							Left: 0 0						
							Right: 0 0						
							Comments: 1 - drums not removed; 2 - drums not removed						

Inspector's Name **PETERSON, GARY BRUCE** Signature

The Inspector's signature above is certification that this vehicle has been inspected to the requirements of the Motor Vehicle Act and Regulations.

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Commercial Vehicle Inspection Report

FINAL INSPECTION CONFIRMATION NUMBER
7256906

PG
08865
PG08865

DECAL EXPIRY DATE
31 MAR 2010

INSPECTION RESULT: **Pass**
 INSPECTION TYPE: **Complete**
 REASON FOR INSPECTION: **Annual**
 COLLISION REPAIR FACILITY:

WORK ORDER # INSPECTION DATE INSPECTION COMPLETE DATE/TIME
 31 MAR 2009 31 MAR 2009 13:33

REASON NOTE:
 TECHNICIAN NAME: PHONE #:

INSPECTOR'S NUMBER: **M10204-005**
 INSPECTOR'S NAME: **HILGER, ROLAND**
 CARD EXPIRY DATE: **30 JUN 2010**
 FACILITY NUMBER: **P4638-015**
 FACILITY NAME: **SCHOOL DISTRICT NO. 8**
 WORKING ON BEHALF OF FACILITY:
 INSPECTION CLASS: **5 - School Bus**

OWNER/LESSEE: **School Dist #8 Kootenay Lake**
 ADDRESS: **570 Johnstone Rd**
 CITY: **Nelson** PROV: **BC** POSTAL CODE: **V1L6J2**
 REGISTRATION NUMBER: **0413342** VEHICLE JURISDICTION: **BC** PLATE NUMBER: **8072DX**
 YEAR: **2000** MAKE: **THOMAS** MODEL:
 BODY STYLE: **BUS** VIN: **1HVBBAAN0YH330604**
 ODOMETER: **245788 KM** FUEL TYPE: **Diesel**
 UNIT/FLEET #: **9080** BRAKE TYPE: **Air**
 (Optional)

"F" Failed "R" Repaired Same Day "P" Passed "PC" Passed With Caution "C" Out Of Service "NA" Not Applicable

	F	R	P	PC	C	NA		F	R	P	PC	C	NA
Section 1 - Power Train			<input checked="" type="checkbox"/>				Pressure Fuel						
							Liquid Propane Gas						<input checked="" type="checkbox"/>
							Compressed Natural Gas						<input checked="" type="checkbox"/>
Section 2 - Suspension			<input checked="" type="checkbox"/>				Pressure Fuel Inspector's Name & Number						
Section 3 - Hydraulic Brakes						<input checked="" type="checkbox"/>	Air Brake Chamber Type, Size and Push Rod Stroke Measurement (mm)						
							Axle # 1 2 3 4 5 6 7 8 9						
							Type: Clamp Clamp						
							Size: 16 30L						
Section 3A - Air Brakes			<input checked="" type="checkbox"/>				Slack: Auto Auto						
							Left: 35 38						
							Right: 33 39						
Section 4 - Steering			<input checked="" type="checkbox"/>				Comments:						
Section 5 - Instruments, Auxiliary Equipment			<input checked="" type="checkbox"/>				Air Brake Camshaft Rotation Measurement (degrees)						
Replace Driver's wiper switch							Axle # 1 2 3 4 5 6 7 8 9						
							Left: 70 85						
							Right: 70 85						
Section 6 - Lamps			<input checked="" type="checkbox"/>				Comments:						
Section 7 - Electrical System			<input checked="" type="checkbox"/>				Brake Lining/Pad Measurement (mm)						
							Axle # 1 2 3 4 5 6 7 8 9						
							Type: Lining (S Lining (S						
							Left: 14 13						
							Right: 14 13						
Section 8 - Body & Frame			<input checked="" type="checkbox"/>				Comments:						
Section 9 - Tires & Wheels							Rotor/Drum Measurement (mm)						
Tighten RR wheel wheel nuts; bleeding							Axle # 1 2 3 4 5 6 7 8 9						
							Type: Drum Drum						
							Left: 0 0						
							Right: 0 0						
Section 10 - Couplers & Hitches						<input checked="" type="checkbox"/>	Comments: 1 - drums not puled; 2 - drums not pulled						
Section 10 - Special Use Vehicle Components						<input checked="" type="checkbox"/>							

General Inspection Comments:

Inspector's Name **HILGER, ROLAND** Signature

The Inspector's signature above is certification that this vehicle has been inspected to the requirements of the Motor Vehicle Act and Regulations.

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CP2 - Five Year Capital Plan Summary

School District: 08 Kootenay Lake

Capital Plan Year: 2010/2011

Capital Plan Submission Date: Unsubmitted

Existing Project Priority	Project No.	School District Reference No.	Project Title	Year One	Year Two	Year Three	Year Four	Year Five	Total Funding
1	116036	100	REPLACE - TRAFALGAR MIDDLE SCHOOL TRAFALGAR ELEMENTARY/MIDDLE SCHOOL	\$0	\$0	\$26,552,231	\$0	\$0	\$26,552,231
2	N/A	150	MECHUP - HUME ELEMENTARY SCHOOL HUME MECHANICAL SYSTEM UPGRADE	\$1,425,990	\$0	\$0	\$0	\$0	\$1,425,990
3	N/A	151	MECHUP - L V ROGERS SECONDARY LV ROGERS MECHANICAL SYSTEM UPGRADE	\$0	\$1,678,300	\$0	\$0	\$0	\$1,678,300
4	116001	202	BUSREP - REPLACEMENT SCHOOL BUS REPLACE 4 - 72 PASSENGER VANS (7087, 7088, 7089, 9080)	\$476,000	\$0	\$0	\$0	\$0	\$476,000
5	116002	203	BUSREP - REPLACEMENT SCHOOL BUS REPLACE 3 - 72 PASSENGER BUSES (9081, 9082, 0081)	\$0	\$357,000	\$0	\$0	\$0	\$357,000
6	116003	204	BUSREP - REPLACEMENT SCHOOL BUS REPLACE 4 - 72 PASSENGER BUSES (0082, 0083, 1080, 1081)	\$0	\$0	\$476,000	\$0	\$0	\$476,000
7	116013	205	BUSREP - REPLACEMENT SCHOOL BUS REPLACE 4 - 72 PASSENGER BUSES (1082, 1083, 2080, 2081)	\$0	\$0	\$0	\$476,000	\$0	\$476,000
8	N/A	206	BUSREP - REPLACEMENT SCHOOL BUS REPLACE 4 - 72 PASSENGER BUSES (2082, 2083, 2084, 2085)	\$0	\$0	\$0	\$0	\$476,000	\$476,000
Total:				\$1,901,990	\$2,035,300	\$27,028,231	\$476,000	\$476,000	\$31,917,521

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Report Name: RDER0330
Report Title: School District Summary of Capacities and Projected Enrolment
Purpose: Report 10 years of forecasted enrolments (source 1558 report) and 2 years actual enrollments for the selected capital plan year.

Selection Parameters:

School District: 08 Kootenay Lake
Capital Plan Year: 2010/2011

Source Forms: Ministry of Education: form 1701			Ministry Projections	Ministry Actuals
Inclusion/Exclusion: Standard School	(type 0)		included	included
Continuing Education	(type 1)		excluded	included
Distance Education Schools	(type 2)		excluded	excluded
Alternate Program/School	(type 3)		included	included
Provincial School (Jericho Hill)	(type 4)		included	included
Youth Custody/Residential Attendance Centre	(type 5)		included	included
Short Term Provincial Resource Programs	(type 6)		included	included
Long Term Provincial Resource Programs	(type 7)		included	included
Electronic Delivery Programs	(type 8)		included	included
Open Independent Schools			excluded	excluded
Home School Registrations			excluded	excluded
Non- open Schools (closed or reserved)			excluded	excluded
Students Younger Than School Age			excluded	excluded
Students Older Than School Age			excluded	excluded

School District Summary of Capacities and Projected Enrolments

Capital Plan Year: 2010/2011

School District: 08 Kootenay Lake

Class Size: E38E21S25

Facility No.	School Name	Facility Status	Opening Date	Grade Config	Nominal Capacity	Operating Capacity	Actual Enrolment				Forecast Enrolments						
							2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018

07019 A.I. COLLINSON ELEMENTARY CLOSED 09/01/1963 K-6

Comments
Closing June 30th, 2008

K	40	38	K-F	11															
E	100	92	K-H	43															
S			E																

86004 ADAM ROBERTSON ELEMENTARY OPEN 09/01/1938 K-7

Comments

K	40	38	K-F	38	41	35	35	38	37	38	38	38	38	38	38	38	38	38	38
E	475	442	K-H	330	344	345	345	344	344	343	342	345	350	350	350	360			
S			E																

07016 BLEWETT ELEMENTARY SCHOOL OPEN 09/01/1962 K-5

Comments
Changing to K-5 July 1/08

K	40	38	K-F	12	12	21	21	23	24	26	30	35	38	38	38	38	38	38	38
E	100	90	K-H	97	86	84	84	84	83	82	83	88	89	90	90	90			
S			E																

07033 BRENT KENNEDY ELEMENTARY OPEN 09/01/1977 K-6

Comments

K	40	38	K-F	32	33	33	33	38	37	38	38	38	38	38	38	38	38	38	38
E	200	184	K-H	192	193	197	196	190	185	180	179	180	182	184	184	184			
S			E																

86014 CANYON/LISTER ELEMENTARY OPEN 09/01/1961 K-7

Comments

K	40	38	K-F	11	11	19	19	22	23	22	24	31	35	38	38	38	38	38	38
E	175	162	K-H	83	90	95	95	94	94	93	93	93	93	93	93	100			
S			E																

08000 CONTINUING ED SD 08 OPEN 09/01/1993 8-12

Comments
Located in Central Elementary

K			K-F																
E			K-H																
S			E																



School District Summary of Capacities and Projected Enrolments

Capital Plan Year: 2010/2011

School District: 08 Kootenay Lake

Class Size: E38E21S25

Facility No.	School Name	Facility Status	Opening Date	Grade Config	Nominal Capacity	Operating Capacity	Actual Enrolment				Forecast Enrolments												
							2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019					
08001	CRAWFORD BAY ELEM-SEC	PROPOSED	N/A	K-12																			
Comments							K	40	38	K-F													
							E	75	69	K-H			4	4	4	4	4	4	4	4			
							S	75	75	E			45	45	43	46	47	48	49	50	51	55	
										S					33	40	40	38	38	38	38	38	38
08006	CRAWFORD BAY ELEM-SEC (OLD)	OPEN	09/01/1947	K-12																			
Comments							K	40	38	K-F													
							E	50	46	K-H	9	7											
							S	75	75	E	50	53											
										S	44	43											
08019	ERICKSON ELEMENTARY	OPEN	09/01/1996	K-7																			
Comments							K	40	38	K-F													
							E	200	186	K-H	22	21	22	23	25	26	27	28	35	36	38	38	
							S			E	162	182	174	171	173	174	174	174	174	174	174	186	
										S													
07028	GORDON SARGENT PRIMARY SC	CLOSED	09/01/1971	K-3																			
Comments							K	40	38	K-F													
Closing June 30th, 2008							E	75	63	K-H	20												
							S			E	39												
										S													
08016	HOMELINK CENTER	OPEN	09/01/1964	K-12																			
Comments							K	40	38	K-F													
CONSOLIDATED INTO SD 8 CONNECT EFFECTIVE JULY 1, 2007							E	200	186	K-H													
							S			E													
										S													
07004	HUME ELEMENTARY SCHOOL	OPEN	09/01/1920	K-5																			
Comments							K	40	38	K-F													
Changing to K-5 July 1/08							E	250	226	K-H	14	27	35	35	34	33	34	34	38	36	35	35	
							S			E	193	151	148	147	147	146	143	142	143	148	150	150	
										S													

For capacity planning purposes, K full time (K-F) forecasts and K half time (K-H) forecasts are converted to K forecasts using the formula $K = (2 \times K-F) + K-H$.
Note: A caret(^) preceding Facility Name or E Capacity indicates that the strong start center is associated with the facility, so the capacity is reduced by 25.



School District Summary of Capacities and Projected Enrolments

Capital Plan Year: 2010/2011

School District: 08 Kootenay Lake

Class Size: E38E21S25

Facility No.	School Name	Facility Status	Opening Date	Grade Config	Nominal Capacity	Operating Capacity	Actual Enrolment				Forecast Enrolments							
							2007/2008	2008/2009	2009/2010	2010/2011	2011/2012	2012/2013	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018	2018/2019

86018 J V HUMPHRIES ELEM -SECONDA OPEN 09/01/1994 K-12

Comments	K	40	38	K-F																
	E	200	186	K-H	17	13	21	21	18	17	18	18	18	18	18	18	18	18	18	18
				E	138	123	130	130	130	130	130	130	130	140	140	140	141	141	141	141
	S	150	150	S	164	142	135	135	126	114	117	120	119	119	119	119	119	119	119	115

86005 JEWETT ELEMENTARY OPEN 09/01/1946 K-7

Comments	K	40	38	K-F																
	E	75	69	K-H	8	2	7	7	4	4	4	4	4	4	4	4	4	4	4	4
				E	15	22	21	23	23	22	22	22	22	23	24	24	24	24	24	24
	S			S																

99070 KOOTENAY LAKE LEARNING CEN OPEN 09/01/1995 8-12

Comments	K			K-F																
	E			K-H																
				E	1	1														
	S			S	39	39														

07013 L V ROGERS SECONDARY OPEN 09/01/1956 9-12

Comments Changing to 9-12 July 1/08	K			K-F																
	E			K-H																
				E																
	S	725	725	S	606	792	778	764	742	739	735	735	730	729	712	700				

07025 MOUNT SENTINEL SECONDARY OPEN 09/01/1950 7-12

Comments	K			K-F																
	E	50	50	K-H	59	44	51	50	55	50	48	41	42	48	51	51				
				E																
	S	350	350	S	351	333	326	310	290	280	270	280	285	290	295	295				

86007 PRINCE CHARLES SECONDARY OPEN 09/01/1983 8-12

Comments	K			K-F																
	E			K-H																
				E																
	S	725	725	S	596	536	564	550	540	540	540	530	530	530	525	515				

For capacity planning purposes, K full time (K-F) forecasts and K half time (K-H) forecasts are converted to K forecasts using the fomula $K = (2 \times K-F) + K-H$.
Note: A caret(^) preceding Facility Name or E Capacity indicates that the strong start center is associated with the facility, so the capacity is reduced by 25.