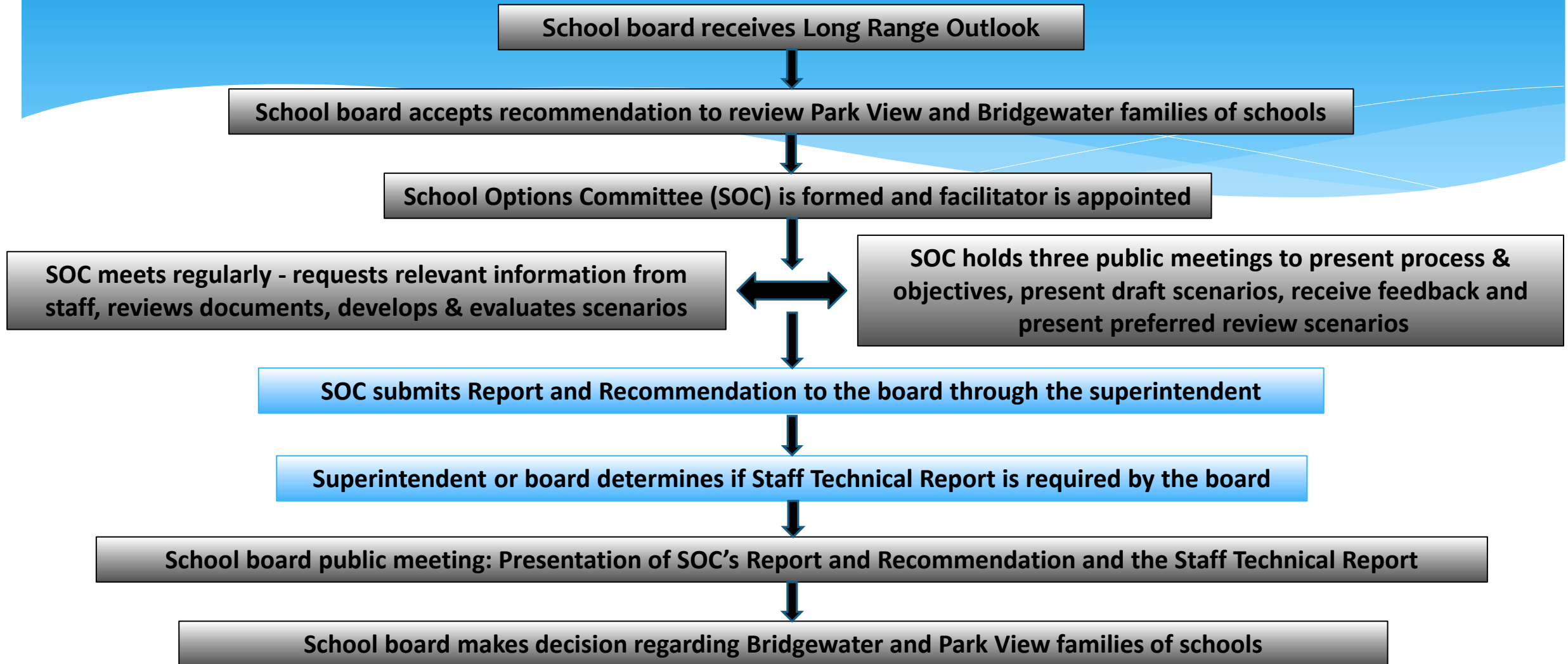




School Review
Bridgewater and Park View
Families of Schools
Staff Technical Report

May 12, 2016

SCHOOL REVIEW PROCESS



The Staff Technical Report has been prompted by:

- * The need to provide the board with background information to make informed decisions about Bridgewater and Park View families of schools.
- * Feedback received at public meetings.
- * Share with the board some of the information that the SOC received in their working sessions.

SOC Recommendation # 1:

That grades 10 - 12 programming at Bridgewater (BJSHS) and Park View (PVEC) schools be consolidated at Park View Education Centre.

This report offers data on the following areas:

- Programming
- Transportation
- Staffing
- Costs

Current public school program graduation requirements

- * A High School Graduation Diploma is awarded to students who have successfully completed the required subjects and electives.
- * **Students require a minimum of 18 credits to graduate.**
- * No more than 7 of the 18 credits may be for grade 10 courses, and at least 5 must be for grade 12 courses.
- * A High School Graduation Diploma is awarded to students who have successfully completed the required subjects and electives.
- * **The following are compulsory credits for graduation.**
- * **Language, Communication, and Expression**
- * **3 English language arts**, one at each grade level, or for students in Acadian or Francophone schools and for students in French immersion, 3 French language arts, one at each grade level
- * **1 Arts:** dance, drama, music, or visual arts
- * **Science, Mathematics, and Technology**
- * **2 Mathematics**
- * **2 Science:** one from biology, chemistry, Science 10, or physics, and one other approved science course
- * **2 others from mathematics, science, and/or technology:** eligible courses include Audio Recording and Production 12; Business Technology 11 and 12; Communications Technology 11 and 12; Computer Programming 12; Construction Technology 10; Construction Trades 11; Design 11; Electrotechnologies 11; Energy, Power, and Transportation 11; Film and Video Production 12; Food Technology 10; Exploring Technology 10; Housing and Design 12; Multimedia 12; Production Technology 11 and 12; Skilled Trades 10; Skilled Trades Co-op 12; Textile Production 10; Textile Technology 12; and Transportation Trades 11.
- * **Personal Development and Society**
- * **1 Physical Education:** eligible credits include Physical Education 10, Physical Education 11, Dance 11, Fitness Leadership 11, Physically Active Living 11, Yoga 11, Physical Education 12, and Physical Education Leadership 12
- * **1 Canadian History:** African Canadian Studies 11; Canadian History 11/Histoire du Canada 11; Etude acadiennes I 1; Gaelic Studies 1 I; and Mi'kmaq Studies I 0
- * **1 Global Studies:** Global Geography, Advanced Global Geography, Global History, Advanced Global History, Global Politics, and Advanced Global Politics

SOC Recommendation # 1

Programming Implications – Course Selections

School	# Different Courses Offered, Grades 10 - 12
BJSHS	69
PVEC	109

[School Course Comparison 2015 2016](#)

	BJSHS		PVEC	
Course Name	Sections	Students	Sections	Students
LEARNING STRATEGIES 11			9	24
LEARNING STRATEGIES 12			8	25
LIFE_WORK TRANSITION 10			1	4
MATH ESSENTIALS 10	1	19	3	44
MATH ESSENTIALS 11			3	43
MATHEMATICS 10	2	55	4	105
MATHEMATICS 11	2	56	4	121
MATHEMATICS 12	1	30	3	69
MATHEMATICS AT WORK 10			2	32
MATHEMATICS AT WORK 11	1	17	2	31
MATHEMATICS AT WORK 12			1	24
MATHEMATICS PRE_IB 10			2	47
MODE DE VIE ACTIF 11 IMM	1	13		
MULTIMEDIA 12	1	16		
MUSIC 10	1	10	3	72

	BJSHS		PVEC	
Course Name	Sections	Students	Sections	Students
EAL 10	1	10	2	15
ECONOMICS 12			1	18
ENGLISH 10	3	64	6	146
ENGLISH 10 PLUS			2	23
ENGLISH 11	2	61	6	150
ENGLISH 12	2	56	4	137
ENGLISH_COMMUNICATIONS 11	1	10	3	48
ENGLISH_COMMUNICATIONS 12	1	9	4	59
ENGLISH PRE_IB 10			2	43
ENTREPRENEURSHIP 12	1	24		

	BJSHS		PVEC	
Course Name	Sections	Students	Sections	Students
CO_OPERATIVE EDUCATION 12	2	36	3	21
CO_OPERATIVE EDUCATION 12 TWO	1	11	1	11
CO_OPERATIVE EDUCATION 12A			1	1
COMMUNITY BASED LEARNING 10	1	15	1	18
COMMUNICATIONS TECHNOLOGY 11			4	105
COMMUNICATIONS TECHNOLOGY 12			2	33
CONSTRUCTION TRADES 11			1	13
DANCE 11	1	14		
DANCE 12	1	7		
DESIGN 11	1	17	1	25
DRAMA 10	2	16	1	20
DRAMA 12 THEATRE ARTS			1	14
EAL 10	1	10	2	15

SOC Recommendation # 1

High school course offering and class sizes

- * DEECD is working with boards to review high school courses with low enrolments.
- * Both BJSHS and PVEC, along with other SSRSB high schools, have a number of courses identified with low enrolment.

SOC Recommendation # 1

High school course offering and class sizes

- Current average class size for PVEC is 21.1
- Current average class size for BJSHS is 18.6

[Link PVEC](#)

[Link BJSHS](#)

- 2015-2016 DEECD Small Section Report - BJSHS and PVEC (April 29th DEECD request)

[Link](#)

School	Term	Courses	Type	Total
PVEC	Sem 1	STR10	-	12
PVEC	Sem 1	STR10	-	12
PVEC	Sem 1	EAL10	-	12
PVEC	Sem 2	SCI10	-	12
PVEC	15-16	IBBIO12SL,BIOL12	-	12
PVEC	Sem 1	FR10IM	-	11
PVEC	Sem 1	MTW10	-	11
PVEC	15-16	IBENG11	-	11
PVEC	Sem 2	CMT12AC	-	11
PVEC	15-16	IBECSL12	-	11
PVEC	Sem 1	IBTOK12	-	11
PVEC	Sem 2	IBTOK11	-	11
PVEC	Sem 2	IBFR11	-	10
PVEC	Sem 2	PHIL12	-	10
PVEC	Sem 2	PHY11	-	10
PVEC	Sem 2	IBAV11	-	9
PVEC	Sem 1	MUSIC12	-	8
PVEC	Sem 1	STR10	-	7
PVEC	15-16	IBAVSL12	-	7
PVEC	15-16	IBHIS12HL	-	7
PVEC	15-16	FR12IM,IBFRHL12	-	6

School	Term	Courses	Type	Total
BJSHS	Sem 2	CHE1511	-	14
BJSHS	15-16	FR12APIM	-	13
BJSHS	Sem 1	MVA11	-	13
BJSHS	Sem 1	BIOL11	-	13
BJSHS	15-16	ENG12AP	-	12
BJSHS	15-16	PHY12,PHYS12AD	-	13
BJSHS	Sem 2	DAN12	-	12
BJSHS	Sem 1	PDT11	-	12
BJSHS	Sem 1	PHL12	-	11
BJSHS	Sem 2	PHE10	-	11
BJSHS	15-16	CHE1511AD	-	11
BJSHS	Sem 1	ENG11ADV	-	10
BJSHS	15-16	PHY11AD	-	10
BJSHS	Sem 2	PDT12	-	10
BJSHS	Sem 1	DRA10	-	9
BJSHS	15-16	MUSIC10	-	9
BJSHS	15-16	SCS10IM	-	8
BJSHS	15-16	PHEAL11	-	8
BJSHS	Sem 2	DRA10	-	7
BJSHS	Sem 1	YOGA11	-	5
BJSHS	15-16	BIO12AP	-	4
BJSHS	Sem 1	BIOL11AD	-	3

School	Course Title	Enrolment										Notes				
PVEC 409	BIOLOGY 12									3						soft-landing for IBBIO12SL and IBBIO12SLA (revised schedule matching BOTH colle
PVEC 409	BUSINESS TECHNOLOGY 11														9	stand-alone, started at 10 students in Semester 2, one (1) dropped
PVEC 409	CANADIAN HISTORY 11										2					stand-alone scheduled for STEP program students as graduation requirement
PVEC 409	CAREER DEVELOPMENT 11														10	stand-alone scheduled for STEP program students as graduation requirement
PVEC 409	COMMUNICATIONS TECHNOLOGY 11														9	stand-alone scheduled for Grade 10-Alternate program students as graduation req
PVEC 409	CONSTRUCTION TRADES 11														10	stand-alone, started at 11 students in Semester 2, one (1) dropped, course capped
PVEC 409	EAL 10													6		stand-alone, started at 7 students in Semester 2, one (1) dropped
PVEC 409	FRANCAIS IMMERSION 12/IB FRENCH B HL 12													6		stacks with IB FRENCH B SL 12 (but doesn't schedule ALL year the same)

School	Course Title	Enrolment										Notes				
BJSHS 508	ADVANCED BIOLOGY 11										3					stacked with 13 students in BIOL 11, periods checked error in Semester 1
BJSHS 508	ADVANCED ENGLISH 11														10	stand-alone, started at 14 students in Semester 1, four (4) dropped
BJSHS 508	ADVANCED PHYSICS 11													8		stand-alone, started at 16 students as year-long course, eight (8) dropped
BJSHS 508	AP BIOLOGY 12										4					stand-alone, started at 6 students as year-long course, two (2) dropped
BJSHS 508	BIOLOGY 12	1														scheduled with Guidance, timetable/teacher conflict
BJSHS 508	CANADIAN FAMILIES 12	1														outside-the-box, student who didn't graduate 14-15
BJSHS 508	DRAMA 10										6					stand-alone, started at 7 students in Semester 2, two (2) dropped, one (1) newly added
BJSHS 508	DRAMA 10														9	stand-alone, started at 11 students in Semester 1, two (2) dropped

SOC Recommendation # 1

Five year review of courses lost and gained at PVEC and BJSHS

- * Both schools have lost the ability to offer more courses than they have gained in the last five years.

School	Courses Lost	Courses Gained	Net Result
PVEC	24	6	-18
BJSHS	16	9	-7

- * PVEC 2010-2011 Courses versus 2015-2016 Courses (from an SOC request)
[Link](#)
- * BJSHS 2010-2011 Courses versus 2015-2016 Courses (NEW)
[Link](#)

SOC Recommendation # 1

Additional programming challenges

- * There are increasing challenges at both high schools to provide for students core programming and specialized programs (AP,IB,O2,FI,Step).
- * For each of the specialized programs (AP,IB,O2,FI,Step) there are required courses. When a student wants to take a course outside their required courses (i.e. AP and FI) it is often not possible for students to get their choices.
- * In order to offer the current course options, Bridgewater High School offers some required courses outside the schools regular school hours (Physical Education 11, Physical Education 12, Histoire Planetaire 12 and Global History 12). This is outside the 300 minute day and should there be a shift in staffing, this could pose a program and course selection issue.

SOC Recommendation # 1

Programming Implications - Math

- * Five grade 11 Math courses (by 2017-2018)
 - * Math Essentials 11
 - * Math at Work 11
 - * Extended Math 11 – 220 hours and/or Math 11 – 110 hours
 - * Pre Calculus 11
- * In order to offer all Math options at grade 11, a large number of students is required
- * Grade 11 2016-17 projected enrolment for BJSHS – 68
- * Grade 11 2016-17 projected enrolment for PVEC – 229

		Last 2 Years							
		2015-2016				2014-2015			
Courses		BJSHS		PVEC		BJSHS		PVEC	
Math 10 Essentials (110 Hours)	MTHE10	18	26%	40	18%	0	0%	39	16%
Mathematics 10 (220 Hours)	MT10	51	74%	96	43%	54	82%	105	44%
Math at Work 10 (110 hours)	MTW10	0	0%	40	18%	12	18%	32	13%
Pre-IB Mathematics 10 (220 Hours)	MTH10PRIB	0	0%	46	21%	0	0%	62	26%
Math 11 Essentials (110 Hours)	MTHE11	0	0%	38	16%	16	17%	40	17%
Mathematics 11 (110 Hours)	MT11	53	77%	122	52%	68	72%	114	48%
Math at Work 11 (110 hours)	MTW11	16	23%	28	12%	11	12%	41	17%
IB Mathematics 11 (110 Hours)	IBMATH11	0	0%	46	20%	0	0%	44	18%
Pre-Calculus Mathematics 11 (110 Hours)	PCAL11	26	38%	48	26%	30	38%	52	27%

SOC Recommendation # 1

Programming Implications – French Immersion

- * Consolidation of high school programming into one school, provides the opportunity for French Immersion programming for all students
- * Neither school currently offers High School Core French ... and Core French is not part of the offerings in Nova Scotia Virtual School - NSVS (online).
- * Section sizes in French Immersion and IB French programming are continuing to be a challenge at both schools (as evidenced by recent DoEECD class size audit results). In some situations, students at BJSHS have relied on NSVS to complete French Immersion certificate courses.
- * Grade 9 students from late French Immersion at Hebbville and Grade 9 students from Integrated French at Bluenose Academy currently have limited options at PVEC outside of IB French. (ie. leave peer group to transfer to Immersion at BJSHS - late versus middle).
- * French Immersion programming in the Bridgewater family of schools begins in Grade 4 with healthy class sizes at BES. There has always been a certain level of decline, beginning in mid-late junior high and continuing on into high school. This sometimes results in single-digit cohorts of students at BJSHS.
- * [Link](#)

SOC Recommendation # 1

Programming Implications – French Immersion

School	School Year	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12	
BES	15-16							Note: All French Immersion
BJSHS	15-16	26	22	15	7	8	13*	* AP Francais 12 (otherwise French Immersion)
HA	15-16	24	12	7				** Intensive
BA	15-16	23#	27#	26#				** Intensive, # Integrated
PVEC	15-16				11		2	Note: All French Immersion
BES	14-15							Note: All French Immersion
BJSHS	14-15	24	14	14	11	13	13***	*** AP Francais 12/FI 12 (otherwise French Immersion)
HA	14-15	17	12	24				** Intensive
BA	14-15	28#	27#					** Intensive, # Integrated
PVEC	14-15				15			Note: All French Immersion

SOC Recommendation # 1

Programming Implications – Options & Opportunities (O2)

- * The SOC has recommended that the Board fund an expanded O2 program at Park View Education Center
- * Presently each high school is funded for and offers one O2 program. Both programs have full enrolment

SOC Recommendation # 1

Programming Implications – Advanced Placement (AP) and International Baccalaureate (IB)

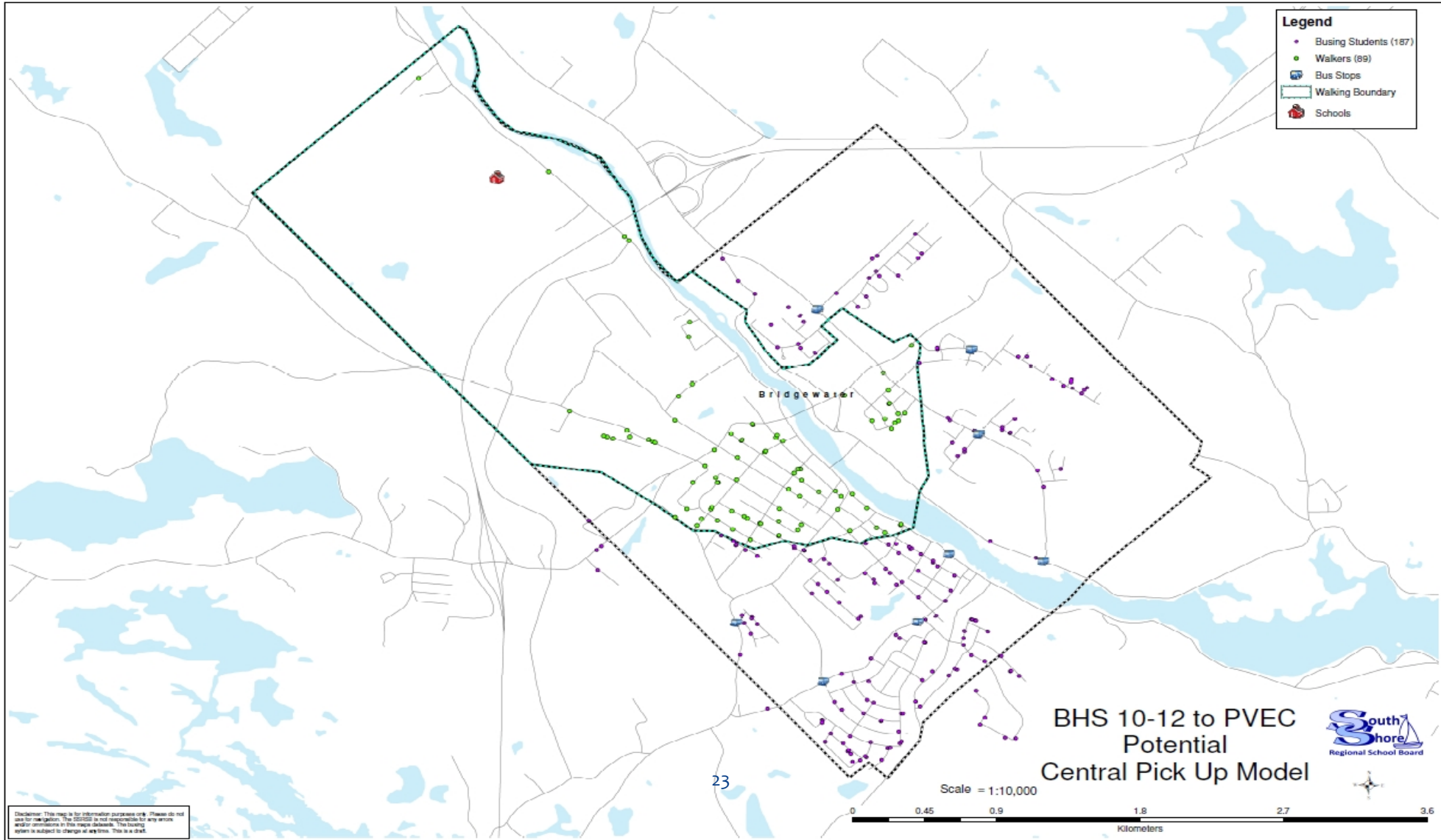
- * The board receives funding for IB programming at PVEC
- * Minimal funding is received for AP programming. Funds for this program must come from global funding

SOC Recommendation # 1

Student Transportation

- * A walking distance of 3.6 km is included in the Education Act and SSRSB board policy
- * Students in Bridgewater beyond this distance would require transportation
- * Stopping locations will be created
- * Cost – none, because existing infrastructure would be used
- * There would be a minimal effect on current student travel time

BJSHS 10 – 12 to PVEC Potential Central Pick Up Model



SOC Recommendation # 1

Staffing implications at the high school level

- * Teachers would be reduced by approximately 5.5 FTE using current enrolments.
- * Administrative Assistant staff would be reduced by 1.5, without examining BES
- * Cost savings would be close to \$450,000.
- * Job security - using the numbers of current permanent staff at BJSHS and PVEC, there would be no surplus staff. There are enough openings due to term contracts, vacancies and retirement/resignations to enable job security for permanent teaching staff.

Realigning Grades 10-12 from BJSHS to PVEC			
	Current Staff	Following Realignment	Difference
Teachers	81.52	75.93	5.59
Non Teaching	5	3.5	1.5
Teacher			392,261
Non Teaching			62,910
Salary and Benefit Savings			455,171

SOC Recommendation # 1

Cost Implications

Cost Implications	
Transportation (Cost Neutral)	\$0
Staff Savings	455,175
Loss of Small School Funding	-160,486
Addition of O2 Program	-55,864
Estimated Annual Savings	\$238,825

Transition plan may include one time costs

SOC Recommendation # 2:

That school catchment areas for the Bridgewater and Park View families of schools be determined by the Board with consideration for improving bussing times for all students

This report includes the highlights of the SSRSB Policy # 390 School Catchment Area Review

SOC Recommendation # 2

SSRSB Policy # 390

3.1. A catchment area review may be recommended as one outcome in a School Review to respond to recommendations from the Long Range Outlook for any of the following reasons or circumstances:

- 3.1.1. Reorganization of catchment areas involving a school or group of schools to enhance safe, efficient, and cost effective transportation system for its students;
- 3.1.2. Reorganization involving a school or group of schools to enhance program or learning opportunities for students;
- 3.1.3. To accommodate grade configuration;
- 3.1.4. To respond to changes in demographics;
- 3.1.5. To respond to the permanent closure of a school(s);
- 3.1.6. To respond to new school construction

SOC Recommendation # 2

Catchment Area Review

- * A draft plan, based on optimized travel times for students for the Bridgewater and Park View Families of Schools, was shared with the SOC based on their request.
- * Upon board approval of the SOC recommendation and board direction, staff will begin catchment area review consultations.
- * Staff advise that Recommendation #2 not be initiated until Recommendation #1 has been implemented

SOC Recommendation # 3:

That the board direct the superintendent to evaluate facility utilization and operational costs throughout the SSRSB.

That application be submitted to DEECD for an Addition and Alteration for BES and BJSHS

This report includes no additional data because:

- The Long Range Outlook responds to these recommendations and the board receives this document yearly.
- Staff submit capital plans for board approval on a yearly basis. This recommendation should be considered by the board in a request for TCA Capital Funding.

SOC Recommendation # 4:

That grade configuration for the BES and BJSHS schools be determined by Staff

- At the request of the SOC, staff created a grade configuration plan for PVEC, BJSHS and BES
- A grade configuration report would offer data about the implications for
 - Enrolment and utilization
 - Programming
 - Staffing
 - Cost
- Should the board accept recommendations # 1 and # 2, staff are able to begin public consultation on recommendation # 4.

SOC Recommendation # 4

Staffing Changes

BHS / PVEC Scenarios							
Estimated Impact on Staffing Allocations							
	2015-16 Current Configuration	2015-16 BES P-4 BHS 5-9 PVEC 10-12	2015-16 BES P-5 BHS 6-9 PVEC 10-12	2015-16 BHS 10-12 Only	2017-18 Current Configuration	2017-18 BES P-4 BHS 5-9 PVEC 10-12	2017-18 BES P-5 BHS 6-9 PVEC 10-12
BES	30.42	21.63	23.29	30.42	29.95	21.19	25.91
BHS	32.22	21.19	20.53	13.47	31.80	23.13	20.20
PVEC	49.30	62.46	62.46	62.46	45.01	57.40	57.40
For current year:	111.94	105.28	106.28	106.35	106.76	101.72	103.51
Savings (additions)		6.66	5.66	5.59		5.04	3.25
Admin Assistant	7.00	5.00	5.00	5.50	7.00	5.00	5.00
Financial Impact (estimate)							
Teaching		467,344.99	397,173.07	392,261.03	0.00	353,666.48	228,058.74
Non Teaching		83,880.10	83,880.10	62,910.07	0.00	83,880.10	83,880.10
Funding Reduction - small high school		-160,486.00	-160,486.00	-160,486.00		-160,486.00	-160,486.00
Total		390,739.08	320,567.16	294,685.10	0.00	277,060.57	151,452.84

SOC Recommendation #5:

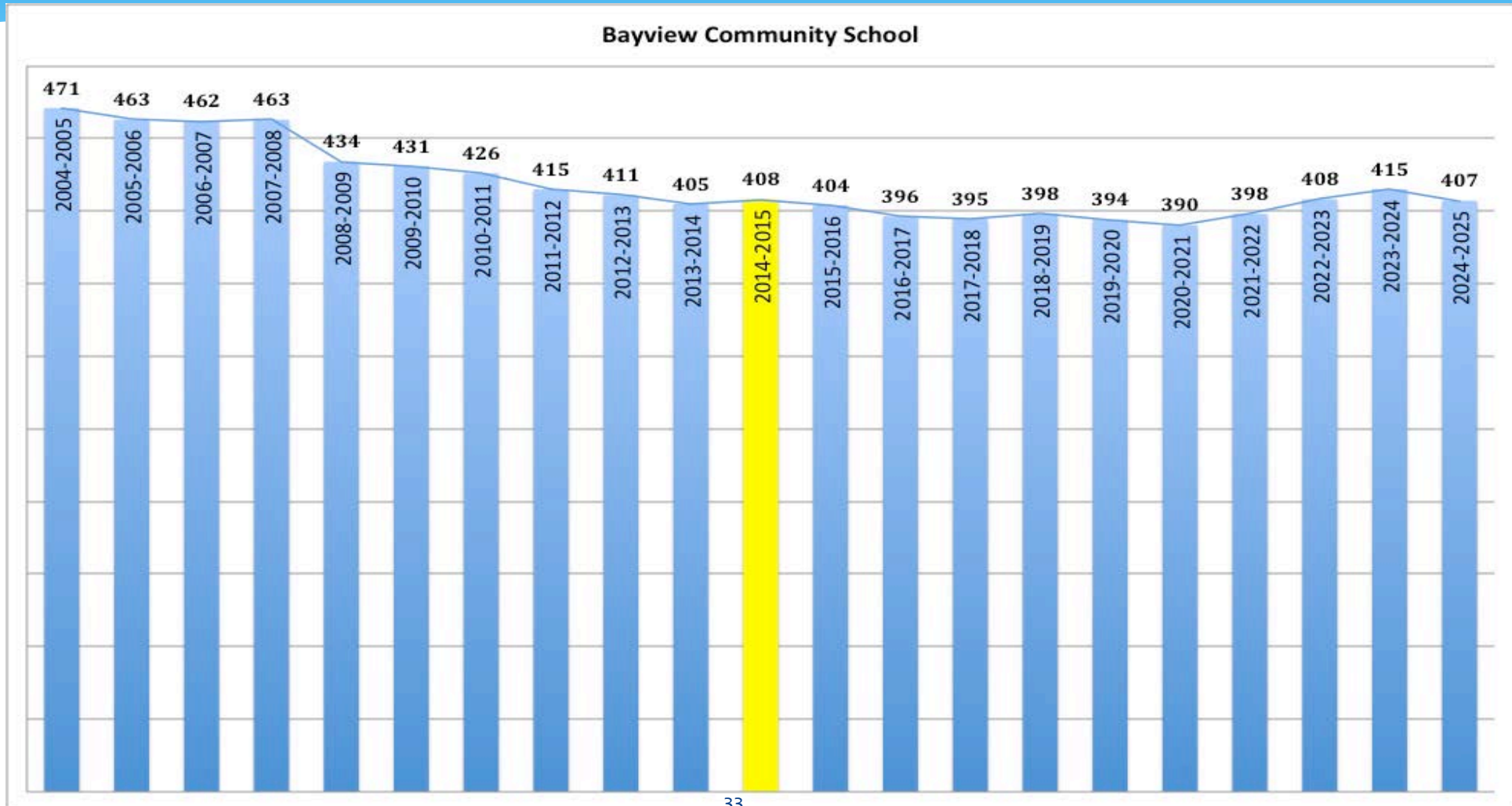
That Bayview Community School remain part of the board's infrastructure beyond 2020

This report includes data that supports this recommendation, but also includes information that would inform the board's communication with DEECD.

- Projected enrolment
- Opportunity for student accommodation in nearby schools

SOC Recommendation #5

Projected Enrolment for Bayview Community School



SOC Recommendation # 5

Opportunity for student accommodation in nearby schools

- * Based on present enrolment data, relocating Bayview students to surrounding schools would:
 - * Increase Bluenose Academy beyond 100% utilization (110%) . All other schools receiving students would remain below 100% utilization.
 - * Student travel times would increase.
 - * Transportation infrastructure would need to be added at a cost of up to \$500,000 to accommodate student relocation to other schools.

Superintendent and Program Director discussion with BJSHS Student Council

- * Discussed SOC Recommendation #1
 - * Outline of process
 - * Student concerns
 - * Transition team
 - * Questions and answers