

P.O. Box 1749 Halifax, Nova Scotia B3J 3A5 Canada

> Item No. 4 (ii) Halifax Regional Council August 14, 2012 Committee of the Whole

TO:	Mayor Kelly and Members of Halifax Regional Council
SUBMITTED BY:	Original signed by
SUDWITTED D1.	Richard Butts, Chief Administrative Officer
	Original signed by
	Brad Anguish, Acting Deputy Chief Administrative Officer
DATE:	July 26, 2012
SUBJECT:	Long Term Arena Strategy – Project Report

# <u>ORIGIN</u>

- April 1, 2008: Short Term Arena Strategy presentation to Regional Council.
- January 26, 2010: Regional Council Motion "It is recommended that Halifax Regional Council approve the Terms of Reference attached to this report to establish a Steering Committee to develop a Long Term Arena Strategy."
- June 8, 2010: Regional Council Information Report re: Implementation of Community Access Plan.
- January 10, 2012: Regional Council Motion: "To request that staff deliver a report on the feasibility and effectiveness of a web based booking and payment system for arena users with the ultimate goal of including all indoor and outdoor sports facilities (ie: ball diamonds, sports fields, courts, etc.). Phase 1 to include HRM owned and operated arenas with a view to having Phase 2 include Multi district facilities and also facilities operating under management agreement. Phase 3 would include all other arenas in HRM should the owners or operators wish to participate. This staff report is requested to be submitted to Council prior to the 2012/13 budget deliberations as to factor in any associated budgetary costs."
- January 24, 2012: Regional Council Motion: "To request a staff report detailing the planned reduction/changes to the hours of operation for the Dartmouth area arenas, The Bowles and The Gray, and how these service changes will impact user groups during the spring and especially early fall (month of September) during hockey tryouts."

# **RECOMMENDATIONS ON PAGE 2**

# **RECOMMENDATION**

It is recommended that Halifax Regional Council:

- 1. Approve the Long Term Arena Strategy (Attachment 1) in principle with the exception of the timeline for the Peninsula and Dartmouth consolidations and the location of the Peninsula 4-Pad and direct staff to undertake further assessment of those aspects based on new information received since the completion of the strategy;
- 2. Direct staff to complete the project scope including consideration of partnership opportunities, capital costs, operational efficiencies, ice inventory, preliminary designs and public consultation for the Peninsula and Dartmouth consolidations and return to Regional Council for approval of an implementation plan;
- 3. Direct staff to implement the Centralized Scheduling Process as outlined in the Long Term Arena Strategy (Attachment 1);
- 4. Direct staff to implement the Community Access Plan as outlined in the Long Term Arena Strategy (Attachment 1);
- 5. Direct staff to approach other levels of government and potential private sector partners for funding assistance; and
- 6. Officially thank the committee members for their work and disband the Long Term Arena Strategy Committee as their mandate has been completed.

# EXECUTIVE SUMMARY

The Long Term Arena Strategy (LTAS) is the second phase of work undertaken to address HRM's ice arena deficiencies. The LTAS was initiated in January 2010 after completion of the first phase of analysis which addressed short term arena needs and resulted in the construction of the BMO Centre.

The primary concerns that led to the advancement of the Long Term Arena Strategy related to the ability of the Municipality to maintain the level of available ice inventory when close to 60% of the arenas are now over 30 years of age, and have not received annual recapitalization, resulting in deficiencies in their upkeep.

Based on these concerns, analysis was completed on Arena Lifecycle Building Assessments, Facility Operational Reviews, User Group Analysis and Facility Usage Analysis over four seasons (Regular, Spring, Summer, September). As a result of the analysis, it was determined that:

- The current number of ice sheets in the region is adequate at this time.
- The implementation of a Centralized Scheduling Process will provide for strategic usage of facilities and, in turn, ensure better utilization of the assets.
- Implementation of the Community Access Plan will ensure a fair and equitable distribution of ice time throughout sports, genders and age groups.
- Consolidation of aging facilities into multi-pad arenas is supported as a fiscally responsible decision related to both capital construction and operations. In addition, the

retirement of aging facilities provides opportunities to promote and support other non-ice sport development, such as Lacrosse.

# BACKGROUND

In January 2008, Council issued an Expression of Interest to secure private sector interest in a partnership for the construction and management of a 4-Pad arena. This initiated the commencement of a two-phased strategy to address HRM's ice arena deficiencies. The first phase was intended to address short term immediate needs. The second phase was intended to position HRM's ice arena inventory for the long term.

## Phase 1

The short term strategy was presented to Regional Council in April 2008 and outlined the need for additional inventory as a result of a recent closure (Akerley Arena), pent up demand for additional access to ice by user groups, and an immediate high risk for failure in three existing facilities.

The high risk facilities in 2008 were:

- Saint Mary's University The University announced its intent to demolish and rebuild the facility. This rebuild has not yet taken place.
- Shearwater Arena The Department of National Defence (DND), the facility owner, announced its concern about the in-floor refrigeration system at the facility and its high risk to fail. DND took the facility off-line for the 2010/11 season, installed a new in-floor refrigeration system, and it is now operating without risk.
- Devonshire Arena HRM identified that the facility was at a high risk to fail as a result of the in-floor refrigeration system and other mechanical issues. This facility has declined further and continues to be a high risk.

Phase 1 resulted in a decision of Regional Council to construct a 4-Pad facility. The opening of the BMO Centre in 2010 created a period of relative stability, and positioned the municipality with sufficient ice inventory to accommodate some sport and user growth. In addition, a Community Access Plan was successfully implemented at the BMO Centre, as outlined in the June 2010 report to Regional Council. The implementation of this plan at one facility did not, however, address the concerns brought forward by user groups regarding arena scheduling throughout HRM. Therefore, consideration of expansion of the Community Access Plan was considered as part of the LTAS.

It was also identified during the first phase that, in addition to Council direction regarding municipal assets, decisions of private arena owners can have negative impact on citizens, regardless of the fact that the facilities are not municipal facilities. Planning for future, through the LTAS, therefore required consideration of the status of privately owned arenas as well as municipally owned arenas.

# Phase 2

The Long Term Arena Strategy (LTAS) was initiated in January of 2010 through Council's approval of the terms of reference for a Steering Committee. The Steering Committee provided citizen commitment and leadership for this phase. Participating members represented key stakeholder user groups including:

- Skate Canada Nova Scotia (Figure Skating)
- Speed Skate Nova Scotia
- Ringette Nova Scotia
- Hockey Nova Scotia
- Lacrosse Nova Scotia
- Sport Nova Scotia
- Nova Scotia Department of Health and Wellness-Physical Activity, Sport and Recreation

In addition to stakeholders, representatives from the following special interest areas were included:

- Recreational skating
- Recreational adult hockey
- Off season arena usage

The scope of work for the LTAS review included:

- Consideration of non-municipal facilities
- Consideration for recapitalization, replacement and reuse of facilities
- Siting options
- Outdoor refrigeration opportunities
- Identification of proposed priorities
- High level multi-year capital budget outline for implementation for municipal facilities.
- Consideration for operational and governance enhancements related to scheduling, access plan, and pricing structures.

The Council appointed Steering Committee was given the mandate to develop and recommend a vision for the long-term provision of ice inventory, with consideration for the full scope of work as outlined above. The Steering Committee mandate is included as "Appendix F" in the attached Long Term Arena Strategy Report (Attachment 1).

The terms of reference for the LTAS Steering Committee and project were approved in January 2010. Following a recruitment process the Committee was formed and then initiated work on the LTAS process in September 2010. As part of the Canada Games Legacy, it was intended that the chillers from the Emera Oval be reallocated to other locations across HRM. Therefore, the mandate of the LTAS committee was expanded to include assessment of locations for the chillers after the Canada Winter Games. Therefore, a portion of the initial work of the committee was focussed on this aspect. Due to the success of the Emera Oval, Regional Council decided to make it permanent at the current location in March 2011. This decision removed the need for the committee to complete the assessment of locations and therefore, the focus of the committee

shifted to the remaining mandate items. Also, in December 2010, Regional Council opted to bid on the 2015 FIFA Women's Soccer event and commencing in May 2011, the work on the LTAS was suspended for the most part while analysis on a potential stadium was undertaken until the final decision was made in March 2012. During the work on the Stadium, minimal work continued on the LTAS including further data analysis and periodic assessment by the committee. Upon completion of the stadium work in March 2012, focus returned to the LTAS work and completion of the final analysis.

# DISCUSSION

The provision of sport, recreation and community facilities continues to be primarily a municipal responsibility in HRM. Access to privately owned facilities takes place as well, but privately owned facilities in most cases have specific user groups that have priority over the general public. Exceptions to this rule exist at the Sackville and District Community Arena and the Rocky Lake Dome where public users are the priority.

There are 26 ice sheets in the municipality (when all are operational), as a result of the addition of the Rocky Lake Dome Arena in 2009, the BMO Centre in 2010. However, Dalhousie has closed their facility, effective April 1 2012, for an undetermined period. During the short term arena strategy, 25 ice surfaces were recommended as a target for the region. With the closure of Dalhousie, HRM currently has the recommended number of ice surfaces. This target was confirmed as part of the long term arena strategy work.

#### Facility Profiles

Within the inventory of 26 ice surfaces, HRM owns and operates either directly, or through various partnerships, 20 ice sheets which are located in 14 different municipal facilities. Staff has reviewed and is familiar with some of the operational goals and objectives of the privately owned facilities, but has not carried out any level of extensive detailed review on those ice surfaces.

Of the 20 ice sheets that are owned by HRM, 4 are located at the new BMO Centre, and 1 is the Halifax Metro Centre. BMO Centre is in the early stage of lifecycle, and has a requirement to provide annual funding for lifecycle recapitalization as an annual operational budget expense in their budget. There is no risk of system failure at BMO Centre at this time. The Halifax Metro Centre is the region's primary indoor spectator venue, is operated by Trade Centre Limited(TCL), and includes a provision for annual lifecycle funding. There is no risk of system failure at Halifax Metro Centre at this time. It should be noted however, that as a result of a recent Auditor General report, the Management Agreement with TCL is under extensive review.

Based on the relative stability of the BMO Centre and Metro Centre ice surfaces, technical analysis was focused on the remaining 15 sheets of ice, located in 12 municipal facilities, as outlined in Table 1.

Table	1:	Munici	pal Arenas
Lanc		munici	parminub

Municipal Arena Facilities	Facility	Year	Age in
-	Туре	Constructed	Years
Bowles Arena	Arena	1972	40
Centennial Arena	Arena	1967	45
Cole Harbour Place Scotia 1	*MDF	1975	37
Cole Harbour Place Scotia 2		1988	24
Dartmouth Sportsplex	MDF	1982	30
Devonshire Arena	Arena	1971	41
Eastern Shore Community Arena	MDF	1973	39
Gerald J Lebrun Arena	Arena	1972	40
Gray Arena	Arena	1972	40
Halifax Forum	Arena	1927	85
Halifax Forum Complex – Civic		1995	17
Arena			
Sackville Sports Stadium	MDF	1989	32
Spryfield Arena	Arena	1972	40
<b>St Margarets Centre Fountain</b>	MDF	2005	7
St Margarets Centre Smith		1985	27

\*MDF – Multi District Facility

Several different building types exist in the municipality within the context of overall sport, recreation and leisure service delivery. In the ice arena category, five of the municipal facilities provide a wide spectrum of recreation services, and are considered to be Multi-District (MDF) or Hub facilities. For these facilities, the provision of ice inventory is one of many activities that take place within the building footprint and is an integrated component of the operation. The Multi-District facilities are geographically located such that citizens can reasonably access them within a 20-30 minute drive time (drive times are somewhat longer for rural residents), as supported in the Community Facility Master Plan and subsequently approved in principle by Regional Council (CFMP June 2008).

The MDF facilities, currently undergoing a review as directed by Regional Council in November of 2011, play important roles in the overall municipal service delivery process. The LTAS recommendations reflect an ongoing commitment to recapitalization at the MDF facilities.

# The LTAS Approach

The primary concerns that led to the advancement of the Long Term Arena Strategy are related to the ability of the Municipality to maintain the level of available ice inventory when close to 60% of the arenas are now over 30 years of age, and have not received annual recapitalization, resulting in deficiencies in their upkeep.

As reported in the Short Term Arena Strategy (April 2008), "major recapitalization for arenas is anticipated at year 30 or above in order to extend the reliability of each arena facility, assuming there has been ongoing annual investment of between 1.5-2%, anticipated to exceed the \$2M

benchmark at each arena". The current situation in HRM, is a heightened level of concern about these aging facilities, an increased requirement for recapitalization per facility (from \$1.9M - \$5.4M), a high percentage of high risk arenas, and recent information regarding the closure of the Dalhousie Arena.

Based on these concerns, analysis was completed in the following categories:

- Arena Lifecycle Building Assessments Audits
- Facility Operational Reviews
- User Group Analysis
- Facility Usage Analysis over 4 Seasons (Regular, Spring, Summer, September)

Recommendations were considered by the Steering Committee to add value where there was evidence of inherent efficiencies to the overall provision of services to citizens. The basic concept of "enhanced participation for citizens" was a guiding principle to the review. A final measure for the Steering Committee was the premise that the future provision of ice in HRM should be done in a manner that provides a more cost and operationally effective structure.

In the current environment of aging arenas, there was consideration given to the value of consolidation and building of new facilities as purpose built and located, versus the value of continued investment in existing aging facilities.

It should be noted that all categories of analysis were equally important to the development of recommendations. Consideration was given to the technical soundness and capacity of each facility to perform operationally, the functionality of the facility from a service delivery perspective, the location of the facility, and the role of the facility in the overall recreation, sport, and community service delivery mandate.

# Arena Lifecycle Building Assessments - Audits

The Building assessments were carried out by Capital Management Engineering Ltd. These assessments resulted in a charting of the recapitalization categories and investment requirement for each facility, for the next 25 years. Subsequently, this data was used to prepare lifecycle building assessments for the 12 facilities. The resulting data allowed for discussion and subsequent development of recommendations related to requirements for facility recapitalization and/or replacement. Summaries of each facility assessment are outlined in Appendix A of the LTAS report (Attachment 1).

# **Facility Operational Reviews**

Operational reviews were carried out with each municipal facility in order to consider issues such as operational cost recovery, policies related to allocation of ice time to user groups, governance structures, pricing structures, and seasonal usage perspectives. The data required for this purpose was obtained from each facility and included schedules, policies, and operating budgets.

The operational review provided a clear understanding of broad market and user group needs. Currently, operating in an environment of competition against each other, each arena and MDF is left to attract its user groups as best they can. Most (11 of 15 ice sheets) are managed by

separate volunteer boards in arms-length agreements with the Municipality. Four are operated directly by the Municipality. This complex governance structure does not lend itself to a consolidated approach to service delivery for citizens, a strategic approach to utilization of municipal facilities, a consistent approach to access, pricing, or equitable usage of municipal assets.

## **User Group Analysis**

Analysis of the needs of various user groups was also completed. The following overview provides a summary of the findings related to each group.

#### Minor Sport

Analysis was completed through provincial sport associations that are responsible for the growth and development of minor sport. Participant registrations and ice time access were charted for each category. In addition, discussions were held with facility schedulers related to waitlisted requests that are not accommodated in the existing system. The analysis indicated that currently, although there are requests on record from some minor sport groups for additional prime time ice, most groups are accommodated sufficiently based on their current programs and registration numbers.

It should be noted that based on the per capita assessment, the minor hockey associations as a group, generally have access to 42% more ice time than either ringette or figure skating participants. Inequity exists as well within the various minor sport associations. Within minor hockey, for example, the average usage per participant ranges from 9.3 minutes per hour to 15.6 minutes per hour.

#### Adult Recreational Women's Hockey

Analysis done with Nova Scotia Women's Hockey League in preparation for the opening for the BMO Centre, and subsequently, indicates that access to ice time for this group is based not only on the availability of prime time hours, but on the cost of those hours as well. Recent attempts to offer the group more ice time at the BMO Centre have not been successful. The price per hour for ice prohibits the group, as a developing sport, to utilize that facility and so the group chooses to use less appealing ice times at older, less expensive facilities.

#### Adult Recreational Men's Hockey

As traditional arena users, men's recreational hockey groups are plentiful, well organized, and well serviced in terms of ice allocation at this time. Adult recreational men's leagues utilize a combination of prime and non-prime ice time in order to accommodate youth users primarily in prime time hours. Based on data which supports the fact that minor sport is generally well served, these programs should be supported and continued. There is also the possibility that, as the 50+ demographic continues to grow; this market may become more important to the overall utilization of arena facilities.

#### Public Skating

Concerns are ongoing relative to the overall lack of prime time access to citizens for recreational skating in municipal facilities. This concern is substantiated by a review of facility schedules. Most facilities offer ample recreational public skating opportunities during the weekday, but

offer limited, if any, recreational public skating at other times of the week. The addition of the Emera Oval as a permanent recreational skating venue has been successful and as a result, public recreational skating demand may increase as a leisure choice for citizens.

## User Group Summary

Existing user group concerns and challenges do not represent the need for additional inventory of sheets of ice. Rather, centralized scheduling, community access plan, and a more strategic overall approach to the operation of facilities will result in an optimal and more cost effective utilization of the municipal arena assets. As well, it will provide for better equity across user groups and opportunities for growing sports such as adult recreational women's hockey and potentially other adult ice programming.

## **Facility Usage Analysis**

Ice utilization review has been taking place with municipal facilities in detail since Spring of 2010 with detailed facility schedules submitted by facility staff for each season on a regular basis. The recent review focused not only on regular season (traditional arena usage dates of October 1 to March 31), but also included analysis related to the spring season (April 1 – June 30), and summer season (July 1 – August 31). Currently, September 1 – October 1 usage is specific to minor hockey and some figure skating "try out" requirements. While this period is not currently included in the current ice utilization review, the process should be expanded to include it in order to provide better service delivery to user groups.

The percentage of usage during regular season is outlined in Table 2.

_	2011	2007
# Of Ice Sheets	20	15
Prime time	99%	100%
Fringe Total	60%	75%
Early Morning	39%	61%
Late Afternoon	91%	99%
Late Evening	59%	74%

#### Table 2: Regular Season October 1 – March 31

Prime time is defined as 6:00PM to 10:00PM Monday to Friday and 8:00AM to 10:00PM Saturday and Sunday

Fringe hours include Early Morning, Late Afternoon and Late Evening:

- Early Morning hours are defined as 6:00 AM to 8:00 AM, 7 days per week;
- Late Afternoon hours are defined as 4:00 PM to 6:00 PM Monday to Friday;
- Late Evening are defined as 10:00 PM to midnight, 7 days per week.

This is key information relative to user group demand. As shown in the Table 2, there is currently a small surplus in the prime time category of ice indicating a slight change since 2007.

A more marked difference however is noted in the decrease of "off-prime times". Since user groups, generally prefer prime time access, "off-prime" times are traditionally more effectively utilized when there is less inventory in the system, or when peak user group demand exceeds available prime time scheduling. Concern arises in this situation because associated revenue

projections for the "off prime times" declines as a result. A decline in off-prime ice rentals will have a negative effect on the financial operation of facilities.

For Spring and Summer seasons, not all ice surfaces are in operation. Therefore, the number of hours available for booking is reduced. The variation between prime and non-prime hours is not as significant. Based on the analysis, 41% of the available hours of ice time is utilized during the spring season and 47% of the available hours of ice time is utilized during the summer season.

This facility usage data indicates that there is sufficient ice capacity and opportunity for improved scheduling during the spring and summer seasons that will result in a higher level of performance of the facilities without compromising service delivery to citizens and sport user groups.

# **Key Report Findings and Recommendations**

Based on the analysis, four key findings were determined:

1. The existing inventory of ice arenas in the region is adequate at this time, and there is no indication of critical shortage as a result of the announced closure of the Dalhousie Arena.

The following facts indicate decreasing demand and extra capacity in existing arenas:

- Usage in arenas is currently declining. Off-peak usage has reduced over the past two years see LTAS Table 8 (Attachment 1);
- Adult recreational hockey groups seem to be well served presently, based on demand levels. These groups historically have used a higher percentage of off-peak ice times, and off-peak usage has declined significantly since 2007;
- Regional population in the 0-19 age groups are declining as outlined in LTAS, Table 14: School Enrolments (Attachment 1).
- 2. The implementation of a Centralized Scheduling Process will provide for strategic usage of facilities and in turn, ensure more overall effectiveness and utilization of the assets.
  - This is particularly true in the off peak seasons of Spring, Summer and September, as well as during non-Prime regular season times. See LTAS Tables 9, 10 (Attachment 1).
- 3. Implementation of the Community Access Plan will ensure a fair and equitable distribution of ice time throughout sports, genders and age groups.
  - Currently only in place at the BMO Centre, the Community Access Plan will support the existing youth and adult programs and will allow for additional access for new and underserviced groups.

- 4. Consolidation of aging facilities into multi-pad arenas is supported as a fiscally responsible decision related to both capital construction and operations. See LTAS Table 7a, (Attachment 1). In addition, the retirement of aging facilities provides opportunities to promote and support other non-ice sport development, such as Lacrosse.
  - The LTAS project report outlined a timeline for the implementation of facility • recommendations including proposed consolidations and recapitalization of existing multi-district facilities. This recommended timeline took into account the current state of the existing facilities and the value of continued investment in aging arenas compared to the benefits of consolidation and renewal. The short terms goals include continued investment in the existing multi-district facilities through strategic recapitalization starting in the next 3 years as well as the initial consolidation of three existing arenas into one location on the Peninsula. Life safety recapitalization for stand-alone arenas would continue while capital planning for consolidations is completed and confirmed by Regional Council. Medium term objectives include continued strategic recapitalization of the multidistrict facilities and the second consolidation of aging facilities resulting in the replacement of an additional three arenas into another location. Long term objectives will include annual life cycle investment in all facilities and completion of the identified recapitalization requirements for multi-district facilities.

Specifically, the following multi-district facilities are included in the LTAS recapitalization recommendation: St. Margaret's Arena, Sackville Sport Stadium, Dartmouth Sportsplex, Cole Harbour Place and Eastern Shore Centre. The Peninsula consolidation would result in the closure and replacement of Devonshire Arena, Halifax Forum and Civic Arena. The Dartmouth Consolidation would result in the closure and replacement of the Bowles, Gray and Lebrun arenas. Other facility recommendations in the report relate to the Spryfield Arena and Centennial Arena. Further investigation is necessary to ensure that the proper approach is taken regarding the redevelopment of the Spryfield Arena. Once the initial LTAS recommendations are implemented, the role that the Centennial Arena plays in service delivery can be assessed. Staff will return to Regional Council with recommendations regarding both arenas. Until that time, life safety investment in these facilities will continue.

There are benefits to the short term delivery of both the Peninsula and Dartmouth consolidations as well as unique challenges in both scenarios. Table 3 provides a comparison of both consolidation recommendations.

Land Availability       1. Forum Site         2. Other         Land Cost       1. Municipally Owned	<ol> <li>Shannon Park</li> <li>Dartmouth Crossing</li> </ol>
Land Cost   1. Municipally Owned	2. Dartmouth Crossing
	3. Other
	1. Government Owned – cost
2. Unknown (possibly municipally owned	estimated to be \$5M
or land-swap)	2. Private Sector Owned – cost
	estimated to be \$10M - \$15M
	3. Unknown (possibly municipally
	owned or land-swap)
Existing Facility Risks 1. Devonshire – High Risk to Fail	1. Bowles – Low Risk to Fail
2. Forum – High Risk to Fail	2. Gray – Low Risk to Fail
	3. Lebrun - Low Risk to Fail
Potential Partnership 1. Dalhousie University	1. None identified at this time
Opportunity 2. Saint Mary's University	
Estimated Construction \$45M	\$40M + land
Costs	
Proposed # of Ice Sheets 1. Municipal need: 3	1. Municipal need: 3
2. If partner is secured: 4	2. If partner is secured: 4
Project Risks 1. If Forum site is chosen, there is a need	1. The cost of potential sites is high
to ensure that there is no service	2. Operating costs for the three
disruption for ice users while a new	identified arenas is high. Delay
multi-pad arena is constructed. If this is	in consolidation of a new multi
not possible, the impact to user groups	pad arena in this area will result
will be significant.	in ongoing high annual subsidies
2. If a site other than the Forum is selected,	and increasing recapitalization
the project can proceed without any	costs.
negative impact to user groups.	
*Operating Benefits & Devonshire Arena	Bowles Arena
25 year Recapitalization Total Revenues: \$232,000	Total Revenues: \$308,000
Savings Total Costs (direct and indirect): \$404,000	Total Costs (direct and indirect): \$532,000
Operating Deficit: (\$172,000)	Operating Deficit: (\$224,000)
Recapitalization Savings: \$3,104,000	Recapitalization Savings: \$1,944,000
Halifax Forum Complex	Gray Arena
Total Revenues: \$3,559,000	Total Revenues: \$335,000
Total Costs (direct and indirect):\$3,601,000	Total Costs (direct and indirect): \$497,000
Operating Deficit:(\$213,000)*	Operating Deficit: (\$162,000)
*after debt and capital, not including subsidy	Recapitalization Savings: \$1,957,000
Recapitalization Savings: \$5,366,000	
	Lebrun Arena
	Total Revenues: \$278,000
	Total Costs (direct and indirect): \$364,000
	Operating Deficit: (\$86,000)
	Recapitalization Savings: \$2,560,000
*Based on Comparative Data in LTAS Appendix D, and Table 7b and 17, Attac	chment 1

# Table 3: Comparison of Consolidation Recommendations

The consolidation of 6 existing aging facilities into 2 new multi-pad facilities (one on Peninsula Halifax and one in Dartmouth) is anticipated to reduce operating, maintenance and recapitalization costs in excess of \$2M per year. Furthermore, annual lifecycle reserves would be established at the facilities and funded through operating revenues of each facility (Indicative operating costs Section 2.2.3, Attachment 1). The reserves would allow for ongoing and appropriately scheduled recapitalization.

# **Partnership Opportunities**

During the work of the Steering Committee, potential partnership opportunities became apparent. Ongoing discussions indicate that there may be opportunities that would benefit both HRM and private partners. In particular, both Saint Mary's University and Dalhousie University are at critical stages for decisions on their future arena needs. Department of National Defence is anticipated to transfer Shannon Park lands in the near future providing an opportunity for HRM to consider that site as a future arena site. These situations are currently in active discussions and therefore, current information is more advanced than that which was available to the Steering Committee during the completion of the project report.

In addition, work on the Centre Plan process is being completed (as part of the Regional Plan review) and is expected to be presented to Regional Council in Fall 2012. As part of that work, analysis is being conducted on key corridors throughout the Peninsula including the area surrounding the Forum. Therefore, the findings of the corridor work may provide additional land opportunities that could be considered for the Peninsula consolidation.

In terms of the requirements for the universities, short term accommodations are needed for their ice sports. Initial discussions have been ongoing regarding the option to partner with the Forum to accommodate their programs for the short term. Accommodation of the university programs in the short term could form the foundation of a long term partnership. Approval of LTAS report and recommendations will provide the direction to enter into detailed discussions on long term partnerships with Saint Mary's and Dalhousie universities along with accommodation of their programs while the work on the consolidations is completed.

# **Council Recommendations**

Based on the findings of the LTAS report and potential partnership information, the following actions are recommended:

1. <u>Approve the Long Term Arena Strategy in principle with the exception of the proposed</u> <u>timeline of the schedules of the Peninsula and Dartmouth consolidations and the location</u> <u>of the Peninsula 4-pad and direct staff to undertake further assessment of those aspects</u> <u>based on new information received since the completion of the strategy.</u>

Approval in principle would provide overall strategic direction to staff for the lifecycle and operation of arenas within HRM. However, staff would return to Regional Council for discussion and approval of each specific recommendation, as projects are developed. In addition, since completion of the LTAS analysis and report, potential partnership opportunities and land considerations have become more prevalent. Therefore, while staff supports the rationale behind the timelines and locations of the consolidations, proposed in the LTAS report, it is prudent to further assess the opportunities to determine the most effective implementation plan.

2. Direct staff to complete the project scope including consideration of partnership opportunities, capital costs, operational efficiencies, ice inventory, preliminary design and public consultation for the Peninsula and Dartmouth consolidations and return to Regional Council for approval of an implementation plan.

Rather than continued investment of significant funds into aging facilities that will not improve the overall performance of the facilities, the report recommendations would provide for the investment of municipal funds to be effective in both the development of the facilities, and the development of an overall service delivery model that positions the municipality for effective and strategic service provision through location, type, size, and operational model. The number of buildings in the system would be reduced from 14 to 10, allowing for better owner asset management.

It is recommended that the Peninsula Consolidation take place as soon as possible. The High Risk facilities, as listed in Long Term Arena Strategy Project Report Section 2.6.1 (Attachment 1), are all located in the greater Peninsula area. That, coupled with the recent closure of the Dalhousie Arena, and the ongoing desire of Saint Mary's University to rebuild their facility at some time in the near future, creates the potential for significant service interruption on and around the Peninsula.

However, it is key to ensure that the development of the consolidated Peninsula site has only limited or no service interruption for arena users on the Peninsula. If this is not possible, the Dartmouth Consolidation should be considered first. For this reason and the fact that opportunities for partnerships are currently relevant, it is recommended that Regional Council direct staff to investigate all opportunities and challenges for both the Peninsula and Dartmouth consolidations and return to Regional Council with a recommended implementation plan. This assessment will permit further determination of any partnership opportunities including land considerations, analysis of capital costs and operating efficiencies, confirmation of ice inventory required during construction and creation of public consultation program for feedback on the preliminary designs.

# 3. <u>Direct staff to implement Centralized Scheduling Process as outlined in the attached</u> <u>LTAS Project Report (Attachment 1)</u>

Centralized Scheduling would be carried out in cooperation with existing facility schedulers and management groups, and would enhance the existing process. If approved, it would be necessary to allocate staff and other resources to this task. Therefore, it is intended that staff will return to Regional Council with a proposed process and procedure to allow for implementation in time for the Fall 2013 regular ice season. In addition, as part of the implementation, the management agreements for all HRM owned and community run facilities will be updated to reflect centralized scheduling.

This process would allow for a strategic approach to utilization of ice, and will ensure that minor sport and adult sport groups, along with recreational citizen usage of ice,will be treated consistently and appropriately from a facility usage perspective. Centralized Scheduling would also provide a single portal for efficient and fair access to available ice by user groups and citizens.

Centralized scheduling across all arenas will build upon the current process being completed for viewing of available ice time at the HRM operated arenas. It is expected that the initial view- only availability site for the HRM arenas will be implemented concurrently with the LTAS centralized scheduling.

4. Direct staff to implement the Community Access Plan as outlined in the attached LTAS Project Report (Attachment 1).

As shown in the user group data, there are inequities in the allocation of ice. Expansion of the Community Access Plan across all arenas will help to achieve equitable distribution of ice time amongst sport groups and genders. In addition, concurrent implementation of the community access plan and centralized scheduling will help provide for a successful execution and ensure realization of the equitable distribution.

5. <u>Direct Staff to approach other levels of government and potential private sector partners</u> <u>for funding assistance</u>

Currently, neither the Province of Nova Scotia nor the Federal Government has funding programs to support the development of this type of public infrastructure. However, the possibility of future funding programs should not be discounted. Private sector interest is possible through potential partnerships for service provisions and/or naming rights.

6. <u>Officially thank the committee members for their work and disband the Long Term</u> <u>Arena Strategy Committee as their mandate has been completed</u>

- 16 -

The LTAS Committee has completed their mandate as outlined in their terms of reference therefore, the continuance of the committee is not necessary. The work undertaken by the committee has been extensive and provides valuable data for HRM.

# **BUDGET IMPLICATIONS**

There are no budget implications at this time. If approved, staff will return to Regional Council with an implementation plan for centralized scheduling and a proposed implementation plan for the Peninsula and Dartmouth consolidations. All budget implications will be outlined at that time.

# FINANCIAL MANAGEMENT POLICIES/BUSINESS PLAN

This report complies with the Municipality's Multi-Year Financial Strategy, the approved Operating, Project and Reserve budgets, policies and procedures regarding withdrawals from the utilization of Project and Operating reserves, as well as any relevant legislation.

# COMMUNITY ENGAGEMENT

Regular LTAS Steering Committee meetings have taken place since September 2010 in order to review data, to advise on next steps, and to develop recommendations. In addition, annual meetings and data collection has taken place with regional arena schedulers, management groups and private operators in order to ensure that communication was ongoing, and that data utilized in the report was accurate.

Further community engagement on the preliminary designs of the consolidations will be undertaken consistent with the Community Engagement Plan approved by Regional Council in December 2008. A public consultation plan will form part of the implementation plan for the Halifax and Dartmouth consolidations which will be presented to Regional Council for approval.

# **ENVIRONMENTAL IMPLICATIONS**

None indicated

# ALTERNATIVES

- Alternative 1: Regional Council may choose not to approve the LTAS in principle. This is not the recommended course of action. With aging infrastructure, there can be unforeseen circumstances that cause service disruption to citizens.
- Alternative 2: Regional Council may choose to defer or not implement centralized scheduling and access policies. This is not the recommended course of action. Centralized scheduling has been an expressed recommendation for several years, is

recommended in the Arena Capacity Report completed in 1999, and is necessary for improved arena capacity utilization.

- Alternative 3: Regional Council may choose not to not direct staff to undertake further assessments of both the Halifax and Dartmouth Consolidations. This is not the recommended course of action. As a result of the high risk facilities on the Peninsula, there is a high probability of service interruption in the near future. The recent closure of Dalhousie Arena has pushed the local capacity to the limit. In addition, recent possible partnership opportunities warrant investigation to determine which location provides the best short term scenario for HRM.
- Alternative 4: Regional Council may choose to direct staff to proceed with either the Dartmouth or Halifax Consolidation immediately. This is not the recommended course of action. While there are high risk facilities on the Peninsula, assessment of both options will ensure that the best short term scenario is obtained for HRM.
- Alternative 5: Regional Council may choose not to approach potential government and other partners to implement these recommendations. This is not the recommended course of action. Partners and other levels of government may reduce the requirement for municipal funds, and relieve a portion of the financial burden to the municipality.

# **ATTACHMENTS**

Attachment 1: Long Term Arena Strategy and Appendices

http://www.halifax.ca	can be obtained online at /council/agendasc/cagenda.html then choose the appropriate meeting date, Office of the Municipal Clerk at 490-4210, or Fax 490-4208.
Report Prepared by:	Betty Lou Killen Coordinator, Regional Recreation & Culture 490-4833
Report Approved by:	
	Denise Schofield, Manager, Regional Recreation & Culture, 490-6252
Financial Approval by:	Greg Keefe, Director of Finance & Information Technology/CFO, 490-6308
Report Approved by:	Richard MacLellan, A/Director Planning & Infrastructure, 490-6056
	0,22
Report Approved by:	Brad Anguish, Director, Community and Recreation Services, 490-4933
	*



# Long Term Arena Strategy

10 YEAR CAPITAL ACTION PLAN 40+ YEARS OF CITIZEN BENEFIT

June 2012

Respectfully submitted to Regional Council on behalf of the Council Appointed Steering Committee

#### ACKNOWLEDGEMENTS

His Worship Mayor Peter Kelly Halifax Regional Council

Council Appointed Steering Committee Chair Mike Freill, Citizen Representative Regional Council Representative, Councillor David Hendsbee Regional Council Representative, Councillor Tim Outhit Citizen Representative Donna Goguen (Lacrosse) Citizen Representative Jennifer Gray (Adult Recreational Ice) Sport Nova Scotia Representative, CEO Jamie Ferguson Speed Skate Nova Scotia President, Terri Dixon Ringette Representative Alan Saade Skate Canada / Nova Scotia Representative, Executive Director, Jill Knowles Hockey Nova Scotia Representative, Executive Director, Greg Knight

<u>Staff</u> Betty Lou Killen, Project Manager, Planning and Infrastructure Terry Gallagher, Manager Facility Development, Planning and Infrastructure

> Data Consultant Catherine E. Oliver

The Project Manager would like to thank the Long Term Arena Strategy Steering Committee participants for bringing their subject knowledge to the table and for their ability to contribute both personally and as representatives of important stakeholder groups.

# **TABLE OF CONTENTS**

Executive Summar	γ	Pages 6 - 8
Section 1: Backgro	bund	Pages 9 - 11
1.1 Introductio	n	
1.2 Project Ma	ndate	
Section 2: Plannin	g Context – Project Discussion and Situation Analysis	Pages 11 - 35
2.1 Community	y Facility Master Plan: Facility Development Principles	
2.2 Arena Inve	ntory	
2.2.1	Construction/Opening Dates/Age of Facilities	
2.2.2	Ownership and Management Model	
2.2.3	Cost Recovery – Operational Effectiveness	
2.3 User Group	os – Mandate for Service Delivery	
2.4 Demograp	nic Analysis and Population Forecasts by Minor Hockey District/Schoo	l District
2.6 Current Sta	ate of Arenas	
2.6.1	Recapitalization Summary (Lou Dursi)	
2.6.2	Recapitalization Financial Impact by Year	
2.7 Review of 0	Canada Games Legacy Facilities	
2.7.1	St. Margaret's Centre Olympic Ice	
2.7.2	Emera Oval	
2.7.3	Consideration for Additional Outdoor Community Refrigerated Ice	
Section 3: Recom	nendations	Pages 35 - 43
3.1 Facility Sta	ndards Recommendations	-
3.2 Policy Deve	elopment Recommendations	
3.3 Capital Dev	velopment Recommendations	
3.4 Financial St	trategy Recommendation	
3.5 Implement	ation Recommendations and Timelines (overview)	
Section 4: Implem	entation	Pages 44 - 46
Section 5: Summa	ry	Pages 46 - 47

# **APPENDICES**

APPENDIX A:	Building Assessment Summaries Arenas	Pages 50 - 90
APPENDIX B:	2001 Arena Capacity Study - Update 01/29/09, Catherine Oliver	Pages 92-113
APPENDIX C:	Long Term Arena Strategy Background Report 03/31/11, Catherine Oliver	Pages 114-133
	Arena Operations Assessment Nov. 2010-Oct. 2011 12/30/11, Catherine Oli BMO Financial Package for Period Ending March 31, 2012	Pages 134-151 ver Pages 152-159
APPENDIX E:	Community Facility Master Plan 06/30/08 www.halifax.ca/facilities/CFMP/documents/CFMPFINALMay08.pdf	Pages Online
APPENDIX F:	LTAS Steering Committee Terms of Reference www.halifax.ca/facilities/CFMP/documents/LTASSteeringCommitteeTermsofRe	Pages 162-165
APPENDIX G:	Community Access Plan www.halifax.ca/facilities/CFMP/documents/CommunityAccessPlan.pdf	Pages Online

# **EXECUTIVE SUMMARY**

Analysis for the Long Term Arena Strategy included all municipally owned ice surfaces, with consideration for the full landscape of arena inventory.

The scope of work for this review was broad and included such things as:

- Consideration of non-municipal facilities;
- Consideration for recapitalization, replacement and reuse of municipal facilities;
- Locational options;
- Outdoor refrigeration opportunities;
- Identification of proposed priorities; and
- High level multi-year capital budget outline for implementation for municipal facilities

Also included in the discussion and recommendations are consideration for operational and governance enhancements related to scheduling, access plan, and pricing structures.

In all cases, recommendations were considered by the Steering Committee to add value, where there was evidence of inherent efficiencies to the provision of services to citizens. The concept of "enhanced participation for citizens" was an important guiding principle. An additional consideration for the Steering Committee was that the provision of ice in HRM should be done in a manner that would enhance access to citizens while, when possible, provide a more cost and operationally effective structure for the Municipality. The consolidation and construction of replacement arenas as purpose built and purpose located, versus continued investment in existing aging arenas was reviewed in detail. The key findings led to recommendations related to opportunities for the replacement of aging arenas in order to provide a higher level of efficiency and operational effectiveness by consolidation and retirement of some aging arenas.

The Steering Committee has taken a look to the future. The recommendations that follow are an indication of a desire to be proactive in the establishment of more effective and sustainable arena provision and service delivery.

Four Key Findings:

- This study determined that there is no need to add additional inventory no additional ice surfaces are recommended as part of this review. The following facts indicate decreasing demand and extra capacity in existing arenas:
  - Usage in arenas is currently declining. Off-peak usage has reduced over the past five years see Table 8a, 8b;
  - Adult recreational hockey groups are well served presently, based on demand levels. These groups historically, have used a higher percentage of off peak ice times then they are currently using;

- Regional population in the 0-19 age groups is declining as outlined in Table 16 School Enrolments; and
- The HRM "Recreation Blueprint" focuses on children and youth as primary target markets.
- 2. The implementation of a Centralized Scheduling Process will provide for strategic usage of facilities that will in turn ensure more effective utilization of municipal assets.
  - This is particularly true in off peak seasons like Spring, Summer and September, as well as during non-prime regular season times. See Tables 9a, 9b, 10a, 10b.
- 3. Implementation of the Community Access Plan will ensure a fair and equitable distribution of ice time throughout sports, genders and age groups.
  - Currently in place at the BMO Centre, the Access Plan will support the existing youth and adult programs currently in place, and will allow for additional access for new and underserviced groups.
- 4. Consolidation of aging arenas into multi-pad arenas is supported as a fiscally responsible decision related to both capital construction and operations. As older arena facilities are retired and replaced, opportunities for their re-use will be present which could assist in the promotion and support of non-ice activities such as Lacrosse.

The consolidation of 6 existing aging facilities into 2 new multi-pad facilities is anticipated to reduce operating, maintenance and recapitalization costs to the Municipality in excess of \$2M per year. Furthermore, annual lifecycle reserves will be established at each of the two proposed facilities, and would be adequately funded through operating revenues of each facility. (Indicative operating costs Section 2.2.3)

Recommendations in this report are organized into 5 categories, and will guide decision making for the provision of arena facilities into the future:

- 1. Facility Standards Recommendations
  - Development of 12 "functional considerations" to be considered in construction of new and recapitalized facilities
- 2. Policy Development Recommendations
  - Supporting the Steering Committee principle of enhanced participation, 6 recommendations are to be considered. They address issues such as Access, Centralized Scheduling, Cost Recovery, and Pricing
- 3. Capital Development Recommendations
  - Recapitalization for Multi-District Facilities that have arenas
  - Peninsula Consolidation Multi Pad Arena
  - Dartmouth Consolidation Multi Pad Arena

- Retirement and effective re-use of existing aging arenas
- Overall reduction of building inventory from 14 to 8
- 4. Outdoor Rinks Recommendations
  - Long Term Community Refrigerated Ice Program

As outlined in 2.7.3, the Steering Committee proposes that a long term investment be made into outdoor refrigerated ice opportunities for other areas in the Municipality, in order to enhance participation, and reduce some barriers such as transportation for some citizens. This investment would include both capital and operating funds in order to develop small refrigerated ice surfaces throughout the Municipality – and that annually, a decision be made through a grant/lottery to situate a facility in a local community. It is suggested that this recommendation be reviewed within the context of capital planning for consideration after 5 years of successful Emera Oval operation.

- 5. Financial Strategy and Implementation Recommendations
  - Utilizing existing annual recapitalization funds for strategic long term benefit
  - Support and promote capital partnerships
  - Short Term proceed with Peninsula Consolidation
  - Medium Term proceed with Dartmouth Consolidation

Short Term	Medium Term	Long Term
Recommendations	Recommendations	Recommendations
2012 - 2015	2016 - 2020	2020 - 2025
<ul> <li>Centralized Scheduling</li> <li>Access Policy</li> <li>Peninsula Consolidation</li> <li>MDF Phase Recapitalizations</li> <li>Annual lifecycle investments</li> </ul>	<ul> <li>Dartmouth Consolidation</li> <li>MDF Phase 2 Recapitalizations</li> <li>Annual lifecycle investments</li> </ul>	<ul> <li>MDF Phase 3 Recapitalizations</li> <li>Annual lifecycle investments</li> <li>Outdoor Rink Project</li> </ul>

This timeline is contingent on being able to proceed with the Peninsula Consolidation without compromising the current level of arena inventory. If this is not possible, the Dartmouth Consolidation should proceed first. This is important in order to maintain the current service level of arena users to meet their program needs.

Refer to Sections 3 Recommendations, and 4 Implementation for detailed discussion.

# **SECTION 1: BACKGROUND**

#### 1.1 Introduction

The Long Term Arena Strategy (LTAS) was mandated by Regional Council in January of 2010, in order to fulfill the analysis required to guide arena inventory decision making.

Council initiated a two-phase strategy to address the region's arena deficiencies (i.e. arena shortage and their aging condition). Phase 1, the short term strategy, addressed an immediate critical shortage of ice surfaces and resulted in construction of the BMO Centre. Phase 2 is the development of a Long Term Arena Strategy that would look at the remaining aging infrastructure and develop long term options to ensure there would remain a stable and adequate number of ice surfaces in the future. Phase 1 was led by the Municipality. Phase 2 is being led by a Council approved Steering Committee. The Terms of Reference for the Long Term Arena Strategy Steering Committee were approved by Regional Council at the January 26, 2010 Council Meeting, and are included in Appendix F of this report.

The Committee, led by a staff Project Manager, was assigned to undertake stakeholder discussions, data gathering and analysis (e.g. building condition assessments, demographic and user trends, capital and operating costs, etc.) and to present options and a recommended strategy to Council. The recommendations will address issues such as recapitalization of existing arenas, consolidations and construction of new arenas, closures, priorities, comparative capital/operating costs of various arena configurations/options, and phasing. In the case of any recommended closures, the Committee will also provide recommendations with respect to whether these buildings and properties should be disposed of or redeployed for other recreational or public purposes.

The successful completion of the LTAS project is represented by a series of recommendations in a number of areas included in this report. Based on the evidence gathered in the process of this analysis, the implementation of these recommendations will result in renewed efficiencies in operations and service delivery, and enhanced access to the municipal arena assets for the next 40+ years. Regional Council will be guided by the thorough work of the Steering Committee, representing all of the major ice and non-ice arena user groups, and volunteer citizens, as HRM moves together toward an integrated and strategic approach to the management of municipal arena assets for the common good of all users.

#### **Project Timeline**

The terms of reference for the LTAS Steering Committee and project were approved in January 2010. Following a recruitment process the Committee was formed and then initiated work on the LTAS process in September 2010.

As part of the Canada Games Legacy, it was intended that the chillers from the Emera Oval be reallocated to other locations across HRM.

Therefore, the mandate of the LTAS committee was expanded to include assessment of locations for the chillers after the Canada Winter Games.

A portion of the initial work of the committee was focussed on this aspect. Due to the success of the Emera Oval, Regional Council decided to make it permanent at the current location in March 2011. This decision removed the need for the committee to complete the assessment of locations and therefore, the focus of the committee shifted to the remaining mandate items. Also, in December 2010, Regional Council opted to bid on the 2015 FIFA Women's Soccer event and commencing in May 2011, the work on the LTAS was suspended for the most part while analysis on a potential stadium was undertaken until the final decision was made in March 2012. During the work on the Stadium, minimal work continued on the LTAS including further data analysis and periodic assessment by the committee. Upon completion of the stadium work in March 2012, focus returned to the LTAS work and completion of the final analysis.

## 1.1.1 Project Mandate

As approved by Regional Council, the Committee's primary role was to develop and recommend a long term replacement strategy for the provision of municipally owned ice arenas in HRM. This strategy was to also consider the use of community outdoor refrigerated ice rinks as a possible part of the replacement solution, and the 2011 Canada Games Legacy Rink (The Emera Oval).

More specifically, the Committee was asked to:

- a. Review and refine a staff recommended project scope and time line (Section 2.1)
- b. Develop with staff a public/stakeholder participation program in order to stimulate comment/ consultation and gain further input. Recommend public meetings as required. \*
- c. Advise on the need and priorities for background and studies and research (Section 2.1)
- d. Review all available background information
- e. Take into consideration usage and future plans of any non-municipally owned facilities and potential impacts (Section 2)
- f. Determine which HRM owned facilities are best suited to be recapitalized, which ones should be considered for conversions to other indoor recreation usage, and which ones would be better suited to be replaced. Include siting options/recommendations for those replacement needs (Section 3)
- g. Consider community outdoor refrigerated as a part of a long term replacement strategy. Include siting options/recommendations for those as well (Section 2.7.3)
- h. Take into consideration the 2011 Canada Games Legacy arena opportunity and recommend siting options for this project (Section 2.7)
- i. Recommend a multi-year implementation plan for the long term strategy, indicating the order in which priorities should be implemented (Section 4)
- j. Develop, with the aid of staff, a high level multi-year capital budget plan using industry standard costs/sq. ft. estimates (Section 4)
- k. Take into consideration, as part of the implementation strategy, the role of user fee cost recovery, cost sharing, fund-raising and use of area rates (Section 2.2.3)
- I. Make the final presentation and recommendation of a long term strategy to Regional Council

The Committee undertook all of these tasks. These recommendations have been developed based on a practical approach to both service delivery and sound operational expectations.

\* LTAS process was research based, with leadership representation from service provider groups and public at large on the Steering Committee. Although discussed by the Steering Committee at length as a project deliverable, the eventual timing of the project did not allow for open general consultation.

# SECTION 2: PLANNING CONTEXT

In order to provide Regional Council with an informative and evidence based report, three key areas of analysis were undertaken in the process of this analysis:

- a. Capital facility inventory and assessment
- b. User group access and usage statistics
- c. Facility operating revenues and expenditures

The Steering Committee undertook a thorough review of all aspects of the data and statistical analysis, and took a consensus approach to decision making during the development of recommendations. In addition, the Steering Committee adopted the philosophy that their primary goal, was to work towards recommendations and improvements to the existing service provision that would increase participation by citizens in ice season, and off ice season facility usage. It recognized that there are some barriers to participation at this time that are related to the rental cost of ice time. The lack of availability of prime time hours during the regular season ice time is also a barrier for some ringette and figure skating groups. See Table 13.

A review of prime time usage across all facilities identified that there is less usage of "fringe times" (i.e. 4:00 pm - 6:00 pm and 10:00 pm - 12:00 am during the week), then at any time in the recent history. See Table 8 a, b. The successful provision of additional ice inventory in the Short Term Strategy has resulted in a reasonably fair distribution of prime time access across the Municipality. However, the fact that fewer "fringe times" are being rented, along with pricing and scheduling considerations, has caused some financial strain in the system.

Arena managers concur that this decline in non-prime usage of facilities translates into a more competitive environment in which to acquire clients, and a more difficult task of generating overall revenues. Most clients clearly prefer access to prime time vs. non-prime time when given a choice. Facility Managers say that it is difficult to cost effectively operate public facilities without a strong percentage of utilization in the non-prime time category of ice inventory.

For the most part, minor hockey groups receive a reasonable percentage of access to facilities. Facility Schedulers indicate that their facilities do not have waitlists, and with the exception of the Eastern Shore minor sport organizations, groups are not requesting a large amount of additional ice time. As indicated in Table 13 Access in Minutes by User, there is currently a variance in access to ice time between minor hockey user groups, and other ice sports.

## 2.1 Community Facility Master Plan: Facility Development Principles

Facility Development Guiding Principles have evolved formally in HRM since the adoption on the 2004 Indoor Recreation Facility Master Plan (IRFMP) by Regional Council. The IRFMP document was the first of its kind for the Halifax Regional Municipality (HRM), which was an amalgamation of 4 existing municipalities in 1996. As such, it was necessary to outline basic guiding principles for facility development in order to establish a common level of expectation in the amalgamated municipality. The approval in principle by Regional Council of the Community Facility Master Plan (CFMP) in 2008 further supported and clarified the 2004 guiding principles.

These guiding principles for facility development (pg. 72 IRFMP) are:

- Philosophy
  - HRM understands and respects the geographic and social demographic diversity and responds to the needs of citizens in a fiscally prudent manner
  - Trends, carefully balanced with desires will be given careful consideration to develop accurate and appropriate priorities and strategies
  - Needs are also determined based on priority target groups as defined in the HRM Community and Recreation Services "Recreation Blueprint"
- Compatibility with HRM Regional Planning and Principles
- Partnerships Non-Municipal management and financing of recreation facilities is encouraged assuming the approved mandates and service delivery standards will be increased or at least achieved
- Community Management Agreements
  - Should be standardized to ensure the best interests of the citizens are being met
- Scale of Accommodation for Facility Location
  - Location of new facilities to be determined through Facility Implementation Model in consideration of the Regional Plan
  - New facility or expansion must have significant/appropriate population and demographic support
  - New facility development will not be undertaken in competition with existing (municipal) services
  - Recreation facilities will be located on highly visible sites that maximize access opportunities for citizens
  - Prior to development of additional facilities, existing facilities will be evaluated for existing special opportunities that accommodate the service need
- Facility Types
  - HRM facilities should focus on participation rather than spectator events
  - Whenever possible, new facilities should be developed in conjunction with existing in order to maximize both the convenience and enjoyment of citizens, and economies of scale in terms of operations
- Recovery of Operating Cost
  - Facilities should be provided in multi-use components and in combination with other services
  - Facility components and features should increase revenues whenever possible
  - Facilities should be scheduled to accommodate the needs of the users while at the same time maximizing cost recovery

Building on these stated principles, the 2008 Community Facility Master Plan provided the following additional areas for consideration (pg. 11 CFMP):

- Integrated Planning
  - Effective use of other Council approved strategies, directives and planning tools to facilitate integration of existing policies to ensure compatibility with community vision and existing community plans
- Distribution of Facilities
  - Consideration of population and its distribution throughout the municipality is an important aspect to successful community facility planning
- Activity Coverage
  - The municipality will strive to provide a range of recreation opportunities for its residents and design facilities that promote participation
- Community Based Arts and Culture
  - Program opportunities should be built into community facilities wherever possible
- Balance New Assets Against Lifecycle Obligations
  - A balance must be found between investing in new assets and existing facilities. Priority should be given to maintenance, lifecycle and upgrade of current assets
- Community Building Through Asset Management
  - Management models other than municipally operated facilities are strongly encouraged
- Ensure agility in planning to accommodate for future change

In every case, these principles are given consideration in new facility planning, and when recommendations for facility development are brought forward to Regional Council for consideration. In summary, these principles can be reduced to three guiding principles: build smart, build appropriate, and build only when necessary.

# 2.2 Arena Inventory

#### **Historical Perspective**

Arena inventory and provision of ice to user groups has historically been a shared role for the Municipality and a number of privately owned and operated arenas. Private owners, although in place primarily to respond to the needs of their specific constituency, allow and encourage a level of public usage in their facilities. Two of the six privately owned arenas operate specifically for the benefit of the public, and do so at no cost to the Municipality. The other four, two owned by DND and two owned by separate Universities, operate for the benefit of their own members, but allow some public access as well. Dalhousie University has recently announced a service disruption of one to several years as they repair or replace their aging arena, effectively reducing the inventory to 25 for an undetermined amount of time. The responsibility to provide recreation, sport and leisure facilities for citizens rests with the Municipality, and although there are examples of some capital funding assistance from the Province of Nova Scotia, these examples are rare, and are based on the priorities and capacity of the government of the day.

#### 2.2.1 Construction/Opening Dates/Age of Facilities

#### **Current Perspective**

Currently there are 26\* sheets of ice in the HRM, located in 20 different facilities.

#### Table 1: Arena Inventory

	Owner/Operator	Arena	Year Constructed	Age in Years
1	HRM/HRM	Devonshire Arena	1971	41
2		Gray Arena	1972	40
3		Gerald J LeBrun Arena	1972	40
4		Bowles Arena	1972	40
5	HRM/Community Board	Halifax Forum	1927	85
		Halifax Forum Complex – Civic Arena	1995	17
6		Centennial Arena	1967	45
7		Spryfield Arena	1972	40
8		Eastern Shore Community Centre	1973	39
9		Cole Harbour Place - Scotia 1	1975	37
		Cole Harbour Place - Scotia 2	1988	24
10		Halifax Metro Centre	1977	35
11		Dartmouth Sportsplex	1982	30
12		St Margaret's Centre - Fountain	1985	27
		St Margaret's Centre - Smith	2005	7
13		Sackville Sports Stadium	1989	23
14	HRM/Private Operator	BMO Centre – A, B, C, D	2010	2
15	Privately Owned	Shearwater Arena	1964	48
16		Saint Mary's Arena	1966	46
17		Shannon Park Arena	1969	43
18		Sackville and District Community Arena	1973	39
19		*Dalhousie Arena	1983	29
20		Bedford Dome	2009	3

\*recent closure announcement by Dalhousie University

#### Table 2: Age Profile

Age in Years	Number Of Ice Sheets
40+ years	10
30-39 years	5
20-29 years	4
10-19 years	1
9 years &under	6

Consistent with the age profile, recapitalization requirements have been identified for many of the municipal facilities. With 57% of the municipal inventory over the age of 30 years (11 of 20 arenas), and 58% of the overall inventory over 30 years (15 of 26 arenas), many of the requirements are related to mechanical systems that are considered to be critical to the ongoing capacity of the facility to make and keep ice. In most cases, investments in these facilities have been limited to general upkeep.

A comprehensive facility assessment has been carried out on each of the 14 municipally owned facilities (20 sheets of ice in total) in order to identify the recapitalization requirements necessary to maintain a basic level of productivity at each facility. The recapitalization planning does not address implementation of operational efficiencies outside of those which would be realized purely from the recapitalization of aging equipment and mechanical systems. This assessment will be discussed in Section 2.6.1.

#### 2.2.2 Ownership and Management Model

#### **Management and Operations of Facilities**

HRM owns and operates either directly, or through various types of partnerships, 20 ice sheets which are located in 14 different facilities. These 14 facilities are the primary subject area of this analysis. Staff have reviewed and is familiar with some of the operational goals and objectives of the privately owned facilities, but has not carried out a detailed review on those 6 ice surfaces.

#### Table 3: Owner/Operator Profile

Owner/Operator	Number
HRM Owned/HRM Operated	4
HRM Owned/Board or Private Operated	16
Privately Owned and Operated	6

Although owned by the Municipality, there are 10 different management groups tasked with operational and strategic responsibility for the facilities. This takes place, with two exceptions, through management agreements with community boards. A private company currently operates the BMO Centre 4Pad facility, and the municipality operates 4 single sheet arenas.

This model has created an effective competitive environment for the users, but also establishes a unique situation that in many cases works against the ability of user groups to get fair and equitable access to ice time.

This environment rewards the larger, more organized, historic user groups that are knowledgeable and capable of contacting and negotiating with several facility management groups concurrently, and works against smaller, less organized user groups and individuals that may not be experienced in this aspect. The more experienced group will choose the cheapest and best times for ice that are available, regardless of how many facilities they may have made tentative commitments with. This type of negotiation and ultimate last minute decision by the user groups often means that other potential user groups are not able to access the arena inventory (ice rentals), because of the lateness of the decision, and the ice often becomes surplus to the facility. This type of negotiation is currently the norm in HRM, and as a result, facilities and user groups alike are left at risk by user groups who, by no fault of their own, choose the most cost effective option at the last minute, releasing their unneeded inventory back into the system.

Volunteer board and partnership management groups in the HRM are to be commended for their work over many decades of service provision, often with limited or no assistance from the municipality. Their dedication to citizens related to the development and enjoyment of sport and recreation, set the stage for families, individuals, and young future sport stars to excel in our region. Without their vision and commitment, many of the facilities on our region would never have been built.

The following tables illustrate the current arena facility management groups in partnership with HRM:

Board and Partner Operated Arenas:	Operated by:
Halifax Forum Complex (including Civic Arena)	Halifax Forum Community Association
Centennial Arena	Centennial Arena Commission
Spryfield Arena	Spryfield Lions Rink and Recreation Society
Eastern Shore Community Centre	Eastern Shore Recreation Commission
Cole Harbour Place Scotia 1 & 2	Community Builders Inc.
Halifax Metro Centre	Trade Centre Limited
Dartmouth Sportsplex	Dartmouth Sportsplex Community Association
St. Margaret's Centre Fountain & Smith	St. Margaret's Arena Association
BMO Centre A, B, C, D	Nustadia Recreation Inc.
Sackville Sports Stadium	Interim HRM

#### Table 4: Board and Partner Operated Arenas:

Table 5:	Municipally	y Owned & O	perated Arenas:
----------	-------------	-------------	-----------------

Municipally Owned & Operated Arenas	
Devonshire Arena	Peninsula Halifax
Bowles Arena	Dartmouth
Gray Arena	Dartmouth
Bedford LeBrun Arena	Bedford

Privately Owned & Operated Arenas:	Owned by:
Dalhousie Memorial Arena	Dalhousie University (decommissioned as of April 1/12)
Saint Mary's Alumni University Arena	Saint Mary's University
Shearwater Arena	Department of National Defense
Shannon Park Arena	Department of National Defense
Sackville and District Community Arena	Lake District Recreation Association
Bedford Dome Arena	Rocky Lake Development Association

#### Table 6: Privately Owned & Operated Arenas:

#### **Cooperative Planning**

Annually, for the past three years, members of the volunteer board management groups, along with municipal staff, and the private arena owners, have gathered to review bookings for arena users in order to work towards fair and equitable ice allocation. This process has been voluntary and although well attended at about 80%, has not achieved 100% participation by all municipal partners. It is limited in scope, and was designed to allow for cooperative problem solving regarding requests for ice usage particularly when ice inventory is affected (such when the BMO Centre was introduced, or when Dalhousie University announced the closure of its arena). It does not address unused ice or ice time availability, does not thoroughly address the needs of recreational hockey for adult men or women, tournament equity, off season equity, public skating equity or the role of private sector skill development rentals.

It also does not benefit from a Council approved Community Access Plan in order to ensure groups and individuals are given fair and consistent access to municipal assets. The only facility to date with an "Access Policy" in place is the BMO Centre, HRM's new 4Pad Arena. This report will recommend the implementation of a centralized scheduling policy and a region – wide Access Plan in order to ensure better access and more efficient use of municipal facilities.

#### **Cost Recovery of Arena Operations**

At this time, board and privately operated municipal facilities are expected to operate at 100% cost recovery – that means that the revenues generated at the arena must meet or exceed all operational costs, debt service (if applicable) and recapitalization. Each of the facilities is able to apply to the municipality each year for recapitalization assistance and, pending budget approval, receive assistance in this area. Most of the facilities require some level of operational support from the municipality and receive that support in a number of different ways such as:

- Annual operating subsidy;
- Annual debt payments;
- No fee financial and administrative support; and
- Municipal leases for space or parking
In addition, each facility operates in isolation of the others as a separate entity. Operational decisions such as pricing structures, priority access to inventory, seasonal sport and tournament choices, whether or not there is off season ice i.e. summer ice available, staffing levels, refund and advertising policies, etc., are the responsibility of the individual management group. There is inconsistency in these operational policies by virtue of having many groups involved, and there is a level of difficulty inherent with ensuring that there is fair and equitable access for citizens throughout the region. As such, the task of finding and securing ice is not necessarily an easy one for citizens and user groups.

From an "asset owner" perspective, there is inconsistency in the types of performance measurements and accountabilities that are in place as a result. This is an area that would benefit from a strategic approach. The Steering Committee hopes to achieve benefits in this area through the implementation of the Community Access Plan, and the Centralized Scheduling methodology.

It should be noted that not only are there various management models, but there are various facility types as well. As previous facility principles have outlined, and current models have illustrated, multi-district or multi-use facilities are more cost effective to operate, and more convenient for citizens. It is difficult within the current financial reporting environment to "pull out" arena-specific information from these multi-district facilities and it is difficult to identify "apples to apples" in almost every case. This also is a symptom to some degree, of multiple management groups each with various software, reporting systems, and approaches.

Notwithstanding, the following Tables 7a and 7b in Section 2.2.3 provide an illustration of the existing information relative to each facility, including annual revenues and expenditures, and indicative surplus or deficit for the years as noted. This is not empirical data, but is a solid representation of the indicative costs to the municipality, and the fiscal benefit of consolidated facilities.

#### 2.2.3 Cost Recovery – Operational Effectiveness

#### Indicative Operating Cost of Facilities

With consideration of many factors in a fairly complex environment, the following Tables outlines indicative operating costs for municipal arena facilities for the time period noted. Tables 7a and 7b show actual revenues and expenses. Some of the facilities are classified as Multi-District Facilities (MDF) and some are classified as Arenas. As outlined in Section 2.2.2, various facility types and configurations make it challenging to provide an empirically correct comparison of operating costs at this time.

#### For detailed breakdown see Appendix D1 and D2.

#### Table 7a: Actual Operating Cost

	Facility Name	Facility Type	2010/11 Actual Revenue	2010/11 Actual Expenses	Annual Net Surplus (Deficit)
	Bowles Arena	Arena			
	Devonshire Arena	Arena			
	LeBrun Bedford Arena	Arena			
	Gray Arena	Arena			
a)	Sub Total		\$1,152,226	\$1,764,623	(\$670,421)
b)	BMO Centre (2010/11)	Arena	\$927,477	\$755,996	
		Capital Reserve		\$83,335	\$88,146
c)	BMO results (2011/12)	Arena	\$1,860,530	\$1,637,951	
		Capital Reserve		\$250,000	(\$51,877)
d)	BMO budget (2012/13)	Arena	\$1,926,275	\$1,589,581	
		Capital Reserve		\$250,000	\$91 <i>,</i> 828

The following actual results do not include specific additional support provided by HRM as listed in the Cost Recovery section of this report.

Facility Name	Facility Type	2010/11 Actual	2010/11 Actual	Net Surplus (deficit) (after subsidy, debt,
		Revenues	Expenses	capital)
Centennial Arena	Arena	\$578,000	\$599,000	(\$25,000)
Eastern Shore Community Centre	MDF	\$493,000	\$497,000	\$0,000
Spryfield Lions Arena	Arena	\$327,638	\$337,229	(\$21,485)*
Cole Harbour Place - Scotia 1& 2	MDF	\$3,530,000	\$3,161,000	\$103,000
Dartmouth Sportsplex	MDF	\$4,786,000	\$5,050,000	(\$238,000)
St. Margaret's Arena Smith & Fountain	MDF	\$1,557,000	\$1,560,000	(\$13,000)
Sackville Sports Stadium	MDF	\$3,260,000	\$3,240,000	(\$226,000)
Halifax Forum & Civic	Arena	\$3,559,000	\$3,601,000	(\$213,000)

#### Table 7b: Actual results 2010/2011

\*deficit carried over from previous year

#### Regular Season October 1 – March 31

The following quote from Catherine Oliver's 2011 Long Term Arena Strategy Background Report (Appendix C), summarizes important regular season facts:

"Fewer operating hours are defined as prime time in 2011 as compared with 2007 or 2001. In 2011 prime time hours were 48 hours per week while in 2007 they totalled 57 hours, and in 2001, 67 hours. The percentage of prime time use has declined from 100% to 99% since 2007. There are currently 15 hours of unused prime time among the 20 facilities analyzed. The percentage of fringe time use has declined between 2007 and 2011 from 75% to 60%. There are currently 332 hours of unused fringe time available among the 20 facilities analyzed. If demand remains unchanged, there could be at least 39 hours of excess prime time ice in the 2011-2012 ice season with 26 ice surfaces in operation. Lower utilization levels coupled with fewer hours defined as prime time reduces the amount of revenue generated by arenas.

This compromises operating efficiency and increases net operating costs to owners. There is an unmet demand for learn to skate lessons which could grow as a result of increased interest in skating generated by the Emera Oval.

Overall ice utilization in prime and fringe periods dropped from 89% in 2007 to 82% in 2011. Prime time ice utilization dropped from 100% in 2007 to 99% in 2011 with 15 hours (or more) of prime time ice unused per week. Demand/use levels for Fringe hours can be regarded as giving an indication of overall demand levels for ice time and of demand levels in specific areas. In 2011, 60% of fringe hours were in use while in 2007, 75% of fringe hours were used." See Table 8a.

#### Table 8a: Utilization of Capacity

	2011	2007
# Of Ice Sheets	20	15
Prime Time (Mon-Fri 6:00 pm-10:00 pm) (Sat & Sun 8:00 am-10:00 pm)	99%	100%
Fringe Total	60%	75%
Early Morning (6:00 am-8:00 am)	39%	61%
Late Afternoon (4:00 pm-6:00 pm)	91%	99%
Late Evening (10:00 pm-12:00 am)	59%	74%

"In 2011 Fringe use was highest at Dartmouth Sportsplex at 93% and Cole Harbour at 90% while Fringe hour use at the BMO Centre was lowest at 26% and second lowest at the Rocky Lake Dome at 47%. In 2007, Dartmouth Sportsplex Fringe utilization was 91% and Cole Harbour was 82%. The lowest Fringe utilization recorded in 2007 was 53% at the Fountain sheet at St. Margaret's Centre. In 2011, Fountain was 71%." See Table 8b.

#### Table 8b: Fringe Utilization

Highest 2011	2011	2007
Dartmouth Sportsplex	93%	91%
Cole Harbour	90%	82%
Lowest 2011		
BMO Centre	26%	n/a
Rocky Lake Dome	47%	n/a
Lowest 2007		
St. Margaret's Centre	71%	53%

The following Tables 9 and 10 are included to illustrate the level of individual planning at each facility, and the opportunity for a more consolidated approach to scheduling the municipal assets. A consolidated approach would increase the percentage of overall usage at facilities by consolidating in areas of lower usage, and focussing marketing to the groups who utilize these seasons (non-traditional users) for better overall utilization of the facilities and equipment.

# Table 9a: Spring and Regular Winter: Prime and Non-Prime DefinitionsSpring: April 1 to June 30 / Regular Winter: October 1 to March 31

Prime and Non-Prime			
Spring & Winter			
Prime Hours	48 hrs./wk.	M-F 6:00 pm – 10:00 pm	20 hrs. (4 hrs./day x 5 days)
		Sat 8:00 am – 10:00 pm	14 hrs.
		Sun 8:00 am – 10:00 pm	14 hrs.
Non-Prime Hours	64 hrs./wk.	M-F 8:00 am – 6:00 pm	50 hrs. (10 hrs./day x 5 days)
		M-F 10:00 pm – 12:00 am	10 hrs. (2 hrs./day x 5 days)
		Sat, Sun 8:00 am – 10:00 pm	4 hrs. (2 hrs./day x 2 days)
Total Available	112 hrs./wk.	per Arena	

#### Table 9b: Total Spring Hours Rented 2012 (total Municipal inventory)

	Total Capacity Available	Total Weekly Rented		Total Capacity Available	Total Weekly Rented
WK. 1	1456 hrs.	853.50	WK. 8	1456 hrs.	736.75
WK. 2	1456 hrs.	761.75	WK. 9	1456 hrs.	344.75
WK. 3	1456 hrs.	694.50	WK. 10	896 hrs.	281.75
WK. 4	1456 hrs.	740.50	WK. 11	896 hrs.	210.25
WK. 5	1456 hrs.	717.50	WK. 12	896 hrs.	212.75
WK. 6	1456 hrs.	622.00	WK. 13	896 hrs.	183.25
WK. 7	1456 hrs.	646.25			
<b>Total Hours Rented</b>					6777.50

#### Breakdown of data for Table 9b:

- Subtotal Spring hours available (**13 surfaces for 9 wks.** x 112 possible hrs. per week): 13,104 hours
- Subtotal Spring hours available (8 surfaces for 4 wks. x 112 possible hrs. per week): 3,584 hours
- Total Spring hours available: 16,688
- Total Spring hours used: 6,777.5 hours
- Percentage of Total Spring used: 41%

Spring utilization is highest as reported, at Sackville Sports Stadium with an average of 77 hrs./wk. over 9 weeks, Centennial Arena with an average of 67 hrs./wk. over 13 weeks and Civic Arena with an average of 67 hrs./wk. over 9 weeks.

Spring utilization is lowest as reported, at BMO Centre with an average of 27 hrs./wk. over 13 weeks, Dartmouth Sportsplex with an average of 28 hrs./wk. over 13 weeks, and St. Margaret's Centre Fountain Arena with an average of 39 hrs./wk. over 13 weeks.

Prime and Non-Prime			
Summer			
Prime Hours	84 hrs./week	M-F 8:00 am - 10:00 pm	60 hrs. (12 hrs./day x 5 days)
		Sat 8:00 am - 8:00 pm	12 hrs.
		Sun 8:00 am - 8:00 pm	12 hrs.
Non-Prime Hours	28 hrs./week	M-F 6:00 am -8:00 am	10 hrs. (2 hrs./day x 5 days)
		M-F 10:00 pm - 12:00 am	10 hrs. (2 hrs./day x 5 days)
Total Available	112 hrs./week	Sat, Sun 8:00 pm - 12:00 am	8 hrs. (4 hrs./day x 2 days)
	per Arena		

#### Table 10a: Summer Prime and Non-Prime Definitions Summer: July 1 – August 31

#### Table 10b: Total Summer Hours Rented 2012 (total municipal inventory)

	Total Capacity	Total Weekly		Total Capacity	Total Weekly
WK. 1	1232 hrs.	432.5	WK. 6	1232 hrs.	652.5
WK. 2	1232 hrs.	468.0	WK. 7	1232 hrs.	669.5
WK. 3	1232 hrs.	554.5	WK. 8	1232 hrs.	760.5
WK. 4	1232 hrs.	566.5	WK. 9	1232 hrs.	578.0
WK. 5	1232 hrs.	561.5			
TOTAL					5244.0

#### Breakdown of data for Table 10b:

- Total Summer hours available (**11 surfaces for 9 weeks**): 11,088 hours
- Total Summer hours used: 5244 hours
- Percentage of Total Summer Prime and Non-Prime utilized: 47%

Summer utilization is highest as reported, at Sackville Sports Stadium with an average of 84 hrs./wk. over 9 weeks, at Cole Harbour Place with an average 83 hrs./wk. over 9 weeks, and Centennial Arena with an average of 66 hrs./wk. over 9 weeks.

Summer utilization is lowest as reported, at BMO Centre with an average of 34 hrs./wk. over 9 weeks, Dartmouth Sportsplex with an average of 41 hrs./wk. over 9 weeks, and Civic Arena with an average of 43 hrs./wk. over 9 weeks.

The ability to operate arenas at a sufficient cost recovery level is related directly to the ability to rent non-prime, and off season (Spring, Summer, September) inventory. These factors are critical. It is clear in the analysis that prime time utilization continues to be high (Table 8a) while the non-prime usage has dropped significantly since the last analysis in 2007. See Tables 8b, 9b and 10b.

The data in this section indicates that there is sufficient ice capacity and opportunity for improved, more efficient scheduling of these assets, which will result in a higher level of performance in this facility category, without compromising service delivery to citizens and sport user groups.

#### 2.3 User Groups – Mandate for Service Delivery

#### **Children and Youth**

The Recreation Blueprint is the guiding document for service delivery for HRM's Community and Recreation Services (CRS), and has a focus on ensuring fair and equitable access to participation activities for children and youth. Ice and non-ice activities such as the minor sport activities listed in Table 11: Minor Sport Arena Users are relevant to the CRS document. However, the document does not provide commentary on the appropriateness of providing market driven skill development for children and youth in municipal facilities. Commentary related to adult participation identifies a role in areas "of high need, where CRS is the sole service provider," or with consideration of a specific level of cost recovery. Market driven skill development programs for children and youth, provided by the private sector, have developed regardless of municipal direction, and remain corner stones of the arena landscape. They are popular with citizens, and they generate revenues for the facilities. These types of activities take place in all arena facilities in the municipality, to some degree. HRM has 14 key user groups for ice and non-ice usage of arena facilities. They are:

#### Table 11: Minor Sport Arena Users

Minor Hockey	Recreational Drop In - Shinny	
Minor Ringette	Public Skating	
Figure Skate Clubs Nova Scotia School Athletics Federation		
Sledge Hockey Major Minor And Junior Competitive H		
Short Track Speed Skating Facility Specific Skill Development		
Recreational Men's Hockey	Private Sector Market-Driven Skill Development	
Recreational Women's Hockey	Lacrosse	

Minor sport groups are organized through Provincial Sport Organizations (PSO's) and are members of the provincial Sport Nova Scotia umbrella organization. Participation numbers for those groups are:

- Minor Hockey 6304 registered participants
- Minor Ringette 980 registered participants
- Figure Skate Clubs 1416 registered participants

Short Track Speed Skating experienced a heightened awareness and interest as a result of the recent Canada Winter Games held in HRM, but has not experienced a significant increase in registered participants. Registration is estimated to be fewer than 100. Short Track Speed Skating had 7 hours of ice time in the past regular season.

Lacrosse is a structured non-ice facility user that is represented by both a Provincial Sport Organization and a National Sport Organization. This sport operates year-round with some activity in the Winter months in gymnasiums, with peak seasons in June and September taking place in arenas. The sport currently operates in 8 locations and experiences significant frustration at a lack of ability to gain access in many of the municipal facilities. Currently there are 13 Lacrosse Leagues or Programs, utilizing 1541 non-ice hours per year.

Metro Minor Lacrosse League	St. Margaret's Storm Club
East Coast Jr. Lacrosse League	Sackville Wolves Club
Senior Mens Lacrosse League	Bedford Rock Club
Masters Lacrosse League	Dartmouth Bandits Club
Mini Tyke Lacrosse	Eastern Shore Breakers
Halifax Northwest Rebels Club	Lacrosse NS Provincial Teams
Halifax Southwest Hurricanes Club	

#### Table 12: HRM Lacrosse Leagues and Programs

There are other less structured non-ice users of arenas as well. These include Indoor Tennis, Ball Hockey, Roller Derby, and Ultimate Frisbee.

#### **Current Access to Ice**

Current access for minor sport ice participants is noted below, per participant, at 3.5 minutes to 15.6 minutes per week during regular season. See Table 13. The Table is an overview of access from a per capita perspective. Participation numbers change slightly each year. Minor hockey, at an average of 12 minutes per participant, receives a higher percentage of access than ringette or figure skating – both at an average of 7 minutes per participant.





#### Trends

Data charts in the LTAS Background Report, Catherine Oliver 2001, pg. 10 (Appendix C) indicate that "Minor hockey trends over several years show TASA on a steady rise over 10 years, and Dartmouth reaching a peak in 2005/06, and steadily declining since then.

Overall, Minor Hockey has seen a decline of 2% in 2010/11 over 2009/10. Hockey Nova Scotia lowered the start age in 2011/12 to four years of age in order to allow for additional participation at the younger age group. It is interesting also to note that HRM Minor Hockey associations lag behind the rest of the province in terms of female participation. The provincial rate as a whole is currently 15.9% while for HRM it is 12%. With HRM removed, the provincial participation rate is 18%. Part of the reason for the

lower rate may be Ringette, which is very active and growing in HRM, and has increased from 717 participants in 2005/06 to 1009 in 2010/11 (a 41% increase)."

#### **Current Access to Ice**

Ice usage data was collected from each minor sport association and included the numbers of registered participants, and the total numbers of hours rented overall by association. It did not include ages and skill levels of participants, and did not include tracking hours rented by parents or coaches outside of the ice allocations managed by each association. Each sport has different requirements for various skill levels. The amount of time on ice needed for more advanced hockey, ringette, speed or figure skating is greater than the amount of time on ice needed for beginners. This data does not differentiate between those differences and is a snap shot of the per capita allocation. The recommended Access Plan in this report, incudes a detailed formula that does consider skill levels, ages and Long Term Athlete Development as components of the formula.

2011/2012	# of Participants	# of Ice Hours	Minutes Per Participant
Eastern Shore Hockey	357	37	10.4
Cole Harbour Hockey	697	106	15.2
Dartmouth Whalers	911	142	15.6
Bedford Minor Hockey	962	129	13.5
TASA Minor Hockey	995	109.5	11.0
Halifax Hawkes Hockey	979	108	11.0
Chebucto Minor Hockey	564	52.5	9.3
Sackville Minor Hockey	839	97	11.5
Total	5,465	684	Average 12.0
Eastern Shore Ringette	31	2	6.4
Cole Harbour Ringette	179	14	7.8
Dartmouth Ringette	124	12	9.6
Sackville Ringette	142	10	7.0
Bedford Ringette	183	15	8.1
HSM Ringette	159	14	8.8
Chebucto Ringette	162	11	6.7
Total	980	78	Average 7.8
Shearwater Skate Club	132	20	15.0
Dartmouth Skate Club	274	21	7.0
Sackville Skate Club	299	16.5	5.0
Bedford Skate Club	223	14.5	6.0
St. Margaret's Skate Club	280	18	6.0
Halifax Skate Club	191	9	5.0
Dalhousie Skate Club	17	6	3.5
Total	1,416	105	Average 7.4
Speed Skating	Unconfirmed		

#### Table 13: Access in minutes per Participant

Although there is a discrepancy in numbers of hours allocated to each minor sport category, it should be noted that in some cases, groups are unable to utilize extra hours when they are offered either because they are not needed, or because the hours offered are not preferred times.

The data above shows a discrepancy not only between minor sport associations, but also within each group as well. This is illustrated by the following Chart B regarding the current status of minutes per participant for each of the regions Minor Hockey Associations:





#### Adult Usage

Current adult recreational hockey usage of ice is complimentary to the usage by children and youth in minor sport, and should be supported and encouraged.

Based on the percentage of ice usage in regular season and non-traditional ice season usage at municipal facilities (Tables 8a to 10b), each facility appears to be meeting the needs of both minor sport and the adult recreational groups, at this time. The best and most cost effective scheduling principle for facilities is to encourage adult users to participate as close to the non-prime hours as possible in order to afford as much flexibility, access, usage as possible by youth. It is recommended that the ongoing management of this balance be overseen by the proposed Centralized Scheduling Process.

The aging demographic in the region and projected population increases indicate that there is opportunity for further support and development of adult recreational activities. This will provide healthy alternatives for aging adults, as well as utilize an important market group for better overall utilization of municipal assets.

Projected population data for the region (Catherine Oliver - Arena Capacity Update Jan. 2009) indicates that "the largest potential growth areas for the next fifteen to twenty years is Bedford, specifically Kearney Lake North, Bedford South and Bedford West. The nearby area of Clayton Park is also expected to grow significantly. Total projected increase in population in this area is in the order of 31,000 in

diversified mix use development. The next largest potential growth would be in Dartmouth at Russell Lake and Morris Lake with a total of approximately 12,000."

	Low	Medium	High	Actual
	Projection	Projection	Projection	
1996 (Base)	342,966	342,966	342,966	342,966
2001	353,886	356,452	358,256	359,183
2006	361,825	367,150	370,893	372,858
2011	367,266	375,497	381,297	
2016	370,934	382,170	380,106	
2021	373,035	387,371	397,483	

Table 14:	<b>HRM</b> Pro	iected Po	pulation	1996 – 2021
		jected i o	Janacion	TOPO FOFT

\* Source: Base Source Statistics Canada Census of Canada 1996, 2001, 2006

Projections: Calculated by Canada Mortgage and Housing Corporations Potential Housing Demand. Catherine Oliver – Arena Capacity Update Jan. 2009.

There are ongoing concerns, however, related to recreational public skating times at most facilities. Comments by Steering Committee Members indicate that this is an ongoing issue, and a review of facility schedules indicate that there is very little recreational public skating available in the region during prime time. It is recognized that there are a number of hours currently not being utilized at arenas. The Steering Committee sees this as an opportunity, and suggests the ongoing management of this opportunity should be carried out through the recommendation for Centralized Scheduling.

LTAS Background Report, Catherine Oliver 2001, indicates that "the additional interest in skating generated by the Emera Oval can be expected to create more demand for Learn to Skate programs in HRM, and that those programs will continue to grow.

		Registrations	Waitlist
HRM Programs	Cole Harbour Place	895	157
	Halifax Forum	1,040	441
	Spryfield Arena	257	102
Skate Club Programs	Bedford	163	
	Dartmouth	168	
	Halifax	176	
	Sackville	302	
	Shearwater	60	
	St. Margaret's	240	
Total		3301	700

#### Table 15: Learn to Skate 2010/2011

There is evidence to support facility provision for access by children and youth during the traditional season for each sport. There is less if any evidence available to support access for adults or for private sector skill development, or for "off traditional" ice seasons. However, market desire, and a heightened understanding of the value of physical activity for all ages, has established a pattern that currently includes these activities on a regular basis in all municipal arenas in all seasons. As demographics in the area continue to change, it will become increasingly important to support, promote and grow adult usage, as a balanced and strategic component of effective facility utilization.

#### 2.4 Demographic Analysis and Population Forecasts by Minor Hockey District/School District

"Census population estimates do not provide data by minor hockey area or age group and so school enrolments provided the only available information about the current size of one of the key market groups for ice activities. Enrolment data from 2006 to 2010 was available on the Halifax Regional School Board website by school. An analysis of that data revealed that the total number of children in HRM Schools decreased by 3,191 or 5.8% between 2006 and 2010. It was not possible to relate the school data to Minor Hockey boundaries. The data collected from the HRSB website was organized into school families and is presented in Table 16.

Based on school families, the area with the greatest net decrease was the Cole Harbour High family of schools with 669 fewer children registered in 2010 as compared with 2006. The Charles P. Allen family of schools had the greatest net increase with 357 more children registered.

	2010	2006		% Change
CP Allen	5,206	4,849	357	7.4%
Sir John A MacDonald	3,988	3,933	55	1.4%
Lockview	3,764	3,754	10	0.3%
Halifax West	5,804	5,856	(52)	-0.9%
Citadel	5,029	5,142	(113)	-2.2%
Millwood	2,445	2,559	(114)	-4.5%
Prince Andrew	3,954	4,297	(343)	-8.0%
Dartmouth High	3,733	4,117	(384)	-9.3%
JL IIsley	3,451	3,860	(409)	-10.6%
Eastern Shore	2,457	2,792	(335)	-12.0%
Musquodoboit Rural	667	765	(98)	-12.8%
Auburn Drive	3,675	4,221	(546)	-12.9%
Sackville	3,091	3,557	(466)	-13.1%
Cole Harbour	3,783	4,452	(669)	-15.0%
Duncan MacMillan	395	479	(84)	-17.5%
Totals	51,442	54,633	(3,191)	-5.8%

#### Table 16: School Enrolments

**Note:** School enrolments in the growth areas of Tantallon/Hammonds Plains/Bedford peaked in 2009 and recorded a modest decline of 55 students in 2010. This information supports the trends discussed in the 2009 C. Oliver Arena Capacity Update Report (Appendix B). In general, the Dartmouth/Cole Harbour/ Eastern Shore areas are continuing a significant decline in terms of school age children while the Bedford/ Tantallon areas have continued to increase. Halifax/Sackville are declining, but at a slower rate. Unless

significant immigration occurs, it can be expected that the number of children in HRM will continue to decline as the overall aging of the population continues." CO March 11

Conclusions related to the demographic overview support the notion that there is sufficient existing inventory in the municipality to meet the current and projected needs of the facility youth users.

#### 2.6 Current State of Arenas

#### Where are we today?

- 20 of the total 26 ice sheets in HRM are owned by the Municipality
- 11 of the 20 municipal ice sheets are 30+ years old 7 of these are well over 40 years old
- 5 of the 26 ice sheets opened since 2009, one in 2009 in Bedford (The Rocky Lake Dome), and four in 2010 at the BMO Centre.

Recapitalization assessments have been carried out through Building Assessment studies at 12 of the 14 municipally owned facilities focused in this analysis. Two municipally owned ice sheets not included in the Building Assessment analysis are:

- Metro Centre recapitalization planning for this facility is carried out annually through the Partner Operator, Trade Centre Limited
- BMO Centre as the newest facility (opened Nov. 2010); there is a thorough recapitalization/ annual lifecycle upgrade fund in place generated by ice rental revenues at the facility. A building assessment was not carried out

Major recapitalization for the 14 municipally owned facilities (which house 20 sheets of ice), that are the focus of this analysis is projected to be just fewer than forty (40) million dollars, at \$2.0M - \$5.5M range per facility. The recapitalization requirements have been determined based on a need to increase the reliability or safety of each facility, not to enable any functional, operational, management, environmental, service delivery, or facility upgrades that would enhance the ability of the municipality to provide a more efficient or effective service to its citizens.

This report makes recommendations for the replacement, consolidation, and recapitalization of facilities in order to better meet the overall needs of citizens while operating a more efficient level of service provision. This report does not recommend additional inventory for the Region.

#### 2.6.1 Recapitalization Summary

Building Condition and Energy Assessments for the Arenas and Multi-District Facilities (except the Halifax Metro Centre & BMO Centre) was undertaken by Planning and Infrastructure – Facility Development over this past year. The successful Proponent was Capital Management Engineering Limited (CMEL) of Halifax and the resulting data has been utilized in order to inform the LTAS Project Report, and the development of the subsequent recommendations.

The objective of each assessment (Appendix A) was to provide HRM with: a description of the facility as a whole and for each building component on a component and elemental basis (site work, structure, roof, building exterior, building interior, electrical and mechanical); descriptive information including age, assessment of performance and remaining life; and prioritized recommendations for replacements and/or upgrades.

The assessment and audit estimated the scope, cost and scheduling of improvements for the facility to continue to be used in conformance to all applicable codes. The costs were prioritized as Short Term (1 to 5 years), Long Term (6 to 10 years) and Extended Term (11 to 25 years).

The scope of the Building Condition Assessments and Energy Audits included:

- Facility condition assessment in accordance with ASTM Standard E2018-08, including the review of existing drawings and report data, interviews with operations and maintenance personnel, site assessment, photography, analysis and reporting;
- Identification of deferred maintenance and deficiencies, and classification on a priority basis, consistent with the Capital Planning Guide produced by Efficiency NB, August 2009;
- Recommendations for repairs or upgrades, including modifications or improvements that may be required to meet municipal, provincial and federal building codes, and other upgrades that may be recommended to improve health, safety and operating efficiency;
- Cost estimates for repairs, upgrades and anticipated future repairs, laid out over a 25-year period;
- Technical report preparation, including narrative description of components, their assessment and recommendations, and presentation of deferred maintenance, priorities and projections in formats usable to the client;
- The evaluation of the building for code compliance and accessibility;
- In consultation with HRM's Fire & Emergency Services, the evaluation of all fire and life safety systems for code compliance; and
- The evaluation of potential energy efficiencies in accordance with the Capital Planning Guide's Energy Efficiency Capital Planning Tool (EECP-T)

The data forthcoming was extensive, and will be made available in detail to those who would like to peruse the full scope of the building assessment reports. It is currently not available electronically, but can be made available in hard copy. Executive Summaries for each facility is included in Appendix A of this report.

The assessments were carried out in 9 categories of lifecycle readiness, and have resulted in a sound understanding of the state of repair of the aging municipal arenas.

The nine categories of assessment (Table 18) include:

Category 1	Site Work - soft landscaping: non-structural fills, topsoil, sod, trees and shrubs & hard landscaping: structural fills, asphalt, concrete curbs, sidewalks, exterior lighting, signage
Category 2	Architecture, Exterior - elements of the building to enclose, protect from the elements
	including windows, walls, siding
Category 3	Roof
Category 4	Structure - foundations, load bearing walls, floor and framing systems
Category 5	Architecture, Interior - interior load bearing walls, ceilings, flooring, elevators, stairs, escalators, manufactured specialties & accessories
Category 6	Mechanical - systems related to heating, ventilation, air conditioning, plumbing, waste disposal, sprinkler
Category 7	Electrical - systems that receive power: lighting, security, data, cctv, wiring
Category 8	Life Safety - fire alarm panels, fire detection systems, emergency & exit lighting,
	emergency generators
Category 9	Specialty Systems - systems or equipment not directly building related, unique to the
	function/use of the building

		-	-									
Recap In	HFC	SMC	СНР	DSP	Spry	Eastern	Dev.	SSS	LeBru	Gray	Bowle	Cent
Thousands						Shore			n		S	
Total # of Ice	2	2	2	1	1	1	1	1	1	1	1	1
surfaces												
Category 1	305	513	630	889	499	429	16	212	208	121	83	169
Category 2	1,647	120	564	182	633	437	431	92	191	315	180	149
Category 3	913	1,187	1,008	934	223	838	209	442	386	250	252	267
Category 4	0	0	0	0	0	0	503	0	0	0	0	0
Category 5	733	892	225	35	252	211	112	192	209	99	96	222
Category 6	447	317	133	132	136	120	72	126	209	48	62	52
Category 7	79	107	200	185	308	132	133	112	267	154	149	61
Category 8	94	115	166	132	32	20	23	122	119	34	89	25
Category 9	1,148	1,330	1,517	1,373	1,526	734	1,605	1,495	971	936	1,033	941
Totals	\$5,366	\$4,581	\$4,443	\$3,862	\$3,609	\$2,921	\$3,104	\$2,793	\$2,560	\$1,957	\$1,944	\$1,886

#### Table 17: Recapitalization Requirements by Category (rounded in thousands)

#### Snap Shot Comments are:

- Generally speaking all facilities require extensive recapitalization
- Average cost per facility for lifecycle recapitalization at this time is \$3.3M
- Aging Multi-District Facilities show recap costs for arena components only and require significant recapitalization work to their roofing systems
- With only 2 exceptions, Mechanical recapitalization is the most pressing issue for facilities

#### High Risk Arena Facilities

**Halifax Forum Complex:** As an arena facility that is a registered historic venue, the Halifax Forum has seen 85+ years of participation in a number of sports, and is well established as an icon in Halifax for sport and community gathering. The facility is a now identified as high risk as a result of recapitalization requirements in the refrigeration and mechanical systems, the brick shell is in need of significant repair, as well as a lack of general accessibility, i.e. Categories 2, 3, 5, 6, 9. Neither of the fields of play (ice surfaces) meets acceptable size standards. Both are under the recognized NHL size of 200' x 85'.

The cost of proposed recapitalization requirements of all these items combined is \$5.4M, and does not address facility shortfalls in terms of operational efficiencies, ease of access and field of play.

**Devonshire Arena:** Described as a "high risk to fail" for several years, this facility continues to be of concern for long term usage. The mechanical systems at this facility, including the refrigeration plant and brine pipe system are at risk of failure. The structural integrity of the facility is identified in the building assessment as a concern as well. However, additional limitations at the facility make it unpopular for most minor sport or adult usage, with the exceptions of recreational adult play, and some minor sport entry level play. This is a facility that would be difficult to improve within a recapitalization plan.

**Spryfield Lions Arena**: Although there has been a significant attempt over the past several years to recapitalize this facility, there continues to be many issues outstanding that place this in the "high risk" category. The recapitalization total for this facility is \$3.6M. Consideration was given to consolidation at the existing Captain William Spry Centre. Unfortunately there is not sufficient footprint at that site to easily accommodate the addition of an arena. The Steering Committee feels that this facility is an important part of the community fabric and strongly recommends that all avenues be explored to reconstruct this facility in the community – preferably as a component of the Captain William Spry Centre.

#### **Multi District Facilities**

The Multi-District Facilities (MDF) are identified as important service delivery hubs in the region (CFMP 2008) and provide various sport, recreation, and community gathering multi-use alternatives for citizens. They are strategically located, along with the new Canada Games Centre facility, in central locations. These central locations provide citizens with access to one or more of this MDF facility type within a 20-30 minute maximum drive-time. (This drive time is recognized to be longer for rural residents.) Recapitalization of these facilities is strongly supported as a result of the long term fiscal and service delivery benefit to citizens.

#### Table 18: Multi-District Facilities - Medium Risk

Name	Arena Recapitalization Requirement
St. Margaret's Centre	\$4.6M
Cole Harbour Place	\$4.4M
Dartmouth Sportsplex	\$3.9M
Sackville Sports Stadium	\$2.8M
Eastern Shore Centre	\$2.9M

In summary, the Building Assessment/Audit process provided technical data to better understand the cost associated with maintaining the facilities at the current state of readiness. Those summarized details are included in Tables 17, 18, and 19.

#### 2.6.2 Recapitalization Financial Impact by Year

Table 19: Recapitalization Requirements by Year (rounded in thousands)	
--	--

Recap In Thousands	HFC	SMC	СНР	DSP	Spry	Eastern Shore	Dev.	SSS	LeBrun	Gray	Bowles	Cent	Total
1-5 yr. total	2,300	1,250	1,500	1,400	2,000	1,300	2,000	850	1,300	800	650	700	\$16M
6-10 yr. total	1,000	300	550	550	300	400	150	500	300	300	300	225	\$5.0M
11-15 yr. total	800	1,600	775	300	100	400	300	800	350	400	400	200	\$6.5M
16-20 yr. total	1,000	700	750	650	800	400	150	500	300	300	200	375	\$6.2M
21-25 yr. total	600	1,200	975	1,200	800	600	700	500	450	350	500	525	\$8.5M

#### 2.7 Review of Canada Games Legacy Facilities

Considerable planning took place over a period of 18 - 24 months related to the Legacy opportunities and proposed long term benefits of the Canada Winter Games hosted by Halifax Regional Municipality in February of 2011. Funding was allocated to the development (expansion of an existing NHL arena) of an Olympic sized (200' x 100') arena at the St. Margaret's Centre. This arena would host the Short Track speed competitions for the Games, and would remain as a venue for further development of that emerging sport in our Region.

In addition, the overwhelming interest and participation at the Canada Games Long Track Oval on the Halifax Commons (temporarily constructed for the 2011 Winter Games event) resulted in a decision by Regional Council, following the Games, to construct a permanent Facility on that site. The facility has since been named the Emera Oval in recognition of a corporate sponsorship of the venue, and citizens continue to utilize the long-track field of play for recreational purposes at no charge, and competitive sport purposes within a fee structure. The operational costs of the facility are the ongoing responsibility of the Municipality.

#### 2.7.1 St. Margaret's Centre Olympic Ice

Over \$1M was invested in the expansion of the Smith Arena at the St. Margaret's Centre in order to host the 2011 Canada Winter Games Short Track Speed Skate events. This enhanced facility and games destination was envisioned as a significant legacy benefit in order to encourage and grow more interest and more athletes in this sport.

However, only 7.5 hours of ice time was allocated this past year for the short track club to utilize at the facility. This was available at full market cost to the group, and consistent with the challenges of emerging and new sports, the club experienced great difficulty in meeting its financial responsibilities. Final validation is required, but it appears as if the outcomes did not meet the expectations. In order to support and encourage new and emerging activities, there may in many cases be a requirement for financial support, in addition to available facilities.

#### 2.7.2 Emera Oval

Community Recreation Services staff responsible for the Emera Oval operations, indicate that the estimated participation total for 2010/11 was approximately 100,000 skaters, and that for the 2011/12 season, there were approximately 130,000 skaters. These numbers were estimated by staffs that were designated as "on-site event counters".

Based on the above number of participants, staff has stated for the record, "It was an extremely successful season for the Oval! We surpassed expectations. We had hoped to achieve the previous year of 100,000 and we went well above and beyond. There was great feedback from all users of the oval."

Net Operational cost to the Municipality:	2010/2011	\$718,924
	2011/2012	\$573,281

A suggestion by the Steering Committee is the addition of a refrigerated arena for recreational sport, inside the unused portion of the existing Emera Oval. This is a great location, and is a successful gathering spot for recreational public skating. The addition of a refrigerated arena on the site would provide a recreational sport perspective that would complement the existing infrastructure already on the site.

#### 2.7.3 Consideration for Additional Outdoor Community Refrigerated Ice

Prior to the decision to retain the Emera Oval on the Halifax Commons, the LTAS Steering Committee was asked by Regional Council to consider legacy options for the 6 "refrigeration chillers" utilized to make temporary refrigerated ice for the Canada Games event on the Commons. The thought was that they would be redeployed in some form of community configuration(s) elsewhere.

The Committee participated in discussion regarding potential criteria and locations for sites, and indicated a preference for a location. Subsequent to this discussion, the decision was made to retain the long-track permanently on the Commons.

The Steering Committee recommends that a long term investment be made into refrigerated ice opportunities for other areas in the Municipality in order to enhance citizen participation, and reduce some barriers such as transportation for some citizens. This investment would include both capital and operating funds in order to develop small refrigerated ice surfaces throughout the municipality – and annually, a decision would be made through a grant/lottery, to situate a facility in a local community. This program would require more refinement in order to proceed, but supports the guiding principle of the Steering Committee to enhance participation by citizens through accessible facilities. This is an additional way to further accommodate public recreational skating.

There was no evidence found to indicate that outdoor refrigerated ice would impact on the need for indoor arena inventory.

### **SECTION 3: RECOMMENDATIONS**

The Steering Committee has attempted with the assistance of staff, to develop "evidence based recommendations" for consideration by Regional Council. The Steering Committee appreciates the sensitive nature of facility discussions, and attempts to proceed with a logical and practical approach to the future.

#### 3.1 Facility Development Standards

In an effort to ensure that citizens have a positive experience regardless of where the facility is located or how old the facility is, several key aspects of upgrades should be considered. In facility planning to date in HRM, users have indicated that their primary need is to have access to facilities at a reasonable fee. Users are less concerned about the support amenities in their facilities in almost all cases. However, citizens generally indicate in every conversation that they expect to have certain comforts considered when planning for new facilities takes place. In many cases, citizens develop a sense of pride for their facilities that is tied deeply to their loyalty and pride for their communities overall.

It is for this reason that the Municipality should continue to consider the guiding principles for facility development developed in both the IRFMP and the CFMP as outlined in Section 2.1 of this report. Considerations for positive locational and architectural applications are often possible without significant increases to the cost of construction of a new facility.

Following are recommended "functional considerations" for inclusion in new arena facility development:

Multi-Use Arena Facilities should be designed with capacity to be multi-use and cross functional in order to maximize revenue generation and create an accessible and usable space for year-round citizen benefit in sport, recreation and leisure pursuits.

- 1. Complex/hub concept Stand-alone facilities are not as cost effective to build or to operate, and are not recommended. Whenever possible, facilities should be built as part of a larger complex or central hub of like facilities. (synergy, excitement)
- 2. Site selection must be considered to ensure they are "non-competing" with existing municipal facilities
- 3. Multi-purpose room for small tournaments
- 4. Minimal seating (150-400)
- 5. Dressing rooms should be a minimum of 14' x 23' square feet (BMO Centre)
- 6. Dressing rooms should accommodate gender usages
- 7. Showers in dressing rooms adjustable heat for water
- 8. Goose neck faucets in dressing rooms and public washrooms for water bottles
- 9. Dry land warm-up space (pre-game) can be multi-use with small room for tournaments
- 10. Facility development should be based on best practices guidelines and legislation to support persons with disabilities
- 11. Energy efficiency in building envelope (LEED Silver is corporate objective)

#### 3.2 Policy Development Recommendations

The overall goal in policy recommendations is enhanced participation of citizens in existing inventory through heightened utilization – get as many people to participate as possible. Following are Steering Committee recommendations developed in order to support the principle of enhanced participation:

1. **Centralized Scheduling:** The Steering Committee recommends that, in order to create a fairer, more equitable, and efficient use of municipal assets, there be a centralized scheduling procedure developed and implemented immediately. The centralized scheduling will be carried out in cooperation with existing facility schedulers and management groups, and will enhance the existing process.

It will be necessary to allocate staff and other resources to this task and so it is recommended that staff return to Regional Council with a proposed process and procedure in Fall of 2012 in order to allow for implementation in time for the Fall 2013 regular ice season. This timeline recognizes that requests for the Fall 2013 regular ice season will be forthcoming in May and June of 2013.

The implementation of this policy will allow for a strategic approach to utilization of ice, and will ensure that minor sport and adult sport groups, along with recreational citizen usage of ice will be treated consistently and appropriately from a facility usage perspective. Data presented in Tables 8, 9 and 10 illustrate complexities in the current system of multiple scheduling groups, and presents opportunities for a more effective and strategic approach to the utilization of the arenas. Centralized Scheduling will provide a single portal for user groups to access ice, and will allow, through a webbased approach, for efficient and fair access to available ice by user groups and citizens.

Aspects of a centralized process include:

- Web based system
- Consolidation of requests and scheduling of facilities for tournaments, off-prime usage, and "turned in" weekly hours
- One-stop requests to central office rather than requirement to make individual requests to several facilities and several management groups
- Faster more consistent response time to users
- Combined usage of staff resources and online resources for maximum efficiency
- The ability for all scheduling will be completed annually as per the "Access Policy" described in the BMO Centre document, reference recommendation 3.2
- Reduction of multi-policies and procedures currently present as a result of 10 management groups individually scheduling 14 municipal facilities. See Table 1.

This policy will require a heightened level of communication and cooperation between the municipality and its partner management groups, and will result in a more efficient provision of service to citizens.

2. Access Policy: Immediate implementation of the Community Access Plan throughout all arenas is recommended. The policy and procedure jointly developed in 2010 by Nustadia Recreation Incorporated and HRM Staff is a comprehensive document that takes into consideration Guiding Statements, Strategic Objectives, and Implementation Policies and Strategies.

Data and trends discussed in this document do not lead the Steering Committee to anticipate any immediate "material" changes to user groups, but will ensure that future access for ice time is supported by participation numbers, skill levels, and program goals. It will eventually assist in the increase of ice time for groups who currently receive a lower ratio of ice time to participant, and will guard against groups acquiring additional ice before those groups in greater need are offered available ice. This is true as well regarding gender specific sports such as ringette, figure skating, and women's hockey. It is also recognized that there may be factors in addition to the inability to acquire ice times, which limit the ability for groups to grow. These factors, such as price of ice, coaching, and field of play, should also be considered by groups in their ongoing consideration for growth.

The specifics of the Community Access Plan discuss:

<ul> <li>Vision Statement</li> <li>Mission Statement</li> <li>Value Statement</li> <li>Value Statement</li> <li>Financial Sustainability</li> <li>Environmental Sustainability</li> <li>Code of Behaviour</li> <li>User Satisfaction</li> <li>Transparency</li> </ul>

#### As well as:

Management Policies	<b>Operational Policies</b>	Programming Policies
Gender Equality Policy	Operational Best Practices	• Ice and Other Program Allocation Policy
Accessibility Policy	Risk Management Best Practices	<ul> <li>Market Competition Policy</li> </ul>
• Discrimination and Harassment Policy	<ul> <li>Fairness &amp; Equity</li> </ul>	<ul> <li>Special Programs</li> </ul>
<ul> <li>Conduct &amp; Disciplinary Procedures</li> </ul>	Inclusivity	<ul> <li>Regional and National Events Policy</li> </ul>
Policy	<ul> <li>Financial Sustainability</li> </ul>	
<ul> <li>Financial Objectives</li> </ul>	<ul> <li>Environmental Sustainability</li> </ul>	
	<ul> <li>Code of Behaviour</li> </ul>	
	<ul> <li>User Satisfaction</li> </ul>	
	Transparency	

The Steering Committee recommends that this policy be transitioned into the municipal facilities beginning in the Fall of 2012, in order to be prepared for full implementation for the ice season requests for the Summer Season 2013.

- 3. **Strategic Management:** As an additional benefit to the Municipality, the implementation of the centralized scheduling policy will result in the overall synchronization of operations, policies, systems in municipal arenas that will in turn enhance citizen access and usage.
- 4. Proposed Recapitalizations and Consolidation of Facilities: It is recommended that recapitalization and consolidation projects be overseen directly by HRM Planning and Infrastructure Facility Development Staff. This will ensure that the allocation of municipal funds will be carried out through a strategic approach to upgrades, lifecycle planning, and consistency of oversight necessary for a more accountable and broad scope approach to facility development and management.
- 5. Cost Recovery: The Steering Committee goal is to create recommendations in order to increase utilization of the arenas. Pricing is a key component of utilization. Centralized scheduling is expected to provide a better utilization rate of facilities, and as such, should also have a positive effect on cost recovery of arenas. As centralized scheduling is able to affect the market and utilization rates at facilities, it is anticipated that pricing could better reflect the overall needs of citizens and ultimately respond to the market accordingly. It is recommended at this time, that pricing be maintained at a status quo, rather than increasing cost of ice rentals as a result of incorporation of new consolidated facilities. The intent is to save on overall operational costs by utilizing economies of scale that are not currently available as a result of the current scheduling and management structure, and that there be a long term strategic alignment of operations overall.

Service provision of recreation and sport venues is not a business, and should be approached with a more accessible overall approach, rather than an environment of competition between facilities.

6. **Pricing Strategy:** Citizens will benefit from a consistent approach to ice rental costs - a harmonized approach would be beneficial to users, and would allow for a more consistent and equitable outcome for users. Currently, pricing is different for each facility, especially for adult users, and creates a highly competitive environment that is difficult to utilize and unreasonable for many users to understand. It is recommended that a harmonized approach be considered within the context of a

centralized scheduling model, and brought back to Regional Council for consideration after the initial implementation of the centralized scheduling model.

#### 3.3 Capital Development Recommendations

In an effort to ensure that this long term strategy represents the most logical opportunities for citizen, fiscal success and guiding principles of facility development, the principles of consolidation and recapitalization have been utilized to the highest degree possible.

1. **Recapitalization:** It is recommended that the following Multi-District Facilities receive recapitalization funding for the components as identified in the Building Assessment audits. They are important recreation and sport service delivery hubs in our region, and are necessary to the overall successful provision of ice services. They are:

Name of Facility	Building Assessment Total Funds Required
St. Margaret's Centre	\$4,581,000
Cole Harbour Place	\$4,434,000
Dartmouth Sportsplex	\$3,862,000
Eastern Shore Centre	\$2,793,000
Sackville Sports Stadium	\$2,921,000
Total	\$18,591,000

The other arenas, as ice only facilities, present opportunities for the refinement of an effective overall system for the provision of arena inventory long term, for the region as a whole.

2. **Consolidation of Facilities:** The consolidation and rebuilding of the aging "ice only" arenas allows for a more effective geographic distribution of ice, while at the same time aligns the facilities into a cost effective operational model, creating spaces for future that better meet the needs of sport user groups and citizens.

Rather than continued investment of significant funds into aging facilities that will not improve the overall performance of the facilities, these recommendations will allow for the investment of municipal funds to be effective in both the development of the facilities, and the development of an overall service delivery model that positions the municipality for effective and strategic service provision through location, type, size, and operational model. It reduces the number of buildings in the system from 14 to 10, allowing for better citizen service, and better owner asset management.

Arena Inventory is proposed as follows:

- 1. Existing 4 pad BMO Centre
- 2. Proposed Multi pad (3 or 4 pads)- Peninsula Halifax
- 3. Proposed Multi pad (3 or 4 pads) Dartmouth

Recapitalization of the following Multi District Facilities, Arenas and Halifax Metro Centre:

- 4. St. Margaret's Centre
- 5. Cole Harbour Place
- 6. Dartmouth Sportsplex
- 7. Eastern Shore Centre
- 8. Sackville Sports Stadium
- 9. Spryfield Arena
- 10. Centennial Arena

This consolidation recommendation is based on the principle that concurrent with the new consolidated facility opening, the retirement of existing facilities takes place as follows:

Peninsula Consolidation	•Multi Pad Arena - replacing: Forum, Civic, Devonshire and including a possible Partnership
Dartmouth Consolidation	<ul> <li>Multi Pad Arena - replacing Bowles, Gray, LeBrun and including a possible Partnership</li> </ul>
Respectful Sport Re-Use	•Spryfield Arena, Bowles Arena •Bedford LeBrun Arena, Gray Arena •Centennial Arena

It is recommended that the Peninsula Consolidation take place as soon as possible. The High Risk Facilities as listed in Section 2.6.1 of this report are all in the greater Peninsula area. That, coupled with the recent (possibly permanent) closure of the Dalhousie Arena and the ongoing desire of Saint Mary's University to rebuild their facility at some time in the near future, creates the perfect storm for significant service interruption on and around the Peninsula.

Opportunities for facility partnership related to the Peninsula Consolidation should be pursued at this time. A proactive approach at this time is recommended in order to meet the current and future needs of user groups of those facilities.

It is key to consider the development of the consolidated Forum site in order to ensure there is no or limited service interruption for arena users on the Peninsula. This is important in order to maintain the current service level of arena users to meet their program needs. If this is not possible, the Dartmouth Consolidation should proceed first.

The proposed Dartmouth Consolidation is equally significant to the overall long term service delivery of ice in the Region. The facilities related to the Dartmouth Consolidation are not categorized in this report as a high risk to fail at this time, and as such, fall after the requirements of the Peninsula arena facilities. Operating costs and scheduling of these arenas may improve as a result of a Centralized approach, but

overall efficiencies and age related issues will not. It is recommended that Life Safety recapitalization continue at these facilities until the Dartmouth Consolidation is approved by Regional Council.

While it is recognized that consolidation and retirement of aging facilities can be a difficult and often emotional task for municipalities, it is important to identify the long term benefits to citizens in terms capital investment and operational efficiencies for future. In addition, it is recognized that in cases where facilities have been managed on behalf of the municipality by volunteer boards, it is as a result of the commitment of these Boards to their Communities, that the facilities have performed so well for so long.

#### 3.4 Financial Strategy Recommendation

#### A) Recapitalization and Consolidation Recommendations:

Historically, capacity has existed in the approved capital budget to implement the recapitalization recommendations above, related to the 5 Multi-District Facilities (MDF) listed. If additional capacity is required it will be proposed to Regional Council in an upcoming report regarding the MDF Facilities.

It is recommended that development of the funding strategy for the Consolidation Recommendations on the Peninsula and in Dartmouth, include discussions for support with the Province and Federal Government, along with discussions with potential partners in order to create a funding formula for Council approval. If partnership funding is not forthcoming, it is recommended that Regional Council proceed regardless, in order to achieve the opportunities inherent with the recommendations.

#### 3.5 Implementation Recommendations and Timelines (Overview)

#### A) Facility Standards Recommendations

This report recommends that Facility Standards as outlined in 3.1 are included in the development of recapitalized and consolidated facilities, and that when projects of this nature are carried out; the planning is done within the overall context of the CFMP, user group and citizen consultation, and Regional Planning considerations.

#### B) Policy Development Recommendations

This report recommends that Policy recommendations as outlined in 3.2 are implemented as soon as possible, and that both the Community Access Plan and the Centralized Scheduling Policy are incorporated into the operational structures of ice service provision no later than Fall 2013.

#### C) Recapitalization and Consolidation Recommendations:

Recapitalization of the Multi-District Facilities and consolidation of aging ice arenas is recommended.

This report recommends the following approach:

- Recapitalization Phase: It is recommended that annual upgrades for the 5 listed Multi-District Facilities commence immediately in Fiscal 2012/13. This is recommended to take the form of a rotation annually of 1 or more facility per year, for a 12 to 15 year period as outlined in the Building Assessment model. This rotation should continue until all category components identified have received upgrades.
- 2. Consolidation Phase: It is recommended that the Peninsula Consolidation commence immediately, and that staff return to Regional Council in Fall 2012 with a preliminary design and funding plan for consideration. It is further recommended that a public consultation process be included in the project design in order to specifically address concerns, sensitivities, and opportunities relative to the Forum building. The Forum Building is registered with Historic status, and requires specific consideration as a result. As discussed in this report, the Peninsula consolidation must proceed without service disruption to user groups. If this is not possible, the Dartmouth Consolidation should proceed as a first step.

Concurrent with the opening of the Peninsula Consolidated Facility is the immediate closure of the Halifax Forum and Civic Arenas and the Devonshire Arena. These closures are critical to the success of the consolidation.

3. It is recommended that the Dartmouth Consolidation commence immediately following the Peninsula Consolidation, and that, like the Peninsula project, staff return to Regional Council with the full project outline at that time. The Steering Committee recommends that this facility be constructed in a centrally located site such as Dartmouth Crossing or Shannon Park.

Concurrent with the opening of the Dartmouth Consolidated Facility is the immediate closure of the Bowles Arena, Gray Arena and the Bedford LeBrun Arena. These closures are critical to the success of the consolidation.

4. Further investigation is required regarding the redevelopment of the Spryfield Arena. The Steering Committee feels strongly that continued attempts at recapitalization of the existing facility are not the preferred course of action, and that consolidation with the existing Captain William Spry Centre is preferred. Preliminary results of site analysis at Captain William Spry indicate that the site will not easily accommodate an arena. Staff should return to Regional Council within the next fiscal period with a detailed recommendation regarding the redevelopment and siting of this facility.

Concurrent with the opening of a redeveloped Spryfield Arena is the closure of the existing Spryfield Arena.

5. Centennial Arena: The Centennial Arena, should be re-evaluated for consolidation after the Dartmouth consolidation is complete. The recapitalization requirements should be evaluated

annually along with facility usage requirements that may change as a result of the recommended implementation of a strategic approach to scheduling – in particular as it relates to Spring, Summer and September usage.

6. Eastern Shore Centre: This facility has been defined as a Multi District Facility (MDF) in recognition of the service delivery role it plays in the geographic community. Although it requires approximately \$3M in recapitalization, this work should be carried out in order to ensure that the facility continues to meet the ice sport and recreational needs in the area. In keeping with the development principles of consolidation and economies of scale, additional review should take place to determine opportunities for future consolidation of other municipal service provision in the community, to this site.

#### D) Outdoor Rinks Recommendations

As outlined in 2.7.3, the Steering Committee proposes that a long term investment be made into refrigerated ice opportunities for other areas in the Municipality, in order to enhance participation, and reduce some barriers such as transportation for some citizens.

This investment would include both capital and operating funds in order to develop small refrigerated ice surfaces throughout the municipality – and that, annually, a decision be made through a grant/lottery to situate a facility in a local community. It is suggested that this recommendation be reviewed within the context of capital planning for consideration after 5 years of successful Emera Oval operation.

#### E) Financial Strategy and Implementation Recommendations

#### **Summary of Recommendations:**



### **SECTION 4: IMPLEMENTATION**

Table 20 is an estimate of maintaining a "state of good repair" for the arena portions of the Multi-District Facilities noted. These amounts do not include soft costs or contingencies, which would be an additional 25% of the total estimate. The 25 year recapitalization plan for the full Multi-District Facility list will be completed and presented to Regional Council in 2012. Historically, HRM has funded the Major Facilities Capital Budget an average of \$2.44M per year since 2006. The 2012/13 Capital Budget for these facilities has increased to \$3.2M.

	SMC	DSP	СНР	Eastern Shore	SSS	Annual Total
2012-2013	1,300,000					1,300,000
2013-2014		2,000,000				2,000,000
2014-2015			1,800,000			1,800,000
2015-2016				1,500,000		1,500,000
2016-2017					1,100,000	1,100,000
2017-2018	1,600,000					1,600,000
2018-2019		900,000		600,000		1,500,000
2019-2020			1,300,000			1,300,000
2020-2021					1,300,000	1,300,000
2021-2022	1,100,000					1,100,000
2022-2023		900,000				900,000
2023-2024			625,000		500,000	1,125,000
2024-2025				900,000		900,000
Total	4,000,000	3,800,000	3,725,000	3,000,000	2,800,000	17,325,000

#### Table 20: Recapitalization Implementation \*\*

**\*\* Note:** Development of a plan for the full recapitalization requirements and planning related to the Multi-District Facilities is a Planning and Infrastructure deliverable for the 2012/13 fiscal year.

Minimal life-safety recapitalization will take place in the following facilities in order to maintain operations pending the development of the proposed consolidated facilities on Peninsula Halifax, and in Dartmouth:

Halifax Forum Arena	Spryfield Arena
Devonshire Arena	Bowles Arena
Civic Arena	Gray Arena
Bedford LeBrun Arena	Centennial Arena

It is anticipated that the consolidation of these facilities will allow for the re-use of some, for other sport purposes such as Lacrosse, and some for market value sale of property. Staff will return to Regional Council with recommendations related to these opportunities outlining the benefits and challenges, including any budget implications.

Also noted in Section 2.6.1, it is important to recognize that the Halifax Forum has been a registered historic property since 2003, and there is due process to follow related to redevelopment on that site. There is clearly heritage value that resides partly in the original building, its design and materials, but also

in its associations. The strongest historical association is with the architect Andrew Cobb who was a talented and renowned local architect trained in the Beaux Arts style. The other important historical associations are to those sport and community events held at the Forum including hockey, boxing, wrestling, curling, circuses, rallies, skating competitions, and music concerts.

If the Forum is unable to be retained in its entirety, then those portions of the building which speak most strongly to those embodied heritage values would be identified through consultation with the community, and incorporated into the redesign of a new building.

The Centennial Arena, should be re-evaluated for consolidation after the Dartmouth consolidation is complete. The recapitalization requirements, although significant, should be evaluated annually along with facility usage requirements that may change as a result of the recommended implementation of a strategic approach to scheduling – in particular as it relates to Spring, Summer, and September usage.

The following arena consolidation timeline is outside of the current anticipated capital budget, and will require consideration and Council Approval regarding development of the funding formula.

The consolidation of 6 existing aging facilities (Devonshire, Forum, Civic, LeBrun, Bowles, Gray) into 2 new multi-pad facilities is anticipated to reduce operating, maintenance and recapitalization costs to the Municipality in excess of \$2M per year. Furthermore, annual lifecycle reserves will be developed at each of the two facilities, and funded through operating revenues of each facility. (Indicative operating costs Section 2.2.3)

#### **Proposed Consolidation Implementation:**

#### **Consolidation Phase 1**

Peninsula Consolidation				
Fall 2012	January 2013	August 2013	September 2013	September 2014
Design, funding formula and consultation program report to Regional Council	Issue RFP to proceed with Design Build Project	Council awards Design Build Contract	Construction commences on site	Open consolidated facility
Estimated Cost				\$45M

#### **Consolidation Phase 2**

Dartmouth Consolidation				
Fall 2015	January 2016	August 2016	September 2016	September 2017
Design, funding formula and consultation program report to Regional Council	Issue RFP to proceed with Design Build Project	Council awards Design Build Contract	Construction commences on site	Open consolidated facility
Estimated Cost				\$40M + land

Retired facilities, after serving citizens for many years, will be respectfully evaluated for best re-use opportunities upon the opening of consolidated multi-pad arenas in each area. They will no longer be utilized for ice sport or recreational skating.

### **SECTION 5: SUMMARY**

The Steering Committee has taken a look to the future.

The Long Term Arena Strategy has been developed as an evidence based document. The data utilized in the development of the recommendations was prepared for this report over the past 18 - 24 months.

In all cases, recommendations were considered by the Steering Committee to add value where there was evidence of inherent efficiencies to the provision of services to citizens. Four significant components of consideration were:

- a) The examination of operational information and the desire to provide a more cost and operationally effective structure for the municipality;
- b) The examination of building audit components including cost of recapitalization;
- c) Building functionality and ability to meet the overall needs of the user groups at each specific arena; and
- d) Participation numbers, rental statistics, patterns and trends in the municipal ice inventory.

Arena users and citizens will experience a higher level of service delivery through Centralized Scheduling, and a region-wide Access Plan to ensure a fair and equitable distribution of ice time to all user groups. This will ensure that underserviced groups will have a fair process to work within for access to ice times. This strategic approach will provide operational savings to the municipality, and a better utilization of public assets.

In an environment where over 58% of the ice surfaces in the region are over 30 years old, and 57% of the municipally owned facilities are over 30 years old, there was consideration given to the value to the consolidation and building of new facilities as purpose built and located, versus the value of continued investment in existing aging facilities. Opportunity existed within the LTAS planning to evaluate the benefits of replacement of aging facilities, to provide a higher level of efficiency and operational effectiveness by consolidation and retirement of some existing arenas.

As outlined in the Arena Operations Assessment Report of December 30, 2011, "the operating results for the BMO Centre as compared with those of the 4 HRM single pad facilities amply demonstrate the economies inherent in multi-pad facilities as compared with single pad arenas." This aligns with the facility development principles outlined in the CFMP and supports the notion of multi-pad and multi-use facilities as efficient hub service delivery mechanisms. The resulting recommendations related to consolidation of facilities take the operational effectiveness of multi-pads into consideration. Concern related to the "state of readiness" of the aging facilities and the cost to recapitalize these basic requirements has led the Steering Committee to a proactive approach for future provision.

This study determined that there is not a need to add additional inventory – no additional ice surfaces are recommended as part of this review.

In closing, the Steering Committee supports a strong approach to the implementation of these recommendations and remains committed to the outcomes. As members of key stakeholder groups and dedicated citizens, they have received the full support of their respective organizations and are eager to support Regional Council in the provision of a renewed and revitalized approach to service delivery through the Long Term Arena Strategy.

### APPENDICES

APPENDIX A:	Building Assessment Summaries Arenas
APPENDIX B:	2001 Arena Capacity Study - Update 01/29/09, Catherine Oliver
APPENDIX C:	Long Term Arena Strategy Background Report 03/31/11, Catherine Oliver
APPENDIX D1: D2:	Arena Operations Assessment Nov 2010-Oct 2011 12/30/11, Catherine Oliver BMO Financial Package for Period Ending March 31, 2012
APPENDIX E:	Community Facility Master Plan 06/30/08 www.halifax.ca/facilities/CFMP/documents/CFMPFINALMay08.pdf
APPENDIX F:	LTAS Steering Committee Terms of Reference www.halifax.ca/facilities/CFMP/documents/LTASSteeringCommitteeTermsofReference.pdf
APPENDIX G:	Community Access Plan www.halifax.ca/facilities/CFMP/documents/CommunityAccessPlan.pdf

This page is blank on purpose

## **APPENDIX A**

Building Assessment Summaries Arenas



HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

## Halifax Forum and Civic Centre

2901 Windsor Street Halifax

Year of Construction:	1927 / 1988-2003
Number of Ice Sheets:	2
<b>Deferred Recapitalization:</b>	\$1,660,000
Facility Condition Index:	8.49%

Date of Site Assessment:

12/13/2011

#### **Property Description**

The property development consists of four buildings; two arenas (Halifax forum and Civic Center), a multipurpose centre (MPC) and a bingo hall (Bingo/Maritime Hall). The Halifax Forum was constructed in 1927, which has a concrete and steel



superstructure, a sloped timber roof deck with recently installed modified bitumen roof covering. The building is clad with brick. It is assumed that the Forum is founded on standard concrete footings and frost wall foundation. The Forum is identified as a Heritage site. The Civic center is a pre-engineered steel structure built in 1995 that is assumed to be founded on standard concrete footings and concrete foundation walls. The building has a sloped metal roof covering, vertical metal siding and clay brick siding. The MPC is a pre-engineered steel structure built in 1988 that is also assumed to be founded on standard concrete footings and concrete founded on standard concrete footings and frost wall. It has a sloped metal roof, vertical and horizontal metal siding, HardiePlank siding and overhead doors. The total building area of the four buildings is approximately 123,000 ft<sup>2</sup>.

At the time of the assessment the site appeared to be in fair overall condition with a deteriorated exterior envelope associated with the original structure. Similarly, the brine distribution piping was also distressed and in need of repair. The remainder of the buildings and their components were generally in fair to good condition and well maintained. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. A number of the building components will require replacement during the evaluation period that include but is not limited to the roof, exterior cladding and doors, dasher boards, mechanical and ventilation systems, electrical switchgear and lighting, fire alarm panel and cyclical replacement of the ice resurfacers.

25 Year Recap

### Major Component Replacement

#### Category 1 – Site Work

- At the time of the site visit the asphalt parking areas appeared to be in fair to good condition with minor areas of localized settlement and alligator/longitudinal cracking noted. Evidence of past localized repairs was also observed. Asphalt paving typically has an expected useful life of fifteen years depending on the frequency of use, maintenance and quality of the original installation. Replacement and repairs are expected
- Landscaped areas appear to be in good condition and are not expected to require • capital expenditure.
- The concrete flatwork were observed to be in generally good condition •

#### Category 2 – Architectural Exterior

- The exterior cladding on the Halifax Forum consists of clay brick that is original to the building and is very poor condition. Although the brick cladding has had repairs and renovation in the past, the brick work, if it is expected to be retained, will need extensive renovation and restoration
- The exterior cladding for the Civic Center consists of prefinished vertical metal panels with portions of the front and south elevations which are clad with a brick veneer. It is assumed that the cladding was installed with the construction of the building in 1995. Localized repointing of the brick and replacement of the metal siding is expected to be required to be required

#### Category 3 – Roof

#### Roofing on the Civic Center (MPC and Bingo/Maritime Hall) consists of a pre-finished standing seam metal roof that is supported by the building superstructure. Drainage is generally to gutter and downspouts or shed directly to the ground from the sloped roof. It is expected that a portion of the metal roof membranes will require repairs and or

replacement during the evaluation period Roofing for the Halifax Forum portion consisted of a modified bitumen roof covering. The membrane is supported by a wood roof deck and in turn the steel superstructure. Drainage for the roof is provided by sheeting action to eaves troughs and downspouts. The membrane was in good condition with no reported leaks. Cyclical end of life replacement is expected to be required during the evaluation period

#### Category 4 – Structure

- The Halifax Forum was reported to be originally constructed in 1927 with the addition of • the MPC in 1988, Civic Center in 1995, and the Bingo/ Maritime Hall in 2003. The Forum consists of a combined steel and concrete structure with open web steel joists (OWSJ) that are riveted together that supports a wooden roof deck covered with a modified bitumen roof covering. It is assumed that the foundation consists of standard concrete footings and concrete frost walls with slab on grade flooring
- The Civic Center, Bingo Hall and MPC consist of a pre-engineered steel frame • structures. It is assumed that the foundations consist of standard concrete footings and concrete frost walls with slab on grade flooring
- No evidence of major structural faults was observed or reported with the building structure. No major repair or replacement is expected to be required during the term

#### 25 Year Recap **\$0**

## 25 Year Recap

\$305.000

\$1,647,000

#### 25 Year Recap \$913,000

\$447.000

#### Category 5 – Architectural Interior

#### 25 Year Recap \$733,000

25 Year Recap

- The interior of the Forum and Civic Center consists of an ice surface atop a concrete slab on grade, change rooms, washrooms, concession room, and skate sharpening room. The two arenas share a mechanical room, electrical room and Zamboni garage. The interior wall finishes for the Forum generally consists of painted concrete, speed tile and exposed painted metal columns / beams. The floor finishes consist of a newly finished epoxy resin on top of the concrete slabs and rubber matting around the ice surface and locker rooms. Ceilings are open to the underside of the ceiling deck with exposed structural components. The upper section of the arena has a box area that is made out of glass and plywood with wood frames. The box sections are open to the rest of the arena and are not heated
- Replacement of the rubber flooring in the Forum and Civic Centre and replacement of the Low-E Ceiling in the Civic Centre are expected to be required during the term

#### Category 6 – Mechanical

- The main incoming water line is located in Civic Center and is assumed to service all four buildings. The water line is complete with a backflow preventer. Wastewater piping is assumed to be a combination of ABS and or cast iron which drains to the municipal sewer system. Localized repairs are expected to be completed as part of O&M
- Washroom fixtures throughout the four buildings consist of typical water closets, urinals and sinks. In the arenas dressing rooms have washroom/showers. Cyclical replacement of the fixtures can be expected to be required during the evaluation period
- Hot water is supplied to the Forum, Civic and MPC from an indirect fired hot water heater which provides hot water for flood water, washrooms, and showers. The indirect hot water heat uses boiler water from the main boiler located in the Forum boiler room. Cyclical end of life replacement can be expected during the term
- Heating hot water for the Forum, Civic and MPC is provided by the main boiler located in the Forum. It is a York Shipley of Canada boiler which was installed in 1995 and has recently been converted to natural gas. Heating hot water is circulated in a two loop system each with two circulating pump on each loop. The heating water is not treated. End of life replacement is expected to be required during the evaluation period

#### **Category – 7 Electrical**

- There is one main feed for the four buildings that goes to the electrical room between the Forum and the Civic Center. The main disconnect is a Square D Canada rated at 1200A and 347/600V, which was installed in 1995. Secondary switch gear is found in each of the buildings that then distributes to the receptacles and lighting. A partial replacement of the primary and secondary components are expected during the term
- Lighting for the arenas have recently been upgraded to high bay T5 fluorescent over the ice sheets. The lighting along perimeter of the two buildings is T8 fluorescent fixtures. End of life replacements can be expected during the evaluation period

#### Category 8 – Life Safety

- The four buildings are each equipped with their own alarm panel which is located at the main entrance to each building. The panel are connected to smoke detectors throughout the building and externally monitored
- The building is provided with a sprinkler system, dry for the arenas and wet for the MPC and Bingo/Maritime Hall. Emergency lighting is provided by battery back-up wall mounted lighting and LED exit signage strategically placed throughout the buildings
- A 57 hp diesel pump fire pump was installed in 1995 to service the sprinkler system. The single walled fuel tank that services the pump was installed in 1996

#### 25 Year Recap \$79,000

53

#### 25 Year Recap \$94,000
• Cyclical and end of life replacement of the Life Safety components are expected to be required during the evaluation period

#### Category 9 – Specialty Systems/Equipment

#### 25 Year Recap \$1,148,000

- The ice making plant consists of an ammonia based refrigeration plant that provides chilled brine through a piped header system to the ice sheet slab to maintain the ice sheet. The plant consists of three evaporative condensers, two shell and tube chillers, three Mycom reciprocating compressors with two equipped with 75 hp motors and another with a 100 hp motor. The plant has a recently installed heat recovery system using four ThermoStor Ammonia / Water de-superheaters which preheat the boiler water. End of useful life of the majority of the Ice Plant components is expected to be required during the evaluation period
- Brine is circulated by 20 hp circulation pumps through a distribution system including supply / return piping, header and the slab piping. The brine distribution piping was observed and reported to be in poor condition and will require at least a partial replacement during the evaluation period. The in slab brine piping in the Forum and Civic Centre was reported to be in good condition. Major repair or replacement of the brine slab piping is not expected to be required
- Dehumidification for the Civic Center is provided by two Cimco dehumidification units, and the Forum dehumidification is provided by a natural gas fired desiccant roof top mounted dehumidification unit. End of life replacement is anticipated to be required during the evaluation period
- The dasher boards in the Forum were replaced in 2006 with the dasher boards in the Civic Centre were partially replaced in 2009. Cyclical end of life replacement of the dasher boards in both arenas is expected to be required during the evaluation period
- The ice resurfacing equipment is in good to new condition. These units have a typical expected useful life of between ten and fifteen years. For the purposes of the capital plan it is expected that cyclical replacement will be required at ten year intervals during the evaluation period



ST. MARGARET'S CENTR

HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

# St. Margaret's Centre

12 Westwood Boulevard Upper Tantallon

Year of Construction:	1986 / 2006
Number of Ice Sheets:	2
<b>Deferred Recapitalization:</b>	\$102,000
Facility Condition Index:	0.80%

Date of Site Assessment: 02/2/2012

#### **Property Description**

The building contains two arenas, a gymnasium, a multi-purpose room, administration offices, canteen and conference rooms. In general it is a combination of two single storey structure adjoined with a two storey structure. It is assumed to be



founded on concrete foundations and has a steel superstructure. The exterior envelope is predominantly clad with metal siding and brick veneer. The roof over both arenas is metal supported by metal purlins and the steel superstructure while the gymnasium and ancillary space has an EPDM roof supported by metal deck and open web steel joists. The reported area of the building is approximately 85,400 ft<sup>2</sup>.

At the time of the assessment the site appeared to be in good overall condition. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. The recommendations made with respect to the capital plan include replacements of asphalt paving, exterior envelope components, interior finishes, HVAC components, and plumbing fixtures and piping. In the arena system, the ice plant, condensers, headers and piping, dehumidifiers, dasher boards and ice-resurfacing equipment will require replacement or significant refurbishment.

#### Major Component Replacement Category 1 – Site Work

#### 25 Year Recap \$513,000

- At the time of the site visit the majority of the asphalt paving was snow covered. It is assumed that the asphalt is in excess of six years old based on the year of construction of the addition to the building. It was reported that the asphalt is in fair condition with some cracks and "alligatoring". Based on the assumed age and reported condition it is anticipated that repairs will be required in the short term and again in the long term with a complete replacement in the extended term of the evaluation
- Landscaped areas appear to be in good condition and are not expected to require capital expenditure
- The concrete sidewalks along the west elevation were observed to be in good condition with no areas of heaving or settling. No significant repair or replacement is expected to be required

### Category 2 – Architectural Exterior

- The exterior cladding of the building consists of metal siding and brick masonry. The metal siding is located around the perimeter of each of the arenas and approximately the top ten feet of the gymnasium while brick masonry extends from the main entrance on the south elevation around the east elevation and ends at the arena along the north elevation
- Windows are mainly located in the areas clad by brick masonry and are aluminum framed sealed glazing units. There are two sets of four aluminum glazed doors forming a vestibule at the main entrance and four aluminum framed and glazed doors along the north elevation. Service doors consist of metal doors set in metal frames. In addition there are three overhead doors located along the west elevation of the two arenas
- Cyclical repointing of the exterior brickwork, caulking, exterior and overhead doors and the original sections of metal siding are expected to require replacement during the term

### Category 3 – Roof

- The roof system on both arenas consists of a prefinished metal. The roof system above the gymnasium and ancillary areas consists of an ethylene propylene diene monomer (EPDM) system.
- One of the arenas metal roofs as well as the EPDM membrane (gym and ancillary) are expected to require replacement during the evaluation period

### Category 4 – Structure

• No evidence of major structural faults was observed or reported with the building structure

### **Category 5 – Architectural Interior**

- There are three main areas in the building:
  - There are two arenas, one constructed in 1986 and the other in 2006. The arenas share a common ice maintenance area and ice plant
  - A Gymnasium
  - A common area connecting both arenas and the gymnasium which contains locker rooms, washrooms, offices, canteen, meeting rooms, workout room, multipurpose room and board room
- The arenas, other than the actual ice pads, have rubber flooring and painted concrete or prefinished metal panel walls. The ceiling in the older arena has low-e blankets suspended or attached to the roof structure and main beams while the other arena has prefinished metal panel ceiling complete with vertical suspended acoustic panels. The dressing rooms have painted block walls, rubber tile floors and the ceilings appear to be painted concrete. Cyclical replacement of the rubber flooring and painted finishes in the arena are expected to be required

### Category 6 – Mechanical

- The facility has two separate water services; a well supplied potable system and a non
  potable water system. The non potable water was reported to be supplied from three
  wells on site with some rain water collection and is being used for flood water, urinals
  and toilets. It is stored in three, twenty seven thousand litre composite tanks for use as
  required. Rainwater is processed through a sand filter system for use in washrooms and
  through a "Jet Ice" system for flood water
- Well water is processed through a reverse osmosis system for drinking (potable) water, domestic tap and showers. Water is distributed throughout the building via copper piping. Hot water is heated and stored in three "Phase Three" indirect fired hot water

### .....

25 Year Recap

25 Year Recap

25 Year Recap

### 25 Year Recap \$120,000

#### 25 Year Recap \$892,000

**\$0** 

\$317,000

\$1,187,000

storage tanks for use in the building. It is expected that this system will require replacement at the end of its useful life

- There are in excess of sixty plumbing fixtures in the facility which include toilets, sinks, urinals, showers and water fountains. Phased replacement is expected to be required during the evaluation period
- Base load heat for the community center is provided by two AO Smith, model N2003-1065 and N2002-858, oil fired boilers connected to hot water baseboard heaters and ceiling mounted radiant heaters. The boilers are equipped with Power Flame, model C20AC burners and have a capacity of approximately 1,477 MBH each. The boiler water is also used to produce domestic hot water. The boilers are supplemented with reclaimed heat from the ice making equipment. Retrofit and replacement of the boilers is expected to be required during the evaluation period

#### **Category – 7 Electrical**

- The building is equipped with a main disconnect rated at 1200Å 347/600V. The main disconnect was manufactured by Square D. Power is directed to the arena equipment, HVAC equipment and to transformers and breaker panels rated at 120/208V. The breaker panels service lights and receptacles throughout the building. No major replacement of the primary electrical components and equipment is expected
- Lighting in the building is a mixture of T5, T8, metal halide induction and incandescent fixtures. End of life replacement is expected to be required

### Category 8 – Life Safety

- The building is equipped with an Edwards EST fire alarm reported to have been installed in 2006. The panel is connected to smoke detectors and alarm bells. Emergency lighting is provided by battery back-up wall mounted lighting and illuminated exit signage. Emergency power is provided by a 250 kW diesel powered generator. The building is equipped with dual wet/dry sprinkler system
- Replacement of the fire alarm, emergency lighting, exit signage and generator are expected to be require during the evaluation period

#### Category 9 – Specialty Systems/Equipment

- The building contains two arenas which operate from one refrigeration plant. The plant is comprised of two Mycom compressors, one Frick screw compressor and two evaporative cooling towers. It was observed and reported that the system is equipped with "Eco Chill" heat recovery. There are two "Thermo-Stor" tanks and one large Cimco tank (thermal equalizer) which store hot water, reportedly for preheating domestic hot water, heating pool water, snow pit melting. Chilled brine is pumped through headers in each arena. Controls consist of infrared sensors which monitor the ice temperature. End of life replacement of compressors and cooling towers are expected to be required
- The arenas are equipped with dasher boards, glass protection screens, protective netting, audio systems, time clock, scoreboards and seating. Cyclical end of life replacement expected to be required during the evaluation period
- The brine headers and associated under slab piping was reported to be in good condition with no known leaks or deficiencies. Localized repairs during the evaluation period are expected
- The facility is also equipped with two ice resurfacing machines. End of life replacements are expected during the evaluation period

### 25 Year Recap \$107,000

### 25 Year Recap \$115,000

\$1,330,000

25 Year Recap



HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

# Cole Harbour Place

51 Forest Hills Parkway Dartmouth

Year of Construction:	1970's / 1988
Number of Ice Sheets:	2
<b>Deferred Recapitalization:</b>	\$52,000
Facility Condition Index:	0.18%

Date of Site Assessment: 07/27/2011

#### **Property Description**

The building is a multi storey steel structure containing offices, fitness facilities, two arenas, squash courts, office areas, an indoor aquatics center, meeting rooms and canteen. The building is

assumed and reported to be founded on standard concrete footings and concrete foundation walls. The base building was constructed in the early 1970s and consisted of a one storey arena. In the 1980s a one story arena was added with a multi storey community center completed in the late 1980s. The exterior envelope is predominantly clad with metal siding and brick veneer. Roofing consists of EPDM and inverted roof systems. The total reported area of the building is approximately 166,000 ft<sup>2</sup>.

At the time of the assessment, the site appeared to be in good overall condition and appears to be maintained in operable condition. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. The recommendations made with respect to the capital plan include replacements of asphalt paving, exterior envelope components, interior finishes, HVAC components, and plumbing fixtures and piping. In the arena system, the ice plant, condensers, headers and piping, dehumidifiers, dasher boards, sound system, scoreboards and time clocks, and ice-resurfacing equipment all require replacement or significant refurbishment.

#### Major Component Replacement Category 1 – Site Work

#### 25 Year Recap \$630,000

- At the time of the site visit it was observed that the asphalt paving was in fair to good condition with a few pot holes, longitudinal cracking and some areas of "alligatoring". It was also observed that some patching had recently been undertaken near the main entrance. Asphalt repairs and replacement are expected to be required during the evaluation period
- Landscaped areas appear to be in good condition and are not expected to require capital expenditure
- The concrete sidewalks along the south, west and east elevations were observed to be in good condition with no areas of observed heaving or settling and only minor areas of damaged concrete. No major repairs or replacement is expected to be required



59

- Approximately 50% of the Site Work Category recapitalization costs during the evaluation period have been directed to the Arena portion of the development

### Category 2 – Architectural Exterior

- The exterior cladding of the building consists of architectural block masonry and prefinished metal siding. Repointing of approximately twenty percent of the masonry in the extended term of this evaluation is expected to be required. The prefinished metal siding appeared to be in good condition with minor corrosion observed at the fastener locations. A complete replacement is expected within the extended term of the evaluation period
- The arena areas have building envelopes with minimal glazing while the main • community center has double pane sealed units in aluminum frames. The two main entrances to the building consist of aluminum framed storefront style doors. The remaining exterior doors are painted metal with metal frames. There are also three overhead garage doors. Cyclical replacement of doors and glazing are expected upon reaching the end of their remaining useful life

#### Category 3 – Roof

- At the time of the site visit the roof system on the original arena, consisted of an Ethylene Propylene Diene Monomer (EPDM) system adhered over a previous roof system. The EPDM roof was reported to have been installed in 2011. All other roofs are ballasted inverted roof systems. Drainage from the EPDM roof system is by gutter to rainwater leaders and by internal rain water leaders for all other areas
- Based on the reported condition and estimated remaining useful life, replacement of the • EPDM roof is expected to be required during the extended term of the evaluation period with the inverted roofs requiring replacement in the short term of the evaluation period

#### Category 4 – Structure

No evidence of major structural faults was observed or reported with the building structure

### **Category 5 – Architectural Interior**

- There are eight main areas in the building:
  - The arenas, consisting of the ice surface, change rooms, bleachers and 0 washrooms
  - The library, consisting of the main book rack area and some offices 0
  - A swimming pool area containing three pools, a water slide and change rooms
  - A community hall which now contains office areas
  - A fitness centre with exercise equipment
  - A multipurpose room used for presentations, movies and assemblies
  - Squash courts
  - Office areas
- Cyclical replacement of the majority of the interior finishes associated with the arena portions of the development is expected to be required during the evaluation period

#### 25 Year Recap **\$0**

25 Year Recap

25 Year Recap

#### 25 Year Recap \$564.000

\$1,008,000

\$225,000

#### Category 6 – Mechanical

#### 25 Year Recap \$133,000

- The on-site water main and sanitary sewer were reported to have been installed in the early seventies and upgraded in the early eighties to accommodate the expansion of the facility. Localized repairs are expected to be required during the evaluation period
- There are in excess of one hundred plumbing fixtures in the facility which include toilets, sinks, urinals, showers and water fountains. Phased replacement is expected to be required during the evaluation period
- Base load heating is provided by two natural gas fired boilers connected to hot water baseboard heaters. The boilers also provide domestic hot water and heating water for the pools via heat exchangers. Heat for the arena dressing rooms is provided by hot water unit heaters supplied hot water from the boilers. Ventilation is provided by roof mounted air handling units with the exception of the pool area which is ventilated with two air handling units mounted in a penthouse mechanical room and a number of smaller exhaust fans. Cooling for the building is accomplished through electric roof mounted packaged units. In the case of the office areas, the packaged unit is connected to variable air volume boxes.

#### **Category – 7 Electrical**

- Power is transmitted from a pad mounted transformer located to the west of the building to the main disconnect rated at 2000A 347/600V and to a second disconnect rated at 800A 347/600V. The main disconnects were manufactured by Westinghouse and Federal Pioneer Power respectively. Power is directed to the arena equipment, HVAC equipment and to transformers and breaker panels rated at 120/208V. Cyclical end of life replacement of the main panel is expected to be required
- Lighting in the building is a mixture of T8, T12, metal halide and incandescent fixtures. Ongoing upgrades and replacement of the lighting throughout the building are expected to be required during the evaluation period

#### Category 8 – Life Safety

- The building is equipped with an Edwards fire alarm panel, a portion of which has been upgraded with an EST 2 fire alarm panel located near the front entrance. The panel is connected to smoke detectors and alarm bells throughout the building and reportedly monitored by an independent monitoring company. End of life replacement is expected to be required during the evaluation period
- Emergency lighting is provided by battery back-up wall mounted lighting and illuminated exit signage strategically placed throughout the building. End of life replacement is expected to be required during the evaluation period
- The building is equipped with two sprinkler systems. One system is installed in the community center and the other is installed in the arenas. The arenas have both a wet and dry component. No major replacement is expected to be required

#### Category 9 – Specialty Systems/Equipment

• The facility is equipped with two arenas, three pools, a whirlpool and a waterslide

#### Arena Specialty System/Equipment Recapitalization

• The refrigeration plant was reported to have been installed by Cimco and is an "Eco Chill" packaged system with plate and frame chillers with heat recovery that was installed in 2006. There are two "Thermo-Stor" tanks which store hot water for ice resurfacing use. There are two Cimco evaporative towers (2010 and 1990) mounted

#### 25 Year Recap \$200,000

#### 25 Year Recap \$166,000

\$1,517,000

25 Year Recap

outside the building near the refrigeration plant. End of life and cyclical replacements are expected to be required during the evaluation period

- Three Cimco dehumidification units are mounted in each of the arenas. It was reported that the dehumidifiers are in excess of ten to fifteen years old and are in good condition. Cyclical end of life replacement can be expected to be required
- The brine headers and associated under slab piping were reported to be in good condition with no known leaks or deficiencies. Localized repairs and replacements can be expected to be required during the evaluation period
- The majority of the dasher boards and glazing are original to the construction of each arena and have an expected useful life of twenty five to thirty years. It is anticipated that the dasher boards and glazing will require replacement within the evaluation period
- Cyclical end of useful life replacement of the Ice Resurfacers is expected to be required during the evaluation period



HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

# **Dartmouth Sportsplex**

110 Wyse Road Dartmouth

Year of Construction:1982 / 1995 / 1997Number of Ice Sheets:1Deferred Recapitalization:\$1,349,500Facility Condition Index:6.01%

Date of Site Assessment: 07/26/2011

#### **Property Description**

The building is a two storey steel structure containing offices, fitness facilities, an arena, squash courts, an indoor pool, meeting rooms and canteen. The building is assumed and reported to



be founded on standard concrete footings and concrete foundation walls. It was also reported that the structure and foundation were originally constructed in the early 1982 with an addition completed in 1995. The exterior envelope is predominantly clad with brick veneer. The roof on the original building is prefinished metal supported by metal trusses and the steel superstructure. The roof on the addition is part prefinished metal and part EPDM system supported by metal deck on steel joists or trusses and the steel superstructure. The roof the building is approximately 132,000 ft<sup>2</sup>.

At the time of the assessment the site appeared to be in fair overall condition; however the building appears to be maintained in operable condition. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. It is recommended that the concrete stairs be repaired or replaced and the parking area be repaired or replaced as soon as possible. It is also recommended that portions of the roof be replaced as they have reached the end of their useful life. The caulking should be replaced in the near future to prevent water penetration into the building. In addition there are a number of mechanical, electrical and life safety components that should be closely monitored and replaced as required.

# Major Component Replacement

#### Category 1 – Site Work

- At the time of the site visit it was observed that the asphalt paving was in poor to fair condition with a pot holes, areas of heaving and settling, longitudinal cracking and areas of "alligatoring". It was observed that many areas of the parking lot have failed or are beginning to fail while others are in fair condition for their age. A complete replacement of the asphalt will be required during the short term and additional repairs in the extended term of the evaluation
- Landscaped areas appear to be in good condition and are not expected to require capital expenditure

### 25 Year Recap \$899,000

- The concrete flatwork associated with the development requires repairs and or replacements
- Approximately 50% of the Site Work Category recapitalization costs during the evaluation period have been directed to the Arena portion of the development

## **Category 2 – Architectural Exterior**

#### 25 Year Recap \$182,000

- The exterior cladding of the building consists mainly of brick masonry and a small amount of prefinished metal siding. Brick masonry extends from the top of the foundation to the underside of either the sloped metal roofs or the EPDM roofs. The brick veneer appeared to be in fair condition with areas of damaged brick and some areas of mortar failure. Repointing of approximately twenty percent of the masonry is expected to be required
- Metal siding exists at the entrance way canopy at the north side of the building. The ٠ siding appeared to be in good condition with minor corrosion observed at the fastener locations
- The arena areas of the building envelope have glazing along the south elevation as does • the main community center and pool area which consist of double pane sealed units in aluminum frames. The glazing appeared to be in generally fair to good condition with end of life replacements expected
- The three main entrances to the building consist of metal framed glazed doors. The remaining exterior doors are painted metal with metal frames. There are also two overhead doors. Ongoing replacement of the exterior doors is expected to be required during the evaluation period

## Category 3 – Roof

#### \$934.000 25 Year Recap

 The roof system is an Ethylene Propylene Diene Monomer (EPDM) system with portions of the roof being prefinished metal siding. Drainage from the metal roof system appears to be via sheeting action to the ground below with the EPDM roof drainage by internal rain water leaders assumed to be connected to the municipal storm system. Repairs and replacements of the roof membranes are expected during the evaluation period

## **Category 4 – Structure**

25 Year Recap No evidence of major structural faults was observed or reported with the building structure

## **Category 5 – Architectural Interior**

- There are four main areas in the building: •
  - o The arena, consisting of the ice surface, change rooms, bleachers and washrooms
  - A swimming pool area containing the main and teaching pools, four water slides, sauna, steam room and change rooms
  - A community center which contains multipurpose rooms, a cafeteria and office areas
  - A fitness center with exercise equipment and squash courts
- The arena, other than the ice pad, has rubber flooring and painted plywood or painted block walls. The ceiling in the main arena is open to the underside of the metal roof. The dressing rooms have painted block walls and the ceilings are open to the deck above. There are painted sound acoustic panels installed on the interior walls surrounding the arena. A running track surface is also present around the upper portion of the arena. End of life replacement of the limited Architectural Interior finishes associated with the arena are expected to be required during the evaluation period

25 Year Recap

**\$0** 

\$35,000

## Category 6 – Mechanical

#### 25 Year Recap \$132.000

- The on-site water main and sanitary sewer were reported to have been installed in the early eighties. There is a meter and a backflow preventer installed at the domestic water entrance to the building. Localized repairs are expected to be required during the evaluation period
- There are in excess of one hundred plumbing fixtures in the facility which include toilets. • sinks, urinals, showers and water fountains. Phased replacement is expected to be required during the evaluation period
- Base load heat for the community center is provided by a Burnham, model V-1125, natural gas fired boiler and a Weishaupt gas fired boiler connected to hot water baseboard heaters. The boilers also provide domestic hot water and heating water for the pools and for ice resurfacing via heat exchangers. Heat for the arena dressing rooms is provided by hot water unit heaters. Ventilation is provided by twelve air handling units. mounted in a penthouse mechanical room and one mounted in a dedicated mechanical room near the arena dressing rooms and number of smaller exhaust fans. Cooling for the building is accomplished with a roof mounted electric packaged unit and was reported to be limited to a small portion of the building

## Category – 7 Electrical

- The building is equipped with two main disconnects rated at 1200A 347/600V and to a second disconnect rated at 800A 347/600V. The main disconnects were manufactured by Canadian General. Power is directed to the arena equipment, HVAC equipment and to transformers and breaker panels rated at 120/208V. The breaker panels service lights and receptacles throughout the building. Cyclical end of life replacement of the main panel is expected to be required
- Lighting in the building is a mixture of T8, T12, metal halide and incandescent fixtures. Ongoing upgrades and replacement of the lighting is expected to be required during the evaluation period

## Category 8 – Life Safety

- The building was reported to be equipped with a Notifier fire alarm system installed in 2006/2007
- Emergency lighting is provided by battery back-up wall mounted lighting and illuminated exit signage strategically placed throughout the building
- The building is equipped with duel wet/dry sprinkler system installed and serviced by • Viking Sprinklers
- Cyclical and end of life replacement of the Life Safety components are expected to be required during the evaluation period

## Category 9 – Specialty Systems/Equipment

The facility is equipped with one arena, two pools, a whirlpool, four waterslides, steam • room and sauna

## Arena Specialty System/Equipment Recapitalization

The plant is comprised of three Cimco / Mycom compressors, plate and frame chiller and an evaporative cooling tower, there are three "Thermo-Stor" tanks which store hot water for ice resurfacing, preheating domestic hot water and snow pit melting. There is a "Jet Ice" reverse osmosis system installed for purification of flood water. In addition to two "Dessert Air" de-humidification units there is an air handling unit equipped with a desiccant wheel located in a mechanical room within the arena. The Plate exchanger

#### \$185,000 25 Year Recap

#### 25 Year Recap \$132,000

25 Year Recap \$1,373,000 was replaced in 2003 and the cooling tower is less than ten years old. The hot water storage tanks were reported to be in good condition and had been installed within the last five years. The dehumidifiers were installed in 1997 and are in good condition. Cyclical upgrade of the ice plant and associated equipment are expected to be required during the evaluation period

- The brine headers and associated under slab piping was reported to be in good condition with no known leaks or deficiencies. Localized repairs during the evaluation period are expected
- The arena is equipped with dasher boards, glass protection screens, protective netting, audio systems, time clock, scoreboards, approximately three thousand seats and an ice surface cover. The dasher boards and protective glazing and netting were replaced in 2011 and cyclical end of life replacement expected to be required during the evaluation period
- The facility is also equipped with two ice resurfacing machines. Both ice resurfacing machines run on propane with one having a duel fuel system capable of running on natural gas. There is a natural gas re-fuelling station installed. End of life replacements are expected during the evaluation period



HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

# Spryfield Lions Arena

111 Drysdale Arena Halifax

Year of Construction:	1972
Number of Ice Sheets:	1
<b>Deferred Recapitalization:</b>	\$1,112,000
Facility Condition Index:	17.90%

Date of Site Assessment: 07/26/2010

#### **Property Description**

The building is a one storey steel structure containing two mezzanines and is assumed and reported to be founded on standard concrete footings and concrete foundation walls. It was also

reported that the structure and foundation were originally constructed in 1972 with an addition to the south end of the building completed in 1982. The exterior envelope is predominantly clad with metal siding and brick veneer. The roof consists of standing seam metal panel supported by purlins which are in turn supported by the steel superstructure. The reported area of the building is approximately 39,200 ft<sup>2</sup>.

At the time of the assessment the site appeared to be in poor overall condition as a result of aged infrastructure; however the building appears to be maintained in operable condition. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. It is recommended that the sidewalk be repaired or replaced and the parking area be repaired as soon as possible. It is also recommended that the ice making equipment be replaced within the immediate to short term. Cyclical replacement of the ice resurfacer is anticipated. The metal siding is deteriorating at the base and where fasteners penetrate to the wall behind and should be repaired or preferably replaced.

#### Major Component Replacement Category 1 – Site Work

#### 25 Year Recap \$499,000

- At the time of the site visit it was observed that the asphalt paving was in very poor condition with numerous pot holes, fissures, areas of frost heaving, extensive "alligator cracking". A complete replacement in the short term is anticipated with repairs beginning at ten years and every five years thereafter to maintain the condition of the parking surface
- Landscaped areas appear to be in good condition and are not expected to require capital expenditure
- The concrete sidewalks along the north and east elevations were observed to be in poor condition. There were a number of areas where the concrete has settled, cracked or heaved. In some areas the uneven surface poses a potential tripping hazard



## Category 2 – Architectural Exterior

- The exterior cladding along the west and south of the building consist of prefinished metal siding. The siding is in poor condition and it is anticipated that the building will require a complete residing within the next ten years
- The north and east elevations brick masonry extends from the top of the foundation wall to approximately ten feet above the finished floor elevation with prefinished metal siding continuing to the roof level. Repointing and replacement of the caulked control joints is expected to be required
- The main entrance consists of three, aluminum framed storefront style doors, of which one is equipped with an automatic door opener. In addition there is a double aluminum door providing access to the gymnasium. The remaining exterior doors are painted metal with metal frames. There is also one overhead garage door. End of life replacements are expected to be required during the evaluation period

## Category 3 – Roof

Roofing consists of a prefinished metal standing seam roof system that was installed in 1995. Cyclical replacement is expected to be required

## Category 4 – Structure

No evidence of major structural faults was observed or reported with the building structure

## **Category 5 – Architectural Interior**

- There are four main areas in the building:
  - The arena, consisting of the ice surface, change rooms, a concessions area bleachers and washrooms
  - The gymnasium, consisting of a basketball court, washrooms and a concessions area
  - A gallery located above the change rooms complete with kitchen
  - A mezzanine located above the main entrance including washrooms
- Cyclical replacement of the majority of the interior finishes associated with the ice arena portions of the building is expected to be required

## Category 6 – Mechanical

- The on-site water main and sanitary sewer were reported to have been installed in 2009. There is a meter and a back flow preventer installed at the domestic water entrance to the building. Localized repairs are expected to be required during the evaluation period
- The building is not provided with showers
- Domestic hot water is supplied from two electric hot water heaters. Cyclic replacement is anticipated at ten to fifteen years intervals

## **Category – 7 Electrical**

- Power is transmitted from pole mounted transformers located outside the building to the main disconnect rated at 400A, 600V. Power is then directed to a transformer and then to breaker panels rated at 120/208V. Cyclical end of life replacement of the main panel is expected to be required
- Lighting in the building is a mixture of T8, T12, metal halide and incandescent fixtures. It was reported that six CCTV cameras and associated video recording equipment was installed in 2009. It was also reported that a Paradox alarm system was installed within the last five years and is monitored by AEL Ltd. Cyclical end of life replacement is expected to be required during the evaluation period

#### 25 Year Recap \$633.000

#### 25 Year Recap **\$0**

25 Year Recap

25 Year Recap

#### 25 Year Recap \$136,000

#### 25 Year Recap \$223,000

\$252,000

\$308,000

#### Category 8 – Life Safety

#### 25 Year Recap \$32,000

- The building is not provided with a sprinkler system
- The building is equipped with a Mircom fire alarm panel located near the front entrance. This panel is connected to smoke detectors throughout the building. Emergency lighting is provided by battery back-up wall mounted lighting and illuminated exit signage strategically placed throughout the building. Cyclical end of life replacement of the life safety components is expected to be required during the evaluation period

#### Category 9 – Specialty Systems/Equipment

- Dasher boards were installed in 2009 and are in good condition. Cyclical end of life replacement is expected during the evaluation period
- At the time of the site visit the ice making system was reported to have been installed in 1972 and was bought second hand. This equipment has an expected useful life of approximately twenty years but can be significantly extended with regular maintenance. A budget allowance for a new ice plant has been included
- There is a noted concern that the brine system has known leaks, predominantly at the return loop end, and that the cold piping is in need of maintenance/repairs
- Cyclical replacement of the Ice Resurfacer can be expected to be required during the evaluation period

25 Year Recap \$1,526,000

**Capital Management Engineering** 

**HRM** Arenas **Briefing Notes** 

© 2012 Capital Management Engineering

# **Devonshire Arena**

3395 Devonshire Avenue Halifax

1972
1
\$1,414,500
44.35%

**Date of Site Assessment:** 07/28/2010

#### **Property Description**

The building is a one storey steel structure containing a partial mezzanine and is assumed and reported to be founded on standard concrete footings and concrete foundation walls. It has been

developed as a single pad ice arena with an ice surface dimension of 179' x 79'. It has small dressing rooms, Zamboni garage but no permanent bleachers or stands. The ice surface is not of a standard regulation size. It was reported that the structure and foundation were originally constructed in 1972. The exterior cladding consists of prefinished insulated metal siding. The roof consists of standing seam metal panels supported by purlins which are in turn supported by the steel superstructure. The area of the building was reported to be approximately 20,120 ft<sup>2</sup>.

Priority repairs were identified with regards to the concrete ice slab including the insitu cooling piping and manifold header as well as the dasher boards. In addition the arena would benefit from the immediate replacement of the ice plant. The metal siding is deteriorating at the base and where fasteners penetrate to the wall behind and should be repaired or preferably replaced. Further study should be conducted for accessibility and barrier free operations.

#### **Major Component Replacement** Category 1 – Site Work

- The building has a gravel parking area that will accommodate approximately 30 vehicles
- The east side of the building is grassed and has approximately 80 feet of chain link • fence running from the south east corner of the building in line with the south elevation to the property line. Cyclical replacement of the fencing is expected

### **Category 2 – Architectural Exterior**

- The exterior cladding consists of prefinished vertical metal siding. The metal siding on all elevations was observed to be in poor to very poor condition and is assumed to be original to the building. There was evidence of corrosion at the bottom of the panels, as well as dents and in some cases perforations along the walls. Replacement is expected
- The main entrance consists of a set of double steel doors, typically of service doors. There are a total of seven secondary metal doors; three double sets and a single door. A segmental garage door is located on the north side of the building and provides access



#### 25 Year Recap \$431,000

\$16.000

25 Year Recap

\$209,000

to the Zamboni garage. The frames are exhibiting signs of corrosion as are the hinges. The entrance and service doors are also generally nearing their end of their useful life

• Overhead door is in fair to good condition. Cyclical replacement is expected during the evaluation period

## Category 3 – Roof

The roof of the building consists of a standing seam metal roof installed in the 1990s. End of useful life replacement is expected to be required

### Category 4 – Structure

- There were a number of very significant cracks in the frost wall. In one area, it appeared that a cold joint had opened up and in another area, in close proximity to the ice plant door, a deep crack was noted
- Slab on grade that is used for the ice surface has significant cracking. The cracks are impacting the ice surface and it was reported that the differential settlement has impacted the insitu cooling pipes. We anticipated a new slab with cooling pipes will be required in the immediate term
- Although the purlins supporting the roof were not accessible during the site visit, there were obvious signs of significant corrosion. It was reported that the building has not always had an operational dehumidifier and the building is known to have had excessive sweating in the past

### **Category 5 – Architectural Interior**

- The building is well maintained with respect to its architectural interior finishes. The walls and accessible structural elements were clean and recently painted
- The rubber mats were in good condition and did not have signs of excessive wear or missing sections. Cyclical replacement is expected during the evaluation period
- The wire mesh that is used to support the roof insulation is corroded. The mesh is • expected to require replacement. The high moisture content that has resulted in the corroding of the purlins and the wire mesh also brings into question the condition of the ceiling insulation

## Category 6 – Mechanical

- Domestic water and sanitary systems are generally original and appeared to be good overall condition, localized repairs as part of O&M expected
- The two domestic hot water heaters are in good condition with no reported problems. • Cyclic replacement of these units as they reach the end of their life cycle
- The washrooms are in good condition. Cyclical replacement in the long term of the • evaluation period expected
- Only the change rooms, operator's office and ancillary rooms are heated. Heating is • accomplished by a Kerr Comet 270 hot water boiler which provides hot water to a combination of finned tube baseboard radiators and fan coil units. The boiler was installed in 1998 and is in fair to good condition. Cyclical replacement expected upon reaching end of useful life
- The fuel oil tank was installed 2006. Cyclical replacement expected

## **Category – 7 Electrical**

#### 25 Year Recap \$133,000

Power is transmitted from pole mounted transformers located outside the building to two main disconnect switches, one ,Cutler Hammer, rated at 200 A, 600 V and one Square D rated at 200 A 120/208V. The Cutler Hammer switchgear was installed within the past 10 years. Replacement of the Square D switchgear is expected

#### 25 Year Recap \$503,000

25 Year Recap

25 Year Recap

#### 70

#### 25 Year Recap \$112.000

\$72,000

The lighting is assumed to have been upgraded as required with the branch wiring assumed to be generally original to the building. We have allowed for the metal halide and fluorescent lighting to be replaced at the end of its useful life

### Category 8 – Life Safety

#### \$23,000 25 Year Recap

- The building is not equipped with a fire alarm panel however smoke alarms are installed in the dressing rooms, equipment rooms and office areas. There are exit lights and battery back-up emergency lighting installed throughout the building. Ongoing cyclical replacement during the evaluation period is expected to be required
- Main entrance and the public washrooms do not have automatic door openers. Cyclical replacements can be anticipated

### Category 9 – Specialty Systems/Equipment

- The dasher boards were in very poor condition. There were sections that had been reinforced with timber and other areas that have had metal reinforcement added. The dashboards are at the end of their life and should be replaced immediately. If replacement is not possible they should be inspected to ensure that they are safe for continued use and do not create potential safety hazards due to uneven surfaces and or potential weak sections
- The Ice Plant is well maintained but the basic framework is a 1972 installation and is in need of replacement. The system is relying on equipment that is difficult to service, and in some cases certain components may not be serviceable. A complete replacement of the plant is expected with additional replacements and or major component replacement expected during the evaluation period
- Cyclical replacement of the Ice Resurfacer is expected to be required

#### 25 Year Recap

#### \$1,605,000



HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

# Sackville Sports Stadium

409 Glendale Drive Lower Sackville

Year of Construction:	1989
Number of Ice Sheets:	2
Defensed Descripted and the second	A740 000
Deferred Recapitalization:	\$716,000

Date of Site Assessment: 09/12/2011

#### **Property Description**

The building consists of a two storey steel framed multi use community facility. It contains offices, fitness facilities, an arena, a curling facility, two indoor pools, a daycare, an education center and



canteen. The building is assumed and reported to be founded on standard concrete footings and concrete foundation walls. It was also reported that the structure and foundation were originally constructed in the early 1989 with an addition completed in the late nineties. The exterior envelope is clad with metal siding. The EPDM roof membrane is supported by metal trusses and the steel superstructure. The reported area of the building is approximately 122,000 ft<sup>2</sup>.

At the time of the assessment the site appeared to be in good overall condition. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. The recommendations made with respect to the capital plan include replacements of asphalt paving, exterior envelope components, interior finishes, HVAC components, and plumbing fixtures and piping. In the pool system, pool tile, pumps, filters and the water slide will require replacement within the term of the evaluation. In the arena system, the ice plant, condensers, headers and piping, dehumidifiers, dasher boards, sound system, scoreboards and time clocks, and ice-resurfacing equipment all require replacement or significant refurbishment.

#### Major Component Replacement Category 1 – Site Work

#### 25 Year Recap \$429,000

- At the time of the site visit it was observed that the asphalt paving was in fair to good condition with a few pot holes, longitudinal cracking and some areas of "alligatoring". It was also observed that some patching had recently been undertaken near the main entrance. Repairs and replacements are expected to be required during the evaluation
- Landscaped areas appear to be in good condition and are not expected to require significant capital expenditure
- The concrete sidewalks along the west elevation were observed to be in good condition with no areas of heaving or settling and only minor areas of damaged. Minor repairs are expected during the evaluation period

25 Year Recap

25 Year Recap

## Category 2 – Architectural Exterior

- The exterior cladding of the building consists of prefinished metal siding on all elevations. The siding appeared to be in fair to good condition with minor corrosion and some dented or damaged panels. There are a few areas of dented and damaged flashings as well as some locations where the drip flashings were damaged or missing
- The two main entrances have aluminum framed and glazed doors and all other doors are metal set in metal frames. In addition there are two overhead doors at the rear of the building
- Cyclical end of life replacement of the metal siding, main entrance doors and overhead doors are expected to be required during the evaluation period

## Category 3 – Roof

- The roof system is a ballasted Ethylene Propylene Diene Monomer (EPDM). Drainage from the EPDM roof system is by internal rainwater leader connected to the storm water system. Approximately 55% of the roof was reported to have been installed in 1989 and the remainder in the late 1990's
- Based on the reported condition and estimated remaining useful life, replacement of the EPDM roof installed in 1989 is expected in the short term with the remainder roofing (1990s section) is expected to be required during the extended term of the evaluation period. Regular roof maintenance is expected to be carried out frequently in order to achieve the expected useful life

## Category 4 – Structure

 No evidence of major structural faults was observed or reported with the building structure. No major repairs or replacement is expected to be required during the term

## Category 5 – Architectural Interior

- There are nine main areas in the building:
  - The arena, consisting of the ice surface, change rooms, bleachers and washrooms and a curling arena including a lounge area
  - A swimming pool area containing two pools and change rooms
  - Two fitness centers, one unisex and the other designated as "female" only
  - $\circ$   $\;$  Two studios used for dance and exercise classes
  - A gymnasium
  - Classrooms, leased to a private educational facility and a daycare
  - Office areas inclusive of physiotherapy clinic
  - A canteen with two leased areas for commercial restaurants
  - An area currently under renovation
- The arenas, other than the ice pads, have rubber flooring and painted plywood or painted block walls. The ceiling in the main arena has low e blankets installed to the underside of the metal roof as does the curling arena. The dressing rooms have painted block walls and the ceilings which are open to the deck above. The lounge area near the curling arena has carpet floors, painted block or drywall walls and the ceiling is open to the deck above. Cyclical replacement of the Interior Finishes in the Arena, Curling Sheet and associated areas are expected to be required during the evaluation period

# 25 Year Recap \$211,000

**\$0** 

## 25 Year Recap \$838,000

\$437.000

#### Category 6 – Mechanical

#### 25 Year Recap \$120,000

- The on-site water main and sanitary sewer were reported to have been installed in 1989. There are two domestic water entrances to the building. No major replacement is expected to be required during the evaluation period
- Domestic hot water is supplied by three indirect fired immersed coil hot water tanks fed from two main boilers. Cyclic replacement is anticipated
- There are in excess of one hundred plumbing fixtures in the facility which include toilets, sinks, urinals, showers and water fountains. Phased replacement is expected to be required during the evaluation period
- Base load heat for the community center is provided by two oil fired boilers connected to hot water baseboard heaters. The boilers also provide heating water for the indirect fired domestic hot water heaters. Heat for the arena dressing rooms is provided by electric unit heaters. In addition there are packaged roof mounted HVAC units which provide limited ventilation, heating and cooling to the building. Refurbishment and eventual replacement upon reaching the end of their typical expected service life is expected to be required during the term
- An Engineered Air, air handling unit (roof mounted) appeared and was reported to be new and in good condition. The expected useful life of this type of unit is approximately thirty five to forty years. It is not expected that this unit will require replacement in the term of this evaluation
- The two large "Modine" propane fired unit heaters located in the curling arena were installed in 1998. End of life replacement is expected to be required during the term

#### Category – 7 Electrical

- Power is transmitted from a pad mounted to two main disconnects rated at 1200A 347/600V. Power is directed the arena equipment, HVAC equipment and to transformers and then secondary breaker panels rated at 120/208V. Cyclical end of life replacement of the switchgear is expected to be required upon reaching the end of their service life
- The rink lighting was reported to be original (1989) and a lighting replacement is anticipated to be required during the term

#### Category 8 – Life Safety

• The building is equipped with an Edwards, EST 2 Fire alarm panel. Emergency lighting is provided by battery back-up wall mounted lighting and illuminated exit signage. Wet and dry pipe sprinkler systems are located throughout the building. Replacement of the fire alarm and emergency/exit lighting is expected during the term. The sprinkler system is not expected to require significant replacement

#### Category 9 – Specialty Systems/Equipment

## 25 Year Recap

25 Year Recap

25 Year Recap

\$734,000

\$132,000

\$20,000

• The facility is equipped with two pools, an arena and a curling sheet

#### Arena Specialty System/Equipment Recapitalization

The hockey arena and curling sheet operate from one refrigeration plant. The plant was
installed by Cimco and consists of three Cimco compressors, a newly installed plate
exchanger that replaced the original shell and tube chiller and two evaporative cooling
towers. Heat recovery was in progress of being installed. There are three "Thermo-Stor"
tanks on site but not completely installed at the time of the site visit. End of life and
cyclical replacements of the cooling towers, compressors and heat recovers storage
tanks are expected

- The brine headers and associated under slab piping was reported to be in good condition with no known leaks or deficiencies. Localized repairs during the evaluation period are expected
- The arena is equipped with dasher boards, glass and protective netting, audio systems, time clock and scoreboard. Cyclical end of life replacement expected to be required during the evaluation period
- The facility is also equipped with an ice resurfacing machine. End of life cyclical replacements are expected during the evaluation period



HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

# **Eastern Shore Community Centre**

67 Park Road Musquodoboit Harbour

Year of Construction:	1972
Number of Ice Sheets:	1
<b>Deferred Recapitalization:</b>	\$413,700
Facility Condition Index:	8.03%

Date of Site Assessment: 02/02/2012

#### **Property Description**

The building is a single storey steel structure with a partial mezzanine and is assumed and reported to be founded on standard concrete footings and concrete foundation walls. It was also reported that

the structure and foundation were originally constructed in 1972 with an addition to the south end of the building completed in 1982. The exterior envelope is predominantly clad with metal siding and brick veneer. The roof consists of standing seam metal panel supported by purlins which are in turn supported by the steel superstructure. The reported area of the building is approximately 32,500 ft<sup>2</sup>.

At the time of the assessment the development appeared to be in fair overall condition as a result of aged infrastructure; however the building appears to be maintained in operable condition. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. Some electrical, mechanical and life safety components are nearing or have reached the end of their useful life and should be upgraded or replaced within the near future. It is further recommended that the ice making equipment be replaced as well as cyclical replacement of the ice resurfacer.

#### Major Component Replacement Category 1 – Site Work

- At the time of the site visit it was observed that the asphalt paving was in good condition and appeared to have been re-surfaced within the last two or three years. Cyclical repair and replacement of the asphalt surfaces is expected to be required during the evaluation period
- Landscaped areas appear to be in good condition and are not expected to require capital expenditure during the evaluation period

### Category 2 – Architectural Exterior

The exterior cladding of the main arena is brick masonry with the addition having brick
masonry to approximately ten feet above finished floor and metal siding to roof line. The
building envelope has no glazing. The brick veneer and metal siding appeared to be in
good condition with localized repointing of the brick and replacement of siding expected
to be required



#### 25 Year Recap \$92,000

\$212,000

25 Year Recap

expected to be required

#### Category 3 – Roof

LONG TERM ARENA STRATEGY

HRM

 At the time of the site visit the roof was not accessible, however it was reported that the roof was installed in 1972 for the main arena and 1982 for the gymnasium and consists of a prefinished metal standing seam roof system

The main entrance consists of two metal doors set in metal frames, of which one is

• Based on the reported condition and estimated remaining useful life, replacement of both of the roofs is expected to be required during the short term of the evaluation period

#### Category 4 – Structure

No evidence of major structural faults was observed or reported with the building • structure

#### Category 5 – Architectural Interior

- Interior finishes in the building appeared to be in generally fair to good condition. The arena floor slab was reported to be in good condition with no cracks and no signs of settlement. End of life replacement and or refurbishment of the interior finishes associated with the arena is expected to be required during the evaluation period
- Rubber mats were in good condition and had been recently replaced. Cyclical replacement is expected during the evaluation period
- Public washrooms were in good condition

#### Category 6 – Mechanical

- Domestic water was reported and observed to be from an on-site well and the sanitary • system is reported to be an on-site septic bed. Within the building, copper domestic water lines feed men's and women's washrooms, two canteen areas, the dressing rooms, two hot water tanks and the flood water system. Wastewater piping is assumed to be PVC or ABS to the septic bed. Two electric domestic hot water heaters provide potable hot water. Localized repairs and replacements are expected to be required during the evaluation period
- The septic system piping could not be observed at the time of the site visit; however the • building operator has reported that it is original to the building and was inspected in 2009 by local authorities. Localized repairs and replacements are expected to be required during the evaluation period
- The domestic hot water tanks will require cyclical replacement during the evaluation • period
- Plumbing fixtures have an expected useful life of approximately thirty years with faucets typically being replaced after twenty years. There are in excess of forty fixtures installed in the building. Costs have been included for a phased replacement
- Heating is accomplished through a combination of electric and hydronic heating. A wood • fired external boiler "Wood Doctor" provides heating hot water and preheats the flood water. Re-claimed heat from the refrigeration cycle associated with the ice plant provides heat water which is used for limited heating of the change rooms. Cyclical end of life replacement is expected to be required

#### Category – 7 Electrical

- 25 Year Recap \$112,000
- Power is transmitted from a pad mounted transformer located outside the building to the • main, CEB, disconnect rated at 400 A, 600 V. Power is supplied to the ice plant and a

\$442,000

\$192.000

\$126,000

#### 25 Year Recap **\$0**

25 Year Recap

25 Year Recap

25 Year Recap

transformer and then to secondary breaker panels rated at 120/208V. The breaker panels service lights and receptacles throughout the building. Cyclical end of life replacement of the main panel is expected to be required

Lighting in the building is a mainly T8 fixtures with some CFL and a few incandescent • flood lights. Cyclical end of life replacement of the T8 fixtures is expected to be required

### Category 8 – Life Safety

#### 25 Year Recap \$122,000

- The building is equipped with an Edwards EST, Fireshield fire alarm panel located near the ice resurfacer room. This panel is connected to smoke detectors throughout the building and reportedly monitored by AEL Ltd. Cyclical end of life replacements are expected to be required
- Emergency lighting is provided by battery back-up wall mounted lighting and illuminated exit signage strategically placed throughout the building. In addition there is a Caterpillar Diesel fired generator mounted externally at the rear of the building. Cyclical end of life replacements are expected to be required

### Category 9 – Specialty Systems/Equipment

- 25 Year Recap \$1,495,000 Dasher boards and the associated protective glazing were reported to be replaced by • section on an as required basis. It was further reported that each year the sections that are considered to be failing are replaced by in-house staff. A complete replacement is expected to be required during the evaluation period
- The ice plant was installed in 1972 and has had frequent maintenance and replacement • of parts. As the plant is over forty years old it is anticipated that a replacement will be required within the short term of this evaluation. A budget allowance for a new ice plant has been included
- The brine piping was reported to have been installed in 1972 and it has reached the end of its useful life. Repairs and localized replacements are expected
- The ice resurfacer appears to be approximately ten years and has an expected useful life of ten to fifteen years. It is anticipated that the ice resurfacer will require cyclical replacement during the term of this evaluation



HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

# Dr. Gerald J. LeBrun Recreation Centre

36 Holland Avenue Bedford

Year of Construction: 1972 / 1982 Number of Ice Sheets: 1 Deferred Recapitalization: \$546,000 Facility Condition Index: 8.32%

#### Date of Site Assessment: 08/27/2010

#### **Property Description**

The building consists of a multi use facility consisting of the arena, community center and the Lion's Den. The arena and community centre was originally constructed in 1972 with the Lion's Den addition reportedly completed in 1982. The arena portion of the building is a single storey pre



engineered structure that is assumed to be founded on standard concrete footings and concrete foundation walls. The community centre section of the building consists of a single story masonry structure assumed to be on standard concrete footings and concrete foundation walls. The Lion's Den addition is a two story pre-engineered steel framed structure also assumed to be founded standard concrete footings and concrete foundation walls. The exterior envelope is clad with vertical metal siding on all elevations with brick veneers on the lower portions of the front elevation of the arena and community centre. Roofing consists prefinished metal roofing on the arena and Lion's Den with a low sloped conventional Built Up Roof (BUR) membrane on the community centre. The total building area was reported to be 41,400 ft<sup>2</sup>.

At the time of the assessment the site appeared to be in fair overall condition with an aged exterior envelope; however the building appears to be well maintained and in operable condition. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. A number of the building components will require replacement during the evaluation period that include but is not limited to the roof, exterior cladding and doors, dasher boards, mechanical and ventilation systems, electrical switchgear and lighting, fire alarm panel and cyclical replacement of the ice resurfacer.

#### Major Component Replacement Category 1 – Site Work 25 Year Recap \$208,000

- Asphalt paving was in fair to poor condition with numerous areas of settlement and alligator/longitudinal cracking as well as evidence of past localized repairs. A complete resurfacing is expected to be required
- Gravel roadway and parking areas appeared to be in fair condition with areas of potholes and eroded material
- Asphalt paved pedestrian walkway and concrete stairwell appeared to be in fair condition with some minor areas of damaged/eroded asphalt noted

- The minimal landscaped areas appear to be in good condition and are not expected to require significant capital expenditure
- Site fencing was observed to vary in condition from poor to good condition, cyclical replacement is expected

#### Category 2 – Architectural Exterior 25 Year Recap \$191,000

- Prefinished metal siding appeared to be in fair overall condition with some localized areas of impact damage and corrosion, cyclical replacement is expected
- Brick veneer cladding is in generally good condition with some areas of impacted damage. Repairs and repointing are expected to be required
- Main doors were in generally good condition, cyclical end of life replacements are expected
- Secondary doors were in fair to poor condition overall with areas of faded finishes, impact damage and evidence of vandalism, cyclical end of life replacements are expected
- Overhead doors varied in condition from fair to poor. Replacement is expected during the evaluation period

#### Category 3 – Roof 25 Year Recap \$386,000

 The metal roof and electrical roof membranes are in poor overall condition with a history of past water ingress and partial repairs/replacements. End of life replacements is anticipated

#### Category 4 – Structure 25 Year Recap \$0

 No evidence of major structural faults was observed or reported with the building structure. No significant repairs or replacement is expected to be required during the evaluation period

#### Category 5 – Architectural Interior 25 Year Recap \$209,000

- Interior finishes in the building appeared to be in generally fair to good condition and recently painted. Cyclical recoating is expected to be required
- Rink floor slab was reported to be in good condition with no cracks and no signs of settlement
- Rubber mats were in good condition and had been recently replaced. Cyclical replacement is expected during the evaluation period
- Public washrooms were in fair to poor condition and do not provide barrier free access

#### Category 6 – Mechanical 25 Year Recap \$209,000

- Domestic water and sanitary systems are generally original and appeared to be good overall condition, localized repairs expected
- Washroom and shower fixtures in the arena appeared to be in generally poor condition. Upgrades and replacements are expected
- Electric domestic hot water tanks will require cyclic replacement
- Electric unit and baseboard heater replacement to be completed as part of operations and maintenance budgets
- Heating for the bleachers consists of two coin operated propane fired radiant tube heaters, cyclical replacement is expected

#### Category – 7 Electrical 25 Year Recap \$267,000

• Main disconnect rated at 1200A, 347/600V, manufactured by Cutler Hammer. Secondary 600V switchgear provides power to the plant equipment, unit heaters and

building lighting. A 150kVa transformer provides 120/208V power. Electrical equipment was installed in 1996 and no significant replacement is expected

- T12 lighting is expected to require replacement
- Over ice Mercury Vapour (MV) was installed in 1996. Cyclical replacement is expected

#### Category 8 – Life Safety 25 Year Recap \$119,000

- Mircom multi zone fire alarm panel (model # FA-300 Series) was installed in 2008 and will require end of life replacement
- Building is not provided with a sprinkler system
- Main entrance and the public washrooms have automatic door openers. Cyclical replacement is anticipated

#### Category 9 – Specialty Systems/Equipment 25 Year Recap \$971,000

- The dasher boards appeared to be in fair condition with no indications of significant damage to the boards or hardware and were installed between 1983 and 1985. End of life replacement is expected to be required
- Heating for flood water and dressing rooms is provided by Slant/Fin oil fired boiler (2010). Cyclical replacement can be expected during the evaluation period
- Fuel oil is provided by a single walled fuel oil tank (2002). Cyclical replacements at approximately ten year intervals can be expected during the evaluation period
- Flood water tanks were in good to new condition (2010). Cyclical end of useful life replacements can be expected during the evaluation period
- Ice making plant infrastructure appeared to be in fair condition and was reported to be very well maintained by the onsite staff and upgrades and replacements have been proactively completed
- Shell and Tube exchanger (1985) is nearing the end of its expected useful life. Cyclical replacement should be expected during the evaluation period
- Frick cooling tower installed in 2007/2008. End of useful life replacement is expected to be required during the evaluation period
- One compressor installed in 2008 with the second reported to be original to building. End of useful life replacement is expected to be required
- Brine header and associated under slab piping reported to be in good condition, localized repairs expected to be required
- Cyclical replacement of the dehumidification equipment as they reach the end of their useful life will be required
- Cyclical end of useful life replacements of the Ice resurfacer (Olympia)can be expected during the evaluation period

11



HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

# Gray Memorial Arena

10 Monique Avenue Dartmouth

Year of Construction:	1972
Number of Ice Sheets:	1
<b>Deferred Recapitalization:</b>	\$259,000
Facility Condition Index:	5.88%

#### Date of Site Assessment: 08/26/2010

#### **Property Description**

The building is a one storey steel structure containing two mezzanines and is assumed to be founded on standard concrete footings and concrete



At the time of the assessment the site appeared to be in fair overall condition with aged exterior envelope infrastructure; however the building appears to be very well maintained in operable condition. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. A number of the building components will require replacement during the evaluation period that include but is not limited to the roof, exterior cladding and doors, dasher boards, mechanical and ventilation systems, electrical switchgear, fire alarm panel, localized sprinkler piping replacement and cyclical replacement of the ice resurfacer.

#### **Major Component Replacement**

#### Category 1 – Site Work

- Asphalt paving was in fair to poor condition.
- Secondary asphalt paved roadway in good condition.
- Site fencing was observed to vary in condition from poor to good condition
- Landscaped areas appear to be in good condition
- Cyclical replacement of the asphalt paving, secondary roadway and site fencing is expected to be required during the evaluation period

#### Category 2 – Architectural Exterior

Prefinished metal siding on the main arena is in fair overall condition with some localized areas of impact damage and corrosion. Replacement is expected

## 25 Year Recap

\$121,000



#### 25 Year Recap \$315,000

•

- Metal siding on the addition is in good condition with some minor areas of impact
- damage noted on the east side of the addition Brick veneer cladding is in generally good condition
- Vertical wood siding is in fair to poor condition with faded finishes and deterioration of the wood. Replacement is required
- Main and secondary/exit doors were in generally good condition. Cyclical replacement can be expected
- Overhead doors were in fair to poor condition. Replacement and future cyclical replacement is expected during the evaluation period

### Category 3 – Roof

- The metal roof membrane is in poor overall condition with a history of past and active • water ingress. Replacement is expected
- The addition metal roof membrane is in good condition with no reported areas of damage or water ingress. End of life replacement is expected in the last year of the evaluation period

#### Category 4 – Structure

 No evidence of major structural faults was observed or reported with the building structure

#### Category 5 – Architectural Interior

- Interior finishes in the building appeared to be in generally fair to good condition, with recent painting of the walls and accessible structural elements. Cyclical recoating of the painted finishes is assumed to be completed as part of O&M
- Rink floor slab was reported to be in good condition with no cracks and no signs of settlement
- Rubber mats were in good condition and had been recently replaced. Cyclical • replacement is expected during the evaluation period

#### Category 6 – Mechanical

- Domestic water and sanitary systems are generally original and appeared to be good overall condition, localized repairs expected
- Water closets, urinals and sinks have been generally upgraded with more efficient fixtures
- Electric domestic hot water tanks will require cyclic replacement
- Showers were in good condition and are equipped push button flow regulators
- Electric unit and baseboard heater replacement to be completed as part of operations and maintenance budgets
- Heating for the dressing rooms is by a Burnham oil fired boiler and in floor radiant heat. Fuel oil is provided by a Roth dual walled fuel oil tank. End of life replacement of the boiler and fuel tank is expected
- Heating for the bleachers consists of two coin operated propane fired radiant tube heaters. Cyclical replacement is expected

#### **Category – 7 Electrical**

#### 25 Year Recap \$154.000

- Main disconnect rated at 400 A, 600 V and was manufactured by Federal Pioneer. End of life replacement is expected
- Localized replacement of branch wiring as part of O&M budgets

#### 25 Year Recap **\$0**

25 Year Recap

25 Year Recap

# 25 Year Recap

\$250,000

\$99.000

\$48.000

• The majority of the interior lighting was replaced in 2009 with energy efficient T8 fixtures, cyclical replacement is expected

### Category 8 – Life Safety

### 25 Year Recap \$34,000

- Fire alarm panel was installed within the past five to ten years and will require cyclical replacement
- Dry sprinkler system will require localized piping replacements. Sprinkler heads replaced in 2009. Repairs and replacements are expected to be required
- Decommissioned wet agent fire suppression in the kitchen area
- Main entrance and the public washrooms do not have automatic door openers

### Category 9 – Specialty Systems/Equipment

#### 25 Year Recap \$936,000

- The dasher boards appeared to be in fair condition with no indications of significant damage to the boards or hardware although they are original to the building. Replacement is expected to be required
- Flood water boiler and fuel tank will require cyclical replacement at end of useful life
- Flood water tanks were in good overall condition, cyclical replacement expected
- Ice making plant infrastructure appears and was reported to be very well maintained by the onsite staff and upgrades and replacements have been proactively completed
- Plate exchanger complete with ammonia based coolant (2002) replaced original shell and tube exchanger
- Cooling tower (2002), will require cyclical replacement during the term
- Compressors are original and are expected to require cyclical replacement
- Brine header and associated under slab piping reported to be in good condition, localized repairs expected to be required
- Cyclical replacement of the dehumidification equipment as they reach the end of their useful life will be required
- Cyclical replacement of the Ice Resurfacer (Zamboni Model #440)

**Capital Management Engineering** 

HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

# **Bowles Arena**

15 Ragus Road Dartmouth

Year of Construction:	1972
Number of Ice Sheets:	1
<b>Deferred Recapitalization:</b>	\$310,000
Facility Condition Index:	7.17%

#### Date of Site Assessment: 08/26/2010

#### **Property Description**

The building is a one storey steel structure containing two mezzanines and is assumed to be founded on standard concrete footings and concrete

foundation walls. It was reported that the structure and foundation were originally constructed circa 1972. The exterior envelope is clad with metal siding. The roof consists of standing seam metal panel supported by purlins which are in turn supported by the steel superstructure. The reported area of the building is approximately 27,300 ft<sup>2</sup>. Landscaped areas associated with the property are mainly grassed and front onto Ragus Road and Acadia Street. A rock swale is located to the north and east of the site building with a treed area on the north side of the property.

At the time of the assessment the site appeared to be in fair overall condition with aged exterior envelope infrastructure; however the building appears to be well maintained in operable condition. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. A number of the building components will require replacement during the evaluation period that include but is not limited to the roof, exterior cladding and doors, dasher boards, mechanical and ventilation systems, electrical switchgear and lighting, fire alarm panel and sprinkler piping/heads and cyclical replacement of the ice resurfacer.

#### Major Component Replacement

#### Category 1 – Site Work

- Asphalt paving was in good to new condition. Cyclical replacements and repairs can be expected during the evaluation period
- Exterior fenced storage area aged and in fair condition. Replacement is expected
- Landscaped areas appear to be in good condition

#### Category 2 – Architectural Exterior

- The prefinished metal siding in fair condition with localized areas of damage and corrosion on the west and north elevations. End of life replacement expected
- Main and secondary/exit doors appeared to be in good condition. End of life replacement

#### 25 Year Recap \$83,000



### 25 Year Recap \$180,000

### Category 3 – Roof

• The metal roof membrane in poor overall condition with a history of past and active water ingress. End of life replacement is expected to be required

### Category 4 – Structure

• No evidence of major structural faults was observed or reported with the building structure

### **Category 5 – Architectural Interior**

- Interior finishes in the building appeared to be in generally fair to good condition
- Rink floor slab was reported to be in good condition with no cracks and no signs of settlement

### Category 6 – Mechanical

- Domestic water and sanitary systems are generally original and appeared to be good overall condition, localized repairs expected
- Water closets, urinals and sinks have been generally upgraded with more efficient fixtures
- Electric domestic hot water tanks will require cyclic replacement
- Electric unit and baseboard heater replacement to be completed as part of operations and maintenance budgets

### **Category – 7 Electrical**

- Main disconnect rated at 400 A, 600 V and was manufactured by Federal Pioneer and a partial replacement is expected
- The majority of the interior lighting was replaced in 2009 with energy efficient T8 fixtures, cyclical replacement is expected

### Category 8 – Life Safety

- Five zone Mircom fire alarm panel was installed within the past ten years and will require • cyclical replacement
- Dry sprinkler system will require localized replacements •
- Main entrance and the public washrooms automatic door openers, cyclical replacement is expected to be required

### Category 9 – Specialty Systems/Equipment

- Dasher boards appeared to be in good condition with no indications of significant damage to the boards or hardware. Replacement is expected to be required
- Flood water boiler installed in 2010, cyclical replacement at end of useful life
- Flood water tanks in fair overall condition, cyclical replacement expected
- Fuel oil storage in fair to good condition and is approximately seven years in age with cyclical replacements at ten year intervals expected
- Ice making plant infrastructure appears and was reported to be very well maintained by the onsite staff and upgrades and replacements have been proactively completed
- Cooling tower will require replacement in the short term with the compressors requiring • replacement in the long term. Additional cyclical replacement of motors should be expected in the extended term of the evaluation period
- Brine header and associated under slab piping reported to be in good condition, • localized repairs expected to be required

#### 25 Year Recap \$252.000

#### 25 Year Recap \$96.000

\$62.000

\$89,000

#### 25 Year Recap \$149,000

#### 25 Year Recap \$1,033,000

#### **\$0** 25 Year Recap

25 Year Recap

25 Year Recap

- Cyclical replacement of the dehumidification equipment as they reach the end of their useful life will be required
- Cyclical replacement of the Ice Resurfacer is expected to be required

**Capital Management Engineering** 

HRM Arenas Briefing Notes

© 2012 Capital Management Engineering

# **Centennial Arena**

27 Vimy Avenue Halifax

Year of Construction:	1967
Number of Ice Sheets:	1
<b>Deferred Recapitalization:</b>	\$133,075
Facility Condition Index:	3.00%

#### Date of Site Assessment: 08/26/2010

#### **Property Description**

The building is a one storey steel structure containing two mezzanines and is assumed to be founded on standard concrete footings and concrete foundation walls. It was reported that the arena was

originally constructed in 1967. Although not reported, the main entrance vestibule potentially may have been a later addition to the base building. No significant additions to the base building since the original construction. The exterior envelope of the building is predominately clad with metal siding with the entrance vestibule clad with architectural concrete block. The roof consists of standing seam metal panel supported by purlins which are in turn supported by the steel superstructure. The reported area of the building is approximately 28,000 ft<sup>2</sup>. Landscaping is limited to grassed and shrubs/trees on the north and west sides of the property. In addition a treed area is located adjacent to the north side of the building. This area does not appear to be maintained.

At the time of the assessment the site appeared to be in fair overall condition with aged exterior envelope infrastructure; however the building appears to be very well maintained in operable condition. The structural components of the building appeared to be in good condition with no structural deficiencies observed or reported. A number of the building components will require replacement during the evaluation period that include but is not limited to the roof, doors, dasher boards, mechanical and ventilation systems, localized sprinkler piping replacement and cyclical replacement of the ice resurfacer.

## Major Component Replacement

#### Category 1 – Site Work

- 25 Year Recap \$169,000
- Asphalt paving was in fair to poor condition with numerous areas of settlement and alligator/longitudinal cracking as well as evidence of past localized repairs. A complete resurfacing is expected to be required
- Asphalt paved roadway appeared to be in fair to poor condition with evidence of ongoing repairs, deterioration and settlement. Replacement/resurfacing is expected
- Site fencing was observed to be in generally good condition with no reported or observed areas of damage or significant deterioration. End of life replacements expected
- The minimal landscaped areas appear to be in good condition and are not expected to require significant capital expenditure



### Category 2 – Architectural Exterior

- Exterior cladding predominately consists of prefinished vertical metal panels with the main entrance cladding consisting of a combination of prefinished vertical metal panels and concrete block. Replacement of the metal cladding is expected
- Main doors were in generally good condition, cyclical end of life replacements are • expected
- Secondary and service doors were in fair to poor condition overall with areas of faded finishes, impact damage and evidence of vandalism cyclical end of life replacements are expected
- Overhead door was noted to be in good condition. End of life replacement is expected during the evaluation period
- The secondary entrance concrete stairwells were in poor condition with areas of cracking • and spalling concrete, potentially resulting in possible trip hazards

#### Category 3 – Roof

- Roofing for the base building consists of prefinished standing seam metal roof that is original to the building (1967). Replacement is expected
- Main entrance roofing consists of a low sloped roof membrane consisting of an ethylene • propylene diene monomer (EPDM) membrane that is in good condition. End of life replacement is expected

#### **Category 4 – Structure**

No evidence of major structural faults was observed or reported with the building structure

#### Category 5 – Architectural Interior

- Interior finishes in the building appeared to be in generally fair to good condition and recently painted. Ongoing painting as part of O&M is expected
- Rink floor slab was reported to be in good condition with no cracks and no signs of • settlement. Replacement or major repair is not expected to be required
- Rubber mats were in good condition and had been recently replaced. Cyclical • replacement is expected during the evaluation period
- Reflective ceilings were reported to have been installed in 1992 and appeared to be in • fair overall condition although are nearing the end of their useful life. End of life replacement is expected
- Bleachers appeared to be in good condition and have been recently painted. Ongoing • painting and minor repairs/replacements are expected, as part of O&M is expected
- Mezzanine finishes appeared to be in generally fair overall condition with end of life • replacement of the finishes expected to be required
- The public washrooms and the locker room washroom/shower finishes were in good • condition with no significant deficiencies. The locker room washroom/showers were renovated in 2003/2003. No significant replacement is expected to be required during the evaluation period
- The main entrance is provided with automatic door openers. Cyclical replacement of the • openers is expected
- Public washrooms do not provide barrier free access

#### Category 6 – Mechanical

- 25 Year Recap \$52,000
- Domestic water and sanitary systems are generally original and appeared to be good • overall condition, localized repairs expected during the evaluation period
- Washroom and shower fixtures in the arena appeared to be in generally good condition. • No significant replacement is expected to be required during the evaluation period

#### 25 Year Recap \$149.000

**10 YEAR CAPITAL ACTION PLAN** 

**40+ YEARS OF CITIZEN BENEFIT** 

#### \$267,000 25 Year Recap

#### 25 Year Recap **\$0**

#### 25 Year Recap \$222,000
- Electric domestic hot water tank will require cyclic replacement (public washrooms) at approximately ten year intervals
- Flood water, hot water heating and domestic hot water for the locker rooms #1-4 is provided by the Burnham oil fired boiler and two indirect fired SuperStor hot water tanks. End of life replacement of the boiler and tanks is expected to be required

#### **Category – 7 Electrical**

- There are two electrical feeds for the building. The main electrical switchgear is located in the mechanical room and consists of a 400A/600V main switch that was manufactured by Cutler Hammer. The second electrical feed supplies a 100A/240V panel located in the Zamboni Room and was manufactured by Square D. The panels are in good condition and were upgraded in 2009 and 2004 respectively. No significant replacement is expected
- The T12 and over ice metal halide fixtures are expected to require cyclical replacement

### Category 8 – Life Safety

- Fire suppression is provided by a dry pipe sprinkler covering all areas of the building. Pull stations and alarm bells were noted throughout the building
- Repairs and replacements of the sprinkler piping, emergency lighting and battery backup are expected during the evaluation period.
- Main entrance is provided with automatic door openers, as noted above, cyclical replacement is expected to be required during the evaluation period

#### Category 9 – Specialty Systems/Equipment

- 25 Year Recap The dasher boards appeared to be in fair condition with no indications of significant damage to the boards or hardware and were installed between 2001. End of life replacement is expected to be required
- Heating for flood water and dressing rooms is provided by Burnham oil fired boiler and two indirect fired SuperStor hot water tanks. Cyclical replacement can be expected during the evaluation period
- Ice making plant infrastructure appeared to be in good condition with many of the plant components having been recently replaced and or upgraded
- Chiller was replaced in 2009, both compressors have been replaced since 2008 • including motors and controls and the condenser was replaced in 2009. Replacement is not expected to be required for fifteen or more years
- The brine header and associated under slab piping was reported to be in good condition • with new hose connections recently installed. Localized repairs and replacements are expected
- One of the dehumidifiers was reported to have been replaced in 2009 with the remaining • two humidifiers being greater than ten years in age. Cyclical replacement at approximately twenty year intervals is expected
- The arena is provided with two Olympia ice resurfacers. It was reported that one of the • units was purchased in 2006 with the second unit purchased in 1998 and is used only as a spare. Cyclical replacement of the primary ice resurfacer is expected

\$941,000

#### 25 Year Recap \$25,000

#### **10 YEAR CAPITAL ACTION PLAN 40+ YEARS OF CITIZEN BENEFIT**

#### 25 Year Recap \$61.000

This page is blank on purpose

## **APPENDIX B**

2001 Arena Capacity Study - Update 01/29/09, Catherine Oliver

This page is blank on purpose

## HRM 2001 Arena Capacity Study Update January 20, 2009 Prepared by Catherine E. Oliver

C.E. Oliver 1/21/09

## **Executive Summary**

- The Update mirrors the 2001 Study and is based on Minor Hockey Areas as Minor Hockey is the single largest organized user of ice time in HRM. Data updated includes population, demographics, growth projections and minor sport registrations.
- Minor Hockey's Market Capture Rate (percentage of children ages 5 14 playing) increased in all areas of HRM between 2000/01 and 2007/08. 47% of the increase was due to rapidly increasing participation by girls.
- Primary Target Market Population for minor sport (ages 5 14) decreased in all areas of HRM except TASA (Timberlea Amateur Sports Association) between the 2001 and 2006 Census.
- Total number of children registered in Minor Hockey increased in all areas except Sackville between 2000/01 and 2007/08. Ringette registrations also increased while Figure Skating decreased.
- The number and percentage of children in the 0 4 age group (indication of future demand) decreased in all areas between 2001 and 2006, however individual communities showed increases. These included: Hammonds Plains (115), Clayton Park( 85), Sackville North (60) and Dartmouth South (44), all of which have experienced subdivision development.
- The Halifax Regional School Board has undertaken a detailed review of demographics as part of the Imagine Our Schools planning process. While the overall population in HRM is projected to increase 32,658 by 2021, the population of children is projected to decrease by 11,715. Despite projected developments at Russell Lake and Morris Lake, 59% of this decline (6,910) is attributed to the Eastern Central Planning Area (Dartmouth, Eastern Passage, Cole Harbour and the Prestons).
- Population growth projections and historical use patterns from similar developments indicate that the projected developments in Kearney Lake North, Bedford South, Bedford West and the nearby area of Clayton Park, totalling close to 31,000, should generate significant demand for ice activities, which, coupled with existing demand, support the original recommendation of Bedford for additional ice surface development. Of the potential sites currently under consideration for ice surface development, the Bedford West site on Hammonds Plains near the 102 Highway is the closest to the majority of these population areas.

## 1.0 Introduction

The 2001 Arena Capacity Study identified Bedford as a high priority location for future ice surface development. This update was commissioned to determine if any significant factors had arisen in the last eight years that would alter this recommendation.

## 2.0 Methodology

The update reviewed changes in ice surface supply, minor sport registrations, ice demand, demographics and projected population growth. No research was conducted directly with individual user groups, although provincial minor sport organizations were contacted. The original study used Minor Hockey areas as the basis for assessing demand/supply issues since Minor Hockey has traditionally been the single largest organized user of ice time. The update followed the same protocol. The updated information is presented in Tables that in most cases correspond to the original study and have been numbered accordingly with R indicating revised information. Additional information is provided in supplemental Tables designated S.

The data upon which this update is based should be viewed as having varying degrees of reliability. Community Counts/Canada Census data and Minor Sport registrations would be considered the most reliable as they are actual results, while growth projections and demographic forecasts would be relatively less reliable.

## 3.0 Findings

### 3.1 Ice Surface Supply

Three significant events have occurred since 2001. As recommended in the 2001 Study, a second ice surface opened at the St. Margaret's Centre in the Fall of 2005. However the ice surface at the Akerley NSCC closed in the spring of 2007. This effectively reduced the number of ice surfaces to the 2001 level of 21. A review of the overall ice supply conducted in 2006/07 by HRM staff indicated that there were a total of 80.5 unused hours in Prime Time, the majority of which were between 10:00 PM and Midnight. When Akerley closed, HRM moved all adult rentals in the HRM operated arenas into late evening hours in an effort to accommodate the needs of Minor Sport.

An ice surface is currently under construction on the Bedford Common (Rocky Lake) Once in operation this facility will bring the ice supply back up to the minimum level recommended in the 2001 Study. However it is unlikely that it will be able to address the additional current ice demand identified in the Community Facility Master Plan of 2008 or potential future ice demand from proposed developments.

### 3.2 Minor Sport

#### 3.2.1 Minor Hockey

Total registrations for the 8 Minor Hockey associations in HRM increased 13.4% between 2000/01 and 2007/08. This was greater than the Province as a whole at 6.3%. Additional analysis indicated that female participation had increased 92.1% from 379 in 00/01 to 728 in 07/08. The province as a whole saw an increase of 63% in female participation from 1,372 to 2,237. However HRM still lags behind the province in terms of the % of females of total registrations at 11.7% as compared to the province with 13.3%.

According to Hockey Nova Scotia, the 11.7% increase in players in HRM is being accommodated in a static ice supply by reducing the amount of ice time per player and by decreasing the length of games. Although the number of girls playing hockey has increased, lack of access for females is still a major issue.

			2000/01			:	2007/08			Var 08/00				
										Total	М		F	
	Total	М	F	% F	Total	М	F	% F	Act	%	Act	%	Act	%
Eastern Shore	267	258	9	3.4%	346	297	49	14.2%	79	29.6%	39	15.1%	40	444.4%
Cole Harbour	806	688	118	14.6%	848	713	135	15.9%	42	5.2%	25	3.6%	17	14.4%
Dart Whalers	938	886	52	5.5%	990	856	134	13.5%	52	5.5%	-30	-3.4%	82	157.7%
Dartmouth Total	2,011	1,832	179	8.9%	2,184	1,866	318	14.6%	173	8.6%	34	1.9%	139	77.7%
Sackville	812	759	53	6.5%	792	734	58	7.3%	-20	-2.5%	-25	-3.3%	5	9.4%
Bedford & District	809	780	29	3.6%	887	798	89	10.0%	78	9.6%	18	2.3%	60	206.9%
TASA	531	520	11	2.1%	854	781	73	8.5%	323	60.8%	261	50.2%	62	563.6%
Halifax Hawks	819	771	48	5.9%	978	828	150	15.3%	159	19.4%	57	7.4%	102	212.5%
Chebucto	484	425	59	12.2%	506	466	40	7.9%	22	4.5%	41	9.6%	-19	-32.2%
Halifax Total	3,455	3,255	200	5.8%	4,017	3,607	410	10.2%	562	16.3%	352	10.8%	210	105.0%
Total HRM	5,466	5,087	379	6.9%	6,201	5,473	728	11.7%	735	13.4%	386	7.6%	349	92.1%
Province	15,861	14,489	1,372	8.7%	16,854	14,617	2,237	13.3%	993	6.3%	128	0.9%	865	63.0%

### **Akerley Impact**

2006/07 registration information was compared with 2007/08 in an attempt to assess the impact of the closure of the Akerley rink. See Table 4S on the following page. While total registrations decreased by 9, Males decreased by 68 and Females increased by 59. A similar trend (total registrations about the same with decreasing Males and increasing Females) appears in the Province as a whole.

Of the 8 associations, 5 recorded losses while 3 gained. The increase of 71 for TASA could be attributed to the continuing development of the market as a result of the new ice surface in St. Margaret's and continued population increases, however the underlying reasons for increases in Halifax and Cole Harbour were not readily evident.

After Akerley closed, Bedford recorded the largest decrease with 67 fewer players. This appeared to be excessive given that a review of Akerley ice rentals indicated only 6 hours of rentals per week for that association, all or almost all of which were replaced in other facilities. A detailed review of Bedford registration information indicated that the majority of the decrease was in IP (Introductory Program) males. Decreases for the other associations appeared to be spread more evenly across the divisions. Registrations in Dartmouth, the area that would presumably have been most heavily impacted by the Akerley closure, decreased by 40 with 69 fewer males and 29 more females.

Since Minor Hockey registrations tend to fluctuate from year to year, no definite Akerley impact could be identified.

Fig. 1R on the following page provides a graphic comparison of registrations from 2000-2008. The only Minor Hockey group that recorded consistent increases was TASA.

					Table 4S N	Akerely I								
			2006/07				2007/08		Variance					
									· ·	Total	М		F	
	Total	М	F	% F	Total	М	F	% F	Act	%	Act	%	Act	%
Eastern Shore	371	295	76	20.5%	346	297	49	14.2%	-25	-6.7%	2	0.7%	-27	-35.5%
Cole Harbour	815	695	120	14.7%	848	713	135	15.9%	33	4.0%	18	2.6%	15	12.5%
Dart Whalers	1,030	925	105	10.2%	990	856	134	13.5%	-40	-3.9%	-69	-7.5%	29	27.6%
Dartmouth Total	2,216	1,915	301	13.6%	2,184	1,866	318	14.6%	-32	-1.4%	-49	-2.6%	17	5.6%
Sackville	808	750	58	7.2%	792	734	58	7.3%	-16	-2.0%	-16	-2.1%	0	0.0%
Bedford & District	954	857	97	10.2%	887	798	89	10.0%	-67	-7.0%	-59	-6.9%	-8	-8.2%
TASA	783	717	66	8.4%	854	781	73	8.5%	71	9.1%	64	8.9%	7	10.6%
Halifax Hawks	921	808	113	12.3%	978	828	150	15.3%	57	6.2%	20	2.5%	37	32.7%
Chebucto	528	494	34	6.4%	506	466	40	7.9%	-22	-4.2%	-28	-5.7%	6	17.6%
Halifax Total	3,994	3,626	368	9.2%	4,017	3,607	410	10.2%	23	0.6%	-19	-0.5%	42	11.4%
Total HRM	6,210	5,541	669	10.8%	6,201	5,473	728	11.7%	-9	-0.1%	-68	-1.2%	59	8.8%
Province	16,849	14,685	2,164	12.8%	16,854	14,617	2,237	13.3%	5	0.0%	-68	-0.5%	73	3.4%



#### 3.2.2 Figure Skating

Figure Skating and Ringette registration information is contained in Table 5R. Figure Skating registration for the Province as a whole declined by 14% between 2000/01 and 2007/08. About 39% of the total for the Province was based in HRM. A severe lack of ice was the primary factor influencing Figure Skating participation according to the Skate Canada Nova Scotia.

#### 3.2.3 Ringette

Ringette registrations have increased by 6.8% between 2000/01 and 2007/08. Ringette is basically centered in HRM and lack of ice time is a significant limiting factor in the growth and development of the sport. Some current participants travel as far as Oxford to access ice and teams are being forced to share ice time with as many as three on ice at the same time for practices. An officials training session has been delayed indefinitely due to a lack of ice.

	96/97	99/00	2007/08		HRM	Var 00/08	
Figure Skating			Total	HRM	% of total	actual	%
CanSkaters	3,791	3,549	2,858	1,121	39.2%	(691)	-19%
CanPower Skaters	14	15	209	120	57.4%	194	1293%
Test Skaters	587	720				(720)	-100%
Star Skate			632	205	32.4%	632	
Competitive Skaters	99	104	91	23	25.3%	(13)	-13%
Synchronized Skaters	31	37	8	2	25.0%	(29)	-78%
Total Province	4,522	4,425	3,798	1,471	38.7%	(627)	-14%

## 3.3 Catchment Demographics

The 2001 report used 1996 demographic information as the 2001 information was not available and no reliable projections were available.

2001 and 2006 information was used to update Tables 6 and 7 to provide a clearer picture of the basis for the 2001 demand levels and subsequent changes. The 1996 information used in the original report was based on Planning Areas and, as noted in the report, was not directly related to the Minor Hockey boundaries. Similarly the 2001 and 2006 information cannot be directly related to Minor Hockey boundaries although changes in tabulation methods provide a much better approximation. The area with the greatest potential variance is Bedford as the boundaries of the Minor Hockey association encompass about a third of the geographic population area of Hammonds Plains. With no real way to ascertain how much of the Hammonds Plains population falls within the Bedford and District Minor Hockey boundaries, the decision was made to include Hammonds Plains with TASA based on the geographic area.

#### 3.3.1 Total Population

A review of total population for 2001 and 2006 indicated that three of the eight minor hockey areas exceeded the 3.5% increase in HRM as a whole while two recorded basically static populations. Those exceeding were Bedford, TASA and Eastern Shore. Relatively static areas were Sackville and Dartmouth. The remainder were close to the overall HRM result. Table 6R on the following page provides a detailed review of the gains and losses in each of the communities within the 8 areas.

				000/01	
	2001	2006	Variance 2 Actual	006/01 %	Gain/Loss % of HRM Total
Eastern Shore	23,820	24,959	1,139	4.8%	9.0%
Chezzetcook	3,760	4,044	284	7.6%	
Jeddore	1,430	1,525	95	6.6%	
Lake Echo	3,074	2,913	(161)	-5.2%	
Lawrencetown	4,977	5,385	408	8.2%	
Middle Mus	2,099	2,175	76	3.6%	
Musquodoboit Harbour	1,995	2,136	141	7.1%	
Porter's Lake	2,634	2,956	322	12.2%	
Sheet Harbour	1,752	1,684	(68)	-3.9%	
Ship Harbour	2,099	2,141	42	2.0%	
Cole Harbour District	27,625	28,294	669	2.4%	5.3%
Cole Harbour	25,200	25,934	734	2.9%	
Preston	2,425	2,360	(65)	-2.7%	
Dartmouth Whalers	76,472	76,352	(120)	-0.2%	-1.0%
Dartmouth	66,134	65,335	(799)	-1.2%	
Dartmouth East	25,081	22,240	(2,841)	-11.3%	
Dartmouth N	20,104	18,354	(1,750)	-8.7%	
Dartmouth S	20,949	24,741	3,792	18.1%	
Eastern Passge	10,338	11,017	679	6.6%	
Sackville	38,417	38,512	95	0.2%	0.8%
Beaver Bank	6,072	6,025	(47)	-0.8%	
Sackville N	4,060	4,985	925	22.8%	
Sackville S	28,285	27,502	(783)	-2.8%	
Bedford & District	27,398	29,204	1,806	6.6%	14.3%
Bedford	15,954	16,589	635	4.0%	
Waverly/Fall R	11,444	12,615	1,171	10.2%	
Fall River	9,111	10,251	1,140	12.5%	
Waverly	2,333	2,364	31	1.3%	
TASA	36,454	41,328	4,874	13.4%	38.7%
Hammonds Plains	7,907	10,295	2,388	30.2%	
Hubbards	2,055	2,096	41	2.0%	
Hackett's Cove	1,651	1,686	35	2.1%	
Hatchet Lake	2,864	2,877	13	0.5%	
Peggy's Cove	698	679	(19)	-2.7%	
Prospect	3,218	3,169	(49)	-1.5%	
St Margaret's Bay	2,148	2,326	178	8.3%	
Tantallon	6,696	8,062	1,366	20.4%	
Terrence Bay	1,076	1,049	(27)	-2.5%	
Timberlea	8,141	9,089	948	11.6%	
Halifax Hawks	99,556	102,833	3,277	3.3%	26.0%
Clayton Park	26,013	30,911	4,898	18.8%	
Fairview	14,997	14,478	(519)	-3.5%	
Halifax Chebucto	19,062	18,509	(553)	-2.9%	
Halifax Citadel	19,400	19,114	(286)	-1.5%	
Halifax Needham	20,084	19,821	(263)	-1.3%	
Chebucto	26,064	26,920	856	3.3%	6.8%
Armdale NW Arm	9,018	9,773	755	8.4%	0.070
Herring Cove	2,738	2,790		8.4% 1.9%	
Sambro	3,722	2,790	52 53	1.9%	
Spryfield	10,586	10,582	(4)	0.0%	
op. filola	10,000	10,002	(-)	0.070	
Total HRM	355,806	368,402	12,596	3.5%	100%

#### 3.3.2 Age Groups

Population by major age groups is provided in Table 7R for 2006 and in Table 7S for 2001. 2001 represents the situation as it existed when the original study was conducted. The 2006 information coupled with growth projections (see Section 3.4 page 12) can provide an indication of areas of future demand for ice services in HRM.

A comparison between 2001 and 2006 reflects a general aging of the population with all of the areas recording lower percentages of children in the 0 - 4 age group (Fig. A page 11). The area with the highest percentage of young children is still TASA at 6.5% although it lost a full percentage point since 2001.

			Table 7R A Source		y Counts/C	-			
Actual	East Sh	Cole Hrb	Dartmouth	Sackville	Bedford	TASA	Halifax	Chebucto	Total
0 - 4	1,194	1,405	3,919	2,207	1,458	2,702	3,781	1,275	17,941
5 to 14	3,087	4,022	8,373	5,274	4,051	5,984	7,741	2,952	41,484
15 <del>-</del> 19	1,739	2,408	4,875	2,954	2,266	2,820	5,288	1,707	24,057
20 to 34	3,845	4,827	15,117	7,228	4,444	6,597	32,404	4,780	79,242
35 to 54	8,631	9,888	24,892	13,065	10,310	15,267	27,447	8,888	118,388
55-69	4,363	4,327	11,627	6,055	4,613	5,803	14,488	4,427	55,703
70+	2,074	1,412	7,435	1,748	2,031	2,149	11,555	2,835	31,239
Total	24,933	28,289	76,238	38,531	29,173	41,322	102,704	26,864	368,054
%	East Sh	Cole Hrb	Dartmouth	Sackville	Bedford	TASA	Halifax	Chebucto	Total
0 - 4	4.8%	5.0%	5.1%	5.7%	5.0%	6.5%	3.7%	4.7%	4.9%
5 to 14	12.4%	14.2%	11.0%	13.7%	13.9%	14.5%	7.5%	11.0%	11.3%
15 - 19	7.0%	8.5%	6.4%	7.7%	7.8%	6.8%	5.1%	6.4%	6.5%
20 to 34	15.4%	17.1%	19.8%	18.8%	15.2%	16.0%	31.6%	17.8%	21.5%
35 to 54	34.6%	35.0%	32.7%	33.9%	35.3%	36.9%	26.7%	33.1%	32.2%
55-69	17.5%	15.3%	15.3%	15.7%	15.8%	14.0%	14.1%	16.5%	15.1%
70+	8.3%	5.0%	9.8%	4.5%	7.0%	5.2%	11.3%	10.6%	8.5%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

			Source	e: Communit	ty Counts/C	anada Cens	sus		
Actual	East Sh	Cole Hrb	Dartmouth	Sackville	Bedford	TASA	Halifax	Chebucto	Total
0 - 4	1,383	1,671	4,424	2,458	1,655	2,718	4,020	1,406	19,735
5 to 14	3,466	4,532	10,048	6,043	4,184	5,537	8,335	3,339	45,484
15 - 19	1,705	2,326	4,738	2,891	2,099	2,128	5,154	1,665	22,706
20 to 34	3,887	4,949	15,940	7,676	4,734	6,861	31,039	4,899	79,985
35 to 54	8,362	10,121	25,357	13,516	10,121	13,284	27,652	8,613	117,026
55-69	3,231	3,091	9,742	4,356	3,271	4,079	12,086	3,509	43,365
70+	1,795	969	6,317	1,374	1,492	1,774	11,143	2,533	27,397
Total	23,829	27,659	76,566	38,314	27,556	36,381	99,429	25,964	355,698
%	East Sh	Cole Hrb	Dartmouth	Sackville	Bedford	TASA	Halifax	Chebucto	Total
0 - 4	5.8%	6.0%	5.8%	6.4%	6.0%	7.5%	4.0%	5.2%	5.5%
5 to 14	14.5%	16.4%	13.1%	15.8%	15.2%	15.2%	8.4%	12.4%	12.8%
15 - 19	7.2%	8.4%	6.2%	7.5%	7.6%	5.8%	5.2%	6.2%	6.4%
20 to 34	16.3%	17.9%	20.8%	20.0%	17.2%	18.9%	31.2%	18.2%	22.5%
35 to 54	35.1%	36.6%	33.1%	35.3%	36.7%	36.5%	27.8%	32.1%	32.9%
55-69	13.6%	11.2%	12.7%	11.4%	11.9%	11.2%	12.2%	13.1%	12.2%
70+	7.5%	3.5%	8.3%	3.6%	5.4%	4.9%	11.2%	9.4%	7.7%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	96.6%	100.0%



#### 3.3.3 Target Market Population By Age Groups

Table 7 S2 on the following page provides a comparison of gains and losses between 2001 and 2006 for the target market age groups for each of the communities within the 8 areas. HRM as a whole lost 4,443 children. The only area with a net gain was TASA with 1,123. The area with the greatest losses was Dartmouth Whalers with 2,043 fewer children in 2006 as compared with 2001. Fig. B provides a graphic comparison of the target market populations 0 –19 years of age.



	0 - 4	5 to 14	15 - 19	Tota
Eastern Shore	(189)	(379)	34	(534
Chezzetcook	(20)	(52)	12	(60
Jeddore	(22)	(9)	(9)	(40
Lake Echo	(53)	(82)	(73)	(208
Lawrencetown	(5)	(52)	2	(55
Middle Mus	3	(46)	25	(18
Musquodoboit Harbour	(30)	(47)	(3)	(80
Porter's Lake	(3)	(38)	67	26
Sheet Harbour	(28)	(35)	4	(59
Ship Harbour	(31)	(18)	9	(40
Cole Harbour	(266)	(510)	82	(694
Cole Harbour	(224)	(431)	78	(577
Preston	(42)	(79)	4	(117
Dartmouth Whalers	(505)	(1,675)	137	(2,043
Dartmouth	(455)	(1,485)	(37)	(1,977
Dartmouth East	(306)	(777)	(109)	(1,192
Dartmouth N	(193)	(584)	(147)	(924
Dartmouth S	44	(124)	<u>219</u> 174	139
Eastern Passge	(50)	(190)	1/4	(66
Sackville	(251)	(769)	63	(957
Beaver Bank	(18)	(75)	3	(90
Sackville N	60	85	85	230
Sackville S	(293)	(779)	(25)	(1,097
Bedford & District	(197)	(133)	167	(163
Bedford	(191)	(203)	77	(317
Waverly/Fall R	(6)	70	90	154
Fall River Waverly	3	62 8	86 4	151
waverry	(9)	o	4	3
TASA	(16)	447	692	1,123
Hammonds Plains Hubbards	115 19	502	215 27	832
Hubbards Hackett's Cove	(21)	(38) (24)	13	8 (32
Hatchet Lake	(52)	(24)	85	(32
Peggy's Cove	(11)	(30)	(4)	(45
Prospect	(33)	(108)	(15)	(156
St Margaret's Bay	(2)	27	4	29
Tantallon	14	208	174	396
Terrence Bay	2	(8)	(5)	(11
Timberlea	(47)	(40)	198	Ì11
Halifax Hawks	(239)	(594)	134	(699
Clayton Park	85	296	318	699
Fairview	(110)	(223)	(28)	(361
Halifax Chebucto	(47)	(219)	(32)	(298
Halifax Citadel	(58)	(208)	(61)	(327
Halifax Needham	(109)	(240)	(63)	(412
Chebucto	(131)	(387)	42	(476
Armdale NW Arm	(4)	(26)	(32)	(62
Herring Cove	(18)	(60)	26	(52
Sambro	(2)	(83)	18	(67
Spryfield	(107)	(218)	30	(295
Total	(1,794)	(4,000)	1,351	(4,443

## 3.4 **Population Projections**

#### 3.4.1 **Population Growth**

Overall population growth in HRM has exceeded the high projections contained in Table 8 of the original report for 2001 and 2006. High level projections used by HRM's Planning Division for the Regional Plan exceed those in Table 8R.

		Reference		
	Low	Medium	High	Actual
	Projection	Projection	Projection	
(Base) 1996	342,966	342,966	342,966	342,966
2001	353,886	356,452	358,256	359,183
2006	361,825	367,150	370,893	372,858
2011	367,266	375,497	381,297	
2016	370,934	382,170	380,106	
2021	373,035	387,371	397,483	

HRM's Planning Division has identified and assessed potential population growth areas. In terms of the Minor Hockey boundaries, the area with the largest potential growth with the highest likelihood of proceeding within the next fifteen to twenty years is Bedford, specifically Kearney Lake North, Bedford South and Bedford West. The nearby area of Clayton Park is also expected to grow significantly. Total projected increase in population is in the order of 31,000 in diversified mix use development.

The next largest potential growth would be in Dartmouth at Russell Lake and Morris Lake with a total of approximately 12,000.

### 3.4.2 **Population Demographics**

The Halifax Regional School Board has undertaken a detailed review of demographics as part of the Imagine Our Schools planning process. To date only the major urban areas have been completed as part of Phase 1. The projections are based on School Families and as such do not correspond to the Minor Hockey boundaries however they do give an indication of trends within an overall area. The following is an excerpt from the Phase 1 Background Report that explains the methodology used to develop the projections.

#### "Projection Methodology

Separate age cohort and enrolment projections have been calculated for both Halifax Regional Municipality (HRM) and the two planning areas. The age cohort projection is used to estimate the future population, which provides a trend in the school aged children population at a larger geographic grouping, such as a planning area. The enrolment projection is used to generate a grade-by-grade projection for each program offered at a school. The key components of each methodology are discussed below.

#### Age Cohort

The Cohort-Survival Method combined with a technique for deriving migration estimates known as the Residual Method was utilized to estimate populations for HRM and the two planning areas. Both methods are well-recognized techniques for generating accurate and detailed population projections.

The Cohort-Survival Method uses historical Census data and projects future population based on assumptions about births, deaths and net migration. This method was used by well-known author, David Foot, for his best-selling book on Canadian demographic trends, *Boom, Bust and Echo* 

The Residual Method is also well recognized if not as widely applied. It involves the calculation of population between two points in time for which population data is available using the Cohort-Survival Method. Given that the Cohort-Survival Method provides a reliable estimate of population resulting from the influences of fertility and mortality, the comparison of a population projection generated by this method with actual Census counts can be assumed to reveal the influence of migration.

#### Enrolment

Enrolment projections are based upon the Cohort-Survival Method, which uses historical grade by grade enrolment to estimate a grade by grade projection for each program offered at a school. This method uses trends to identify the progression of students from one grade to the next higher grade. Other data sources, including new housing developments and feeder school analysis, are used to supplement the Cohort-Survival Method projections."

The areas completed to date are Eastern Central Halifax (Dartmouth, Eastern Passage, Prestons, Cole Harbour) and Peninsular Halifax. Table 8 S provides a comparison of the actual school enrolment in 2005/06 with projected enrolment in 2017/18. The total school enrolment in Eastern Central is projected to decline 23% (4,090) while that in Peninsular Halifax is projected to decline 8% (425). Within the Eastern Central area, the family of schools with the greatest decline is Auburn Drive High at 32% (1,389).

	Table 8 S		Enrolment by S magine Our Scho		lies
		Actual	Projected	Varianc	e
	Schools	2005/06	2017/2018	%	Actual
Auburn Drive High	9	4,304	2,915	-32%	(1,389)
Dartmouth High	11	4,246	3,214	-24%	(1,032)
Cole Harbour District High	12	4,583	3,491	-24%	(1,092)
Prince Andrew	12	4,494	3,917	-13%	(577)
Total East Central	44	17,627	13,537	-23%	(4,090)
Pen Halifax - Citadel High	17	5,108	4,683	-8%	(425)

The report also includes age group information for HRM as a whole and for the two Planning Areas completed to date. Table 8S2 on the following page compares projected age groups to 2021 with the 2006 actual. While the overall population in HRM is projected to increase by 32,658, the population of children is projected to decrease by 11,715, 6,910 (59%) of which will be attributed to the Eastern Central Planning Area. The decreases in the 0 - 19 age groups have been partially offset by projected development.

	Eastern Cent	ral Halifax	Regional Pla	nning Area		
		Dartmouth Co		5	Varia	nce
					2021/2	2006
	2006	2011	2016	2021	%	Ne
0 to 4	6,005	5,728	5,633	5,354	-10.8%	(651
5 to 14	13,870	11,658	10,800	10,505	-24.3%	(3,365
15 to 19	8,000	7,174	5,658	5,106	-36.2%	(2,894
Total	27,875	24,560	22,091	20,965	-24.8%	(6,910
Total Pop	115,250	114,897	113,938	112,132	-2.7%	(3,118
	Peninsular H	Halifax Plan	ning Area		2021/2	
	2006	2011	2016	2024	2021/2	
	2006	2011	2016	2021	%	Ne
0 to 4	2,150	2,378	2,307	2,387	11.0%	237
5 to 14	4,500	4,000	4,078	4,233	-5.9%	(267
15 to 19	3,410	3,171	2,788	2,526	-25.9%	(884
Total	10,060	9,549	9,173	9,146	-9.1%	(914
Total Pop	65,280	65,962	66,704	67,076	2.8%	1,796
	Halifax Regi	onal Munici	pality			
					2021/2	
	2006	2011	2016	2021	%	Ne
0 to 4	18,205	18,104	18,311	18,368	0.9%	163
5 to 14	41,970	37,565	35,797	35,922	-14.4%	(6,048
15 to 19	24,340	23,025	20,274	18,510	-24.0%	(5,830
Total	84,515	78,694	74,382	72,800	-13.9%	(11,715
Total Pop	372,675	385,029	396,289	405,333	8.8%	32,658

## 3.5 Market Demand

A comparison of Minor Hockey Registrations with primary market population (ages 5 to 14) data between 2000/01 and 2007/08 (Table A on the following page) indicates that although the size of the market has decreased, the total number of children playing hockey has increased and therefore the percentage of children playing (capture rate) has increased. An analysis of male and female participation indicates that close to 50% of the increase was due to higher female participation.

All of the Minor Hockey Associations increased their market capture rates between 2000 and 2008. However any comparison of rates among the associations should be viewed with caution as there are some discrepancies between the population areas and the Minor Hockey boundaries that could skew the data. With some of the Bedford population allocated to TASA, the potential effect would be to increase the Bedford capture rate and decrease that of TASA. Their combined rate was 14% in 2000/01 and 17% in 2007/08.

The Dartmouth region continued to have a lower capture rate than the Halifax region but the difference in the two rates did not change significantly between the two time frames with Halifax capturing 1.5 percentage points more in 2000/01 and 1.3 percentage points more in 2007/08. However Halifax increased registrations by 16.3% while Dartmouth increased registrations by only 8.6%. This would be expected given that the target market in Halifax is not decreasing as fast as that in Dartmouth.

HRM as a whole continues to lag behind the Provincial participation rate at 14.9% as compared with 16.1% for the Province as a whole.

			c	apture Rate						
	2000/01	2001		2007/08	2006		Variance			
	Reg	Рор	Rate	Reg	Рор	Rate	Reg		Рор	
							Actual	%	Actual	%
Eastern Shore	267	3,466	7.7%	346	3,087	11.2%	79	29.6%	(379)	-10.9%
Cole Harbour	806	4,532	17.8%	848	4,022	21.1%	42	5.2%	(510)	-11.3%
Dart Whalers	938	10,048	9.3%	990	8,373	11.8%	52	5.5%	(1,675)	-16.7%
Dartmouth Total	2,011	18,046	11.1%	2,184	15,482	14.1%	173	8.6%	(2,564)	-14.2%
Sackville	812	6,043	13.4%	792	5,274	15.0%	(20)	-2.5%	(769)	-12.7%
Bedford & District	809	4,184	19.3%	887	4,051	21.9%	78	9.6%	(133)	-3.2%
TASA	531	5,537	9.6%	854	5,984	14.3%	323	60.8%	447	8.1%
Halifax Hawks	819	8,335	9.8%	978	7,741	12.6%	159	19.4%	(594)	-7.1%
Chebucto	484	3,339	14.5%	506	2,952	17.1%	22	4.5%	(387)	-11.6%
Halifax Total	3,455	27,438	12.6%	4,017	26,002	15.4%	562	16.3%	(1,436)	-5.2%
Total HRM	5,466	45,484	12.0%	6,201	41,484	14.9%	735	13.4%	(4,000)	-8.8%
Province	15,861	117,565	13.5%	16,854	104,395	16.1%	993	6.3%	(13,170)	-11.2%

## 4.0 Summary

In the eight years since the original study, progress on the recommendations has been mixed. Although an ice surface was added in St. Margaret's Bay that had a marked impact on the local area in terms of increased Minor Hockey participation, the loss of the Akerley rink effectively brought the ice supply back to 2001 levels. Female participation in Minor Hockey has increased significantly although it has a long way to go to reach gender equity and a lack of access to ice time for female dominated sports of Ringette and Figure Skating remains a significant problem. Recreational skating was not examined in this update as information could not be gathered from a sufficient number of arenas in the available time.

Since the population in the target market age groups decreased between 2001 and 2006, growth in Minor Hockey registrations can be attributed to increased market penetration, about 50% of which can be attributed to increased female participation. In 2001 approximately 13.7% of 5 to 14 year olds participated in Minor Hockey in HRM while 14.9% participated in 2008. HRM's participation rate lags behind the Province as a whole at 14.3% in 2001 and 16.1% in 2008. An exploration of the demand for Adult Hockey was not part of this update.

In terms of population trends, a comparison of target market age group projections undertaken in the Imagine Our Schools planning process indicates that the number of children between the ages of 0 and 19 in HRM will decrease by 11,715 between 2006 and 2021, 59% of which will occur in the Eastern Central Planning Region (Dartmouth, Eastern Passage, Cole Harbour and the Prestons) despite projected developments at Russell Lake and Morris Lake. This, coupled with net losses in target market age groups which have already occurred in the area (Table 7S Page 11) tend to indicate that the market for arena services would be relatively lower in the Dartmouth, Cole Harbour and Eastern Shore Minor Hockey areas compared with TASA and Bedford which have high current percentages of children in the 0 - 4 age group (indicating future demand), and in the case of TASA, which has experienced net growth in the target market age groups between 2001 and 2006.

These factors coupled with HRM Planning Division projections for a population increase of approximately 31,000 in developments in Kearney Lake North. Bedford South, Bedford West and the nearby area of Clayton Park, indicate that the original recommendation of Bedford for additional ice surface development remains valid. Of the sites currently under consideration for ice surface development, the Bedford West site on Hammonds Plains near the 102 Highway is the closest to the majority of these population areas.

## **APPENDIX C**

Long Term Arena Strategy Background Report 03/31/11, Catherine Oliver

This page is blank on purpose

Long Term Arena Strategy Background Report

# HRM Long Term Arena Strategy Background Report Draft

March 31, 2011

C.E. Oliver March 31, 2011 Long Term Arena Strategy Background Report

## **Executive Summary**

The purpose of this research was to determine what impact the opening of the BMO Centre has had on ice demand in the Halifax Regional Municipality, and what other factors, if any, have emerged that would impact on long term ice demand since the update of the original 2001 study was completed in May 2009.

A number of factors have led the consultant to advise that it would be premature to draw any definitive conclusions about long term ice demand at this time. These factors include:

the late season opening date of the BMO Centre (November 2010),

the temporary closure of the Shearwater arena,

the re-development of St. Margaret's Bay Smith sheet to an Olympic ice surface,

the time lapse required for additional ice capacity to be absorbed by user groups, the opening of the Oval,

the impending opening of a second ice surface at the East Hants facility,

the time lapse required for the higher cost of ice rentals at the 4 pad to be absorbed by the local market.

It is therefore recommended that supplemental research be conducted when the 2011/12 ice booking schedules have been completed in late August or early September. This information should provide a more accurate assessment of the longer term demand situation as the impact of many of the above factors will have become evident.

In the meantime the following observations are supported by current data.

Based on school registrations, the number of children in HRM has continued to decline with an additional loss of almost 3,200 children since 2006. The highest single area of decline was in the Cole Harbour High family of schools with 669 fewer children registered in 2011 as compared with 2006.

Fewer operating hours are defined as Prime Time in 2011 as compared with 2007 or 2001. In 2011 Prime Time hours were 48 hours per week while in 2007 they totalled 57 hours, and in 2001, 67 hours.

Fewer operating hours are defined as Prime Time in 2011 as compared with 2007 or 2001. In 2011 Prime Time hours were 48 hours per week while in 2007 they totalled 57 hours, and in 2001, 67 hours.

Fewer operating hours are defined as Prime Time in 2011 as compared with 2007 or 2001. In 2011 Prime Time hours were 48 hours per week while in 2007 they totalled 57 hours, and in 2001, 67 hours.

The percentage of Prime Time use has declined from 100% to 99% since 2007. There are currently 15 hours of unused Prime Time among the 20 facilities analyzed.

The percentage of Fringe Time use has declined between 2007 and 2011 from 75% to 60%. There are currently 332 hours of unused fringe time available among the 20 facilities analyzed.

If demand remains unchanged, there could be at least 39 hours of excess Prime Time ice in the 2011-2012 ice season with 26 ice surfaces in operation.

Lower utilization levels coupled with fewer hours defined as Prime Time reduces the amount of revenue generated by arenas. This compromises operating efficiency and increases net operating costs to owners.

There is an unmet demand for learn to skate lessons which could grow as a result of increased interest in skating generated by the Oval.

The biggest impact of the BMO Centre's opening in terms of service has been on the Bedford Minor Hockey Association with 130 hours/wk. in 2 facilities instead of 8, in Prime and Late Afternoon time slots.

Ice access for Ringette and Women's Hockey has significantly improved with a total increase of 30 hours per week and more convenient times, however access is more expensive.

## 1.0 Introduction

The purpose of this research was to determine what impact the opening of the BMO Centre has had on ice demand in the Halifax Regional Municipality, and what other factors, if any, have emerged that would impact on long term ice demand since the update of the original 2001 study was completed in May 2009.

## 2.0 Methodology

Arena operators were asked to provide copies of an average weekly schedule for the 2010–2011 and 2009-2010 seasons. The goal was to compare ice hour use before and after the addition of the 4 ice surfaces at the BMO Centre. Operators were also asked to provide a definition of ice hours – Prime/Non-Prime, and current ice rental rates.

Minor Sport organizations were contacted to request current registration information.

Information was collected on Learn to Skate programs hosted by HRM and by local Figure Skating Clubs.

School registration information was obtained from the Halifax Regional School Board website.

## 3.0 Results

It was not possible to obtain most of the requested information from arena operators. The majority could not provide sample 2009/10 schedules and 4 did not provide 2010/11 information at the level of detail necessary for analysis. Therefore the 2007 study on arena bookings conducted by HRM staff was used to provide a comparison. This information indicated, by operating hour, if a facility was in use but did not provide any information of the type of use. The operating schedules of fifteen facilities from the 2007 study and 20 current facilities were analyzed. Facilities excluded were Centennial and Metro Centre as they did not provide useable data for 2011, Shearwater and Shannon as the schedule information was not consistent, and Dalhousie and St. Mary's as use levels were influenced by in house programming as opposed to local demand.

## 4.0 Research

### 4.1 School Enrolments

Since there has been no census since 2006 and since subsequent population estimates do not provide data by area or age group, school enrolments provided the only available information about the current size of one of the key market groups for ice activities. Enrolment data from 2006 to 2010 was available on the Halifax Regional School Board website by school. An analysis of that data revealed that the total number of children in HRM schools decreased by 3,191 or 5.8% between 2006 and 2010. It was not possible to do a direct comparison with census data in the previous study, nor was it possible to relate the school data to Minor Hockey boundaries.

The data collected from the website was organized into school families and is presented in Table 1. Based on school families, the area with the greatest net decrease was the Cole Harbour High family of schools with 669 fewer children registered in 2010 as compared with 2006. The Charles P Allen family of schools had the greatest net increase with 357 more children registered.

	Table 1 Sch by School		ents		
	2010	2006			
CP Allen Sir John A MacDonald Lockview Halifax West Citadel Millwood Prince Andrew Dartmouth High JL Iisley Eastern Shore Mus Rural Auburn Drive Sackville Cole Harbour Duncan MacMillan	5,206 3,988 3,764 5,804 5,029 2,445 3,954 3,733 3,451 2,457 667 3,675 3,091 3,783 395	4,849 3,933 3,754 5,856 5,142 2,559 4,297 4,117 3,860 2,792 765 4,221 3,557 4,452 479	(114) (343) (384) (409) (335) (98) (546) (466)	1.4% 0.3% -0.9% -2.2% -4.5% -8.0% -9.3% -10.6% -12.0% -12.8% -12.9% -13.1% -15.0%	
Suncar nachnar	51,442	54,633	(3,191)		

By general area, the greatest decrease was in Dartmouth/Cole Harbour area with 1,942 or 11.4% fewer children. The only area with a net increase was Bedford/Tantallon with 412 or 4.7% more children registered in 2010 as compared with 2006. See Table 2.

	Table 2 School Enrolments by General Area			
	2010	2006		
CP Allen	5,206	4,849	357	7.4%
Sir John A MacDonald	3,988	3,933	55	1.4%
Subttl Bedford/Tantallon	9,194	8,782	412	4.7%
Lockview	3,764	3,754	10	0.3%
Millwood	2,445	2,559	(114)	-4.5%
Sackville	3,091	3,557	• •	
Subttl Sackville/Waverly	9,300	9,870	(570)	-5.8%
Halifax West	5,804	5,856	(52)	-0.9%
Citadel	5,029	5,142	(113)	-2.2%
JL Iisley	3,451	3,860	(409)	-10.6%
Subttl Halifax	14,284	14,858	(574)	-3.9%
Prince Andrew	3,954	4,297	(343)	-8.0%
Dartmouth High	3,733	4,117	(384)	-9.3%
Auburn Drive	3,675	4,221	(546)	
Cole Harbour	3,783	4,452	(669)	-15.0%
Subttl Dartmouth	15,145	17,087	(1,942)	-11.4%
Eastern Shore	2,457	2,792	(335)	-12.0%
Mus Rural	667	765	(98)	-12.8%
Duncan MacMillan	395	479	(84)	-17.5%
Subttl Mus/East Shore	3,519	4,036	(517)	-12.8%
	51,442	54,633	(3,191)	-5.8%

**Note:** School enrolments in the growth areas of Tantallon/Hammonds Plains/Bedford peaked in 2009 and recorded a modest decline of 55 students in 2010.

This information supports the trends discussed in the 2009 report. In general, the Dartmouth/ Cole Harbour/Eastern Shore areas are continuing a significant decline in terms of school age children while the Bedford/Tantallon areas have continued to increase. Halifax/Sackville are declining but at a slower rate.

Unless significant in migration occurs, it can be expected that the number of children in HRM will continue to decline as the overall aging of the population continues.

## 4.3 Ice Hour Definitions

A review of current ice hour definitions revealed that there is no consensus among the facilities as to what constitutes Prime Time. However, after a careful review some patterns did emerge.

As observed in the original study, the definition of what is Prime Time appears to depend on how much demand a particular facility is experiencing. More demand means that more hours are defined as Prime Time, and less demand, fewer hours are defined as Prime Time. The definition of Prime Time generally has been changing since 2001.

In the 2007 analysis of ice use, Prime Time was defined as 6:00 PM to 11:00 PM Monday to Friday and 7:00 AM to 11:00 PM Saturday and Sunday, for a total of 57 hours, while Shoulder (Fringe) was defined as 4:00 PM – 6:00 PM and 11:00 PM – 12:00 AM Monday– Friday and 11:00 PM – 2:00 AM Saturday and Sunday. Daytime hours (Non-Prime) were anything before 4:00 PM Monday to Friday.

In the 2001 study, Prime Time among 12 participating facilities (institutional facilities such as St. Mary's, Dalhousie, Shearwater and Shannon Park excluded) averaged 67 hours per week with a high of 76 hours and a low of 65 hours.

For the purposes of this study, ice hours were grouped into Prime Time: 6:00 PM –10:00 PM Monday – Friday, and 8:00 AM – 10:00 PM on Saturday and Sunday for a total of 48 Prime Time hours per week. A total of 38 hours were defined as Fringe. Fringe hours include Early Morning, Late Afternoon and Late Evening. Early Morning hours were defined as 6:00 AM to 8:00 AM, 7 days per week, Late Evening were 10:00 PM to midnight, 7 days per week and Late Afternoon were 4:00 PM – 6:00 PM Monday to Friday. Non-Prime hours were everything else. See Table 3.

Note: The Devonshire arena in Halifax only operates a partial schedule with no Non-Prime or Early Morning weekday hours available.

The decrease in Prime Time designation has implications for the net operating results for arena facilities as revenue generation capabilities are being reduced.

	Table 3 Definitions	
	2011	2007
Prime/Peak		
Weekdays	6:00 PM - 10:00 PM	6:00 PM - 11:00 PM
Weekends	8:00 AM - 10:00 PM	7:00 AM - 11:00 PM
Total Hours	48	57
Fringe/Shoulde	r	
All	6:00 AM - 8:00 AM	
Weekdays	4:00 PM - 6:00 PM	4:00 PM -6:00 PM
All	10:00 PM - 12:00 AM	11:00 PM - 2:00 AM
Total Hours	38	31

## 4.4 Ice Rental Rates

There is a wide variety of ice rental rates in HRM. Some facilities offer a discount for Minor Sport while others do not. Regular Prime Time hourly rates range from a high of \$230 at the BMO Centre to a low of \$154 at Devonshire. Non-Prime rates range from \$130 at the St. Margaret's Centre to \$75 in Eastern Shore.

Subsidies for Minor Sport groups aside, perhaps the best way to identify how much demand there is for ice is to review the pricing structure. For example, at Devonshire, Bowles and Gray it appears that there is a lack of demand on Saturday evenings as ice from 8:00 PM to 10:00 PM is reduced in price.

Ice rentals before 9:30 AM weekdays are discouraged with a \$150.00 surcharge at Gray and Bowles.

### 4.5 Ice Utilization Comparison 2011/2007

#### 4.5.1 Methodology

It was not possible to obtain the requested information from all of the facilities. Therefore the analysis has been limited to the 2010 – 2011 season. These were compared with ice hour use from the 2007 analysis done by HRM staff. The comparison has some challenges in that ice hour use in 2007 was under stress as a result of the abrupt closure of the Akerley facility. Institutional facilities (St. Mary's, Dalhousie, Shannon, Shearwater), and Centennial and Metro Centre (no data for 2011) were omitted from this analysis to provide a uniform basis of comparison.

The main focus of this analysis is on Prime Time and Fringe hour use. The 2011 data for Non-Prime time cannot be compared with 2007 since there is no definition of ice use other than booked and open for that year. Some of the time indicated as In Use in 2007 would have been ice maintenance. Since ice maintenance is not done during Prime or Fringe periods, it was concluded that the 2007 data could be used for comparison purposes.

#### 4.5.2 Results

Overall ice utilization in Prime and Fringe periods dropped from 89% in 2007 to 82% in 2011. Prime Time ice utilization dropped from 100% in 2007 to 99% in 2011 with 15 hours (or more) of Prime Time ice unused per week.

Demand/use levels for Fringe hours can be regarded as giving an indication of overall demand levels for ice time and of demand levels in specific areas. In 2011, 60% of Fringe hours were in use while in 2007, 75% of Fringe hours were used. See Table 4.

Table 4 Utilization of Capacity					
	2011	2007			
# of ice sheets	20	15			
Prime Time	99%	100%			
Fringe total	60%	75%			
Early morning	39%	61%			
Late Afternoon	91%	99%			
Late Evening	59%	74%			
Prime/Fringe	82%	89%			

In 2011 Fringe use was highest at Sportsplex at 93% and Cole Harbour at 90% while Fringe hour use at the BMO Centre was lowest at 26% and second lowest at the Rocky Lake Dome at 47%. In 2007, Sportsplex fringe utilization was 91% and Cole Harbour was 82%. The lowest Fringe utilization recorded in 2007 was 53% at the Fountain sheet in St. Margaret's Bay. In 2011 Fountain was at 71%. See Table 5.

Table 5 Fring	ge Utilization		
Highest 2011	2011	2007	
Sportsplex	93%	91%	
Cole Harbour	90%	82%	
Lowest 2011			
BMO	26%	n/a	
Dome	47%	n/a	
Lowest 2007			
St. Margaret's Fountain	71%	53%	

## 4.6 Minor Sport Registration

#### 4.5.1 Minor Hockey

Minor hockey registration tends to fluctuate from year to year, however trends can be seen over multiple years. TASA has seen a steady rise over the last 10 years. Dartmouth peaked in 2004/05 and has been generally declining.

Table 6 Compares Minor Hockey registrations between 2009/10 and 2010/2011 while Fig 1R2 show the trends over a ten year period.

No significant increases in registrations were recorded in 2010/2011 as compared with the previous year and it would be premature to expect that the additional ice access provide by the BMO Centre would impact registrations in the 2010/2011 season. However, another operative factor may be the declining target market population. Cole Harbour recorded a significant decrease in registrations. This decline is being reviewed by Hockey Nova Scotia.

It is interesting to note that HRM Minor Hockey associations lag significantly behind the rest of the province in terms of female participation. The provincial rate as a whole is currently 15.9% while that for HRM is 12%. With HRM removed, the provincial participation rate is 18%. Part of the reason for the lower rate may be Ringette, which is very active and growing in HRM, see the following section.

	2009/10				2010/11				
	Total	М	F	% F	Total	М	F	% F	% var to 09/10
Eastern Shore	396	311	85	21.5%	381	303	78	20.5%	-3.8%
Cole Harbour	827	711	116	14.0%	746	654	92	12.3%	-9.8%
Dartmouth	1,014	888	126	12.4%	972	852	120	12.3%	-4.1%
Dart Total	2,237	1,910	327	14.6%	2,099	1,809	290	13.8%	-6.2%
Sackville	826	745	81	9.8%	860	780	80	9.3%	4.1%
Bedford	928	842	86	9.3%	952	852	100	10.5%	2.6%
TASA	955	857	98	10.3%	987	860	127	12.9%	3.4%
Halifax	955	824	131	13.7%	936	807	129	13.8%	-2.0%
Chebucto	545	491	54	9.9%	503	467	36	7.2%	-7.7%
Halifax Total	4,209	3,759	450	10.7%	4,238	3,766	472	11.1%	0.7%
Total HRM	6,446	5,669	777	12.1%	6,337	5,575	762	12.0%	-1.7%
Province	- 18,141	15,285	2,856	15.7%	17,777	14,959	2,818	15.9%	-2.0%
Province less HRM	11,695	9,616	2,079	17.8%	11,440	9,384	2,056	18.0%	


#### Fig 1R2 Minor Hockey Registrations

### 4.5.2 Ringette

Ringette registration has been steadily increasing over the last 5 years. See Table 7. Total ice rented per week by Ringette in HRM increased by 23 hours per week from 69 hours in 2009/10 to 92 hours in 2010/11 and additional ice is expected to be rented in 2011/12.

Table 7 Ringette Ro	egistrations <b>F</b>	IRM
	%	increase to 05/06
2010/11	1009	41%
2009/10	953	33%
2008/09	903	26%
2007/08	794	11%
2006/07	777	8%
2005/06	717	

According to a Ringette Nova Scotia representative, Ringette Nova Scotia ice time increased from 5.5 hrs. in the previous year(s) to 13.5 hrs. in 2010/2011 because of the BMO Centre. RNS rents ice for younger age group development programs and Nova Scotia provincial team programs.

The individual local associations had the same hours as previous season(s) plus the BMO Centre hours they acquired this year. A number of the associations, Halifax, St. Margaret's, Sackville and Halifax Chebucto, are looking for more ice as a result of the further growth they have experienced to date and expect next season. If there is anything the associations would like to change with their ice times now, it would be to have them in their local community arenas. Cole Harbour didn't take some BMO ice because of the time and nights it was offered and the distance they had to travel to get to the BMO centre with younger players.

Outside of HRM, Ringette is active mainly in the Annapolis Valley, and also in a small area in Cape Breton, Cumberland County/Oxford and Antigonish/St. FX. Participation numbers outside of the Halifax area and the Valley are low.

#### 4.5.3 Speed Skating

The Dartmouth Speed Skating Club has experienced a significant increase in membership over the past couple of years from 19 athletes in 2008/09 to 36 in 2010/2011. See Table 8. Membership is drawn from across HRM.

With the interest generated by the Oval and the Canada Winter Games and the new opportunities for short and long track Speed Skating training provided by the Oval and the re-development of the St. Margaret's Centre, participation in Speed Skating can be expected to increase in the coming years.

	<u>2006-07</u>	<u>2007-08</u>	<u>2008-09</u>	<u>2009-10</u>	<u>2010-11</u>
Members by Group					
Male					
Fundamental 6-9	4	2	1	7	3
Learning to Train 10-12	1	3 2	5	4	5 5
Training to Train 13-15	3	2	1	4 5	5
Junior 16-18	1	2		2	1
Senior 19-29		1		1	1
Master 30+			1	4	5
Total Males	9	10	8	23	20
Female					
Fundamental 6-8		1		1	
Learning to Train 9-11	2	2	1	2	5
Training to Train 12-14	4	2 3	7	6	4
Junior 15-18	1		1	3	4
Senior 19-29		1	2	1	1
Master 30+				1	2

## 4.5.4 Figure Skating

Information not yet received.

## 4.6 Women's Hockey

According to a representative of Women's Hockey, the league added four new ice times per week (6 hours) at the BMO Centre this year. This allowed the league to grow from 16 teams in 2009/10 to 19 teams in 2010/11. The league had over 400 registered players and coaches this year.

In 2009/10 they had 6 weekly 90 minute ice times in HRM, now they have 10. The BMO ice times are convenient early evening times while most of the other ice times are a 9:00 PM or later start.

The league is expected to grow to at least 22 or 23 teams next year, and possibly 24. Three new teams are located in Truro, Chester and Wolfville. They will play half their games in their hometowns. One new beginner-type team is expected in Halifax plus another team has so many players that they want to split and form 2 teams.

The cost of the BMO is the main reason they have not taken up more ice time there. They would like to trade in a 10:00 PM Friday night slot for another time at the BMO Centre, but at almost \$400 per 90 minute game, it's too much for the teams. This past season was their most expensive yet by far.

The league held their 30 game playoff tournament at BMO Centre in early April. Next year, with an estimated 23 teams, they will need 38 ice times (57 hours) at total cost of over \$15,000.

Most importantly, they are interested to know about the progress of the plan to extend the BMO Centre's fair Access Plan to other HRM owned arenas. They think it is unfair that their league's access to ice comes at a higher premium than the average prices paid by men's leagues across the municipality.

## 4.7 Learn to Skate

Learn to Skate programs are operated directly by HRM in 3 facilities and by Skating Clubs in 6 more. Total participation in 2010/11 is estimated at 3,301 with 700 children on the waiting list for HRM programs. According to a Skate Nova Scotia representative there are waiting lists for their programs as well. See Table 9. Note: These figures do not include the Learn to Skate program at the Dartmouth Sportsplex - information is currently being sought.

With the additional interest in skating generated by the Oval, it can be expected that demand for Learn to Skate programs in HRM will continue to increase.

Table 9 Learn to Sl	kate 2010/11	
	Registrations	Waiting List
HRM		
Cole Harbour	895	157
Forum	1,040	441
Spryfield	257	102
Skating Clubs		
Bedford	163	
Dartmouth	168	
Halifax	176	
Sackville	302	
Shearwater	60	
St. Margaret's	240	
Total	3,301	700

## 5.0 Analysis

#### 5.1 Ice Use

#### 5.1.1 Prime time

There are currently approximately 15 hours of unused Prime Time ice among the 20 facilities analyzed. Shearwater is projected to be back in service for the start of the 2011/2012 ice season. This should free up approximately 15 hours of Prime Time ice at the LeBrun Centre that was allocated to the Dartmouth Whalers. An additional 8 hours will likely transfer from the Dome to the new East Hants facility as well as 1 hour at the BMO Centre. If ice demand remained unchanged, there could be 39 hours, or more, of unused Prime Time ice in the 2011/2012 ice season, depending on how many hours are available in the 4 facilities that did not provide useable data. See Table 10

#### 5.1.2 Fringe

There are currently 332 hours of unused Fringe ice time among the 20 facilities analyzed. Of these, 21 hours were late afternoon 4:00 - 6:00 PM, 122 were late evening 10:00 - 11:00 PM and 189 were early morning 6:00 - 8:00 AM. See Table 10

Table 10	Unused Hou	ırs	
	2011	2007	
# of ice sheets	20	15	
Prime Time Fringe total Early morning Late Afternoon Late Evening Total Available	$15.0 \\ 332.0 \\ 189.0 \\ 21.0 \\ 122.0 \\ 347.0$	0.5 137.0 80.5 1.5 55.0 137.5	

#### 5.1.3 Use by area

The high utilization rates of Fringe time at Sportsplex and Cole Harbour and the low utilization rates at BMO and the Dome appear to indicate an imbalance of ice access between the Dartmouth and Halifax/Bedford/Sackville areas. However the pricing policy which places a premium on early morning ice rentals at Gray and Bowles would tend to artificially depress early morning use in these facilities. Fringe use levels at Bowles and Gray were 58% and 55% respectively, which was below the average for the facilities in the analysis. Further investigation of the pricing policy and actual use levels needs to be undertaken before a definitive analysis can be developed.

#### 5.1.4 Facility Operations Implications

Lower utilization levels coupled with fewer hours defined as Prime Time reduces the amount of revenue generated by arenas. This compromises operating efficiency and increases net operating costs to owners.

## 5.2 Service Improvements

The biggest impact of the BMO Centre's opening in terms of service has been on the Bedford Minor Hockey Association. Prior to 2010/11 season, Bedford MH was renting space in 8 different facilities in Prime Time, Early Morning, Late Afternoon and Late Evening time slots. In 2010/11 facility rentals were limited to the BMO Centre and the Rocky Lake Dome. Time slots were primarily in Prime Time and Late Afternoon with only 1 Early Morning and no Late Evening time slots. Total time rented in 2010/11 was approximately 130 hours per week.

## 5.3 Access Improvements

The biggest impact of the BMO Centre's opening in terms of access has been on Ringette and Women's Hockey. Ice access for Ringette and Women's Hockey has significantly improved with a total increase of 30 hours per week and more convenient times, however access is more expensive.

Additional ice time has been provided for a variety of Minor Hockey organizations totalling 45.5 hours per week. TASA is the single largest user among this group with 10 hours, followed by Halifax Hawks with 7 hours per week.

## 5.4 Schedule Analysis

#### 5.4.1 BMO Centre

The BMO Centre is in its first few months of operation. It will take some time for the operation to fully develop. The late start this season probably had an impact on customer participation and it can be expected that capacity utilization will improve in the coming seasons.

### 5.4.2 Diversified Programming

Cole Harbour and Dartmouth Sportsplex have the most diversified programming of all of the HRM arena facilities and they are the most heavily used facilities in HRM. Their schedules include learn to skate programs during late afternoon and prime time hours, 6 hours of recreational skating during Prime Time each week and adult hockey leagues. The Sportsplex tends to be more game oriented due to its seating capacity and focuses on adult hockey while Cole Harbour has a strong Minor Hockey program.

## 5.5 Other Factors

## 5.5.1 Pricing Policies

The wide range of prices for ice, even within HRM owned facilities, coupled with additional capacity has created a situation where ice users can shop for the best price and there are indications that users are willing to use older facilities during less convenient times to access lower prices.

### 5.5.2 Indoor Ice Surface Increases

In addition to the BMO centre, ice capacity in HRM increased through the re-development of the St Margaret's Bay Centre's Smith ice sheet to Olympic size. This increase in ice surface can have an impact depending upon how it is programmed. For example, if used for learn to skate, it could increase the number of children who could be taught at one time which could address some of the demand for learn to skate without adding another ice surface. The increased capacity could accommodate shared practices for older hockey teams as well as cross ice games for the youngest players.

The new East Hants facility will have an impact on HRM indoor ice use as at least 9 hours of Prime Time ice will likely transfer to this facility once it is in operation.

#### 5.5.3 The Oval

The Oval has had a huge impact on HRM recreational skating and its impact on indoor ice demand has yet to be determined. The interest generated in skating could increase demand for learn to skate programs while decreasing demand for paid recreational skating in the indoor facilities. St. Mary's University has experienced a decline in recreational skating and is considering cancelling one of its sessions.

However, it would be premature to conclude that the Oval will address all of the latent recreational skating demand in HRM. Access to local facilities for recreational skating may continue to be a challenge especially during Prime Time.

## 6.0 Summary

A number of factors have led the consultant to advise that it would be premature to draw any definitive conclusions about long term ice demand at this time. These factors include:

the late season opening date of the BMO Centre (November 2010),

the temporary closure of the Shearwater arena,

the re-development of St. Margaret's Bay Smith sheet to an Olympic ice surface,

the time lapse required for additional ice capacity to be absorbed by user groups, the opening of the Oval,

the impending opening of a second ice surface at the East Hants facility,

the time lapse required for the higher cost of ice rentals at the 4 pad to be absorbed by the local market.

It is therefore recommended that supplemental research be conducted when the 2011/12 ice booking schedules have been completed in late August or early September. This information should provide a more accurate assessment of the longer term demand situation as the impact of many of the above factors will have become evident.

## **APPENDIX D1**

Arena Operations Assessment, Nov. 2010 – Oct. 2011 12/30/11, Catherine Oliver

This page is blank on purpose

# HRM Arena Operations Assessment November 2010 – October 2011 Report December 30, 2011

# **Executive Summary**

The purpose of this research was to compare the operation of the BMO Centre with that of the four HRM operated facilities over the 12 month period since the BMO Centre opened. This assessment could not have been developed without the cooperation of HRM and BMO staff. Given the time frame for this research, the information contained in this report may not be complete.

A detailed analysis of both direct and indirect expenses was conducted by the Budget and Financial Analysis department of HRM. Due to differences between the accounting systems and operating schedules in HRM and the BMO Centre, it was concluded that neither a monthly nor seasonal comparison between the two would be possible. Therefore the comparative analysis has focussed on the total 12 month period.

The BMO Centre is in its first year of operation and as a result can be expected to experience increasing revenues and expenses as the operation matures. The first year of operation presented additional challenges as the volleyball courts did not open until August and the liquor licence was not granted until September.

Based on the information collected to date, total capital and direct and indirect operating costs for the 4 HRM single pad facilities was \$1,822,000 against revenues of \$1,155,000 for a net operating deficit of \$670,000, representing a recovery of 63% of expenses.

Including management fees and capital reserve, BMO expenses totalled \$1,868,000 against revenues of \$1,677,000 for a net annual deficit of \$191,000 representing a recovery of 90% of expenses.

Total revenue generating hours for the BMO Centre were 9,989 as compared with 9,931 for the 4 HRM facilities. Average revenue per ice hour used was \$160.00 for BMO as compared with \$124.00 for the HRM facilities. This difference is a result of higher rental fees and fewer non-prime time hours used at BMO.

These results should not be regarded as being representative of future performance. A number of factors suggest that the second year net results for the BMO Centre will be considerably improved. These include the typical historical performances of first year operations, increased utilization of shoulder hours indicated in the current BMO winter schedule, additional revenue from the food and beverage service and proposed changes in the operating format for HRM facilities.

## 1.0 Introduction

The purpose of this research was to compare the operation of the BMO Centre with that of the four HRM operated facilities over the 12 month period since the BMO Centre opened. It should be noted that although the HRM system has 26 ice sheets only 25 have been in operation during that period.

## 2.0 Methodology

In order to develop a basis for comparison between the BMO Centre and the HRM facilities, it was necessary to collect all of the revenues and expenses associated with the operation of the HRM arenas. Since not all revenues and expenses are allocated to the same budget areas, and since the Lebrun Centre includes other types of spaces, it took a fair amount of time to accumulate and assess the data.

The basis of comparison was originally intended to be monthly revenues, expenses and operating hours. Actual results for BMO were collected from the monthly financial packages submitted to the Halifax Regional Municipality and from monthly hourly use information provided by BMO management. In order to provide a basis for comparison, revenue and expense categories from BMO financial statements were used as a template for the gathering of information for the HRM facilities.

The information for HRM was initially generated from the SAP system and from hourly use estimates provided by Sport and Safety Services. Anomalies in this information indicated that further investigation was warranted.

More detailed information on hourly use and revenues was generated by Sport and Safety Services from the Class program and from other internal reports. A detailed analysis of both direct and indirect expenses was conducted by the Budget and Financial Analysis Department of HRM.

After a comparison and discussion of results it was concluded that the revenue from the Class program was more accurate on a monthly basis as it corresponded to the number of hours used. Despite attempts to allocate expenses to the months in which they were incurred, the monthly expense results for HRM facilities continued to vary to the extent that the consultant concluded that a monthly or seasonal comparison with BMO would not be advisable. In addition, some of the fluctuations in monthly expense may be due to capital expenses.

Average weekly operating schedules for winter 2010/2011 and 2011/12 were collected from BMO and from HRM for 2010/2011. For 2011/12, average weekly operating schedules for the HRM facilities were developed from Class program reports and checked against hours available for rent posted on the HRM website.

Building areas by square foot were obtained from HRM Facilities and Asset Management. As the figure given for the BMO Centre appeared to be usually high, the consultants contacted M&R Engineering and the area used in this report is based on a CAD take off from construction drawings. This was compared with the size of the Mohawk Centre in Hamilton, the building upon which the BMO Centre had been modelled.

The area for Lebrun allocated to the arena was estimated to be 2/3 of the total size of the facility.

Table 1 Facili	ty Areas
	Sq.ft.
Lebrun at 66% Devonshire	27,317 20,120
Bowles Gray	27,340 27,810
Total	102,587
Source: HRM Fac	ilities & Asset Mgmt
BMO*	144,402
Mohawk**	136,000
*CAD take off M8 ** Mohawk webs	

## 3.0 Results

#### 3.1 Hours Used

Table 2 provides a summary of ice hours rented and programmed (ice hours used) in the HRM facilities compared with the BMO 4 pad. For the 12 month period BMO used 847 hours more ice hours than the HRM facilities due to operating more shoulder season and summer ice. During the first winter season BMO used 1,448 or 22% fewer ice hours than HRM facilities. BMO's ice utilization in October 2011 improved considerably.

Table 2 Ice Hours Used										
	Winter Nov 10 - Mar	<b>Apr-11</b> 11	May-11	Jun-11	Summer 11 Jul/Aug	Sep-11	Oct-11	Total		
BMO	5,221	838	675	278	929	507	1,205	9,653		
Lebrun	1,794	43				90	315	2,242		
Devonshire	1,380	23				-	244	1,646		
Gray	1,701	231	105			171	354	2,561		
Bowles	1,794	41	-			165	358	2,357		
Total	6,669	338	105	-	-	425	1,270	8,806		
Var	(1,448)	500	570	278	929	82	(65)	847		
	-22%	148%	546%			19%	-5%	10%		

Table 3 and Figure 1 provide a detailed analysis of hours used by type of activity. BMO's adult ice rentals were about double that of the HRM facilities. Differences may exist in what is defined as General Ice between the two organizations that make it difficult to develop definitive comparisons. Some "General Ice" rentals at BMO are Adult (e.g. corporate rentals) and some are Children (e.g. Birthday parties). More investigation of this issue may be required.

	BMC		HRM	4	var BMC	
	DIVIC	,	TINP.	1		77 113191
Adult Female	195	2%	228	3%	(34)	-15%
Adult Male	1,134	12%	432	5%	702	163%
Subttl Adults	1,329	14%	660	7%	669	101%
Minor Sport	4,721	49%	5,594	64%	(873)	-16%
General Ice	1,581	16%	477	5%	1,104	231%
Tournaments	519	5%	681	8%	(162)	-24%
Public Skating	906	9%	710	8%	196	28%
Pick up Hockey	597	6%	684	8%	(87)	-13%
Total Ice Hours	9,653	100%	8,806	100%	847	10%
Dry Activities	337		1,126			
Total	9,989		9,931			



#### 3.2 Average Winter Week Schedule

Table 4 compares the utilization rates for HRM facilities and BMO for a sample winter weekly schedule in 2010/2011. The number of available hours is lower in HRM facilities since Devonshire operates on a reduced schedule.

The definitions of the various categories were developed for the Long Term Arena Strategy Background report in March 2011 and differ somewhat from those used by BMO.

Based on this information BMO had an average of 231 unsold ice hours during an average winter week during its first winter of operation as compared with 126 for the HRM facilities. The difference was due to higher fringe and non-prime utilization in HRM facilities.

A similar comparison for the current winter schedule reveals a somewhat different picture. See Table 4a. In the current season, BMO is using an average of 37 more hours per week, a 15% increase over the previous winter season; however it still lags behind the HRM facilities.

		able 4 Scl INTER 201		-		
		Lebrun	Bowles		Total	вмо
Capacity						
Prime	48	48	48	48	192	192
Fringe	38	38	38	38	152	152
EM	14	14	14	14	56	56
LA	10	10	10	10	40	40
LE	14	14	14	14	56	56
Prime/Fringe	86	86	86	86	344	344
Non Prime	0	35	35	35	105	140
Total	86	121	121	121	449	484
Used						
Prime	48	48	48	48	192	180.5
Fringe Subttl	21.5	19	22	21	83.5	39.75
EM	2	3	3	4	12	3
LA	10	9	10	9	38	25.75
LE	9.5	7	9	8	33.5	11
Prime/Fringe	69.5	67	70	69	275.5	220.3
Non Prime	0	20.5	17	10	47.5	32.0
Total	69.5	87.5	87	79	323	252.3
% of capacit	t <b>y</b>					
Prime	100%	100%	100%	100%	100%	94%
Fringe (all)	57%	50%	58%	55%	55%	26%
EM	14%	21%	21%	29%	21%	5%
LA	100%	90%	100%	90%	95%	64%
LE	68%	50%	64%	57%	60%	20%
Prime/Fringe	81%	78%	81%	80%	80%	64%
Non Prime		59%	49%	29%	45%	23%
Total	81%	72%	72%	65%	72%	52%
Net Availabl	e					
Prime	-	-	-	-	-	11.5
Fringe (all)	16.5	19.0	16.0	17.0	68.5	112.3
EM	12.0	11.0	11.0	10.0	44.0	53.0
LA	-	1.0	-	1.0	2.0	14.3
LE	4.5	7.0	5.0	6.0	22.5	45.0
Prime/Fringe	16.5	19.0	16.0	17.0	68.5	123.8
Non Prime	-	14.5	18.0	25.0	57.5	108.0
Total	16.5	33.5	34.0	42.0	126.0	231.8

		Table 4a WINT			parison mple Week	
	Devon	Lebrun	Bowles	Gray	Total	вмо
Capacity						
Prime	46	48	48	48	190	192
Fringe	31	38	38	38	145	152
EM	14	14	14	14	56	56
LA	8	10	10	10	38	40
LE	9	14	14	14	51	56
Prime/Fringe	77	86	86	86	335	344
Non Prime	0	35	35	35	105	140
Total	77	121	121	121	440	484
Used						
Prime	46	48	48	48	190	183.75
Fringe Subttl	12.5	20			74.5	66.5
EM	0	-	4	4	10	15.5
LA	8	9	10	8	35	32.25
LE	4.5	9	8	8	29.5	18.75
Prime/Fringe	58.5	68	70	68	264.5	250.25
Non Prime	0	20.5	17	10	47.5	39.25
Total	58.5	88.5	87	78	312	289.5
% of capacit	ty					
Prime	100%	100%	100%		100%	96%
Fringe (all)	40%	53%	58%		51%	44%
EM	0%	14%	29%	29%	18%	28%
LA	100%	90%	100%		92%	81%
LE	50%	64%	57%	57%	58%	33%
Prime/Fringe	76%	79%	81%		79%	73%
Non Prime		59%	49%		45%	28%
Total	76%	73%	72%	64%	71%	60%
Net Availabl	e					
Prime	-	-	-	-	-	8.3
Fringe (all)	18.5	18.0	16.0	18.0	70.5	85.5
EM	14.0	12.0	10.0	10.0	46.0	40.5
LA	-	1.0	-	2.0	3.0	7.8
LE	4.5	5.0	6.0	6.0	21.5	37.3
Prime/Fringe	18.5	18.0	16.0	18.0	70.5	93.8
Non Prime	-	14.5	18.0	25.0	57.5	100.8
Total	18.5	32.5	34.0	43.0	128.0	194.5

#### 3.3 Revenues and Expenses

#### 3.3.1 HRM Facilities

Table 5 summarizes monthly revenues and direct expenses for the 4 HRM facilities. Hours used and square footage were used to assess results on a monthly basis. An initial review of results by facility suggested that the utility costs for Lebrun were understated. Expenses for Lebrun were developed based on the size of the arena as a percentage of the overall facility. At the suggestion of HRM staff, Lebrun utility costs were increased to Devonshire's to bring them in line with those of the other arenas.

Annual repair and maintenance costs exceeded \$100,000 per arena and reflect the costs associated with operating aging facilities. Some of these may be capital related.

Despite attempts to allocate expenses into the months in which they were incurred, the fluctuations among the months were significant. Some of the fluctuation can be attributed to differences in operating schedules and weather. However, even during a relatively stable operating period, fluctuations were still evident. For example, the average cost per hour used for all facilities for the period November 2010 to March 2011 ranged from \$145.50 to \$101.83. Average cost per sq. ft. per month ranged from \$1.99 to \$1.38. Average revenue per hour used exhibited a smaller range from \$122.17 to \$118.17.

			Tab	e 5 HRM	Arenas 2	2010 - 20	11						
Total	November	December	January	February	March	April	May	June	July	August	September	October	TOTAL
Ice Revenue	\$170,362	\$141,685	\$169,753	\$159,048	\$161,717	\$45,618	\$15,025	\$0	\$0	\$0	\$61,107	\$163,371	\$1,087,686
Dry Revenues	\$0	\$0	\$0	\$0	\$0	\$3,648	\$17,810	\$19,761	\$11,442	\$3,388	\$90	\$0	\$56,139
Advertising	\$957	\$0	\$900	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,857
Facility Rentals	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,673	\$544	\$0	\$0	\$0	\$2,217
Vending Revenue	\$100	\$100	(\$1,030)	\$1,421	\$100	\$0	\$915	\$0	\$0	\$0	\$0	\$0	\$1,605
Misc	\$223	\$345	\$683	\$563	\$0	\$317	\$427	\$0	\$0	\$0	\$0	\$164	\$2,722
TOTAL REVENUES	\$171,642	\$142,130	\$170,306	\$161,032	\$161,817	\$49,583	\$34,177	\$21,434	\$11,986	\$3,388	\$61,197	\$163,535	\$1,152,226
Wages - Front Desk	\$1,011	\$234	\$901	\$1,015	\$2,203	\$0	\$0	\$0	\$5,387	\$1,589	\$1,148	\$1,322	\$14,809
Wages- Plant Mice	\$134,332	\$82,832	\$74,426	\$64,400	\$80,757	\$27,961	\$67,015	\$44,453	\$34,443	\$49,956	\$67,349	\$65,893	\$793,816
Repairs & Mtce	\$25,443	\$21,627	\$18,929	\$32,227	\$43,374	\$12,637	\$37,661	\$27,796	\$18,071	\$43,676	\$84,943	\$60,285	\$426,667
Utilities	\$42,809	\$44,624	\$47,237	\$55,610	\$49,531	\$41,551	\$19,695	\$14,845	\$11,212	\$9,808	\$24,920	\$43,480	\$405,322
Security	\$1,057	\$0	\$0	\$0	\$0	\$0	\$731	\$8,626	\$0	\$4,002	\$873	\$50	\$15,339
TOTAL DIRECT EXP	\$204,653	\$149,316	\$141,493	\$153,251	\$175,865	\$82,149	\$125,102	\$95,720	\$69,113	\$109,031	\$179,233	\$171,029	\$1,655,953
Net Surplus (Deficit)	(\$33,011)	(\$7,186)	\$28,813	\$7,781	(\$14,048)	(\$32,566)	(\$90,925)	(\$74,286)	(\$57,127)	(\$105,643)	(\$118,036)	(\$7,494)	(\$503,727)
# ice hours	1,407	1,199	1,390	1,333	1,341	338	105				425	1,270	8,806
# Dry Hours						70	354	414	218	68	2		1,125
Total Hours	1,407	1,199	1,390	1,333	1,341	407	459	414	218	68	427	1,270	9,931
Avg Rev/ice hour	\$121.12	\$118.17	\$122.17	\$119.32	\$120.64	\$135.16	\$143.78				\$143.78	\$128.64	\$123.52
Av Cost/hour	\$145.50	\$124.53	\$101.83	\$114.97	\$131.19	\$201.84	\$272.85	\$231.49	\$317.03	\$1,603.39	\$419.75	\$134.67	\$166.75
Cost/sq.ft.	\$1.99	\$1.46	\$1.38	\$1.49	\$1.71	\$0.80	\$1.22	\$0.93	\$0.67	\$1.06	\$1.75	\$1.67	\$16.14
Utilities/sq.ft	\$0.42	\$0.43	\$0.46	\$0.54	\$0.48	\$0.41	\$0.19	\$0.14	\$0.11	\$0.10	\$0.24	\$0.42	\$3.95

#### **Indirect Costs**

A total of \$108,650 in additional staff costs were identified in scheduling, and in administrative and maintenance supervisory and management positions. Insurance costs of \$20,000 were also identified.

#### Capital

One capital related item was identified for the Gray Centre totalling \$38,044.

#### Total Costs

Total Annual Revenue and Expense for the HRM facilities are summarized in Table 6. The total net estimated deficit was \$670,000.

Direct Indirect Total										
Revenue	21000									
Ice Revenue	\$1,087,686	-	\$1,087,686							
Dry Revenues	\$56,139	<del>,</del>	\$56,139							
Advertising	* \$1,857	=	\$1,857							
Facility Rentals	\$2,217	-	\$2,217							
Vending Revenue	\$1,605	<del>,</del>	\$1,605							
Misc	* \$2,722	F	\$2,722							
TOTAL REVENUES	\$1,152,226	-	\$1,152,226							
Wages - Front Desk/Ad	lm \$14,809	\$108,650	\$123,459							
Wages- Plant Mtce	\$793,816	F	\$793,816							
Total Staff Costs	\$808,625	\$108,650	\$917,275							
Repairs & Mtce/Capital	\$426,667	\$38,044	\$464,711							
Insurance		\$20,000 <sup>7</sup>	\$20,000							
Utilities	\$405,322	•	\$405,322							
Security	\$15,339	÷	\$15,339							
TOTAL EXP	<sup>7</sup> \$1,655,953	<sup>7</sup> \$166,694	\$1,822,647							
Net Surplus (Deficit)	(\$503,727)		(\$670,421)							
% Recovery	70%		63%							
# ice hours	8,806									
# Dry Hours	1,125									
Total Hours	9,931									
Av Rev/ice hour	\$123.52									
Av Cost/hour	\$166.75		\$183.53							
Cost/sq.ft.	\$16.14		\$17.77							

#### 3.3.2 BMO

In order to create a more realistic comparison and to partially offset the lower repair and maintenance expenses incurred at BMO in its first year of operation, capital reserve and management fees were included in the BMO expenses.

					Table 7	BMO Cer	ntre 201	0 - 2011					
	November	December	January	February	March	April	May	June	July	August	Sept	Oct	TOTAL
ice Revenues	\$163,523	\$171,713	\$193,467	\$166,439	\$189,286	\$149,078	\$91,961	\$26,298	\$36,870	\$87,207	\$71,768	\$194,143	\$1,541,753
Dry Revenue								\$5,500	\$5,803	\$5,362			\$16,665
Volleyball										\$1,190	\$139		\$1,329
Advertising	\$4,167	\$4,583	\$6,102	\$5,838	\$14,730	\$10,400	\$7,200	\$10,696	\$7,971	\$8,612	\$8,592	\$8,592	\$97,483
Facility rentals		(\$43)	\$663	\$686	\$713	\$100	\$325	\$575	\$113	\$0	\$388	\$900	\$4,420
Other leases		\$333	\$333	\$333	\$2,137	\$3,226	\$3,204	\$3,597	\$1,210	\$2,482	\$4,369	\$3,396	\$24,620
Vending			\$2,473			\$3,636	\$975	\$63	\$1,802	\$0	\$0	\$1,144	\$10,093
Misc			(\$1)			\$1,513	(\$4)	\$18	\$501	\$2	\$3	(\$18)	\$2,014
TOTAL REVENUES	\$167,690	\$176,586	\$203,037	\$173,296	\$206,866	\$167,953	\$103,661	\$46,747	\$54,270	\$104,855	\$85,259	\$208,157	\$1,698,377
Salaries	\$55,241	\$63,181	\$64,734	\$58,898	\$69,244	\$60,215	\$62,696	\$51,860	\$51,724	\$49,199	\$51,040	\$57,311	\$695,343
Repairs & Mtce	\$1,494	\$15,894	\$10,556	\$9,759	\$11,799	\$9,148	\$7,528	\$6,240	\$11,841	\$2,701	\$5,195	\$4,635	\$96,790
Utilities	\$46,746	\$31,745	\$54,171	\$43,689	\$44,018	\$41,335	\$39,003	\$31,117	\$32,198	\$36,826	\$41,291	\$46,604	\$488,743
Other	\$12,863	\$20,890	\$15,883	\$11,248	\$21,913	\$10,922	\$14,477	\$13,598	\$9,865	\$12,929	\$10,225	\$10,784	\$165,597
Total Expenses	\$116,344	\$131,710	\$145,344	\$123,594	\$146,974	\$121,620	\$123,704	\$102,815	\$105,628	\$101,655	\$107,751	\$119,334	\$1,446,473
Net before (1), (2), & (3)	\$51,346	\$44,876	\$57,693	\$49,702	\$59,892	\$46,333	(\$20,043)	(\$56,068)	(\$51,358)	\$3,200	(\$22,492)	\$88,823	\$251,904
ManagmtFee & COI	\$16,667	\$18,417	\$20,144	\$18,228	\$18,574	\$18,811	\$18,464	\$17,584	\$20,697	\$18,074	\$17,667	\$18,007	\$221,334
Capital Reserve Fund <sup>(2)</sup>	\$16,667	\$16,667	\$16,667	\$16,667	\$16,667	\$16,667	\$16,667	\$16,667	\$16,667	\$16,667	\$16,667	\$16,667	\$200,004
Concessions (Net profit) (4)						(\$7,000)	(\$3,338)	(\$3,209)	(\$4,808)	(\$2,731)	(\$3,630)	\$3,107	(\$21,609)
Profit (Loss)	\$18,012	\$9,792	\$20,882	\$14,807	\$24,651	\$3,855	(\$58,512)	(\$93,528)	(\$93,530)	(\$34,272)	(\$60,456)	\$57,256	(\$191,043)
% Recovery	112%	106%	111%	109%	114%	102%	63%	32%	35%	75%	57%	137%	90%
# ice hours	873	1,025	1,113	1,069	1,142	838	675	278	379	550	507	1,205	9,654
# Dry Hours								51	91	145	51		337
Total Hours	873	1,025	1,113	1,069	1,142	838	675	329	470	695	558	1,205	9,991
Av revenue / ice hour	\$187.31	\$167.52	\$173.82	\$155.70	\$165.75	\$177.90	\$136.24	\$94.60	\$97.28	\$158.56	\$141.55	\$161.11	\$159.70
Av cost per hour (before 1	\$133.27	\$128.50	\$130.59	\$115.62	\$128.70	\$145.13	\$183.27	\$312.98	\$224.74	\$146.37	\$193.28	\$99.03	\$144.78
Av cost per hour (net of 1,	\$171.45	\$162.73	\$163.66	\$148.26	\$159.56	\$179.11	\$230.37	\$407.48	\$294.01	\$192.46	\$248.35	\$130.39	\$184.80
Av Cost/sq.ft.	\$1.04	\$1.16	\$1.26	\$1.10	\$1.26	\$1.04	\$1.08	\$0.93	\$0.96	\$0.93	\$0.96	\$1.09	\$12.79
Utilities/sq.ft.	\$0.32	\$0.22	\$0.38	\$0.30	\$0.30	\$0.29	\$0.27	\$0.22	\$0.22	\$0.26	\$0.29	\$0.32	\$3.38

Table 7 provides a review of BMO results by month.

As would be expected in a first year operation there was a fair amount of fluctuation in monthly operating results. Monthly results reflect changes in the number of operating days, weather, schedule and staffing adjustments. First year operations typically generate higher than normal staff costs as management adapts to developing patterns of use.

Due to the organizational structure, fixed costs and the configuration of the facility's mechanical systems, the average monthly difference between operating two and four ice surfaces was only about 23 cents per square foot. This combined with lower demand and competition from other facilities meant that the percentage of operating costs recovered fell dramatically during the months when only two ice surfaces were in operation. The facility operated 4 ice surfaces in September however anticipated demand was eroded by competition from other facilities. The average cost per square foot in October was \$1.09 which may reflect changes in staffing and operating procedures. Additional data is required before conclusions can be drawn.

## 3.4 Operating Results Comparison

Table 8 compares the overall operating results of the BMO Centre with the 4 HRM facilities.

All expenses included, during its first full year of operation the BMO Centre cost \$479,000 less to operate than the HRM facilities. Management fees included for BMO, staff costs were almost identical between the two operations. Utility costs were higher for BMO as a result of the larger square footage of the building and more robust mechanical systems of a modern facility, however cost per square foot were lower than those in the HRM facilities. Repairs and Maintenance costs for BMO including capital reserve were considerably less than HRM facilities reflecting the higher costs of maintaining aging facilities, lower costs for a first year operation and economies inherent in a multi pad facility. Insurance costs were much higher for BMO as compared with the HRM facilities reflecting the economies of scale for HRM.

Other costs were much higher for BMO as compared with HRM. The \$115,209 for BMO included the following:

\$17,000
\$13,902
\$30,000
\$19,988
\$5,134
\$14,034
\$4,189
\$3,931
\$4,160
\$2,253

Some of these costs would be higher than those in the HRM facilities due to the logistics of a first year operation and some would be due to the nature of a private sector operation. Although HRM staff attempted to include all comparable costs there may be additional costs in these areas or some may be included in Repairs and Maintenance.

Average revenue generated per Ice hour used was \$160.00 for BMO as compared with \$124.00 for the HRM facilities. This can be attributed to the differences in fee schedules between the two (see Table 9). This average amount can be expected to decrease in future years for BMO as the facility rents more non-prime, fringe hours and summer hours.

	BMO	HRM	BMO/H	RM
			Var	%
Revenue				
Ice	\$1,541,753	\$1,087,686	\$454,067	42%
Dry	\$16,665	\$56,139	-\$39,474	-70%
Other	\$139,959	\$8,400	\$131,559	1566%
Canteen Net	-\$21,609		-\$21,609	
Total	\$1,676,768 🕈	\$1,152,225	\$524,543	46%
Expense				
Salaries & Wage/ Mgmt Fees	\$916,676	\$917,281	-\$605	0%
Utilities	\$488,743	\$405,322	\$83,421	21%
Repairs & Mtce/Capital Reserve	\$296,793	\$464,709	-\$167,916	-36%
Insurance	\$50,388	\$20,000	\$30,388	152%
Other	\$115,209	\$15,339	\$99,870	651%
Total	\$1,867,809	\$1,822,651	\$45,158	2%
Net Profit/Loss	(191,041) \$	(670,426)	\$479,385	
% Recovery of costs	90%	63%		
Ice Hours	9,653	8,806	848	10%
Dry Hours	336	1,125	(789)	-70%
Total Hours Used	9,989	9,931	59	1%
Av Revenue/Ice Hour	\$160	\$124	\$36	29%
Av Cost/Hour used	\$187	\$184		
Av Cost/hour used ex Capital	\$167	\$180		
% of Av Winter wk capacity 2010	52%	72%		
% of Av Winter wk capacity 2011	60%	71%		
Area	144,402	102,587		
Costt/sqft	\$12.93	\$17.77		

ı.

Halifax Regional Municipality Arena Operations Assessment Report

i

	Table 9 Fee 9	Schedule HST	inc		
	NonPrime	Shoulder	Prime	Affiliated	Summer Regular
Devonshire	n/a	\$141.00	\$159.00	\$159.00	riegulai
Bowles/Gray/ Bedford	\$100.00	\$149.00	\$178.00	\$178.00	
BMO	\$143.75	\$235.75	\$264.75	\$212.75	\$235.75
Net BMO/Bowles,Gray, Bed	\$43.75	\$86.75	\$86.75	\$34.75	
% var	44%	58%	49%	20%	

## 4.0 Summary

The first year operating results for the BMO Centre as compared with those of the 4 HRM facilities amply demonstrate the economies inherent in multi-pad ice facilities as compared with single pad arenas. As indicated by the October results, the net operating results for BMO in Year 2 should show a considerable improvement over Year 1.

## **APPENDIX D2**

BMO Financials 03/31/12

This page is blank on purpose

# BMO Centre Financial Package For the period ending Mar. 31, 2012

### BMO Centre Variance Report For the period ending Mar. 31, 2012

			1		
	Actual	Budget	Variance		
Gross Revenues					
Ice rentals	188,270	216,968	(28,698)	low rentals during March break, e	xpected more
Volleyball Courts	-		-	provincial tournaments	
Shinny / Public Skate	6,462	5,000	1,462		
Contracted Advertising	18,904	10,500	8,404	catch up on one advertising contr	act, plus
Room rentals	413	500	(88)	one time production costs	
Other Leases	6,110	3,145	2,965		
Vending	0,110	2,375	(2,375)		
Miscellaneous	93	2,070	93		
Total Revenue	220,251	238,488	(18,237)		
Expenses Salaries	44.900	66 700	21.002	combined Cohodular/admin mana	and positions
Salaries	44,890	66,782	21,892	combined Scheduler/admin mana maximized roles of existing staff	iger positions
				cost recovery on Oval expenses	
Training	75	500	425	cost recovery on ovar expenses	
Uniforms	(236)	250	486		
Travel & Accommodation	(326)	417	743		
Sales & Marketing	713	625	(88)		
Advertising Production Costs	548	-	(548)		
Repairs & Maintenance	11,681	15,042	3,361	Cleaning Supplies	1,689
				Zamboni mntnce and fuel	2,421
				Snow removal	5,000
				HVAC maintenance	940
				Waste removal	976
	45.000	40.000		Other misc repairs	655
Utilities	45,360	46,800	1,440		
Insurance Fee on COI's	3,996	4,583 2,100	587 1.017		
Office Expenses	1,083 1,177	1,283	106		
Communications	1,559	1,203	149		
Management Fees	16,667	16,667	0		
Legal and Audit	1,000	1,000	-		
Interest & Bank Charges	272	360	88		
Credit Card Charges	1,627	833	(794)		
Bad Debt	(5)	-	5		
Total Expenses	130,082	158,950	28,868		
Profit (loss) before Concessions	90,169	79,538	10,631		
Canteen	261	3,420	(3,159)		
Profit (loss) before Capital Expenditures	90,430	82,958	7,472		
Capital Reserve	50,000	16,667	(33,333)		
Capital Expenditures	-	-	-		
Transfer from Capital Reserve	-	-	-		
Profit (loss)	40,430	66,291	(25,861)		

#### BMO Centre Income Statement For the period ending Mar. 31, 2012

#### **Current Month** Year to Date % of % of % of % of Actual Budget Budget Prior Yr Prior Yr Actual Budget Budget Prior Yr Prior Yr Gross Revenues 84% 188,270 87% 185,572 101% 1,616,177 1,932,723 187% Ice rentals 216,968 866,345 Volleyball Courts 0% 0% 1,329 35,000 4% 0% Shinny / Public Skate 6.462 5,000 129% 3.714 174% 30,000 194% 18.083 322% 58.226 Contracted Advertising 18,904 10,500 180% 14,730 128% 119,373 126,000 95% 35,420 337% 413 500 83% 713 58% 5,138 6,000 86% 2.021 254% Room rentals Other Leases 3,145 194% 286% 48,290 34,554 140% 3,136 1540% 6,110 2,137 Vending 0% 0% 9,880 18,000 55% 400% 2.375 2,473 Miscellaneous 93 0% 0% 2,117 0% (1)-211717% 206,866 927,477 220,251 238,488 2,182,277 85% Total Revenue 92% 106% 1,860,530 201% Expenses 66,782 67% 65% 647,270 85% 208% Salaries 44,890 69,244 760,448 311,298 Training 75 500 15% 0% 2.736 6.000 46% 3.040 90% 222 Uniforms (236)250 -94% -106% 4,547 3,000 152% 3.975 114% Travel & Accommodation (326)417 -78% 208 -157% 5.871 5,004 117% 1.421 413% Promotions & Marketing 713 625 114% 0% 1,827 7,500 24% 3,075 59% Advertising Production Costs 0% 12.315 4% 5,795 0% 12 3 1 5 47% 548 Repairs & Maintenance 11,681 15,042 78% 11,799 99% 112,808 148,208 76% 49,502 228% Utilities 45,360 46,800 97% 44,018 103% 507.226 477,000 106% 220,369 230% Insurance 3,996 4,583 87% 4,199 95% 49,377 54,996 90% 20,995 235% Fee on COI's 2,100 224% 1,083 52% 1.907 57% 25,200 77% 8,695 19,471 Office Expenses 1,177 1,283 92% 1,585 74% 26,320 15,396 171% 12,454 211% Communications 1 559 1.708 91% 1.092 143% 17.969 20 4 96 88% 10.277 175% Management Fees 16,667 16,667 100% 16,667 100% 200,000 200,004 100% 83,335 240% 0% 1,000 100% 10,000 145% Legal and Audit 1,000 14,510 12,000 121% Interest & Bank Charges 272 360 76% 364 75% 3.286 4,320 76% 665 494% 195% 84% 188% 4,580 Credit Card Charges 1,627 833 1,928 18,824 9,996 411% Bad Debt (5) 0% 0% 115 0% 0% Total Expenses 130,082 158,950 82% 165,548 79% 1,637,951 1,749,568 94% 755,996 217% Profit (loss) before Concession 90,169 79,538 113% 41,318 218% 222,578 432,709 51% 171,481 130% Canteen 261 3,420 8% 0% (24,456) 10,341 -236% 0% Profit (loss) before Cap Expend 90,430 82,958 109% 41,318 219% 198,123 443,050 45% 171,481 116% Capital Reserve 50,000 16,667 300% 16,667 300% 250,000 200,004 125% 83,335 300% Capital Expenditures 0% 0% 0% 0% Transfer from Capital Reserve 0% 0% 0% 0% -59% 40,430 66.291 61% 164% 243,046 -121% 88,146 Profit (loss) 24,651 (51,877)

#### DRAFT

#### BMO Centre Income Statement - Canteen For the period ending Mar. 31, 2012

		C	urrent Mon	th			Year	to Date		
			% of		% of			% of		% of
	Actual	Budget	Budget	Prior Yr	Prior Yr	Actual	Budget	Budget	Prior Yr	Prior Yr
Gross Revenues										
Food	2,508	5,000	50%	-	0%	25,173	37,000	68%	-	0%
Beer	5,988	10,000	60%	-	0%	38,157	80,500	47%	-	0%
Soft Drinks	3,228	2,000	161%	-	0%	29,695	19,000	156%	-	0%
Sales Discounts	(20)	-	0%	-	0%	(114)	-	0%	-	0%
Total Revenue	11,704	17,000	69%	-	0%	92,911	136,500	68%	-	0%
Expenses										
Food	2,143	1,650	130%	-	0%	17,716	12,210	145%	-	0%
Beer	1,843	4,500	41%	-	0%	18,616	36,225	51%	-	0%
Soft Drinks	1,419	750	189%	-	0%	11,626	7,125	163%	-	0%
Total Cost of Goods Sold	5,405	6,900	78%	-	0%	47,958	55,560	86%	-	0%
Gross Margin	6,299	10,100	62%	-	0%	44,954	80,940	56%	-	0%
Salaries & Wages	5,270	5,150	102%	-	0%	57,046	58,188	98%	-	0%
Marketing and Promotion	-	-	0%	-	0%	1,447	-	0%	-	0%
Cleaning Chemicals	-	-	0%	-	0%	42	126	33%	-	0%
Paper Supplies	550	1,530	36%	-	0%	6,238	12,285	51%	-	0%
Delivery Charges	-	-	0%	-	0%	68	-	0%	-	0%
Licenses	-	-	0%	-	0%	91	-	0%	-	0%
Repairs and Maintenance	94	-	0%	-	0%	96	-	0%	-	0%
Smallwares	-	-	0%	-	0%	2,400	-	0%	-	0%
Spillage	66	-	0%	-	0%	808	-	0%	-	0%
Uniforms	-	-	0%	-	0%	444	-	0%	-	0%
Cell Phones	59	-	0%	-	0%	727	-	0%	-	0%
Credit Charges	-	-	0%	-	0%	2	-	0%	-	0%
Total Expenses	6,039	6,680	90%	-	0%	69,410	70,599	98%	-	0%
Profit (loss) before Dep.	261	3,420	8%	-	0%	(24,456)	10,341	-236%	-	0%
Cost % of Revenue										
Total	46.2%	40.6%	113.8%	0.0%	0.0%	51.6%	40.7%	126.8%	0.0%	0.0%
1 Food & Concessions	85.5%	33.0%	259.0%	0.0%	0.0%	70.4%	33.0%	213.3%	0.0%	0.0%
1 Beer	30.8%	45.0%	68.4%	0.0%	0.0%	48.8%	45.0%	108.4%	0.0%	0.0%
1 Soft Drinks	44.0%	37.5%	117.2%	0.0%	0.0%	39.2%	37.5%	104.4%	0.0%	0.0%

1 Sales Discounts are not factored into these calculations.

#### BMO Centre Income Statement - Projected Forecast For year ending March 31, 2012

Run:	03-May-12
Prepared By:	Nustadia Recreation inc.

1						Actu	1							Original	% of Org	Actuals
	Apr	Мау	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	Budget	Budget	2011
Gross Revenues																
ice rentals	145.852	88.488	28,712	38.572	89.094	68.556	190.452	198,449	185,535	197.058	197,139	188.270	1.616.177	1,932,723	84%	866.345
Volleyball Courts	140,002		20,112		1,190	139	100,102	100,110	100,000	101,000	101,100	100,270	1.329	35.000	4%	
Shinny / Public Skate	3.228	3.473	3.086	4,101	3,475	3,212	3,691	5,381	6.333	8.272	7,513	6.462	58,228	30.000	194%	18,083
Contracted Advertising	10,400	7,200	10,696	7,971	8.612	8,592	8,592	9,233	9,671	8,967	10,537	18,904	119,373	126,000	95%	35,420
Room rentals	100	325	575	113		388	900	363	1.288	363	313	413	5,138	6.000	86%	2.021
Other Leases	3,228	3,204	3,597	1,210	2,482	4,369	3,398	5,834	4,928	4,923	5,011	6,110	48,290	34,554	140%	3,138
Vending	3,636	975	63	1,802	· ·	· .	1,144		· ·	2,260		- i-	9,880	18,000	55%	2,473
Miscellaneous	1,513	(4)	18	501	2	3	(18)	(1)	(1)	7	5	93	2,117		0%	(1)
Total Revenue	167,952	103,662	46,747	54,271	104,856	85,258	208,158	219,258	207,752	221,849	220,518	220,251	1,860,530	2,182,277	85%	927,477
Expenses																
Salaries	60.215	62,696	51,860	51,724	49,199	51.040	57,311	55,801	51,528	55.803	55,202	44,890	647.270	760.448	85%	311,298
Training	228	480		01,124	122	01,040	61	1,710	61			75	2,738	6.000	46%	3,040
Uniforms		-				40	145		878	3,720		(236)	4.547	3.000	152%	3,975
Travel & Accommodation	808	89	1,339	712	141	451	175	441	383	-	1,660	(326)	5.871	5.004	117%	1,421
Sales & Marketing		225		243		646						713	1,827	7,500	24%	3,075
Advertising Production Costs	165	530		330		(250)	944	708	80	944	1,796	548	5,795		0%	12,315
Repairs & Maintenance	9,148	7,528	6,240	11,841	2,701	5,195	4,635	15,438	14,476	11,186	12,741	11,681	112,808	148,208	76%	49,502
Utilities	41,335	39,003	31,117	32,198	36,826	41,291	46,604	51,531	50,792	46,770	44,399	45,360	507,228	477,000	106%	220,389
Insurance	4,199	4,199	4,199	4,199	4,199	4,199	4,199	3,996	3,996	3,996	3,996	3,996	49,377	54,998	90%	20,995
Fee on COI's	2,144	1,797	917	4,030	1,407	1,000	1,340	1,000	1,000	1,681	2,073	1,083	19,471	25,200	77%	8,695
Office Expenses	2,307	4,927	2,096	1,489	3,739	1,587	1,948	1,695	1,947	1,856	1,550	1,177	26,320	15,398	171%	12,454
Communications	1,072	1,083	1,191	1,082	3,140	1,070	1,073	1,167	1,178	922	3,433	1,559	17,969	20,496	88%	10,277
Management Fees	16,667	16,667	16,667	16,667	16,666	16,667	16,667	16,667	16,667	16,667	16,667	16,667	200,000	200,004	100%	83,335
Legal and Audit	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	3,510	1,000	1,000	14,510	12,000	121%	10,000
Interest & Bank Charges	75	674	17	7		356	450	237	252	355	579	272	3,286	4,320	76%	665
Credit Card Charges	1,070	1,270	3,756	732	579	1,128	789	949	2,598	1,887	2,444	1,627	18,824	9,996	188%	4,580
Bad Debt	•	•	•	71	•	•	•	49	•	•	•	(5)	115	•	0%	•
Total Expenses	140,432	142,168	120,400	126,326	119,729	125,418	137,340	152,388	146,832	149,297	147,540	130,082	1,637,951	1,749,568	94%	755,998
Operating Profit (loss) before Concessi	27,520	(38,506)	(73,653)	(72,055)	(14,873)	(40,160)	70,818	66,870	60,919	72,551	72,978	90,169	222,578	432,709	51%	171,481
Canteen	(7,000)	(3,338)	(3,209)	(4,808)	(2,731)	(3,630)	3,107	711	(2,575)	(691)	(552)	261	(24,458)	10,341	-236%	•
Profit (loss) before Capital Expend.	20,521	(41,844)	(76,862)	(76,864)	(17,604)	(43,790)	73,925	67,580	58,344	71,861	72,425	90,430	198,123	443,050	45%	171,481
Capital Reserve	16,667	16,667	16,667	16,667	16,667	16,667	16,667	16,667	16,667	29,167	20,833	50,000	250,000	200,004	125%	83,335
Capital Expenditures	•	•	•	•	•		•	•	•		•		•	-	0%	•
Transfer from Capital Reserve	-	-	-	-	-	-	-	-	-	-	-	-	-		0%	-
Net Profit / (Loss)	3,854	(58,511)	(93,528)	(93,530)	(34,270)	(60,457)	57,258	50,914	41,678	42,694	51,592	40,430	(51,877)	243,046	-121%	88,146
YTD Profit (loss)	3,854	(54,657)	(148,185)	(241,716)	(275,986)	(336,443)	(279,185)	(228,271)	(186,594)	(143,900)	(92,307)	(51,877)				

#### BMO Centre Balance Sheet As at Mar. 31, 2012

	Mar 12	Feb 12	Mar 11
Assets			
Current Assets			
Cash	325,378	235,151	133,422
Accounts Receivable	61,500	26,442	84,368
Due from HRM	-	-	120,000
Prepaid Expenses	27,974	65,304	29,395
Total Current Assets	414,852	326,897	367,186
Inventory	4,982	4,763	
Total Assets	419,834	331,660	367,186
Liabilities			
Current Liabilities			
Accounts Payable	132,785	171,941	131,857
Due to HRM	-	-	-
Deferred Revenue	250,777	163,876	147,178
Total Liabilities	383,562	335,817	279,035
Equity			
Retained Earnings	88,150	88,150	-
Current Earnings	(51,877)	(92,307)	88,150
Total Equity	36,273	(4,157)	88,150
Total Liability and Equity	419,834	331,660	367,186

#### Note:

A capital reserve fund exists for future capital purchases. Current balance in the fund is made up of the following: 2012 Opening Balance 83,333 2012 Additions 250,000 2012 FAC Approved Purchases -333,333

## **APPENDIX E**

Community Facility Master Plan 06/30/08 www.halifax.ca/facilities/CFMP/documents/CFMPFINALMay08.pdf This page is blank on purpose

## **APPENDIX F**

Long Term Arena Strategy Steering Committee Terms of Reference

## **Terms of Reference**

#### Halifax Regional Municipality

#### Long Term Ice Arena Replacement Strategy Steering Committee

#### Background

1. Regional Council approved the Community Facility Master Plan (CFMP) in May of 2008. The CFMP covered the provision of a wide range of community, recreation, sport, event and cultural facilities, both indoor and outdoor, in HRM. In particular, it focussed on the provision of municipally owned facilities as well as the role of HRM in partnership with other agencies such as the HRSB, the military, universities and Capital Health. Included under the Sports Facilities Category were several recommendations for a short range strategy to deal with an immediate deficit of ice arenas as well as a long range strategy to address the issue of existing aging facilities. The delivery of the new 4-pad arena facility in Bedford West off the Hammonds Plains Road is the result of the short term strategy for the immediate arena shortage. The next step is to develop a longer range strategy to deal with the remaining aging facilities.

Further reference can be made to the following recommendations in the Community Facility Master Plan:

- Recommendation #40 Arena Conversion Recommendations
- Recommendation #41 & 46 Expansion of Existing Arenas
- Recommendation #43 Recapitalization of Arenas
- Recommendation #47 Arena Replacement

Other more broad recommendations that deal with the whole HRM portfolio may also be reviewed for applicability.

#### Purpose of Steering Committee

HRM Community Development is encouraging the formation of a Long Term Ice Arena Replacement Strategy Steering Committee to:

- provide advice and direction to a staff resource team
- develop and make recommendations to Regional Council on a Long Term Ice Arena Strategy

#### **Role of Steering Committee**

The Committee's primary role is to develop and recommend a long term replacement strategy for the provision of municipally owned ice arenas in HRM. This strategy shall also consider the use of community

outdoor refrigerated ice rinks as a possible part of the replacement solution, and the 2011 Canada Games Legacy Rink. The Steering Committee will be supported by an HRM staff resource team and will direct requests and direction to this support team as needed to develop recommendations.

More specifically, the Committee will:

- review and refine a staff recommended project scope and time line
- develop with staff a public/stakeholder participation program in order to stimulate comment/ consultation and gain further input. Recommend public meetings as required.
- advise on the need and priorities for background and studies and research
- review all available background information
- take into consideration usage and future plans of any non-municipally owned facilities and potential impacts
- determine which HRM owned facilities are best suited to be recapitalized, which ones should be considered for conversions to other indoor recreation usage, and which ones would be better suited to be replaced. Include siting options/recommendations for those replacement needs.
- consider community outdoor refrigerated as a part of a long term replacement strategy. Include siting options/recommendations for those as well.
- take into consideration the 2011 Canada Games Legacy arena opportunity and recommend siting options/recommendations for this project.
- recommend a multi-year implementation plan for the long term strategy, indicating with priorities should be implemented in order
- develop with the aid of staff a high level multi-year capital budget plan using industry standard costs/sq. ft. estimates.
- will take into consideration as part of the implementation strategy should the role of user fee cost recovery, cost sharing, fund-raising and use of area rates?
- will provide periodic progress reports and will make the final presentation and recommendation of a long term strategy to Regional Council

#### Membership

Regional Council	(2)
Sport Nova Scotia	(1)
Recreation Nova Scotia	(1)
Ringette Nova Scotia	(1)
Skate Canada/NS	(1)
Speed Skate NS	(1)
Hockey Nova Scotia	(1)
Citizen at large (designation)	(1)
Citizen at large (recreation users)	(2)
Citizen at large (Lacrosse representative)	(1)

#### Selection of Membership

Selection criteria will include:

- Willingness and ability to commit to the necessary time up to a one year period;
- Commitment and interest in the planning, development and decommissioning of facilities as they relate to the scope of work of the Master Plan
- Skills and experience related to roles and responsibilities in facility management and service delivery

#### Appointment

The term of appointment shall be until the project is completed.

#### Resources

- The Facility division of Community Development will provide staff resources to the Long Term Ice Arena Replacement Strategy Steering Committee including arranging meetings, agendas, note taking (summary and action items), distribution of materials and other administrative functions. Any budget requirements for this committee will be included within the budget of the project, subject to the normal review and approval process of the Business Unit.
- The Facility division of Community Development will work as an integrated group, represented on the Steering Committee by the Project Manager, to provide professional support, expertise, and deliverables as necessary to meet the time lines and scope of the project. This group will be expanded to include participation from TPW, IAM, Finance, Real Estate, and Legal Services as required.
- Documents available:

2008 Community Facilities Master Plan
HRM Regional Plan
2008 Update to HRM Arena Capacity Study
Current HRM 5 Year Capital Plan
Various Arena Strategy documents from other Canadian cities
Council reports and Preliminary research on community outdoor refrigerated ice rinks and
2011 Canada Games Legacy arena

## **APPENDIX G**

Community Access Plan www.halifax.ca/facilities/CFMP/documents/CommunityAccessPlan.pdf