STAFF REPORT
SUBMITTED BY: Chris Frotten & Misty James
DATE: August 4, 2022
SUBJECT: New Recreation Centre Next Steps

ORIGIN

Since May 2018, we have been working on replacing our 50-year-old Recreation Centre building. Last July, we submitted an application to Infrastructure Canada's Green and Inclusive Community Buildings Program in an effort to offset a portion of the capital cost. Unfortunately, our application was denied, and the current condition of the building has since severely deteriorated. In order to determine our next steps, we are requesting direction from Council.

BACKGROUND

In June of 2018, the work of designing a new centre was awarded to SNMArchitect and subsequent design meetings were held in the summer and fall of 2018. In March of 2019, we held our first public engagement session on the project which helped guide Council's work in developing a preliminary design concept. Further design meetings in the fall of 2019 helped Council decide on a draft design and location. The design was then further revised in the spring and summer of 2020. Finally, in the winter of 2021 we held further public consultation to help you determine a final design, which you approved in April 2021. The final design is attached, and, at the time, the cost estimate was approximately $3.7 million including site work and contingencies.

The process of replacing our recreation centre has been lengthy, which is common for large capital projects. That said, the condition of the building has deteriorated severely in the last 4 years, and it has now become a safety hazard requiring considerable repairs and upgrades in order to continue using it. The attached reports outline the condition of the centre back in November 2017 and October 2021.

Finally, the centre is used by a variety of individuals and groups across a wide spectrum of uses. The table below illustrates the typical uses of our centre in a given year:

Use	Season(s)	Approx. hours/week	Avg. # of participants
Senior's Fitness	Fall, Winter, Spring	2	25
Women's Boot Camp Fitness	Fall, Winter, Spring	3	12
After the Bell	Fall, Winter, Spring	2	10
Youth Dance Class	All	4	25
Darts drop-in group	All (some down-time in summer)	3	20
Cadets	Fall, Winter, Spring	2	≈10
Kung Fu	All	2	20
Barrington Farmer's Market	Summer	4	N/A
Private functions/ Birthday Parties	All	≈3	25
Day Camps	Summer	45	50
Special Events, after school programs, etc.	All	N/A	N/A

DISCUSSION

Just as water, sewer, and public safety are considered essential public services, recreation is vitally important to establishing and maintaining the quality of life in a community, ensuring the health of families and youth, and contributing to the economic and environmental well-being of a community and a region. That is why this project is of importance and has garnered considerable public interest over the years.

Now that we've received an answer to our funding application, we find ourselves at a crossroads. We must decide whether to continue on the path of building a new recreation centre or look at alternatives to providing recreational space.

There are several factors to consider in determining our best course of action. Our financial capacity. The currently known and potential future recreational needs of our community. The synergies between the facilities on Sherose Island. Our current and future capital projects. Our current demographics and their trends. And the urgency of the matter.

Based on the information we have at this time and taking into account the factors listed above, here are four options for you to consider.

Option #1 – Continue with the new build as currently designed

Continuing with the new build as currently designed would replace the existing centre with a new centre according to the April 2021 approved design. The current design is attached to this report and would see the new centre connected to the arena by way of a shared foyer/viewing area and the centre would include a small meeting room, a kitchen, programming spaces, a group activity space, a multipurpose program space and an indoor walking track on an elevated mezzanine.

The centre as it is designed today would meet our current and future recreational needs – in particular with the parent/tot, youth and senior populations. The indoor walking track would provide a year-round amenity for one the most popular recreational activities in the Municipality and would address some of the key action items in our attached Physical Activity Strategic Plan. The walking track will also support school and community sports conditioning activities, particularly minor hockey and skating with the proximity to the arena. This synergy between the two facilities may provide recreation opportunities to our residents that do not exist at this time. While we do not have the final report of the arena assessment, it was clear that users are looking for additional conditioning and meeting space that the recreation centre will provide Having a shared, welcoming lobby also provides the feel of a larger multi-purpose recreation facility that residents are looking for and at the same time streamline scheduling and registration for our users.

Option #2 – Pause the new build and repair the existing centre

The new build could be put on hold for the short or medium term, but significant repairs would be required to the existing centre to continue using it. According to the attached November 2017 and October 2021 assessments, the facility's overall accessibility (washrooms, main entrance, etc.), emergency exit path from large hall into exterior courtyard, air quality, domestic hot water heater inside electrical room and exterior envelope, including water ingress, would all have to be repaired, upgraded and/or replaced. Also, the deteriorated interior floor finishes have become tripping hazards and wet gypsum board ceilings and insulation will continue to contribute to poor indoor air quality and the potential for mold growth.

Repairing the existing centre would allow us to continue using the facility to meet the basic recreational needs of our community for the short or medium term but would simply prolong the long-term decision.

Option #3 – Completely redesign a new build

A redesigned new build would see a new centre built at the same location but with a new design. The purpose of redesigning the building would be to drastically reduce costs to make it more affordable. Although this is not a preferred option, it is possible that a concentrated design could still meet the current and future recreational needs of our community as long as the walking track is kept. Keeping the facility connected to the arena would also maintain the enhancement of the synergy between the two facilities that may provide recreation opportunities to our residents that do not exist at this time. Creating multi-use spaces while keeping the shared lobby (another multi-use space) and the walking track would meet the main needs as specified in Option #1. Due to some movement in policy development by the TCRCE, community use of schools will be more accessible in the coming year or two and therefor larger recreational spaces will be more available. This will help alleviate the need for a larger multi-purpose room. Activities like dance and martial arts are well served by community multi-purpose space and do not require a full gym.

Although this option may achieve the goal of having a new facility, it will likely delay the project further. This may be problematic given the poor condition of the current centre.

Option #4 – Repurpose the former VIC building

In June 2023, our former VIC building will become surplus, and the current direction is to sell it. That said, it is possible that the former VIC building could satisfy the current basic recreational needs of our community with minor alterations and upgrades.

BUDGET IMPLICATIONS

As with all capital projects, careful consideration must be given to both its overall construction cost but also the cost of operating the new facility. This project is no different.

We currently have approx. $4.9 million is reserves. This, however, does take into account our $350,000 installment of the Canada Community-Building Fund (Gas Tax Fund) and the use of $1.1 million from our that reserve to pay for the upgrades at the Brass Hill Treatment Plant. At the end of the year, we should have approx. $4.15 million in reserves.

The impact on our operating budget and our capital budget and plan will depend on the direction chosen. Below is a brief description of the potential impact of each option.

Option #1 – Continue with a new build as currently designed

$3.7 million is the last cost estimate of the final design. This was a class D estimate completed by the Altus Group in April 2019. We know that construction costs have increased substantially in the last 3 years so a new cost estimate would necessary. In addition, it's important to keep in mind that class D estimates are generally an estimate based on the initial functional program and broad concept approach. The accuracy of this estimate is generally +/- 20 to 30% accurate depending on the complexity of the project and whether the project is new construction on a greenfield site or a renovation. This estimate usually contains the following contingencies: design, pricing, bid, construction, escalation, and scope.

Without any funding from other levels of government, the entire project cost would be ours to bear. It would not be advisable to drain all of our reserves for this one project, therefore we would be required to either borrow funds, increase our tax rates or cut services to pay for the project. If we were to borrow funds, our yearly payment on a $3.0 million debenture would be approx. $373,000 per year for 10 years at the current 4.5% interest rate. That represents approximately $0.093 (9.3 cents) per $100 of assessment on the tax rate.

The cost of a new build as currently designed could also increase our debt ratio to 10%, with anything above 10% being considered moderate risk. This is important to take into consideration as a new build as currently designed could impact our ability to borrow for other capital projects in the future.

In addition to the capital cost, there would be an increased operating cost compared to our current building. Unfortunately, we have yet to receive those estimates so we cannot provide any at this time.

Option #2 – Pause a new build and repair the existing centre

Considerable repairs and upgrades would be required if you opted to continue using the existing recreation centre. Based on the condition assessments attached, that cost could be between $350,000 and $400,000. As far as operations, the current centre costs approx. $20,000 per year to operate.

Option #3 – Completely redesign a new build

We've currently invested a little over $56,000 in the design phase of the Recreation Centre. Our contract with SNMArchitect for the completion of the work totals $235,000. The purpose of redesigning the facility would be to drastically reduce its construction cost to make it more affordable. Our original budget of $2.25-$2.5 million being the goal. This said, it is likely that there would be additional professional fees to go back to the drawing board and those are unknown at this time.

Option #4 – Repurpose the former VIC building

Repurposing the former VIC building would require minor cosmetic alterations and some accessibility upgrades. Our initial estimates of the cost of this work could be between $100,000 and $200,000. The former VIC building costs about $8,000 to operate but the cost of operating it as a recreation centre would likely be higher.

LEGAL IMPLICATIONS

N/A

PUBLIC CONSULTATION/COMMUNICATIONS

N/A

RECOMMENDATION

According to Eastpoint Engineering's November 2017 assessment of the building, it was the opinion of the engineers that the work required to the current centre did not justify maintaining the facility. EastPoint recommended replacement due to poor air quality, dampness/mold, rodents and current code violations with reference to electrical and mechanical systems in same room and the general age of the building. As they subsequently noted in their October 2021 assessment, the centre has continued to deteriorate since their original assessment, noting water damage to interior components including habited areas' floor's and ceilings requiring immediate attention to maintain public safety. Their recommendation was that we address water ingress and resultant interior finishes deficiencies as a minimum before allowing the public to use the Recreation Centre. For this reason, we do not recommend option #2 of pausing a new build and repairing the existing centre.

Since April 2021, we've been moving forward on this project with the design as it is today. The estimated cost of that project back in 2019 was $3.7 million. With the rise of construction costs in the last 3 years that cost estimate is likely to be more than 20%-30% higher. Since that time, Council has also made the

construction of a community health centre a priority. This is another large capital project which will require a substantial amount of time and the use of our reserves and borrowed funds to complete. Finally, for a small rural municipality, we are fortunate to have the recreational facilities we have. That said, there is an inherent risk in being sole owners of these facilities which is why you often see small municipalities and towns joining together to fund the construction and operation of them. This facility would be amazing for the community, but I cannot recommend option #1 of continuing with the design as is due to its cost, impact on other capital projects and fit for our municipality.

This leaves options #3 and #4. Both, in our opinion, present advantages and disadvantages that could provide recreational space and meet the current and future needs of our community on a long-term basis. Option #3 of redesigning the new recreation centre to drastically reduce its size and cost could help us achieve the goal of building a new facility that is connected to the arena but it will delay the project even further. Repurposing the former VIC building, option #4, is a fairly new idea but could achieve the goal of providing recreational space for the current needs of our community in a quicker timeframe and for somewhat of a long period of time. The former VIC building is next to a playground and ballfield but it would no longer be on Sherose Island and you would lose the synergies between the centre and the arena. For these reasons, option #3 is likely the better of the two but I would recommend you to consider both on their own merits.

All in all, this this is a difficult decision, but one must be made. We no longer have the option of delaying this project any longer as the condition of the current centre continues to deteriorate at an alarming and we will soon be force to condemn it.

SUGGESTED MOTION

Move to recommend to Council to direct the CAO to redesign the new recreation centre with a maximum estimated cost of $2.25-$2.5 million.

Move to recommend to Council to direct the CAO to gather more information relating to the required cosmetic alterations and accessibility upgrades to the former VIC building for its possible use as a recreation centre.

ALTERNATIVES

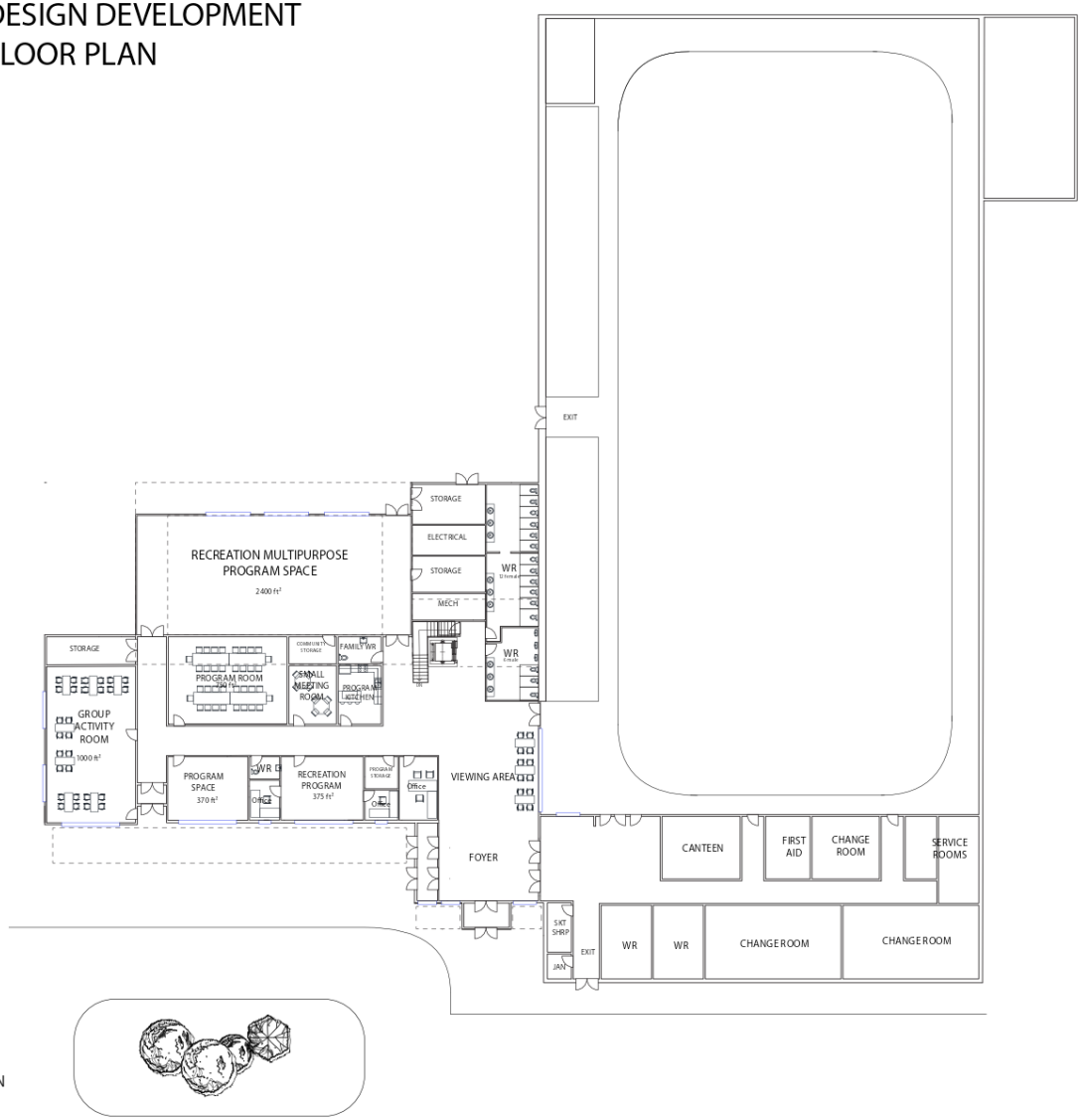
- Condemn the current centre and not replace it.

ATTACHMENTS

- April 2021 Approved Final Design
- November 2017 Infrastructure Assessment Report
- October 2021 Recreation Centre Assessment Report
- March 2021 Recreation Centre Design Feedback Staff Report
- 2012 Physical Activity Strategic Plan

DESIGN DEVELOPMENT
FLOOR PLAN

RECREATION CENTRE
BARRINGTON, N.S.
JULY 2020



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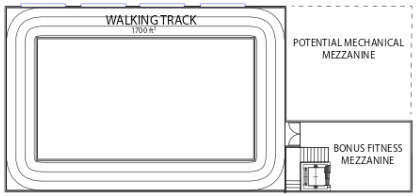
SECOND FLOOR PLAN



TOTAL SQUARE FOOTAGE:13500

MoDB1701

EastPoint Project No. 309001

November 16, 2017

MUNICIPALITY OF THE DISTRICT OF BARRINGTON
INFRASTRUCTURE ASSESSMENT AND RECOMMENDATIONS

Report Submitted to:
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1 BACKGROUND

The Municipality of the District of Barrington (MoDB) currently occupy and maintain four key facilities in the Community. Administrative offices and the Council Chambers are housed in the mid-1970's building along the main road running through town. A recreation centre, circa WWII, and a mid-1990's ice rink, are located in the social and recreational centre of Barrington on Sherose Island. The Property Services shop is also located nearby on Circle Drive, at Sherose. The intent of this report is to assess the existing conditions of these four facilities and to compare the opportunity cost of upgrading / restoration with construction of new purpose-built structures. Assessment is based on components' condition, provincial and National Building Codes and / or Canadian Standards, net areas for operational needs, building age and current user expectations for accessibility, inclusivity and security.

A multi-discipline consultant team visited the four buildings to review and document components including envelope (roof, exterior cladding, windows/doors,), mechanical systems (heating, plumbing, ventilation), electrical systems (lighting, power distribution, fires alarms) and interior finishes / layouts. Systems were reviewed with the full understanding that they would have met code requirements at the time of initial construction. A summary description of each building is supported by full systems descriptions recorded on facility audit sheets in Appendix B. Reference sketches for each building are provided in Appendix A.

2 EXISTING CONDITIONS

2.1.1 SANDY WICKENS MEMORIAL ARENA

The Sandy Wickens Memorial Arena was constructed in 1995 and is used primarily as an ice rink. The building is considered a typical pre-engineered structure. See drawing (ASK-001) for the general layout of the facility. A facility audit sheet has been compiled for the arena and is appended to this report and the findings summarized here.

2.1.2 ARCHITECTURAL/STRUCTURAL SYSTEMS

EastPoint was unable to get on the roof, due to safety concerns. However, the North part of the roof, over exit doors in the arena, is leaking into Corridor 111.

Exterior metal siding is showing average wear and condition for the age of the building. All metal doors are showing significant amounts of rust. The brick wall at the main entrance and lockers area is in generally good condition. No apparent deterioration is evident.

Change rooms and hallway leading to the rink have been covered with rubber floor. We were unable to observe concrete condition. The remainder of the slab on grade is in good condition. Ceramic tile in the canteen is in good condition.

The building does not meet the latest accessibility code B651-12. The railing at the edge of the arena seating does not extend 300mm over the first step. There is no railing at the ramp in the arena. The canteen sink counter protrudes into the exit door area. Emergency exit doors in the arena do not close.

Maintenance and repairs are estimated to be approximately $150,000.

2.1.3 MECHANICAL SYSTEMS

The Arena has a large quantity of process equipment which has been maintained, upgraded or replaced periodically. The Arena equipment is in relatively good shape with minor maintenance needed on certain items.

The fire suppression system, primarily the fire pumps, will continue to have a shortened life expectancy due to the storage of pool chemicals in the fire pump area. This system should continue to be inspected and tested on a regular basis to ensure proper operation.

Many pieces of original mechanical equipment are in good operational condition however, due to their age these items were given a condition of fair/poor.

A notable code violation would be the building HVAC system. The HVAC should be reviewed and revised to meet ASHRAE 62.1-2016 Ventilation for Acceptable Indoor Air Quality. Currently there is no fresh air supply to any of the changerooms, administration or general areas.

Expenditures in the order of $300,000 will be required over the next 5 years to maintain existing mechanical systems and provide required fresh air.

2.1.4 ELECTRICAL SYSTEMS

The Barrington Arena electrical systems are in relatively good condition, and with minor maintenance and upgrades needed on certain items, can be kept in good condition.

Many pieces of older electrical equipment are in good repair, but due to their age and lack of available parts, these items are considered to have a condition of fair.

Visually, wiring and conduit are in good condition.

Recommendations that could be easily implemented would be to retag pieces of equipment and update panel schedules, as well as removing items from in front of the electrical equipment and giving the code required one (1) metre (39") clear.

Expenditures in the order of $150,000 will be required over the next 5 years to the maintain existing electrical systems.

2.2 RECREATION CENTRE

The Recreation Centre consists of two repurposed DND wood-framed structures with a common area across the front of the building. The facility was constructed in 1968 and consists of a variety of open areas and closed office spaces. Drawing (ASK-002) illustrates the existing footprint and space allocations. A facility audit sheet has been compiled for the Recreation Centre and is appended to this report and the findings summarized here.

2.2.1 ARCHITECTURAL/STRUCTURAL SYSTEMS

The Facility is in poor condition and does not meet current Provincial or National Accessibility Standards and requirements. The building envelope, including siding, insulation and windows require maintenance. The building layout is generally poor. Work required does not justify maintaining the facility. EastPoint recommends replacement for the following reasons:

- Poor air quality.
- Dampness/mold.
- Rodents.
- Current code violations w.r.t. electrical and mechanical systems in same room.
- General age of building.

2.2.2 MECHANICAL SYSTEMS

As the Recreation Centre is used often during summer months as a child care facility, the domestic hot water system should have a tempering valve installed to protect the occupants from scalding.

A notable code violation would be the building HVAC system. The system should be reviewed and revised to meet ASHRAE 62.1-2016 Ventilation for Acceptable Indoor Air Quality. Currently there is no fresh air provided to the building.

It was also noted that the domestic hot water tank has been installed in the main electrical room which is not permitted by the National Building Code of Canada.

Expenditures in the order of $20,000 will be required over the next 5 years to maintain existing mechanical systems.

2.2.3 ELECTRICAL SYSTEMS

The Recreation Centre is in relatively in poor condition. However, with major maintenance and upgrades, certain items can be brought up to code and fair condition.

Many pieces of older electrical equipment are presently in fair condition, but due to their age and lack of obtainable parts, these items are considered to be at end of life and should be replaced.

In addition to the electrical room containing a hot water heater, which would not be acceptable when bringing the electrical system up to meet current code requirements, another electrical code violation is the inadequate service space in front of an electrical panel.

Visually, wiring and conduit are in good to fair condition.

Recommendations that could be easily implemented would be to retag pieces of equipment and update panel schedules, as well as removing items from in front of the electrical equipment and giving the code required one (1) metre (39”) clearance in front of the electrical panel.

Expenditures in the order of $40,000 will be required over the next 5 years to maintain existing electrical systems.

2.3 PROPERTY SERVICES / PUMP HOUSE

The Property Services Office was constructed in 1959 and is a conglomerate of garage and office space that is grossly undersized. The Pump House is adjacent to the Property Services Office and houses all pumping requirements for the Municipality. A facility audit sheet has been compiled for the Property Services / Pumphouse facilities and is appended to this report and the findings summarized here.

2.3.1 ARCHITECTURAL/STRUCTURAL SYSTEMS

This Property Services Office does not meet the stated operational requirement to house a snow plow and salt truck, provide storage for general consumables, and minimal office area. It is recommended that a new, purpose-built facility be constructed.

2.3.2 MECHANICAL SYSTEMS

In general, the garage is in good operational condition with the only complaints being that space is inadequate for the needs of the Municipality.

A notable code violation would be the building HVAC system. This system should be revised to meet ASHRAE 62.1-2016 Ventilation for Acceptable Indoor Air Quality. Currently there is no fresh air supplied to the office area.

Expenditures in the order of $20,000 will be required over the next 5 years to maintain the existing mechanical systems.

2.3.3 ELECTRICAL SYSTEMS

The Property Services Office electrical system is in relatively good condition, and with minor maintenance and upgrades needed on certain items can be kept in good condition.

Many pieces of older electrical equipment are in good condition, but due to their age and lack of obtainable parts, these items are considered to have a condition of fair.

Visually, wiring and conduits are in good condition.

Recommendations that could be easily implemented would be to retag pieces of equipment and update panel schedules, as well as removing items from in front of the electrical equipment to provide the code required one (1) metre (39") clearance.

There is also a Pumping Station at the same location as the Property Services Office. The Pumping Station has a separate feed from the NSPI pole-top transformers to a service entrance electrical panel that feeds the building lights and the mechanical equipment located within the Pumping Station Building.

The distribution panel is Federal Pacific and is in fair condition, but has little room for future expansion. The interior lighting, wiring devices, and lighting controls are in fair condition. The exterior lighting appears to have been upgraded to LED lighting. The fire alarm for the Pumping Station appears to be tied into the Property Services Office fire alarm system.

Expenditures in the order of $15,000 will be required over the next 5 years to maintain the existing electrical systems.

2.4 ADMINISTRATIVE CENTRE

The Administrative Centre was constructed in 1976 and is used primarily as administrative offices. The attached drawing (ASK-003) shows the existing Municipal Administration use and leased space. A facility audit sheet has been compiled for the Administrative Centre and is appended to this report with the findings summarized here.

Discussions with the Municipality indicated that the entire area currently occupied for administrative purposes is not required. Much of this space is being used for files and general storage, or is unoccupied. Approximately 40% of the space is occupied by the Municipality with 35% being leased to other government departments and 25% is vacant / unoccupied space.

2.4.1 ARCHITECTURAL/STRUCTURAL SYSTEMS

The Administrative Centre is constructed as a slab-on-grade structure at the north side, and a two-storey (basement) structure on the south. At the junction, there is a considerable separation and areas of ground water penetration. Windows, doors, accessibility and overall envelope renovations are required.

2.4.2 MECHANICAL SYSTEMS

A notable code violation would be the Administrative Centre building HVAC system. This should be reviewed and revised to meet ASHRAE 62.1-2016 Ventilation for Acceptable Indoor Air Quality. Currently there is no fresh air supplied to some of the administration or general facility areas.

The domestic water tank has been installed in front of the panel which allows water to be piped over the electrical panel. This is a code consideration and facility risk.

Another noted discrepancy is the fire suppression system or lack there of. It was reported that the demolition of the fire hose cabinets was approved through the local authority having jurisdiction, however there was no documentation for this or engineering drawings for the project. This should have an in-depth review to ensure the proper life safety measures are in place.

Expenditures in the order of $175,000 will be required over the next 5 years to maintain the existing mechanical systems.

2.4.3 ELECTRICAL SYSTEMS

The Administration Centre electrical systems are in relatively good condition and, with minor maintenance and upgrades needed on certain items, can be kept in good condition.

The main electrical room has a large spot on the floor where the paint has lifted indicating water damage. As the main switchboard is raised up on a housekeeping platform, the switchboard doesn't seem to be damaged, but this room should be repaired to ensure that no further leaks occur.

At least one distribution panel is designed to have a main circuit breaker, but is taped over instead of being used. Distribution panels should be used for their designed purpose, so this panel should either have a main breaker installed, or the panel should be changed out to an MLO panel. Another code violation is inadequate service space in front of the electrical panel.

Many pieces of older electrical equipment are in good condition, but due to their age these items are considered to have a condition of fair.

Visually, wiring and conduit are in good condition.

Recommendations that could be easily implemented would be to retag pieces of equipment and update panel schedules, as well as removing items from in front of the electrical equipment, to provide the code required one (1) metre (39") clearance.

Expenditures in the order of $175,000 will be required over the next 5 years to maintain the existing electrical systems.

2.5 WASTE WATER INFRASTRUCTURE

The Municipality of the District of Barrington operates three wastewater collection and treatment systems. These serve Woods Harbour, Barrington and a small facility at Sherose Island. The first two systems are extensive and have numerous pumping stations, and each facility has a sewage treatment plant.

The data for this report was gathered in the field during two one-day site visits. On the first day all of the pumping stations were visited, and on the second day the treatment facilities were visited. During the data collection Municipal operating staff accompanied the data collector. Much of the data quality depends on the knowledge of the accompanying staff persons. Their experience with the systems was important since the pumps were not pulled to preform a detailed examination of the equipment, and therefore relied on their comments, experience and knowledge.

Collection pipe infrastructure was not considered since video inspection reports were not made available. It is assumed that video inspection has not been done. The operators commented that the sewers are cleaned regularly in a maintenance program and that the sewer collection infrastructure was generally in good condition with few apparent problems.

The pump stations were visited, and the condition of visible equipment was noted. A detailed table of pump stations is provided in a spreadsheet for all of the data collected. It is anticipated that Municipal staff will review the table for accuracy and provide comment.

2.5.1 PUMP STATIONS

All pump stations are of the submersible type. Most of the pump stations have two pumps, one for duty and one for standby in lead lag mode. Although the pump stations were constructed over twenty-five years ago, most of the hard infrastructure appears to be in good condition. Wet wells and monuments varied in size but were always in good condition. The exposed components that showed the most deterioration were the control panels and hatches. In many pump stations panels had been altered, and in a few cases replaced. In many cases the alterations reduced the complexity of the panels by eliminating the control interface which converted the panel to relay type controls. In some cases, the frequency of lightning surges necessitated these changes.

In most pump stations the pumps are or were Flygt 3085 pumps. Many still have these pumps but recently there have been replacements with Sultzer pumps equal to the original Flygt model. When this occurs, it is important to keep a record of the change. Converting from one pump manufacturer to another brand can have impacts on pump station performance. Therefore, it is important to record the performance of the new pump in comparison to the original pump. Unfortunately, the pump stations have very little instrumentation to enable this to be done. To do this each pump station would need a flow meter and discharge pressure gauge. Where pump stations only have one pump, there should be a spare pump maintained at the nearest plant.

The pipe work in the pump stations was originally ductile iron which is a very durable product. In Barrington many pump stations have been retrofitted with PVC pipework. The pipework and valves are all located in the wet well. This makes repair and maintenance very difficult. Modern submersible pump stations are required to provide a separate valve chamber. This simplifies the pipework in the pump chamber and eliminates many maintenance issues related to entering the wet well and confined space.

Many pump stations had the power to the pump panel pass through the wet well. This practice should be eliminated as a potential hazard. It was done because the monuments were set on top of the wet well, but it is not a good practice by todays standards.

Many access hatches are showing signs of their age and a few have been replaced. New replacement hatches now have safety grates which prevent potential accidents when the hatch is open. None of the original hatches have safety grates. If safety grates are not in place, Department of Labour inspectors could issue fines when the hatches are opened and no barrier, or anchor point, is in place. While safety grates have to be opened for access to the chamber for maintenance, they do fulfill a function and should be part of any hatch replacement. Hatches noted for replacement are due to corrosion. The hatches all functioned and fulfilled the access requirements. The main concern is for security, and for this the hinges and locks are important. Many hatches use chains to lock the closed position. However, this may not be effective if hinges are not fully functional. The hinges of every hatch should be inspected and repaired if not identified for replacement. The use of chains, while effective, leaves the lock available to be cut with bolt cutters and therefore vulnerable to vandalism and tampering.

Panel upgrades are required on many pump stations. This provides an opportunity to consider the future of the overall system. In Woods Harbour the panels have been equipped with alarm notification systems. This is a basic dialer that calls operators if there is a malfunction of the pump station. This results in callouts and overtime costs. Modern control panels have SCADA systems which allow operators to check and acknowledge alarms remotely. This can reduce costs of after hours callouts.

SCADA also provide data which can be used in assessing both the pump station and the collection system. When provided with input from flow meters the SCADA can provide most of the information necessary to document performance. The potential downside is the susceptibility to power surges caused by lightning. Wherever possible, panel upgrades should be completed with the long-term goal of implementing a SCADA system.

Currently panel replacements and repairs are being made by L&B Electric from Bridgewater, NS. It is uncertain whether there is an overall plan or whether each pump station is dealt with to correct problems. It is recommended that an overall plan be put in place before spending capital on control panels which may not meet the future goals.

Instrumentation is very limited in most control panels. All operate from control floats. A few have additional instrumentation such as current meters and hour meters. No pump station was equipped with a flow meter or continuous level measurement. These would be very useful if SCADA was to be implemented.

Overflows were originally part of every pump station. Many have been plugged to prevent discharges. However, it needs to be confirmed for each pump station, whether there is an overflow or not. It is required to report pump station overflows to NSE and to keep a record of frequency and duration of overflows.

During the field trips it became apparent that there are significant issues with records availability. The sewage treatment plant in each collection system would be the appropriate location to keep records for each system. There were no collection system drawings at the plant and no drawings for the plant. Drawings must be kept at the plant as part of the approval requirements. Each plant should also have the plant records available including flows and test results. These do not have to be in paper form but can be in a computer as electronic files. This is essential for proper documentation of the system and any changes made over the life of the system. During the study annual reports, as required by NSE, were not made available for review. Each plant should have an O&M Manual, emergency response and contingency plans. These are normal requirements of the approval. Based on this assessment the plants are basically in violation of the approvals. Facility audit sheets for the pump stations in Woods Harbour and Barrington pump stations is appended to this report and the findings summarized here.

The following should be long term goals:

- Provide each pump station with an external valve chamber and a metering chamber.
- Identify the requirements for a SCADA system to serve the Municipality
- Only replace control panels with panels meeting SCADA requirements.
- Provide current sensors and readout for each pump.
- Convert to continuous level sensing in wet wells.
- Renovate wiring to eliminate power passing through the wet well.
- Replace hatches with hatches having safety grates.
- Confirm which pump stations have active overflow capability.
- As part of the SCADA upgrade provide a computer at each plant as an operator interface.
- Send out all existing as built drawings for the system to be scanned to large format PDF.
- Keep appropriate records and documents at the plants as required by the approvals.
- Where a pump station has only one pump, maintain a spare at the nearest plant.
- The hinges of every hatch should be inspected and repaired if not identified for replacement.

2.5.1.1 WOODS HARBOUR PUMP STATIONS

There are 9 pumping stations; only four had duplex pumps the rest were single pump installations. The single pump installations were generally very small pump stations, only serving a few houses. This has not proven to be a problem and is workable in the future. It is recommended that a spare pump, suitable for any one of these stations, be maintained at the nearest treatment plant.

The most significant problem is at PS6 which experiences forcemain breaks. The pumps often cannot meet the flow demand, so the pump station should be upgraded with pumps providing more capacity. The forcemain is reported to be 2" diameter; upgrading to 4" would substantially improve the pump output. This pump station needs further study to determine the flows to the pump station and the appropriate capacity of the pumps.

PS3 also has capacity issues although the internal 4" pipes and 6" forcemain appear to be adequate. It is reported that the sewage flows out the top on occasion. This should be further studied to determine the appropriate upgrades to the pumps and pipes. This pump station needs a new panel as well.

PS 2 needs a new panel and PS 1 requires a new panel and new hatches.

In summary, two pump stations need a more detailed study leading to increased capacity. Four additional pump stations need new panels. One pump station needs new hatches.

2.5.1.2 BARRINGTON PASSAGE PUMP STATIONS

There are 15 pump stations in the system that runs from Barrington Passage to Brass Hill where the sewage treatment plant is located. These are all submersible type pumping stations with a wet well and monument to support the control panel. In general, the concrete infrastructure is in good condition, and it is only the panels and hatches the need attention.

Five panels are identified as at end of their life and in need of replacement. Panels are often mounted over a bus box and the bus boxes are in need of replacement in three pump stations. The bus box at PS 9 is closed by electrical tape and is a hazard. The others are corroding and may not last many more years if corrosion is not halted.

PS3 is the only station requiring the hatch to be replaced.

2.5.1.3 ESTIMATED COST OF UPGRADES

The following costs are Order of Magnitude costs for the pumping stations and are considered to be for budgetary purposes only. They are based on our experience with similar upgrades and do not necessarily reflect a contractor bid price at time of tender. More detailed studies are required to develop more accurate prices based on a scope of work and timing of upgrades. Engineering studies are required to define contractors scope of work and prices will be affected by the required scope of work.

Budgetary Upgrade Costs

Short term Upgrades	#	Unit Cost	Total Cost
Replace Panels (SCADA ready)	7	$ 60,000	$ 420,000
Replace Hatches	2	$ 10,000	$ 20,000
Bus Box upgrades	3	$ 2,000	$ 6,000
Replace WH PS6**	1	$ 100,000	$ 100,000
Replace FM from WH PS6**	300	$ 450	$ 135,000
subtotal			$ 681,000
Engineering studies and designs		15%	$ 102,150
Scada Planning (engineering)	1	$ 25,000	$ 25,000
Total Short Term Upgrades			**$ 808,150**

Long Term Upgrades	#	Unit Cost	Total Cost
external valve metering chambers	24	$ 60,000	$ 1,440,000
Scada implementation**	27	$ 30,000	$ 810,000
level instumentation	24	$ 4,000	$ 96,000
Electrical upgrades	24	$ 10,000	$ 240,000
Hatch upgrades	18	$ 10,000	$ 180,000
subtotal			$ 2,766,000
Engineering studies and designs		15%	$ 414,900
Total Long Term Upgrades			**$ 3,153,300**

notes:
** subject to further study
Cost for long Term Ugrades are time sensitive
HST excluded

Cost Estimate – Pumping Station Upgrades

2.5.1.4 PUMP STATION PROGRESS PLAN

While costs have been identified for long and short-term upgrades. It would be unwise to start these without an engineering study to define the type of system and features that are required in the long term. The study should focus on the panel upgrades to establish a standard of quality and features for the panels that will ensure that they meet the anticipated long-term needs. The panels must be designed for SCADA implementation. It would be unfortunate if panels were replaced and then turned out not to be compatible with long term objectives. Therefore, the first project to be undertaken should be the SCADA study in which the existing panels would be examined for capability for the long term and integration into the long-term solution, and to determine how the SCADA system should be configured. Although we have identified 7 panels to be replaced this should not be done until the SCADA study is completed and the needs have been properly identified.

2.5.2 SEWAGE TREATMENT FACILITIES

There are three sewage treatment facilities in the municipality with locations in Sherose Island, Woods Harbour, and Brass Hill.

2.5.2.1 SHEROSE ISLAND FACILITY

The Sherose Island facility is a small treatment plant using Recirculating Sand Filter (RSF) technology. It serves a few buildings located in the vicinity including the Recreation Centre, an RV dump station and Property Services building. This treatment facility is relatively new (2012) and requires routine maintenance such as sludge removal and UV bulb maintenance in accordance with manufacturer's instructions.

The plant consists of:

- 42 M^3 septic tank with an effluent filter;
- 42 M^3 recirculation tank complete with pumps to the RSF bed;
- A five-zone valve;
- A 186 M^2 recirculating sand filter bed complete with distribution and effluent pipes;
- A stinger valve to discharge effluent;
- An effluent pump and UV system; and
- Outfall pipe.

It is noted that some of the distribution pipes have become exposed at the surface of the RSF. These need to be protected. It appears that there may not have been enough pea gravel cover supplied during construction. It is recommended that at least 8" of clean pea gravel be placed over the RSF bed.

It is important to monitor the sludge accumulation in the septic tank, recirculation tank and to clean the screens of the pump vaults and filters. High water levels can result from excessive flows or from failure to clean the screens and filters. On the visit high water levels were observed and reported to the operator.

This facility needs only routine maintenance and to top up the pea gravel.

No records were available for performance or flows. The permit was not available for review, but it is anticipated that continuous flow monitoring is required. An effluent flow meter should be installed.

There is also a dump station facility provided for tourists in RVs at the Sherose Island site. The RVs can drain their holding tanks into septic tanks which are periodically cleaned with a vacuum truck. The supernatant from the tanks is pumped to the Sherose Treatment facility.

There are no obvious needs at this facility.

2.5.2.2 WOODS HARBOUR SEWAGE TREATMENT PLANT

This plant was constructed on or about 1990 and has not had any upgrades. It is a Class 2 plant requiring monthly sampling and quarterly and annual performance reports.

The plant consists of:

- A headworks structure which has a bar screen and rock trap; (the bar screen drive is not functioning)
- An oxidation ditch with an approximate volume of 400 M^3 and having two 7.5 hp brush aerators;
- A 20-foot diameter effluent clarifier complete with aluminum cover and sludge scraper mechanism;
- Two 2.2 hp sludge return pumps;
- Chlorine contact tank with liquid hypo chlorite feed pump; and
- 536 foot long, 8" diameter outfall.

The control building is located over the chlorine contact tank. The building is in good condition but needs some minor exterior maintenance. The chemical feed for disinfection is located in the building. The building contains the electrical distribution and control MCC. The location of the chemical feed is not ideal. It should be in a separate room separated from the electrical facilities. There is also a hatch from the main room to the chlorine contact tank effluent weir. This could introduce moisture into the same area as the controls. The weir is the measuring point for plant flows. In future there will be a need to add dechlorination or convert to UV disinfection. Dechlorination could be added to the effluent at the weir but a sample point will need to be added to prove that there is no chlorine residual. The alternative is to abandon chlorine and implement UV disinfection as was done at Brass hill. If this was done it would be best done in a new building.

In general, the plant is operating well and is physically in good condition and should not require any significant upgrades.

It is likely that this plant would become the central SCADA facility for the Woods Harbour collection and treatment system. There is not much to control at this plant, so the function would be mostly to monitor the operating equipment. It is possible that the MCC could be upgraded with current monitors, and other instruments could be added to monitor effluent quality including suspended solids monitors. The SCADA system would provide better records of flow. Flow is currently recorded by hand once a day. It would be desirable to have continuous record of flow for trouble shooting the plant and identifying peak flows.

The plant currently receives about 50,000 gpd of flow which is well within its capacity. The rating on the clarifier would be about 650 M^3/d or about 170,000 USgpd with a peak capacity of about 425,000 USgpd. Examination of flow records indicates that there is no significant impact from inflow and infiltration.

This plant would benefit from repair to the bar screen or from a new influent screen. Inefficient screens lead to higher maintenance costs due to wipes etc. clogging sludge pumps and impinging on the aerator brushes. Although not required, it is advisable to have good screens at the headworks. Modern screens can remove material down to ¼ inch and protect downstream equipment. They can also be fitted with screening dewatering and bagging for improved disposal.

This plant does not require any major upgrades. Any upgrades which may be considered in future would be those required by the approval or to implement SCADA.

2.5.2.3 BRASS HILL SEWAGE TREATMENT PLANT

This plant was constructed on or about 1990 and was upgraded in 2012. It is a Class 2 plant requiring monthly sampling and quarterly and annual performance reports. All flow to the plant is delivered by PS9.

The plant consists of:

- A headworks structure which has a manual bar screen and rock trap;
- An oxidation ditch with an approximate volume of 800 M^3 and having four10 hp aspirating aerators;
- A 34.66 foot diameter effluent clarifier complete sludge scraper mechanism;
- Two 3 hp sludge return pumps;
- UV disinfection; and
- 260 foot long 8" diameter outfall.

The control building is in good condition but needs some minor exterior maintenance. The building contains a small lab, washroom, an office and the electrical distribution and control MCC. There is also a maintenance bay. The electrical system was completely upgraded in 2012 and is in excellent condition.

In general, the plant is operating well and is physically in good condition and should not need any significant upgrades. At the time of the visit there was foaming on the surface of the oxidation ditch. This is common in extended aeration plants but makes it difficult to meet effluent TSS objectives. It is often associated with excess grease in the influent and generally occurs during the summer season. Its impact can be seen in the TSS results between July and September. The Municipality may want to ensure that grease traps are required and maintained at restaurants discharging to the system.

It is likely that this plant would become the central SCADA facility for the Barrington collection and treatment system. There is not much to control at this plant, so the function would be primarily monitor the operating equipment. It is possible that the MCC could be upgraded with current monitors, and other instruments could be added to monitor effluent quality including suspended solids monitors. The SCADA system would provide better records of flow. Flow is currently recorded by hand once a day. It would be desirable to have continuous record of flow for trouble shooting the plant and identifying peak flows.

The plant has been converted from brush aerators to aspirating floating aerators. Two of the four aerators were out of service at the time of the site visit. These aerators may not be the best way to achieve aeration requirements, but they do accomplish the task. It would be possible to operate the aerators on SCADA control using DO monitoring to turn off two aerators when the load to the plant is low.

The plant currently receives about 120,000 to 150,000 USgpd of flow which is well within its capacity. The rating on the clarifier would be about 1848 M^3/d or about 487,000 US gpd with a peak capacity of about 1,200,000 US gpd. Examination of flow records indicates that there is some impact from inflow which typically raises the flow to about 250,000 US gpd. It is well within its peak capacity. Therefore, there is no need of upgrades to capacity.

This plant does not need any major upgrades and upgrades which may be considered in future would be those required by the approval or to implement SCADA. For future consideration the plant would benefit from automated screens as discussed for Woods Harbour.

3 OPTIONS

After completing the inspections of all of the structures listed in the MoDB assets the following options have been developed:

Option 1: declare the existing Recreation Centre, Property Services, and Administration buildings as surplus and construct three separate purpose-built facilities as direct replacements. In the case of the Recreation Centre and the Property Services facility the new infrastructure would be constructed on adjacent lands at Sherose Island while the existing infrastructure is used to support the ongoing activities of each program. See drawing (ASK-002) for conceptual layout of a new Recreation Centre compared to the existing facility.

The new Recreation Centre would be in the same general vicinity as existing;

- To maintain tie with the recreation complex.
- Day care facility uses adjacent services such as pool and rink.
- Recognized gathering spot for community/sporting events.
- Parking for evening and weekend activities.

The new Recreation Centre would be:

- A single-storey structure with frost wall and slab on grade.
- Wood construction.
- Electric heat.
- Fully accessible to B651-12 Standards.
- Provide greater flexibility for community events.
- Would not be joined with the arena due to interferences with rink parking and the increased child/vehicle interaction; aesthetically the addition would give the appearance of an add-on and limit architectural options for the new recreational centre.

The Property Services compound would be:

- A single-storey structure with frost wall and slab on grade.
- Wood construction.
- Electric heat.
- A two-bay truck garage would be constructed as an integral component of the building.
- The pump house would be maintained at it's present location.

The new Administration building could be constructed at a new location along highway 3. With the size of the land area where the existing building is located, a new administration building could be constructed adjacent to the present building and sized to meet present needs. In either case the location would still provide the level of visibility as the present location provides. The building would be sized in accordance with today's requirements. The new recreation building would be:

- A single-storey structure with frost wall and slab on grade.
- Wood construction.
- HVAC system.
- Fully accessible to B651-12.

Option 2: declare the existing Recreation Centre, Property Services, and Administration buildings as surplus and construct a single purpose-built facility that would meet the needs of all three as either an addition to the Wickens Memorial Arena or a stand-alone facility adjacent to the arena.

Attached drawing (ASK-004) "Proposed Space Allocation - 1 Level" shows a single-storey addition constructed along the side of the existing arena. This connection would be made at the existing door to provide an operational link. A playground to serve child-care requirements and layout for both assembly and gathering space, and support recreation administration could be achieved.

Municipal Offices, public interaction and the Council Chambers would be adjacent to the recreation component. Both of these spaces are accessed from Park Lane. However, the attached Property Services garage would be accessed from the back portion of this site, providing user safety and vehicle traffic separation.

Drawing (ASK-005) takes a similar approach but creates a two-story structure. This reduces overall footprint and provides a single, shared entry for the Municipal and Recreation functions. Although using less space on site, two stairwells and an accessible elevator will be required.

Drawing (ASK-006) provides a two-storey addition on the gable end of the existing arena. The arena entrance and lockers remain in the current locations. The Recreation area can be on the grade level with direct access to the existing pool and rink. Municipal Offices and Council Chambers would be above the existing lockers and ground floor addition. A new "warm room" could also be located on the second floor to provide viewing into the present rink.

The new tri-service building would be:

- A one or two-storey structure with frost wall and slab on grade.
- Wood construction.
- HVAC system.
- Fully accessible to B651-12 Standards.
- A two-bay truck garage would be constructed as an integral component of the building.
- The pump house would be maintained at it's present location.

New Administration Offices and Council Chambers centralized on Sherose Island would:

- Provide proximity to Recreation and Property Services.
- New construction and systems to meet all current codes and standards.
- Able to plan and build for future flexibility.
- Cost of new construction not much greater than renovation of existing. Sale of existing Administration building could reduce overall capital requirements.

This option removes visibility of MoDB Administrative offices. Based on the cost of recently constructed facilities in Berwick and Yarmouth cost is a factor. This option will also need to address what to do with existing Administration building.

Option 3: declare the existing Recreation Centre, Property Services buildings as surplus and construct a single purpose-built facility that would meet the needs of both, as either an addition to the Wickens Memorial Arena or a stand-alone facility adjacent to the Arena.

In this option the existing Administration building would be renovated to meet today's requirements and scaled to the requirements of the present administration. The existing Administration building is large enough to accommodate a phased approach with occupants moving to vacant areas of the building while their permanent space is being renovated. The renovation of the existing Administration building is considered viable because:

- A new roof was recently placed on portion of building
- Lower level can be used as swing space while admin area/leased areas are renovated.
- Would require exterior face lift with removal and replacement of the "shingled" cladding.
- New windows for entire building.
- New roof on remaining portion of the building.
- New mechanical systems to replace window a/c units.
- Building would be made accessibility compliant to B651-12 Standards.
- Settled concrete slab would be addressed.
- Maintains the administration visibility in Community of Barrington.

4 COST ESTIMATES

4.1 Buildings

Cost for renovations and upgrades to existing facilities must be weighed against both long-term maintenance/operational costs and full facility replacements. Additionally, operational efficiencies may be realized by building new facilities. These include modern and sustainable energy systems and use, full accessibility, "right-sized" functional space planning, ability to plan for future flexibility or growth and a centralized location.

Sandy Wilkens Memorial Area is located at Circle Drive and Park Lane, Sherose Island. The Recreation Centre is across the street, and the curling rink is also accessed from Park Lane. Existing baseball facilities are located off Circle Drive as well. This is the social and recreational centre of Barrington. Therefore, the opportunity to centralize municipal administration with recreation and support areas on Sherose Island may make operational sense.

Costs for construction of new facilities in the Barrington and Shelbourne areas tend to be higher than the Annapolis Valley or Greater Halifax. As a basis for the comparison of new construction versus renovation, \$3500 /M^2 (\$350/ft^2 ±) is used for new work, and \$2500/ M^2 (\$250/ft^2 ±) for renovations. This renovation cost does not include hazardous material remediation such as moulds, asbestos, lead or leachates.

- New two-storey construction at side of arena: 1, 210 M^2 = \$4.24 M
- New two-storey construction at end of arena: 1,570 M^2 = S5.50 M
- New one-storey construction at side of arena: 1,210 M^2 = \$4.10 M.
- Renovated Municipal Administration Building 1,656 M^2 = \$4.14 M plus Recreation Centre.

Should the existing Municipal Building be re-purposed and sold to private business (residential / commercial) it appears to make economic sense to construct new facilities. Further discussion on final layout and location is required to confirm the operational benefits of a centralized location on Sherose Island.

4.2 Highway 103 Development

The cost estimate provided is high level treating each route as equal unit costs. In fact, the routes may be different due to rock and other features which cannot be accounted for in this exercise. There are already services on River Road so this reduces the number of new services. Services that were more than 50 m from the road were not included. The order of magnitude cost estimate for the wastewater expansion is provided in the table below.

Under the above parameters it would take four times the number of services on each route to make the extension of waste water infrastructure to Municipal lands adjacent to Highway 103 pay in 25 years at 5%. The answer is to have each development provide their own services using onsite technology. This way the Municipality only need develop the access and subdivide the land. The lots could be made large enough to have onsite services for each type of development. To go beyond this point, The Municipality needs to have a concept plan and engineering study for the land. This study demonstrates that central services may not be an appropriate development strategy.

Barrington Service Extension

Oak Park Road

Item	Unit	Quantity	Unit Price	Cost
Pump Stations	each	2	$ 200,000	$ 400,000
Forcemain	m	1200	$ 130	$ 156,000
Gravity Sewer	m	2013	$ 150	$ 301,950
services	each	20	$ 2,000	$ 40,000
Highway Crossing	LS	1	$ 160,000	$ 160,000
SuBtotal				$ 1,057,950
contractors duties and profit		35%		$ 370,283
Estimated Cost				$ 1,428,233
revnue from new services		20	320	$ 6,400
Future value of the service payments invested at 5% for 25 years				($305,453.43)

River Road

Item	Unit	Quantity	Unit Price	Cost
Pump Stations	each	3	$ 200,000	$ 600,000
Forcemain	m	1320	$ 130	$ 171,600
Gravity Sewer	m	2145	$ 150	$ 321,750
services	each	30	$ 2,000	$ 60,000
Highway Crossing	LS	1	$ 160,000	$ 160,000
SuBtotal				$ 1,313,350
contractors duties and profit		35%		$ 459,673
Estimated Cost				$ 1,773,023
revnue from new services		30	320	$ 9,600
Future value of the service payments invested at 5% for 25 years				($458,180.15)

Conclusion: In both cases the Municipality must make a substantial investment or plan to recover the additional cost from the development of the land. Alternately the development may proceed with onsite systems serving each site.

Cost Estimate – Extension to HWY 103

5 SUMMARY

5.1 BUILDINGS

Representatives of EastPoint met with MoDB Stakeholders on October 30, 2017 to review the options identified in this report and to discuss potential for multi-use or shared spaces. The consensus gathered from the discussion indicated that a multi-service facility addressing the space requirements for the Administration and Recreational needs would be the desired approach.

Earlier discussion with the Municipality suggested that the Administration building contains more space than it currently required for use. The Administrative functions are housed in 40% of the total building, 35% of the building is leased to other users, and approximately 25% of the overall space is unused. EastPoint suggest that with minor layout changes, the total useable space for a new Administration building could be reduced by ±30%.

Therefore, the discussion of 500 M^2 for the Municipal Administrative functions is a reasonable area. The additional 500 M^2 for Recreation use also appears to be functional and a realistic estimate of the Centre's requirements. It was noted that both the Administration facility and Recreation Centre potentially offer space which may be shared or used at specific times of day. For example, the Council Chambers function on a regular but limited schedule. Rather than construct purpose-built Council Chambers, this Building component might be designed for flexible, multi-purpose use. The area could house local gatherings, meeting or reception uses, and the regular council functions. This approach could potentially reduce the overall combined building area of 10,000 M^2 to provide adequate funds to construct a new stand-alone Property Services garage.

During the discussions, EastPoint identified standard percentages of overall energy consumption for typical facilities:

- HVAC: 40%
- Lighting: 25 to 30%
- Misc. (Hot water, office equipment): 30% ±

Therefore, the potential to reduce overall space, whether used for Operations or Storage, could reduce on-going O & M costs over the short and long term. Should the Municipality elect to construct new facilities, the energy savings based on new equipment, efficient building envelopes, and sustainable operating procedures will offer additional on-going savings.

Siting of an 800 M^2 building housing the Administration and Recreation operations with 200 M^2 of common use space is provided in the following drawing ASK-007. The 200 M^2 Property Services garage is also located on the siting plan. The anticipated cost for the Administration/Recreational building is $2.8M with the cost of the Property Services garage being estimated as $700k.

5.2 STORM AND WASTEWATER

The storm and wastewater systems are in relatively good condition with the odd exception. The emphasis on going forward would be the implementation of a SCADA system for monitoring the performance of the individual systems. There is also a need to make the pumping station facilities compliant with provincial Environment and Labour departments.

Extending the wastewater infrastructure along Oak Park Road or River Head Road to service municipal lands at Exit 30 of Highway 103 is only economically viable, at today's annual hook-up rate, if there are four times the number of services connected on each route.

EASTPOINT

DRAWING TITLE:

ALTERNATIVE
BUILDING LOCATION

DWN BY:	D.M.	CKD BY:	J.M.
DES BY:	J.M.	SHT NO:	

SCALE: NTS

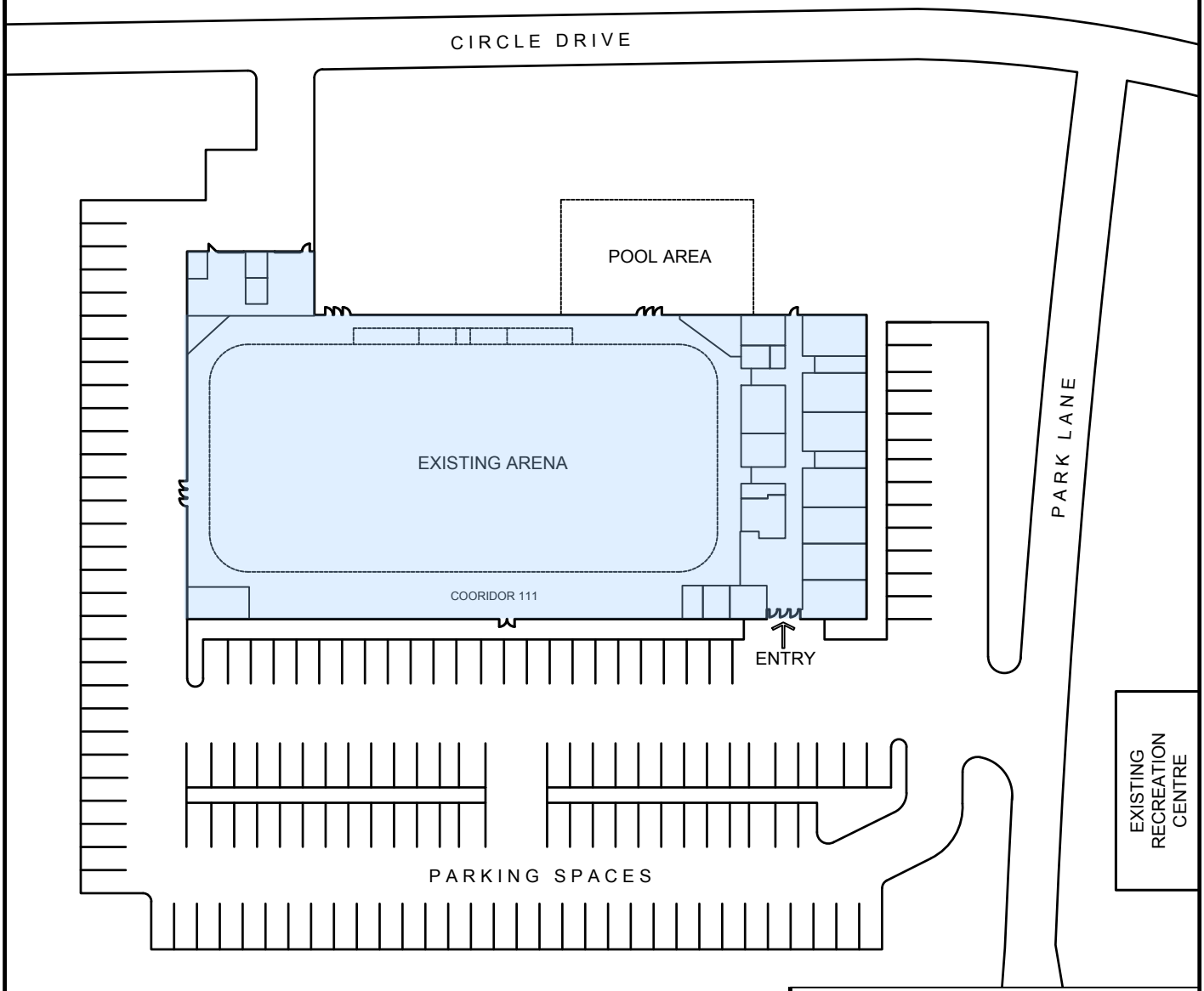
CLIENT JOB NO:	EASTPOINT JOB NO:
MoDB1701	309001

DRAWING NO:	REV:
ASK-007	

APPENDIX A
COMBINED SKETCHES

EASTPOINT
ENGINEERING

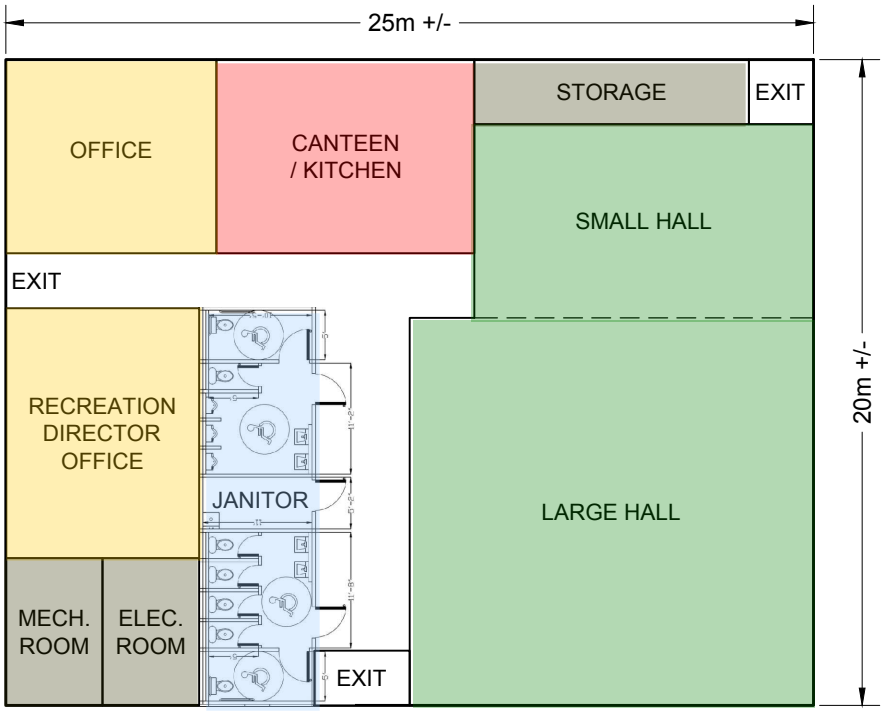
EASTPOINT



DRAWING TITLE:

EXISTING ARENA SITE PLAN

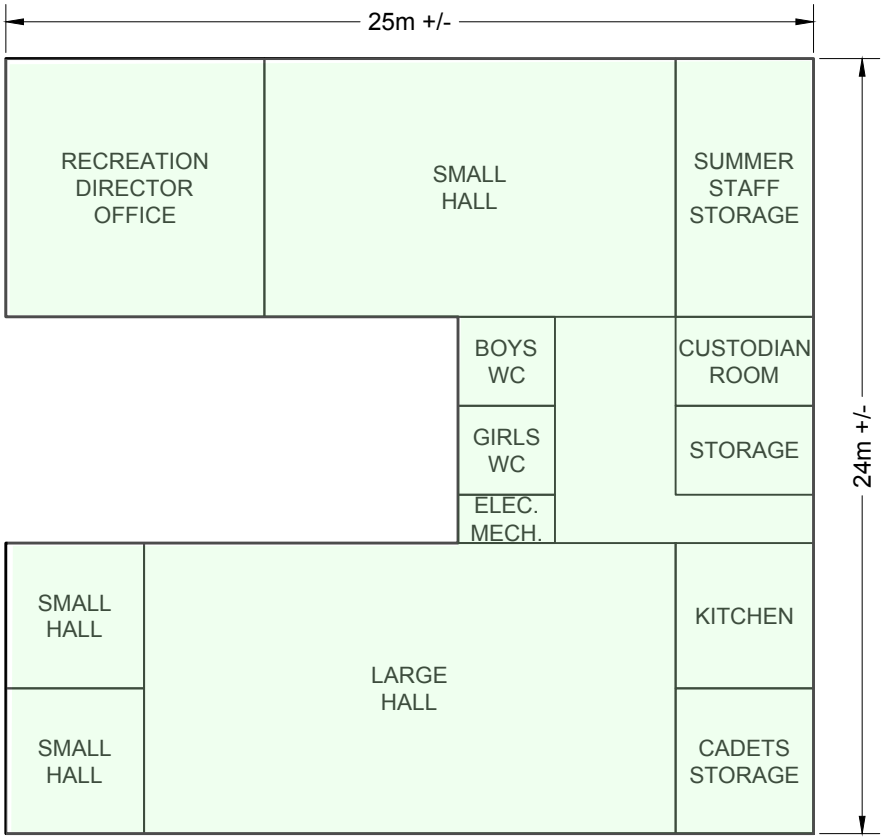
DWN BY:	D.M.	CKD BY:	J.M.
DES BY:	J.M.	SHT NO:	1 of 7
SCALE:	NTS		
CLIENT JOB NO:	MoDB1701	EASTPOINT JOB NO:	309001
DRAWING NO:	ASK-001	REV:	



EASTPOINT

PROPOSED LAYOUT FOR SHEROSE ISLAND RECREATION CENTRE

APROX. SIZE 500m²
SCALE: 1:250

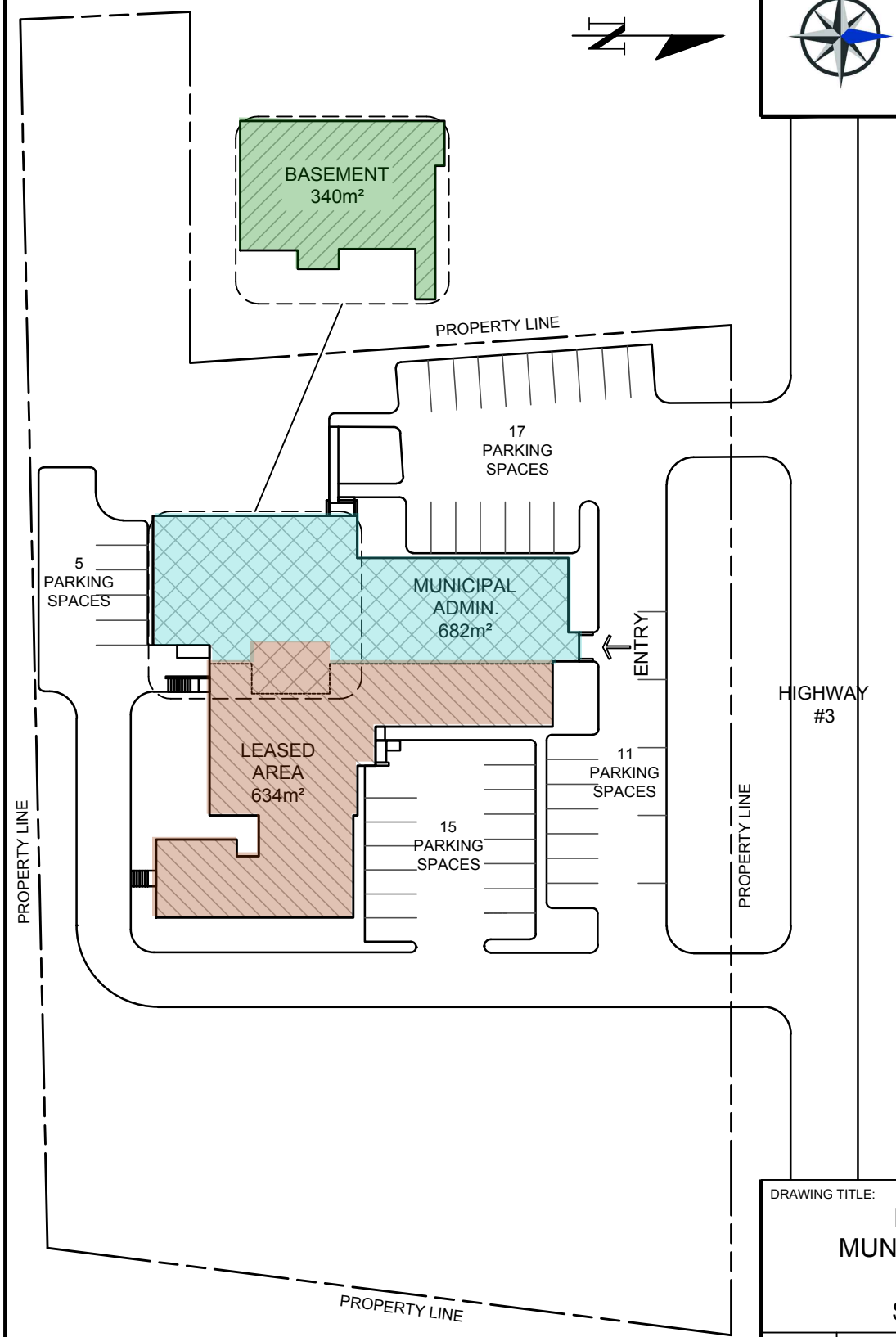


EXISTING LAYOUT SHEROSE ISLAND RECREATION CENTRE

APROX. SIZE 500m²
SCALE: 1:250

DRAWING TITLE:
RECREATION CENTRE ALLOCATION SPACE

DWN BY:	D.M.	CKD BY:	J.M.
DES BY:	J.M.	SHT NO:	2 of 7
SCALE:	NTS		
CLIENT JOB NO:	MoDB1701	EASTPOINT JOB NO:	309001
DRAWING NO:	ASK-002	REV:	



EASTPOINT

DRAWING TITLE:

EXISTING MUNICIPAL ADMIN. BUILDING SITE PLAN

DWN BY:	D.M.	CKD BY:	J.M.
DES BY:	J.M.	SHT NO:	3 of 7
SCALE:	NTS		
CLIENT JOB NO:	MoDB1701	EASTPOINT JOB NO:	309001
DRAWING NO:	ASK-003	REV:	

EASTPOINT

EXISTING ARENA

COORIDOR 111

ENTRY

PLAYGROUND

RECREATION CENTRE 500m²

ENTRY

ENTRY

MUNICIPAL ADMIN. 500m²

ENTRY

PUBLIC WORKS GARAGE 210m²

DRAWING TITLE:

PROPOSED SPACE ALLOCATION 1 LEVEL

DWN BY:	D.M.	CKD BY:	J.M.
DES BY:	J.M.	SHT NO:	4 of 7
SCALE:	NTS		
CLIENT JOB NO:	MoDB1701	EASTPOINT JOB NO:	309001
DRAWING NO:	ASK-004	REV:	

EASTPOINT

EXISTING ARENA

COORIDOR 111

ENTRY

ENTRY

PUBLIC WORKS GARAGE 210m²

RECREATION CENTRE 500m²

ENTRY

GROUND FLOOR

PLAYGROUND

PUBLIC WORKS GARAGE BELOW

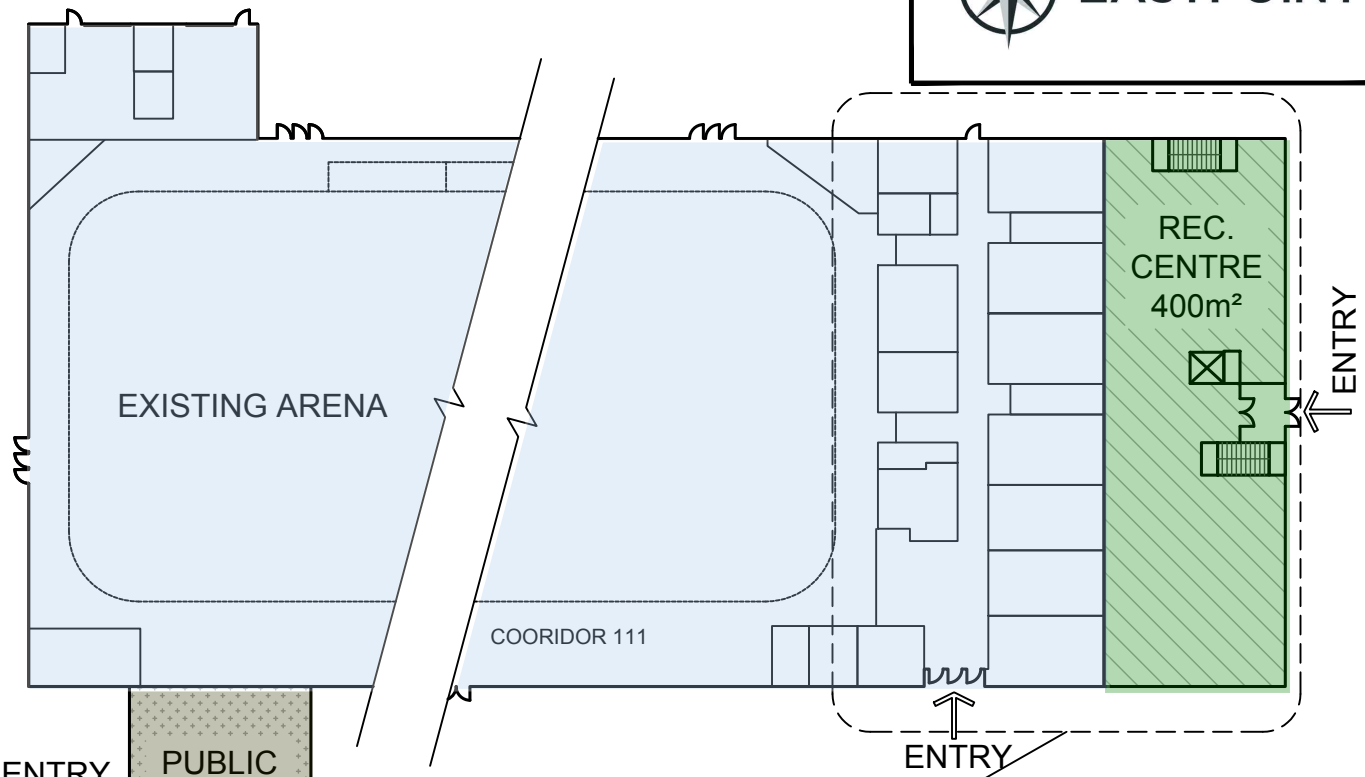
MUNICIPAL ADMIN. 500m² SECOND LEVEL

DRAWING TITLE:

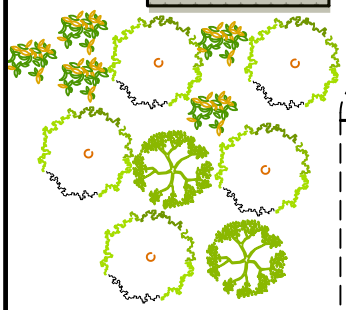
PROPOSED SPACE ALLOCATION 2 LEVELS

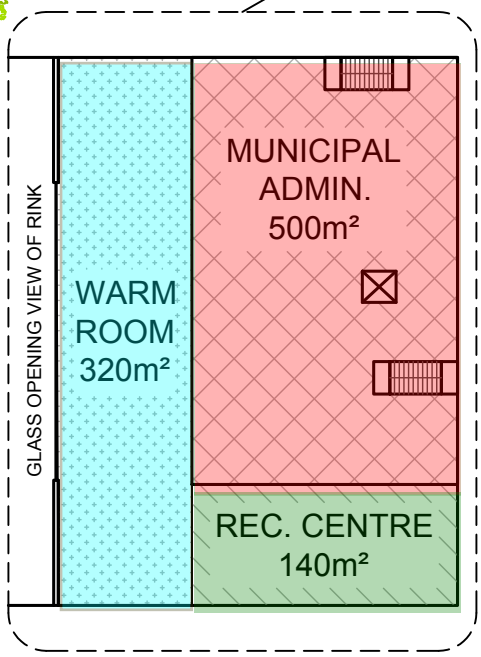
DWN BY:	D.M.	CKD BY:	J.M.
DES BY:	J.M.	SHT NO:	5 of 7
SCALE:	NTS		
CLIENT JOB NO:	MoDB1701	EASTPOINT JOB NO:	309001
DRAWING NO:	ASK-005	REV:	

EASTPOINT



ARENA GROUND FLOOR w/ ADDITION





SECOND LEVEL

DRAWING TITLE:

PROPOSED SPACE ALLOCATION 2 LEVEL, GABLE END

DWN BY:	D.M.	CKD BY:	J.M.
DES BY:	J.M.	SHT NO:	6 of 7
SCALE:	NTS		
CLIENT JOB NO: MoDB1701		EASTPOINT JOB NO: 309001	
DRAWING NO: ASK-006		REV:	

APPENDIX B
AUDIT SHEETS

EASTPOINT
ENGINEERING

FACILITY AUDIT
DESCRIPTION

Asset #:	DSS Bldg#:	Bldg. Year: **1974**	
Building Name: **Administrative Centre, Municipality of Barrington**			
Address: 89 Queen Street, **2447 Nova Scotia Trunk 3, Barrington, NS B0W 1E0**			
Contact Person: **Rob Frost**	Phone No: 902-637-2015		
Inspected By: **Dragan Moraca**	Date: 11 August, 2017		
Inspection Type:	☒ Audit	☐ Emergency Inspection	☒ Maintenance Inspection	☐ New Construction

General Notes:

Wood frame, and hand split Cedar Shakes, one story structure facing main road. Two story sections at back of lot on lover elevation. This was an original Courthouse, holding cell area.

Facility Description:					
☒ Office/Admin.	☐ Maintenance Garage		☐ Bridge Building	☐ Cold Storage	☐ Other
Business Hours:					
Gross Floor Area:	1,665 M²		Storeys above ground: **1**	Storeys below ground: **1**	
Basement Floor Areas:	345 M²		Garage: M²	No. of Bays:	
2nd Floor Areas:	Office: M²		Mezzanines: M²		
Storage Areas:	136 M²		Height of Building: M		
Auxiliary Storage:	M²				
No. of Personnel:	Office: employee		Garage: employees	Seasonal: employee	
B-F Accessible:	☒ Yes ☐ No		Environmental Audit on file:	☐ Yes ☒ No	
Floor Plan on file:	☒ Yes ☐ No		Fire Escape Plan:	☒ Yes ☐ No	
Roof Plan on file:	☒ Yes ☐ No		Asbestos Hazard Plan:	☐ Yes ☒No	
Site Plan on file:	☒ Yes ☐ No		Maintenance Plan/Schedule on file:	☐ Yes ☒ No	

Property:							
☒ Asphalt	☐ Chip seal			☐ Loose gravel	☐ Hard Soil		☐ Other
Property size:	8,931 M²			Developed area: 8,931 M²		Undeveloped area: M²	
Security Fencing:	Total Length: M			Condition:	Poor	**Fair**	Good
General Topography	Steep	Flat	**Rolling**	Property Drains to:			
Drainage Rating:	Poor	**Fair**	Good	Adjacent Properties:			
Site Organization:	Poor	**Fair**	Good	North	South	East	West
Site Cleanliness:	Poor	**Fair**	Good	☐ Residential	☐ Residential **2**	☐ Residential	☐ Residential
Vehicle Wash Area	**N/A**			☐ Commercial **1**	☐ Commercial	☐ Commercial	☐ Commercial **1**
Oil/Water interceptors	**N/A**			☐ Industrial	☐ Industrial	☐ Industrial	☐ Industrial
Oil/Water separators	**N/A**			☐ Undeveloped **2**	☒ Undeveloped**1**	☒ Undeveloped	☒ Undeveloped
General Site Lighting	Poor	Fair	Good	☒ Roadway	☐ Roadway	☐ Roadway	☐ Roadway
Location Rating:	Poor	Fair	Good	☐ Water way	☐ Water way	☐ Water way	☐ Water way **2**

Property Notes:

Roof Conditions:

Roof Section#	Type	Age:	Condition:			Comments:
1			Poor	Fair	Good	
2			Poor	Fair	Good	
3			Poor	Fair	Good	
4			Poor	Fair	Good	

Roof Notes:

We were unable to get on the roof, due to safety concerns.

Snow Removal Damage: ☐ Yes ☒ No | Reported Leaks ☐ Yes ☒ No Areas:

Exterior Façade:

Components	North Elevation	South Elevation	East Elevation	West Elevation
Cladding	**Hand split Cedar Shakes**	**Hand split Cedar Shakes**	**Hand split Cedar Shakes**	**Hand split Cedar Shakes**
Windows	**Aluminum**	**Aluminum**	**Aluminum**	**Aluminum**
Glazing	**Sealed Unit**	**Sealed Unit**	**Sealed Unit**	**Sealed Unit**
Man Doors	**Aluminum**	**Aluminum**		**Aluminum**
Garage Doors				
Trims				
Sealants	Poor **Fair** Good	Poor **Fair** Good	Poor **Fair** Good	Poor **Fair** Good

Exterior Façade Notes:

Exterior siding in fair shape, no reported leaks.

Foundation/Basement:

Components:	Type:	Finish:	Condition:			Comments:
Primary Structure	**Slab on Grade**	**Concrete**	**Poor**	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	

Interior Ground Floor Notes:

Dividing wall between slab on grade (front section) and lower section at the rear is leaning toward the back. One potential reason is that foundation wall was not designed as retaining wall, so soil pressure is tipping the wall.

Interior _____ Floor:						
Components:	Type:	Finish:	Condition:			Comments:
Primary Structure	**Concrete**	**Composite Vinyl Tile**	Poor	Fair	**Good**	
		Ceramic Tile	Poor	Fair	**Good**	
		Carpet	Poor	**Fair**	Good	**Wear and tear**
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
Interior Ground Floor Notes:						
Carpet has several areas where there is significant wear and tear. To be replaced.						

Maintenance Schedules:	
Building Maintenance check list: ☐ Yes ☐ No	Fuel Tank Dipping Schedule Log: ☐ Yes ☐ No
Waste Oil Dipping Schedule Log: ☐ Yes ☐ No	Method of collection:
Pick-up point ☐ Yes ☐ No	Transported to:
Frequency of pick-up:	
Maintenance Schedules Notes:	

Electrical Service:			
Components:	Phase:	Type:	Capacity:
Main Entrance	**3**	**120/208V**	**1200A**
Generator:	**N/A**	**N/A**	**N/A**
Com/Data	☐ Phone ☐ Fax ☐ Internet		

Electrical Distribution:	
Panel board:	
Conduit:	☐ Yes ☐ No
Conductors	Type:

Electrical Notes:

Electrical panel in storage room off Council Chambers has a missing main circuit breaker.

Building Systems Information:								
Heating Source: **Electric**			Supplier:					
Type of Heating System: Electric Baseboard								
Oil Tank: Size:		Age:	Location:					
Steam: ☐ Yes ☒No	Line Size:		Valve Location:					
Heating Water Line Size:			Valve Location:					
Ventilation System: HRV in Corridor								
Cooling System: Building: ____**%**	Chillers: ☐ Yes ☐ No		Location:					
Window Units: ☒ Yes ☐ No	Location:		Size: _____ BTU					
Electric Baseboard Locations:								
Unit Mounted Thermostats: ☒ Yes ☐ No			Wall Mounted Thermostats: ☒ Yes ☐ No					
Wall Mounted Thermostat Locations:								
Floor Drains:	Flow Direction:	N S E W	Discharge Point:					
O/W interceptor:	☐ Yes ☒ No	Maintained: ☐ Yes ☐ No	Schedule:					
O/W separator:	☐ Yes ☒ No	Maintained: ☐ Yes ☐ No	Schedule:					
Sanitary Sewer Line Size:		☐ Septic Waste	☐ Municipal Sewer Account #					
Water Line Size:		☐ Well Water	☐ Municipal Water Account #					
Is well used as potable water? ☒ Yes ☐ No		Well Location:						
H/W Tank:	☐ Yes ☐ No	Size:	Type:	Model #				
~~IBEX Monitor~~:	☐ Yes ☐ No	Location:						
Water Meter:	☐ Yes ☒No	Location:						
Gas Meter:	☐ Yes ☒ No	Location:						
Electric Meter:	☒ Yes ☐ No	Location:						
Tag/Lock-out box:	☐ Yes ☐ No	Location:						
Alarm Panel:	☒ Yes ☐ No	Location:						

Building Systems Notes:

HVAC Equipment:						
Components:	Delivery Type:	Fuel Type	Condition:			IBEX Check
HW TANK	**JOHN WOOD 22 GAL 1975**	**ELECTRIC**	**Poor**	Fair	Good	☐ Yes ☐ No
HW TANK	**GRANT 142 L 2006**	**ELECTRIC**	Poor	**Fair**	Good	☐ Yes ☐ No
HW TANK	**GSW 100L 2004**	**ELECTRIC**	Poor	**Fair**	Good	☐ Yes ☐ No
AC Window Units (25)	**ELECTROHOME CIRCA 1985**	**ELECTRIC**	**Poor**	Fair	Good	☐ Yes ☐ No
AC Window Units (1)	**FRIEDRICH CIRCA 2010**	**ELECTRIC**	Poor	**Fair**	**Good**	☐ Yes ☐ No
AC Window Units (5)	**KESPRITE CIRCA 2000**	**ELECTRIC**	**Poor**	**Fair**	Good	☐ Yes ☐ No
HRV (2)	**NV AIR 2015**	**ELECTRIC**	Poor	Fair	**Good**	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No

HVAC Equipment Inventory				
Components:	Manufacturer:	Model Number:	Serial Number:	Age:
Furnace				
Boiler				

Burner				
A/C unit				

Mechanical Equipment Notes:

Fire, Health and Safety:								
Fire alarm: ☒ Yes ☐ No	Monitored: ☒ Yes ☐ No	Company: **dBm monitors, Troy Fire and Safety services**						
Pull Stations: ☒ Yes ☐ No	Annunciator: ☒ Yes ☐ No	Smoke Detectors: ☒ Yes ☐ No						
Fire Evacuation Plan Posted: ☒ Yes ☐ No	Health & Safety Program: ☐ Yes ☐ No	Building Hazards Posted and clearly marked: ☐ Yes ☐ No Type:						
System Test Last Date: **Annually**		Last Fire Drill Date: **Annually**						
Sprinkler System:	☒ Yes ☐ No	Type: ☒ Wet ☐ Dry	Water Storage/Supply:					
Stand Pipe System	☐ Yes ☐ No	Valves:	Hose Cabinets:					
Fire Extinguishers	☒ Yes ☐ No	Type:	Insp. Date: **Annually**					
Locations and Quantity:								
First Aid Station:	☐ Yes ☐ No	Supplies:	Low	Fair	Good	Insp. Date:		
First Aid Poster:	☐ Yes ☐ No	Up to date: ☐ Yes ☐ No						
Eye Wash Station:	☒ Yes ☐ No	Type:	Condition:	Poor	Fair	Good		
Worksite Inspection Checklist	☐ Yes ☐ No	Sym2dut Site Inventory List: ☐ Yes ☐ No						
WHMIS Binders:	☐ Yes ☐ No	Up to date: ☐ Yes ☐ No						
Emergency Lighting:	☒ Yes ☐ No	Type: **Wall packs with battery and remote heads**						
Exit Signs:	☒ Yes ☐ No	Type: **Red "EXIT"**						
Security Alarm:	☒ Yes ☐ No	Monitored: ☒ Yes ☐ No	Company: **Dorey**					
Motion Sensors:	☐ Yes ☐ No	Locations:						
Security Camera:	☐ Yes ☐ No	Exterior:	Interior:					

Fire, Health and Safety Notes:

Inspector: _____
(Print Name)

FACILITY AUDIT
DESCRIPTION

Asset #:	DSS Bldg#:	Bldg. Year: **4th November 1995**	
Building Name: **Barrington Arena**			
Address: **12 Park Ln, Barrington, NS B0W 1E0**			
Contact Person: **ROB FROST**	Phone No:		
Inspected By: **Dragan Moraca**	Date: 11 August, 2017		
Inspection Type:	☒ Audit	☐ Emergency Inspection	☒ Maintenance Inspection	☐ New Construction

General Notes:

Ice rink with supporting lockers & public areas. Note that exterior swimming pool used as fire / sprinkler reservoir.

HVAC Equipment:

Components:	Delivery Type:	Fuel Type	Condition:			IBEX Check
FIRE PUMP	**500 GPM CLARKE 1995**	**ELECTRIC**	Poor	**Fair**	Good	☐ Yes ☐ No
HWT (BLDG)	**OIL AO SMITH 1994**	**OIL (5 REPLACED)**	**Poor**	Fair	Good	☐ Yes ☐ No
HWT (In floor)	**OIL AO SMITH 2009**	**OIL**	Poor	**Fair**	Good	☐ Yes ☐ No
HWT (Ice)	**ELECTRIC RHEEM 2011**	**ELECTRIC**	Poor	**Fair**	Good	☐ Yes ☐ No
OIL Tank (HW) (2)	**IIIIL 2017**	**OIL**	Poor	Fair	**Good**	☐ Yes ☐ No
OIL TANK (FIRE)	**900L 1995**	**OIL**	**Poor**	Fair	Good	☐ Yes ☐ No
OIL TANK (In floor)	**900L 2009**	**OIL**	Poor	Fair	**Good**	☐ Yes ☐ No
BOILER	**30 BMBH HYDROTHRM 1995**	**OIL (HAZARDOUS)**	**Poor**	Fair	Good	☐ Yes ☐ No
DEHUMID(x2)	**CIMCO 1995**	**ELECTRIC (Life Expect)**	**Poor**	**Fair**	Good	☐ Yes ☐ No
REFRI RECLAIMER (x2)	**THERMOSTAT**	**ELECTRIC**	Poor	**Fair**	Good	☐ Yes ☐ No
COMPRESSOR (x2)	**CIMCO 1995**		Poor	**Fair**	Good	☐ Yes ☐ No
CONDENSOR	**2017**	**(IN PROGRESS)**	Poor	Fair	**Good**	☐ Yes ☐ No
RINK HEATERS	**Coin Operators Need Replaced**	**PROPANE**	**Poor**	Fair	Good	☐ Yes ☐ No
AMMONIA DET	**1995**	**INSP. ANNUALLY**	Poor	**Fair**	Good	☐ Yes ☐ No
INFLOOR MANIFOLDS	**WIRSBORO 1995**	**SOME NEED REPLACING**	**Poor**	**Fair**	Good	☐ Yes ☐ No

HVAC Equipment Inventory

Components:	Manufacturer:	Model Number:	Serial Number:	Age:
Furnace				
Boiler				
Burner				
A/C unit				

Mechanical Equipment Notes:
NO VENTILATION AIR

Fire, Health and Safety:								
Fire alarm: ☒ Yes ☐ No	Monitored: ☒ Yes ☐ No	Company: **dBm monitors, Troy Fire and Safety services**						
Pull Stations: ☒ Yes ☐ No	Annunciator: ☒ Yes ☐ No	Smoke Detectors: ☒ Yes ☐ No						
Fire Evacuation Plan Posted: ☒ Yes ☐ No	Health & Safety Program: ☐ Yes ☐ No	Building Hazards Posted and clearly marked: ☐ Yes ☐ No Type:						
System Test Last Date: **May, Annually**		Last Fire Drill Date: **Annually**						
Sprinkler System: ☒ Yes ☐ No	Type: ☒ Wet ☐ Dry	Water Storage/Supply: **Pool**						
Stand Pipe System ☐ Yes ☐ No	Valves:	Hose Cabinets:						
Fire Extinguishers ☒ Yes ☐ No	Type:	Insp. Date: **February, Annually**						
Locations and Quantity:								
First Aid Station: ☐ Yes ☐ No	Supplies: Low / Fair / Good	Insp. Date:						
First Aid Poster: ☐ Yes ☐ No	Up to date: ☐ Yes ☐ No							
Eye Wash Station: ☒ Yes ☐ No	Type:	Condition: Poor / Fair / Good						
Worksite Inspection Checklist ☐ Yes ☐ No	Sym2dut Site Inventory List: ☐ Yes ☐ No							
WHMIS Binders: ☐ Yes ☐ No	Up to date: ☐ Yes ☐ No							
Emergency Lighting: ☒ Yes ☐ No	Type: **Wall packs with battery and remote heads**							
Exit Signs: ☒ Yes ☐ No	Type: **Red "EXIT"**							
Security Alarm: ☒ Yes ☐ No	Monitored: ☒ Yes ☐ No	Company: **Dorey**						
Motion Sensors: ☒ Yes ☐ No	Locations: **Front office & canteen**							
Security Camera: ☐ Yes ☐ No	Exterior:	Interior:						

Fire, Health and Safety Notes:
Ammonia alarm has separate call out.

Facility Description:				
☐ Office/Admin.	☐ Maintenance Garage	☐ Bridge Building	☐ Cold Storage	☒ Other - Arena
Business Hours:				
Gross Floor Area:	3,255 M²	Storeys above ground: **1**	Storeys below ground: **0**	
Ground Floor Areas:	Office: 19 M²	Garage: M²	No. of Bays:	
2nd Floor Areas:	Office: -- M²	Mezzanines: M²		
Storage Areas:	27 M²	Height of Building: 6 M		
Auxiliary Storage:	-- M²			
No. of Personnel:	Office: employee	Garage: employees	Seasonal: employee	
B-F Accessible:	☐ Yes ☒ No Partially	Environmental Audit on file:	☐ Yes ☒ No	
Floor Plan on file:	☒ Yes ☐ No	Fire Escape Plan:	☒ Yes ☐ No	
Roof Plan on file:	☒ Yes ☐ No	Asbestos Hazard Plan:	☐ Yes ☒ No	
Site Plan on file:	☒ Yes ☐ No	Maintenance Plan/Schedule on file:	☐ Yes ☒ No	

Property:								
☒ Asphalt	☐ Chip seal			☒ Loose gravel		☐ Hard Soil		☐ Other
Property size:	M²			Developed area:	M²		Undeveloped area:	M²
Security Fencing:	Total Length: M			Condition:	Poor	Fair	Good	
General Topography	Steep	**Flat**	Rolling	**Property Drains to: Manhole #18 and #19**				
Drainage Rating:	Poor	Fair	**Good**	Adjacent Properties:				
Site Organization:	Poor	Fair	**Good**	North		South	East	West
Site Cleanliness:	Poor	Fair	**Good**	☐ Residential		☐ Residential **2**	☐ Residential	☐ Residential
Vehicle Wash Area	**N/A**			☐ Commercial **1**		☐ Commercial	☐ Commercial	☐ Commercial **1**
Oil/Water interceptors	**N/A**			☐ Industrial		☐ Industrial	☐ Industrial	☐ Industrial
Oil/Water separators	**N/A**			☒ Undeveloped **2**		☐ Undeveloped**1**	☒ Undeveloped	☐ Undeveloped
General Site Lighting	Poor	Fair	**Good**	☐ Roadway		☒ Roadway	☐ Roadway	☒ Roadway
Location Rating:	Poor	**Fair**	Good	☐ Water way		☐ Water way	☐ Water way	☐ Water way **2**

Roof Conditions:						
Roof Section#	Type	Age:	Condition:			Comments:
1	**Metal Roof over Arena**		Poor	**Fair**	Good	
2	**Torched applied Roof over Change Room Areas**		Poor	**Fair**	Good	

Roof Notes:

We were unable to get on the roof, due to safety concerns. North part of the roof over exit doors in the arena roof is leaking.
Roof is leaking above corridor 111.

Snow Removal Damage: ☐ Yes ☒ No | Reported Leaks ☒ Yes ☐ No Areas: **See above**

Building Systems Information:								
Heating Source: **OIL FIRED HW BOILER**			Supplier:					
Type of Heating System: HOT WATER								
Oil Tank:	Size: 2X 1111 L	Age 2017	Location: BOILER ROOM					
Steam: ☐ Yes ☒ No	Line Size: **N/A**		Valve Location:					
Heating Water Line Size:			Valve Location:					
Ventilation System: N/A								
Cooling System: Building: **0 %**	Chillers: ☐ Yes ☒ No		Location:					
Window Units: ☐ Yes ☒ No	Location: N/A		Size: **308000** BTU					
Electric Baseboard Locations: N/A								
Unit Mounted Thermostats: ☒ Yes ☐ No			Wall Mounted Thermostats: ☒ Yes ☐ No					
Wall Mounted Thermostat Locations:								
Floor Drains:	Flow Direction:	N	S	E	W	Discharge Point:		
O/W interceptor: ☐ Yes ☒ No	Maintained: ☐ Yes ☒ No		Schedule:					
O/W separator: ☐ Yes ☒ No	Maintained: ☐ Yes ☒ No		Schedule:					
Sanitary Sewer Line Size: **4”**	☒ Septic Waste		☐ Municipal Sewer Account #					
Water Line Size: **6” + 2”**	☒ Well Water		☐ Municipal Water Account #					
Is well used as potable water? ☒Yes ☐ No	Well Location:							
H/W Tank: 3 ☒ Yes ☐ No	Size:	Type: ELECTRIC	Model #					
~~IBEX Monitor: ☐ Yes ☐ No~~	Location:							
Water Meter: ☐ Yes ☒ No	Location:							
Gas Meter: ☐ Yes ☒ No	Location:							
Electric Meter: ☒ Yes ☐ No	Location:							
Tag/Lock-out box: ☒ Yes ☐ No	Location:							
Alarm Panel: ☒ Yes ☐ No	Location:							
Building Systems Notes:								

Electrical Service:			
Components:	Phase:	Type:	Capacity:
Main Entrance	**3**	**347/600V**	**500A**
Generator:	**N/A**	**N/A**	**N/A**
Com/Data	☐ Phone ☐ Fax ☐ Internet		
Electrical Distribution:			
Panel board:			
Conduit:	☐ Yes ☐ No		
Conductors	Type:		

Electrical Notes:

Electrical panel in Pool House showing signs of corrosion and rust due to damp environment.

Exterior Façade:												
Components	North Elevation			South Elevation			East Elevation			West Elevation		
Cladding	**Metal / Brick**			**Metal / Brick**			**Metal**			**Brick**		
Windows	**Aluminum**			**n/a**			**n/a**			**Aluminum / Glass block**		
Glazing												
Man Doors	**Metal**			**Metal**			**Metal**			**n/a**		
Garage Doors	**n/a**			**Overhead Door**			**Overhead Door**			**n/a**		
Trims												
Sealants	**Poor**	Fair	Good	**Poor**	Fair	Good	**Poor**	Fair	Good	**Poor**	Fair	Good

Exterior Façade Notes:

Exterior Metal Siding is showing average wear and tear. All metal doors are showing significant amount of rust. Sealant and Caulking to be replaced.

Foundation/Basement:						
Components:	Type:	Finish:	Condition:			Comments:
Primary Structure	**Slab on Grade**	**Concrete**	Poor	Fair	**Good**	

Interior Ground Floor Notes:

Change rooms and hallway leading to the rink have been covered with rubber floor. We were unable to observe concrete condition's. Rest of the slab on grade is in good condition's. Ceramic tile in Canteen

Interior 1st Floor:						
Components:	Type:	Finish:	Condition:			Comments:
Primary Structure	Slab on Grade	**Concrete**	Poor	Fair	**Good**	
	Slab on Grade	**Ceramic tile**	Poor	**Fair**	Good	**Some tile repair must be completed in locker rooms**
	Slab on Grade	**Rubber mats**	Poor	Fair	**Good**	
			Poor	Fair	Good	
			Poor	Fair	Good	

Interior Ground Floor Notes:

Change rooms and hallway leading to the rink have been covered with rubber floor. We were unable to observe concrete conditions. Rest of the slab is in good condition. Ceramic tile to be replaced.

Building Upgrades & Maintenance History:	
Year	Description
	No Reported Upgrades.

Repair/Maintenance Recommendations Summary:		
Description	Cost	Year
As Building is 22 years old, many equipment items are in need of replacement due to the life expectancy.		
This can however, be done with a 5-year maintenance plan. Deferral will increase the		
Potential for equipment failure or protentional injury.		
i.e. Boiler was purging Boiling water into air and on floor at time of inspection and could		
Cause serious injury. – Stephen Fullarton.		

Building does not meet latest barrier free accessibility code. Railing at arena seating does not extend 300mm over
first step. No railing at the ramp in the arena. There is no fire separation between electrical room and surrounding
areas. Canteen Sink counter protrudes into the exit door. Emergency exit doors in arena do not close.

. - Dragan Moraca

Inspector: _____

(Print Name)

BUILDING ELECTRICAL AUDIT
EP# 309001

Asset #:	Bldg. Name: **Barrington PW Garage**	Bldg. Age:
Building Name: **Barrington Public Works Garage**		
Address: **12 Park Ln, Barrington, NS, B0W 1E0**		
Contact Person: **Rob Frost**	Phone No:	
Inspected By: **Jennifer Almon**	Date: **11 August 2017**	

Inspection Type:	☒ Audit	☐ Emergency Inspection	☒ Maintenance Inspection	☐ New Construction

General Notes:

Small wood frame structured used to house spare parts and equipment, with administrative / organizational duties.

Facility Description:

☐ Office/Admin.	☒ Maintenance Garage	☐ Bridge Building	☐ Cold Storage	☐ Other - Arena
Business Hours:				
Gross Floor Area:	60 M²	Storeys above ground: **1**		Storeys below ground: **0**
Ground Floor Areas:	Office: 18 M²	Garage: **42** M²		No. of Bays: **1**
2nd Floor Areas:	Office: -- M²	Mezzanines: M²		
Storage Areas:	-- M²	Height of Building: **3** M		
Auxiliary Storage:	-- M²			
No. of Personnel:	Office: employee	Garage: employees		Seasonal: employee
B-F Accessible:	☐ Yes ☒ No	Environmental Audit on file:		☐ Yes ☒ No
Floor Plan on file:	☐ Yes ☒ No	Fire Escape Plan:		☐ Yes ☒ No
Roof Plan on file:	☐ Yes ☒ No	Asbestos Hazard Plan:		☐ Yes ☒ No
Site Plan on file:	☐ Yes ☒ No	Maintenance Plan/Schedule on file:		☐ Yes ☒ No

Property:

☒ Asphalt	☐ Chip seal		☒ Loose gravel	☐ Hard Soil		☐ Other	
Property size:	M²		Developed area:	M²		Undeveloped area:	M²
Security Fencing:	Total Length: M		Condition:	Poor	Fair	Good	
General Topography	Steep	**Flat**	Rolling	Property Drains to: **No Drainage Visible**			
Drainage Rating:	Poor	**Fair**	Good	Adjacent Properties:			
Site Organization:	Poor	**Fair**	Good	North	South	East	West
Site Cleanliness:	Poor	**Fair**	Good	☐ Residential	☐ Residential **2**	☐ Residential	☐ Residential
Vehicle Wash Area	**N/A**			☐ Commercial **1**	☐ Commercial	☐ Commercial	☐ Commercial **1**
Oil/Water interceptors	**N/A**			☐ Industrial	☐ Industrial	☐ Industrial	☐ Industrial
Oil/Water separators	**N/A**			☐ Undeveloped**2**	☒ Undeveloped**1**	☒ Undeveloped	☐ Undeveloped
General Site Lighting	Poor	Fair	**Good**	☒ Roadway	☐ Roadway	☐ Roadway	☒ Roadway
Location Rating:	Poor	**Fair**	Good	☐ Water way	☐ Water way	☐ Water way	☐ Water way **2**

Property Notes:

Building Systems Information:								
Heating Source: **Electric baseboards**				Supplier: **WSP**				
Type of Heating System: ELECTRIC UH, SPLIT HEAT PUMP								
Oil Tank:	Size:	Age:		Location:				
Steam: ☐ Yes ☒No	Line Size:			Valve Location:				
Heating Water Line Size:				Valve Location:				
Ventilation System: NONE								
Cooling System: Building: ___**0**_**%**	Chillers: ☐ Yes☒No	Location:						
Window Units: ☐ Yes ☒ No	Location:	Size: _____ BTU						
Electric Baseboard Locations: OFFICE BASEBOARD, UH IN FRONT CORNERS								
Unit Mounted Thermostats: ☐ Yes ☒ No	Wall Mounted Thermostats: ☒ Yes ☐ No							
Wall Mounted Thermostat Locations:								
Floor Drains:	Flow Direction:	N	S	E	W	Discharge Point:		
O/W interceptor: ☐ Yes ☒ No	Maintained: ☐ Yes ☐ No	Schedule:						
O/W separator: ☐ Yes ☒ No	Maintained: ☐ Yes ☐ No	Schedule:						
Sanitary Sewer Line Size: **4”**	☐ Septic Waste	☐ Municipal Sewer Account #						
Water Line Size: **1/2**	☐ Well Water	☐ Municipal Water Account #						
Is well used as potable water? ☒ Yes ☐ No	Well Location:							
H/W Tank: ☒ Yes ☐ No	Size:	Type:	Model #					
IBEX Monitor: ☐ Yes ☐ No	Location:							
Water Meter: ☐ Yes ☒ No	Location:							
Gas Meter: ☐ Yes ☒ No	Location:							
Electric Meter: ☒ Yes ☐ No	Location: **Interior – By Service Entrance**							
Tag/Lock-out box: ☐ Yes ☒ No	Location:							
Alarm Panel: ☒ Yes ☐ No	Location: **FA Panel – Near Main Entrance**							
Building Systems Notes:								

HVAC Equipment:							
Components:	Delivery Type:	Fuel Type	Condition:			IBEX Check	
HW TAK	**GSW 2010**	**ELECTRIC**	Poor	**Fair**	Good	☐ Yes ☐ No	
UH (2)	**OULETLE**	**ELECTRIC**	Poor	Fair	**Good**	☐ Yes ☐ No	
SPLIT HEAT PUMP	**TOSHIBA**	**ELECTRIC**	Poor	Fair	**Good**	☐ Yes ☐ No	
PLUMBING FIXTURE	**OPERATIONAL**		Poor	Fair	Good	☐ Yes ☐ No	
			Poor	Fair	Good	☐ Yes ☐ No	
			Poor	Fair	Good	☐ Yes ☐ No	
			Poor	Fair	Good	☐ Yes ☐ No	
			Poor	Fair	Good	☐ Yes ☐ No	
			Poor	Fair	Good	☐ Yes ☐ No	
			Poor	Fair	Good	☐ Yes ☐ No	

Foundation:							
Components:	Type:	Finish:	Condition:			Comments:
Primary Structure	**Slab on Grade**	**Concrete**	Poor	**Fair**	Good	
			Poor	Fair	Good	
			Poor	Fair	Good	
Interior Ground Floor Notes:						
Building floor requires re-painting / finishing.						

Electrical Service:			
Components:	Phase:	Type:	Capacity:
Main Entrance	**3**	**120/208V**	**100A**
Generator:	**N/A**	**N/A**	**N/A**
Com/Data	☐ Phone ☐ Fax ☐ Internet		
Electrical Distribution:			
Panel board:			
Conduit:	☐ Yes ☐ No		
Conductors	Type:		
Electrical Notes:			
Separate service entrance and meter for pump house			

Roof Conditions:						
Roof Section#	Type	Age:	Condition:			Comments:
1	**Shingled Roof**		Poor	**Fair**	Good	
2			Poor	Fair	Good	
Roof Notes: Asphalt shingles have approximately 15-year life. No drain gutters or rain water leaders.						
Snow Removal Damage: ☐ Yes ☐ No			Reported Leaks ☐ Yes ☒ No Areas:			

Exterior Façade:												
Components	North Elevation			South Elevation			East Elevation			West Elevation		
Cladding	**Painted Plywood**			**Painted Plywood**			**Painted Plywood**			**Painted Plywood**		
Windows	**PVC**			**PVC**			**PVC**			**n/a**		
Glazing												
Man Doors	**Metal**			**n/a**			**n/a**			**n/a**		
Garage Doors	**Overhead Door**			**n/a**			**n/a**			**n/a**		
Trims												
Sealants	Poor	**Fair**	Good	Poor	**Fair**	Good	Poor	**Fair**	Good	Poor	**Fair**	Good
Exterior Façade Notes:												
Painted Plywood is delaminating but not reported to leak. Windows horizontal sliders are leaking. Portion of front elevation Board and Batten which is delaminating.												

Fire, Health and Safety:								
Fire alarm: ☒ Yes ☐ No		Monitored: ☒ Yes ☐ No		Company: **dBm monitors, Troy Fire and Safety services**				
Pull Stations: ☐ Yes ☐ No		Annunciator: ☐ Yes ☐ No		Smoke Detectors: ☒ Yes ☐ No				
Fire Evacuation Plan Posted: ☒ Yes ☐ No		Health & Safety Program: ☐ Yes ☐ No		Building Hazards Posted and clearly marked: ☐ Yes ☐ No Type:				
System Test Last Date: **Annually**				Last Fire Drill Date: **Annually**				
Sprinkler System:	☒ Yes ☐ No	Type: ☒ Wet ☐ Dry		Water Storage/Supply:				
Stand Pipe System	☐ Yes ☐ No	Valves:		Hose Cabinets:				
Fire Extinguishers	☒ Yes ☐ No	Type:		Insp. Date: **Annually**				
Locations and Quantity:								
First Aid Station:	☐ Yes ☐ No	Supplies:	Low Fair Good	Insp. Date:				
First Aid Poster:	☐ Yes ☐ No	Up to date: ☐ Yes ☐ No						
Eye Wash Station:	☒ Yes ☐ No	Type:		Condition:	Poor	Fair	Good	
Worksite Inspection Checklist	☐ Yes ☐ No	Sym2dut Site Inventory List: ☐ Yes ☐ No						
WHMIS Binders:	☐ Yes ☐ No	Up to date: ☐ Yes ☐ No						
Emergency Lighting:	☐ Yes ☒ No	Type:						
Exit Signs:	☐ Yes ☒ No	Type:						
Security Alarm:	☒ Yes ☐ No	Monitored: ☒ Yes ☐ No		Company: **Dorey**				
Motion Sensors:	☐ Yes ☐ No	Locations:						
Security Camera:	☐ Yes ☐ No	Exterior:		Interior:				

Fire, Health and Safety Notes:

NO SPRINKLER

Building Upgrades & Maintenance History:	
Year	Description
	See Mechanical Notes. No finishes upgrades recorded.

Repair/Maintenance Recommendations Summary:		
Description	Cost	Year
MECHANICAL NOTES – no ventilation equipment, fresh air or exhaust for		
Welding, cutting, etc. Should have ventilation unit installed.		
Overhead door requires new weather seals at base w/ floor and jambs. Floor finish with		
Washroom to be repainted. Horizontal slicer windows are leaking. Replace w/ vertical sliders.		

Inspector: _____

(Print Name)

FACILITY AUDIT
DESCRIPTION

Asset #:	DSS Bldg#:	Bldg. Year: **4th November 1995**	
Building Name: **RECREATION COMMUNITY CENTRE**			
Address: **12 Park Ln, Barrington, NS B0W 1E0**			
Contact Person: **ROB FROST**	Phone No: 902-637-2015		
Inspected By: **Dragan Moraca**	Date: 11 August, 2017		
Inspection Type:	☒ Audit	☐ Emergency Inspection	☒ Maintenance Inspection	☐ New Construction

General Notes:

One story wood structured c/w crawl space. Originally there were two rectangular buildings spaced approximately 7 m. Later these buildings were connected with new structure. Current building structure is a "U" Shape.

Facility Description:				
☐ Office/Admin.	☐ Maintenance Garage	☐ Bridge Building	☐ Cold Storage	☒ Other - Arena
Business Hours:				
Gross Floor Area:	500 M²	Storeys above ground: **1**	Storeys below ground: **0**	
Ground Floor Areas:	Office: 19 M²	Garage: M²	No. of Bays:	
2nd Floor Areas:	Office: -- M²	Mezzanines: M²		
Storage Areas:	27 M²	Height of Building: 6 M		
Auxiliary Storage:	-- M²			
No. of Personnel:	Office: employee	Garage: employees	Seasonal: employee	
B-F Accessible:	☐ Yes ☒ No Partially	Environmental Audit on file:	☐ Yes ☒ No	
Floor Plan on file:	☒ Yes ☐ No	Fire Escape Plan:	☒ Yes ☐ No	
Roof Plan on file:	☐ Yes ☒ No	Asbestos Hazard Plan:	☐ Yes ☒No	
Site Plan on file:	☒ Yes ☐ No	Maintenance Plan/Schedule on file:	☐ Yes ☒ No	

Property:							
☒ Asphalt	☐ Chip seal		☒ Loose gravel	☐ Hard Soil		☐ Other	
Property size:	M²		Developed area: M²			Undeveloped area: M²	
Security Fencing:	Total Length: M		Condition:	Poor	Fair	Good	
General Topography	Steep	**Flat**	Rolling	Property Drains to: Manhole #18 and #19			
Drainage Rating:	Poor	Fair	**Good**	Adjacent Properties:			
Site Organization:	Poor	Fair	**Good**	North	South	East	West
Site Cleanliness:	Poor	Fair	**Good**	☐ Residential	☐ Residential **2**	☐ Residential	☐ Residential
Vehicle Wash Area	**N/A**			☐ Commercial **1**	☐ Commercial	☐ Commercial	☐ Commercial **1**
Oil/Water interceptors	**N/A**			☐ Industrial	☐ Industrial	☐ Industrial	☐ Industrial
Oil/Water separators	**N/A**			☒ Undeveloped **2**	☐ Undeveloped**1**	☒ Undeveloped	☐ Undeveloped
General Site Lighting	Poor	Fair	**Good**	☐ Roadway	☒ Roadway	☐ Roadway	☒ Roadway
Location Rating:	Poor	**Fair**	Good	☐ Water way	☐ Water way	☐ Water way	☐ Water way **2**

Roof Conditions:						
Roof Section#	Type	Age:	Condition:			Comments:
1	**Metal Roof over Arena**		Poor	**Fair**	Good	

2	**Torched applied Roof over Change Room Areas**		Poor	**Fair**	Good	
3	**Wood Shingles**		**Poor**	Fair	Good	

Roof Notes:

Asphalt shingles have approximately 15-year life. North part of the roof over exit doors in the arena roof is leaking. Roof is leaking above corridor 111. Also leaks have been reported throughout the Centre.

Snow Removal Damage: ☐ Yes ☒ No | Reported Leaks ☒ Yes ☐ No Areas:

Building Systems Information:

Heating Source: **ELECTRIC BASEBOARD**						Supplier: **NSP**		
Type of Heating System: BASEBOARD								
Oil Tank:	Size:	Age:				Location:		
Steam: ☐ Yes ☒ No	Line Size:					Valve Location:		
Heating Water Line Size:						Valve Location:		
Ventilation System: NONE								
Cooling System: Building: __**0%**			Chillers: ☐ Yes ☒ No			Location:		
Window Units: ☐ Yes ☒ No			Location:			Size: _____ BTU		
Electric Baseboard Locations: **PERIMETER**								
Unit Mounted Thermostats: ☐ Yes ☒ No						Wall Mounted Thermostats: ☒ Yes ☐ No		
Wall Mounted Thermostat Locations:								
Floor Drains:	Flow Direction:	N	S	E	W	Discharge Point:		
O/W interceptor: ☐ Yes ☒ No		Maintained: ☐ Yes ☒ No				Schedule:		
O/W separator: ☐ Yes ☒ No		Maintained: ☐ Yes ☒ No				Schedule:		
Sanitary Sewer Line Size: **4"**		☐ Septic Waste				☐ Municipal Sewer Account #		
Water Line Size: **½"**		☐ Well Water				☐ Municipal Water Account #		
Is well used as potable water? ☒ Yes ☐ No						Well Location:		
H/W Tank: ☒ Yes ☐ No		Size: **142L**				Type: **ELECTRIC**	Model # **GIANT 142ETE**	
IBEX Monitor: ☐ Yes ☐ No		Location:						
Water Meter: ☐ Yes ☒ No		Location:						
Gas Meter: ☐ Yes ☒ No		Location:						
Electric Meter: ☒ Yes ☐ No		Location: **Exterior – Main Entrance**						
Tag/Lock-out box: ☐ Yes ☒ No		Location:						
Alarm Panel: ☒ Yes ☐ No		Location: **FA Panel – Main Entrance**						

Building Systems Notes:

Electrical Service:

Components:	Phase:	Type:	Capacity:
Main Entrance	**1**	**120/240V**	**400A**
Generator:	**N/A**	**N/A**	**N/A**
Com/Data	☐ Phone ☐ Fax ☐ Internet		

Electrical Distribution:

Panel board:	
Conduit:	☐ Yes ☐ No
Conductors	Type:

Electrical Notes:

Service Entrance switch replaced within the last 10 years due to arc.

Fire, Health and Safety:

Fire alarm: ☒ Yes ☐ No	Monitored: ☒ Yes ☐ No	Company: **dBm monitors, Troy Fire and Safety services**
Pull Stations: ☒ Yes ☐ No	Annunciator: ☒ Yes ☐ No	Smoke Detectors: ☒ Yes ☐ No
Fire Evacuation Plan Posted: ☒ Yes ☐ No	Health & Safety Program: ☐ Yes ☒ No	Building Hazards Posted and clearly marked: ☐ Yes ☒ No Type:
System Test Last Date: **Annually**		Last Fire Drill Date: **Annually**

Sprinkler System:	☒ Yes ☐ No	Type: ☒ Wet ☐ Dry	Water Storage/Supply:
Stand Pipe System	☐ Yes ☐ No	Valves:	Hose Cabinets:
Fire Extinguishers	☒ Yes ☐ No	Type:	Insp. Date: **Annually**
Locations and Quantity:			
First Aid Station:	☐ Yes ☒ No	Supplies: Low Fair Good	Insp. Date:
First Aid Poster:	☐ Yes ☒ No	Up to date: ☐ Yes ☐ No	
Eye Wash Station:	☒ Yes ☐ No	Type:	Condition: Poor Fair Good
Worksite Inspection Checklist	☐ Yes ☒ No	Sym2dut Site Inventory List: ☐ Yes ☐ No	
WHMIS Binders:	☐ Yes ☒ No	Up to date: ☐ Yes ☐ No	
Emergency Lighting:	☒ Yes ☐ No	Type: **Wall packs with battery and remote heads**	
Exit Signs:	☒ Yes ☐ No	Type: **Red "EXIT"**	
Security Alarm:	☒ Yes ☐ No	Monitored: ☒ Yes ☐ No	Company: **Dorey**
Motion Sensors:	☐ Yes ☒ No	Locations:	
Security Camera:	☐ Yes ☒ No	Exterior:	Interior:

Fire, Health and Safety Notes:

HVAC Equipment:

Components:	Delivery Type:	Fuel Type	Condition:			IBEX Check
HW TANK	**GIANT 2002**	**ELECTRIC (Life Exp)**	**Poor**	**Fair**	Good	☐ Yes ☐ No
PLUMBING FIXTURE	**OPERATIONAL**		**Poor**	Fair	Good	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No
			Poor	Fair	Good	☐ Yes ☐ No

HVAC Equipment Inventory

Components:	Manufacturer:	Model Number:	Serial Number:	Age:
Furnace				
Boiler				
Burner				
A/C unit				

Mechanical Equipment Notes:

USED AS DAYCARE, NO TEMPERING VALVES ON FAUCETS, NOT INSULATED PIPING. NO AIRFLOW OR EQUIPMENT INSTALLED

Exterior Façade:

Components	North Elevation	South Elevation	East Elevation	West Elevation
Cladding	**VINYL**	**VINYL**	**VINYL**	**VINYL**
Windows	**PVC**	**PVC**	**PVC**	**PVC**
Glazing				
Man Doors	**STEEL**		**STEEL**	n/a
Garage Doors	n/a	Overhead Door	Overhead Door	n/a
Trims				
Sealants	**Poor** Fair Good	**Poor** Fair Good	**Poor** Fair Good	**Poor** Fair Good

Exterior Façade Notes:

Exterior vinyl siding is falling off the building. Needs replacement. Sealant/caulking to be replaced.

Foundation/Basement:						
Components:	Type:	Finish:	Condition:			Comments:
Primary Structure	**FOOTINGS**	**Concrete**	Poor	Fair	**Good**	
			Poor	Fair	Good	
			Poor	Fair	Good	

Interior Ground Floor Notes:

Structure appear to be in good shape. Crawl space to be cleaned and new insulation and vapour barrier to be installed. Change rooms and hallway leading to the rink have been covered with rubber floor. condition's. Rest of the slab on grade is in good condition's. Ceramic tile in Canteen

Interior 1st Floor:						
Components:	Type:	Finish:	Condition:			Comments:
Flooring	**Wood**	**Vinyl Tile**	Poor	Fair	**Good**	**Rotten Wood floor by entrance.**
			Poor	Fair	**Good**	
			Poor	Fair	**Good**	
			Poor	Fair	Good	
			Poor	Fair	Good	

Interior Ground Floor Notes:

Vinyl Tile is delaminating from wood subfloor. Several leaks throughout the building are reported. Urinal in male washroom is leaking.

Building Upgrades & Maintenance History:	
Year	Description

Repair/Maintenance Recommendations Summary:

- **BUILDING IS OFTEN USED FOR GROUP ACTIVITES, EVENTS, DAYCARE, ETC., WITH NO OUTDOOR AIR VENTILATION INSTALLED, DOES NOT MEET CODE.**
- **NO INSULATED DOMESTIC PIPING, HOT WATER TANK NEEDS REPLACING, TEMPERING VALVES NEED INSTALLED FOR WASHROOMS USED BY DAYCATE TO MEET CODE. STEPHEN FULLARTON.**
- **Replace vinyl siding, insulate all exterior walls and crawl space. Install new vapour barrier. Caulk all openings Prevent ant water infiltrations. Replace all exterior doors and install new flashings and weather-stripping.**

Inspector: _____

APPENDIX C
PUMPING STATION DATA

EASTPOINT ENGINEERING

Pump Station Summary Sheet
Barrington Pump Stations

PS#	1	2	3	4	5	6	7	8	9	10	11
type	submersible	submersible	submersible	submersible	submersible	submersible	submersible	submersible	submersible	submersible	submersible
# of pumps	2	2	3	2	2	2	2	2	2	2	2
make	Flygt	Flygt	Flygt	Flygt	Flygt	Flygt	Flygt	Flygt	flygt	flygt	flygt
pump type	3085	3085	3085	3085	3085	3085	3085		3085	3127	3085
power, HP	2.5	2.5	2.5	2.5	2.5	2.5	2.5	20	3	10	3
electrical	208, 3phase,17A	208, 3phase	208, 3phase	230, 1phase,9.5A	208, 3phase,15A	208, 3phase,17A	208, 3phase,17A		208,3P,9.6A	208,3P,	208,3P,11A
impeller	NA	NA	NA	NA	NA	NA	NA		462	462	NA
wetwell											
diameter, feet	6	6	6	6	6	6	6	6	6	6	6
material	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete
condition	good	good	good	good	good	good	good	good	good	good	good
ventilated	no	no	no	no	no	no	no	no	no	no	no
rails and chains	good	good	good	good	good	good	good	good	good	good	good
overflow	yes infrequent	no	no	no	no	no	no	no	no	no	no
hatches											
number	2	2	2	2	2	2	2	2	2	2	2
condition	fair	fair	poor	good	fair	good	fair	good	poor	good	good
safety grating	no	no	no	no	no	no	no	no	no	yes	yes
Control panel											
type	flygt	L&B electric	flygt	flygt	flygt	flygt	L&B electric	Flygt/L&B	flygt	flygt	flygt
condition	poor	fair	poor	fair	good	poor	good	fair	fair	fair	poor
controller	relays	relays	relays	FMC200	relays	relays	relays	relays	FMC200	relays	relays
service	208 V, 3 phase, 40A	208 V, 3 phase, 60A	208 V, 3 phase, 30A	208 V, 3 phase, 30A	208 V, 3 phase, 30A	208 V, 3 phase, 30A	208, 3P, 30A	208V,150A,3P	208,3P,30A	208,3P,100A	208,3P,30A
electical isolation	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
power	40A	60A	40A	30A	30A	30A	30A	150A	30A	100A	30A
starters	capacitor start	direct	capacitor start	direct	direct	direct	direct	direct	direct	direct	capacitor start
scada/alarm system	none	none	none	modem	modem	none	none	none	modem	none	modem
emergency power	no	no	no	no	no	no	no	no	no	no	no
monument type	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete
comments											
Forcemain											
material	ductile iron	PVC	PVC	PVC	PVC	PVC	PVC	PVC/ductile	PVC	PVC	PVC
internal piping dia, inch	4	4	4	4	4	4	4	6	4	4	4
internal pipe condition	fair	good	good	good	fair	fair	fair	fair	fair	fair	fair
forcemain material	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
forcemain diameter,inch	6	6	6	6	6	6	6	6	4	6	6
forcemain condition	good	good	good	good	good	good	good	good	good	good	good
comment				frequent breaks							
Valves											
separate valve chamber	no	no	no	no	no	no	no	no	no	no	no
check vavles	2	2	2	2	2	2	2	2	2	2	2
isolation valves	2	2	2	2	2	2	2	2	2	2	2
Instrumentation											
floats	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
hour meters	no	no	no	yes	yes	no	no	no	yes	no	no
current	no	no	no	yes		no	no	no	no	no	no

recommendation	new panel	new panel, new hatches	new panel	new panel	Bus box electrical safety issues, new hatch	new panel	

12	13	14	15
submersible	submersible	submersible	submersible
2	2	2	2
flygt	flygt	flygt	flygt
3085	3702	3085	3127
5	5	2.2	10
208,3P,	208,3P,	208,3P,7.3A	208,3P,30.5A
NA	NA	NA	NA
6	6	6	6
concrete	concrete	concrete	concrete
good	good	good	good
no	no	no	no
good	good		good
no	no		yes
2	2	2	2
good	fair	fair	good
yes	no	no	yes
flygt/panel shop	flygt	flygt	flygt
fair	fair	fair	fair
relays	relays	FMC200	FMC200
208,3P,50A	208,3P,60A	208,3P,30A	208,3P,80A
yes	yes	yes	yes
50A	60A	60A	60A
direct	direct	direct	direct
none	none	modem	modem
no	no	no	no
concrete	concrete	concrete	concrete
PVC	PVC	PVC	PVC
4	4	4	4
fair	fair	fair	fair
PVC	PVC	PVC	PVC
6	6	6	6
good	good	good	good
no	no	no	no
2	2	2	2
2	2	2	2
yes	yes	yes	yes
no	no	yes	yes
no	no	no	no
corrosion of bus box	corrosion of bus box	couldn't get into WW and location is dangerous	

Pump Station Summary Sheet
Woods Harbour Pump Stations

PS#	9	8	7	6	5	4	3	2	1
type	submersible	submersible	submersible	submersible	submersible	submersible	submersible	submersible	submersible
# of pumps	2	1	1	2	2	1	2	1	2
make	Flygt	Flygt	Flygt	Flygt	Flygt	Flygt	Flygt	Flygt	flygt
pump type	3085	3085	3085	3085	3102	3085	3085	3085	3127-180-6004
power, HP	2.2	2.2	2.2	2.2	5	2.2	5	2.2	10
electrical	208, 3phase	208, 3phase	208, 3phase	230, 1phase,9.5A	208, 3phase,15A	208, 3phase,11A	208, 3phase,15A	240, 1phase,14A	208,3P,28.6A
impeller	NA	grinder	grinder	257	412	grinder		grinder	432
wetwell									
diameter, feet	6	4	4	5	6	4	6	4	6
material	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete	concrete
condition	good	good	good	good	good	good	good	good	good
ventilated	no	no	no	no	no	no	no	no	no
rails and chains	good	good	good	good	good	good	good	good	good
overflow	no	no	no	no	no	no set below grade	no	no	no
hatches									
number	2	manhole	manhole	1	2	1	2	1	2
condition	fair	good	good	good	fair	good	fair	good	poor
safety grating	no	no	no	no	no	no	no	no	no
Control panel									
type	surfline	L&B electric	L&B electric	surfline	surfline	L&B electric	Surfline	Surfline	Surfline
condition	good	fair	fair	good	good	good	poor	poor	poor
controller	9015	toshiba VF S11	toshiba VF S11	9015	9015	toshiba VF S11	9015	9015	9015
service	208 V, 3 phase, 40A	240V,1P,22A	240V,1P,22A	230 V, 1 phase, 50A	208 V, 3 phase, 60A	240V,1P,22A	208, 3P, 60A	240V,1P,40A	208,3P,100A
electical isolation	no	no	no	no	no	no	no	no	no
power	40A	60A	60A	40A	40A		60A	40A	60A
starters	direct	VFD	VFD	direct	direct	VFD	direct	direct	direct
scada/alarm system	alarm dialer	alarm dialer	alarm dialer	alarm dialer	alarm dialer	alarm dialer	alarm dialer	alarm dialer	alarm dialer
emergency power	no	no	no	no	no	no	no	no	no
monument type	concrete, good	pole mount	pole mount	concrete, good	concrete, good	concrete, good	concrete, good	concrete, good	concrete, good
comments					new panel planned	has newer panel	panel is showing corrosion		panel badly corroded
Forcemain									
material	ductile iron	PVC	PVC	galv steel	ductile iron	galv steel	ductile	galv steel	ductile
internal piping dia, inches	4	2	2	2	4	2	4	2	4
internal pipe condition	fair	good	good	fair	fair	fair	fair	fair	fair
forcemain material	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC
forcemain diameter,inches	6	2	2	2	6	2	6	2	6
forcemain condition	good	good	good	poor	good	good	good	good	good
comment				frequent breaks					
Valves									
separate valve chamber	no	no	no	no	no	no	no	no	no
check vavles	2	1	1	2	2	1	2	1	2
isolation valves	2	1	1	2	2	1	2	1	2
Instrumentation									
floats	yes	yes	yes	yes	yes	yes	yes	yes	yes
hour meters	yes	no	no	yes	yes	yes	yes	yes	yes
current						yes	yes	yes	yes
recommendation				needs upgrade to forcemain and PS		hatch should be raised above grade	frequent overflows out top	replace panel	replace panel and hatches
Specific Upgrades required	none	none	none	replace forcemain replace pump station	replace panel	regrade site elevations	replace panel increase pump capacity	replace panel	replace panel and hatches

EASTPOINT

EastPoint Project No. 309001

October 12, 2021

MUNICIPALITY OF THE DISTRICT OF BARRINGTON RECREATION CENTRE ASSESSMENT

Report Submitted to:
Chris Frotten
Chief Administrative Officer

By:
EASTPOINT
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and Project Managers
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ENGINEERING SERVICES FOR

Municipality of Barrington
Recreation Centre Assessment
EastPoint Project 309001

Submitted by:

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October 12, 2021

EASTPOINT

Contents

1 INTRODUCTION & BACKGROUND

The Barrington Recreation Centre is located on Park Lane, Sherose Island, in the Municipality of Barrington, N.S. This community centre is composed of two re-purposed department of National Defence (DND) wood-framed structures with a common area constructed across the front of the building. Work to construct the Recreation Centre was originally completed fifty-three years ago (1968). The building houses a variety of closed office spaces, open public gathering areas and supporting washrooms.

In the fall of 2017, EastPoint conducted an infrastructure assessment and recommendations report which included the Recreation Centre. At that time, this building was documented as being a poor physical condition. The remedial work required to address facility deficiencies did not justify maintaining the building. Deficiencies as identified four years ago included exterior building envelope components such as siding, windows and insulation. Interior observations included poor air quality, dampness, code violations (electrical and mechanical systems in one room as well as domestic hot water tank in electrical room) and evidence of rodent presence. Additionally, the building did not meet the current N.S. Building Code Act for washrooms or CAN CSA-B651 Accessibility Standards.

2 CONTEXT

The location of the existing Recreation Centre on Sherose Island was acknowledged as being appropriately sited in close proximity to the other Barrington sports and community-based facilities. Existing ballfields, the Sandy Wickens Memorial Arena (Hockey), outdoor swimming/wading pool and the curling rink are all in the general area. This should make both public access and general maintenance more convenient than having facilities spread out across the entire municipality.

Unfortunately, on-going maintenance and immediate building repairs have not been carried out at the Recreation Centre. This has resulted in increased facility deterioration and public safety concerns. Therefore, the current municipality of Barrington CAO requested EastPoint to revisit and review the Recreation Centre in September 2021.

3 OBSERVATIONS

The Barrington Recreation Centre has generally continued to be deteriorate since last visited on August 11, 2017. EastPoint's and Barrington Representatives met on site September 13, 2021. Weather was overcast with light rain. (Please also refer to the original EastPoint November 16, 2017 Infrastructure Assessment.

4 PHOTOS

4.1 Exterior

Photo 1: Northeast Corner of the Building

The existing access ramp does not meet current codes for accessibility. Safety concerns include the horizontal guardrail bars opening dimensions between structural components, lack of required flat areas at top and bottom, clearance at exterior door swings, and lack of handrail extension.

Additional maintenance and potential concerns for water ingress include the lack of a rain gutter on the side shed roof, and the single rainwater leader at centre of elevation adjacent double door.

Photo 2: East Elevation (Front Entrance)

Missing rain gutter and rainwater leaders at main entrance roof above access stair and rap result in safety concerns for slippery surfaces. Lack of water control also contributes to building envelope damage and potential water ingress.

Photo 3: West Elevation (Courtyard) – Wall Damage

Photo shows the two re-purposed DND structures with connection area which create an exterior courtyard. Note the new window mounted air conditioner on right side. The connection area wall was observed to be "Soggy" with exposed, weathered air barrier. This does not provide a weather resistant cladding, allowing water infiltration to the interior. See also Photo 7 below.

Note that the exposed wall covers the washrooms and the mechanical/electrical room. Both of these areas are potentially wet based on their intended use.

Photo 4: West Elevation (Courtyard) – Roof Damage

Roof shingles at ridgeline are missing/broken, potentially allowing water into the truss space below. This may also be contributing to the "Soggy" exterior wall below.

Photo 5: West Elevation (Courtyard) – Wall Damage

Weeds and bushes have grown since site visit in 2017. Lack of exterior maintenance may contribute to interior space water damage.

Photo 6: North Elevation (Courtyard)

This area presently houses the daycare facility. Note: roof condition deterioration compared to original 2017 assessment.

4.2 Interior

Photo 7: Courtyard Door Water Infiltration

On-going water infiltration at exit door has caused floor rot below broken vinyl floor tiles. Deteriorated floor structure is a safety concern. Additionally, broken floor tiles create a trip hazard at the exit door. See also Photo 3.

Photo 8: Uneven Floor Indicating Floor Joist Damage

Floor structure adjacent the exit door is not flat. Water infiltration from door area (above photo) may be contributing to additional damage. The uneven floor also is a safety & tripping hazard.

Photo 9: Male Washroom Floor Damage

Photo shows the partition wall between male and female washrooms.

Floor was damaged and recently patched at the adjacent toilet stall.

Photo 10: Male Washroom Patch

Patched area where reportedly a person put foot through floor. This is a safety concern likely the result of floor rot and deterioration caused by on-going water damage.

Photo 11: Roof Damage in Attic Space

Ceiling space above the music instruments storage area. Black spots may indicate mold growth. (Not tested)

Photo 12: Water Damage & Insulation

Gypsum Board ceiling showing water damage and deteriorated insulation. No vapour barrier observed.

Water damage may be result of roof leaks or condensation.

Photo 13: Water Damage and Insulation from Above Ceiling.

Deteriorated roof insulation which has come through water damaged gypsum board ceilings.

Photo 14: Water & Ceiling Damage

Ceiling of Cadet's storage area near front of building beside shed showing water damage from truss space above.

Photo 15: Crawl Space Under Building

Concrete support beams with timber joists appear to be dry and in good condition.

Photo 16: Crawl Space under Building

Timber floor joists supporting the Recreation Centre floor above. Rust on nails for joists is not a concern.

Area is generally day, supporting concern that water damage is coming from above.

5 MECHANICAL & ELECTRICAL SYSTEMS

The original 2017 building assessment recommended that various safety concerns with existing mechanical systems be addressed:

- Domestic hot water tempering valve
- No fresh air provided (ASHRAE 62.1-2016 Ventilation for Acceptable Indoor Air Quality)
- Hot water tank in electrical room.

No indication of updates observed during the 2021 visit. Note that these are all safety items which have been identified to protect building occupants.

Similarly, the 2017 report identified various electrical concerns:

- Inadequate service space in front of equipment (maintenance safety)
- Electrical room contains domestic water heater
- Update electrical panel schedules
- Remove items blocking access to electrical equipment

No significant electrical changes were observed during the recent site visit.

6 SUMMARY & CONCLUSIONS

The existing Barrington Recreation Centre has continued to deteriorate since EastPoint's original 2017 assessment. Water damage to interior components including habited areas' floor's and ceilings require immediate attention to maintain public safety. Exterior envelope deficiencies have contributed to the present poor interior conditions.

The following items do not meet current building codes for the safe use of this building:

- Barrier free washrooms and fixture count based on occupancy and building area.
- Accessibility at main entrance, both exterior and interior, including occupied room clearances.
- Emergency exit path from large hall into exterior courtyard.
- Potential for poor indoor air quality based on ASHRAE's mechanical ventilation requirements.

- Domestic hot water heater inside electrical room.
- Inadequate service space in front of electrical.

Also, deteriorated interior floor finishes may become tripping hazards. Wet gypsum board ceilings and insulation will contribute to poor indoor air quality and the potential for mold growth. It is recommended that the Municipality of Barrington address water ingress and resultant interior finishes deficiencies as a minimum before allowing the public to use the Recreation Centre.

2012

Physical Activity Strategic Plan: The Lighthouse

Presented to: The Municipality of Barrington and the Town of Clark's Harbour

By: Samantha Reyno

Acknowledgements

This plan was made possible by the generosity of many people through their contribution to the Strategic Plan Strategy Team, participation in community focus groups and by the support of the Municipality of Barrington, the Town of Clark's Harbour, and the Department of Health and Wellness.

Some of the research for this plan had already been compiled by a previous municipal employee, Lisa Landry, who is now the Physical Activity & Community School Coordinator for the Municipality of Shelburne, the Town of Shelburne and the Town of Lockport.

The Physical Activity Strategy Team consisted of eleven people:

- Andrea Mood-Nickerson, Elementary School Teacher
- Anna Kenney, Barrington Municipal Recreation Director
- Brennan Goreham, Elementary Student Services
- Debby Smith, South Shore Regional Representative, Physical Activity, Sport, and Recreation, Nova Scotia
- Denise Goodwin, Clark's Harbour Representative
- Jennifer Bell, Community Room Coordinator – Barrington Sobeys
- Mike Scott, High School Teacher
- Nanette Comeau, Public Health
- Sheila Bird, Population Health Promoter, Public Health
- Wanda Mood, Senior Services Coordinator

I would also like to thank the following groups/businesses for their support:

- Barrington and Area Lions Club
- Barrington Area Chamber of Commerce
- Barrington Municipal High School
- Barrington Sobeys
- New Horizons Woods Harbour

Executive Summary

The Municipality of Barrington decided to join the provincial Municipal Physical Activity Leadership program (MPAL) in the fall of 2011. It was decided that the plan would also apply to the Town of Clark's Harbour. During the first year of the program a strategic plan for physical activity is developed. Once the strategic plan is developed there is then a five year term in which it is implemented by the Physical Activity Coordinator. The program is jointly supported by the municipality, the town, and the Nova Scotia Department of Health and Wellness.

This strategy outlines the steps that need to be taken in order to have the Municipality of Barrington and the Town of Clark's Harbour become more physically active. Physical activity is defined as "any bodily movement produced by skeletal muscles that result in energy expenditure" (Caspersen, Powell & Christenson, 1985). Physical activity is important for maintaining good health.

The key issues that were discovered through community research (such as the Ipsos Reid Survey and the ICSP) are:

1. The lack of recreation groups devoted to physical activity such as a walking group.
2. The lack of young females meeting the Canadian physical activity guidelines.
3. The lack of seniors meeting the Canadian physical activity guidelines.

The main areas of focus as identified by the province are:

1. Females across the lifespan
2. Youth ages 12 – 19
3. Walking and biking in daily life

Themes that came out of the public consultation were:

1. Money and lack of facilities most often cited as a barrier to physical activity.
2. Large gap identified in offerings of fine arts/culture opportunities.
3. Many people cited the want for more walking opportunities.

The strategy addresses these issues through a multitude of ways. By taking a comprehensive approach, a wider population can be reached and will be impacted by the work done by the Physical Activity Coordinator. There are a number of goals, objectives, and actions currently identified within the plan. A progress evaluation will be done after one year of implementation to measure the success of the plan, and changes will be made accordingly. In five years Nova Scotia's Department of Health and Wellness will have the Ipsos Reid survey redone as part of the evaluation process.

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Current State of Affairs

Importance of Physical Activity

Physical activity, exercise and physical fitness may mean the same thing to some individuals, but they are very different. Physical activity is defined as "any bodily movement produced by skeletal muscles that results in energy expenditure" (Caspersen, Powell & Christenson, 1985). Physical activity can take many different forms and is different to each person; examples include walking, sports, skiing, gardening, etc.

Exercise is defined as "planned, structured, and repetitive activities" such as weight training (Caspersen, Powell, & Christenson, 1985).

The following are areas of focus from Barrington Municipality's Integrated Community Sustainability Plan (2010):

- To encourage and support the development of active transportation systems (sidewalks, trails, bikeways) within and between communities in the municipality and region.
- To encourage and support appropriate infrastructure (such as streetlights, sidewalks, etc.) in association with transportation systems to ensure community safety.
- To cooperate with other municipalities and agencies as well as other levels of government to provide locally accessible services and amenities necessary for residents to ensure their physical and mental health, welfare, education and safety.
- To maintain and improve existing recreational facilities and programs so that they are accessible and affordable for all residents.
- To encourage the preservation, maintenance and enhancement of land having inherent natural, biological and recreational value.
- To encourage and support volunteer activities and organizations throughout the municipality.

Trends in Physical Activity Levels

"In Nova Scotia, 49% of adults ages 20 to 64 are physically active enough to benefit their health" (Government of Nova Scotia, 2011).

44.7% of the population is active or moderately active within the South West Health District.

Within the South West Health District the physical activity levels of males and females between 12-19 years of age was significantly different (male 94% and females only 65%).

Youth 12-19 years of age were reported to be more active than over the age of 20 (Nova Scotia Department of Health, 2007).

During the 2011 Municipal Recreation and Physical Fitness Syndicated Survey conducted by IPSOS Public Affairs, information was gathered through telephone interviews from 177 residents 18 years of age or older from the Municipality of Barrington.

In the survey it was found that:

- 37% of respondents said that they participate in moderate physical activity less than two times a week.
- 42% of those surveyed said when they do participate in physical activity they are only active for 30 minutes or less.
- The main barriers as to why they are not physically active were
    - "Don't have enough time" (36%)
    - Health issues (13%)
    - Not motivated (12%)
    - Weather (11%)
    - Lack of facilities (7%).
- 88% of respondents said that having access to paths, trails and green spaces are important influences in helping them be physically active.
- 86% reported that affordable recreational services, facilities and programs also influenced their participation.
- The most common activities that residents identified as participating in on a regular basis were:
    - Walking 64%
    - Jogging/running (11%)
    - Biking/cycling (11%)
    - Curling (7%).
- However, only 34% of respondents thought that the municipality had a "good" space on the side of the road or sidewalks for walking.

The Impact of Physical Inactivity on our Health

The prevalence of diagnosed heart disease in the South West Health District is more than double that of the national average (SWHD 9.8 %, Nova Scotia 7.3%, and Canada 4.8%). The percentage of self-diagnosed cases of diabetes in SWHD was 8.7%, significantly higher than Nova Scotia's average which was 4.9%. South West Health has one of the highest rates of obesity in Nova Scotia at 64.8%. 58% of Nova Scotians are classified as overweight or obese, which is higher than the national average of 50.1 %. (Nova Scotia Department of Health, 2007).

Costs of Physical Inactivity

It's estimated that physical inactivity costs the province of Nova Scotia's health care system $107 million yearly (GPI*Atlantic*, 2002). Regular physical activity has been proven to reduce the risk of major chronic health conditions such as cardiovascular disease, type 2 diabetes, osteoporosis and certain cancers such as colon and breast cancer. Physical activity can also reduce the risk of obesity. Obesity can lead to a variety of health problems (GPI*Atlantic*, 2000). The rate of obesity has been

steadily increasing for the past 25 years in Canada. Nova Scotia has the one of the highest obesity rates in Canada (58%) (Statistics Canada, 2005).

With an aging population who are working later in life, the economic cost due to days missed at work is also a concern. Workers age 55+ miss an estimated 10.5 days of work due to illness or disability, compared to only 5.2 days for workers aged 15-24 (GPI*Atlantic*, 2002).

Municipality of Barrington

Population

The Municipality of Barrington is located on the south-western tip of Nova Scotia. It is a coastal community made up of small villages stretching from Port Clyde to Charlesville. The total population size of the Municipality of Barrington in 2006 was 7,330.

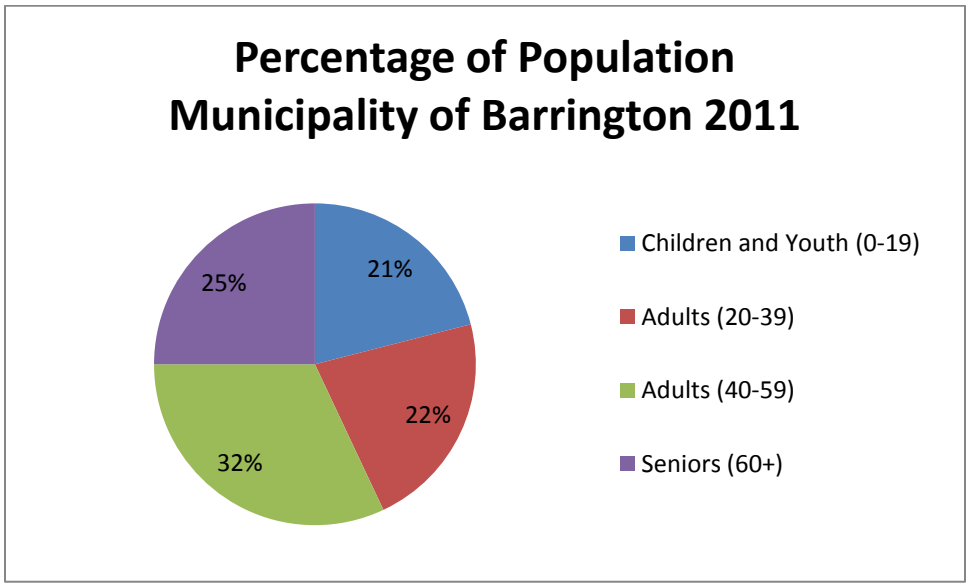

Figure 1: Percentage of Population – Barrington 2011

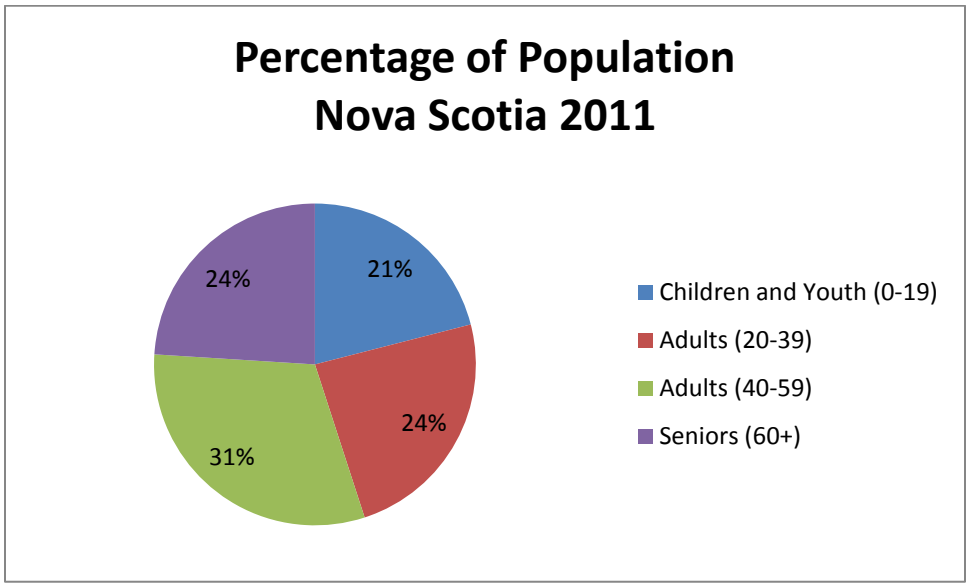

Figure 2: Percentage of Population – Nova Scotia 2011

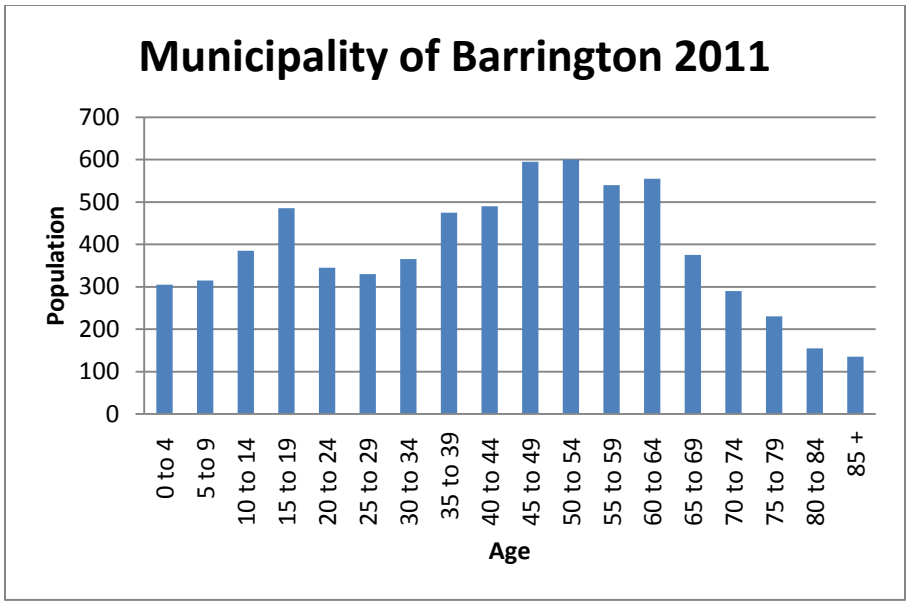

Figure 3: Population and Age - Barrington 2011

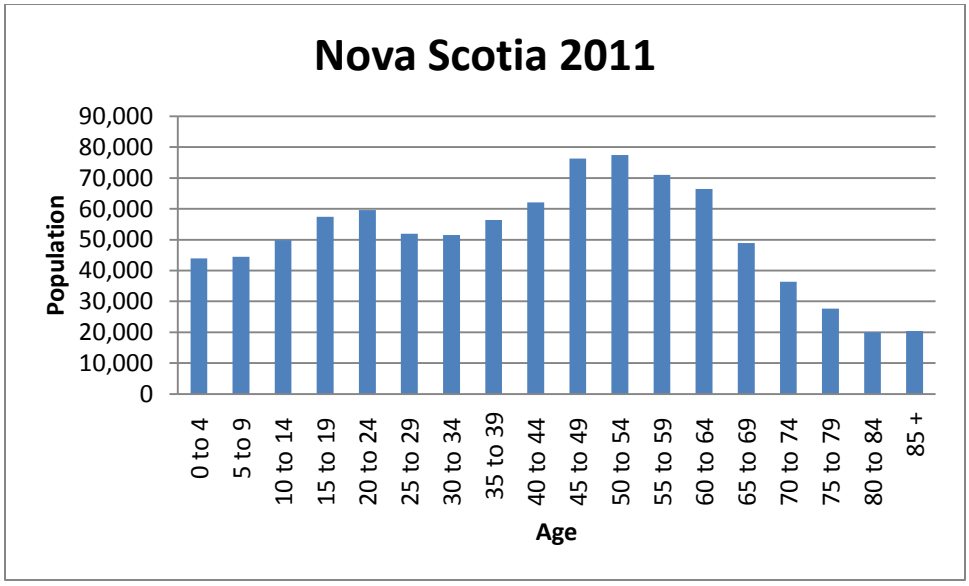

Figure 4: Population and Age - Nova Scotia 2011

Family Structure

In 2006, there were a total of 2,285 families reported within the Municipality of Barrington, 73% of those families are married-couples, 11.5% are lone female families, 11% are common-law and 4.3% are lone male families.

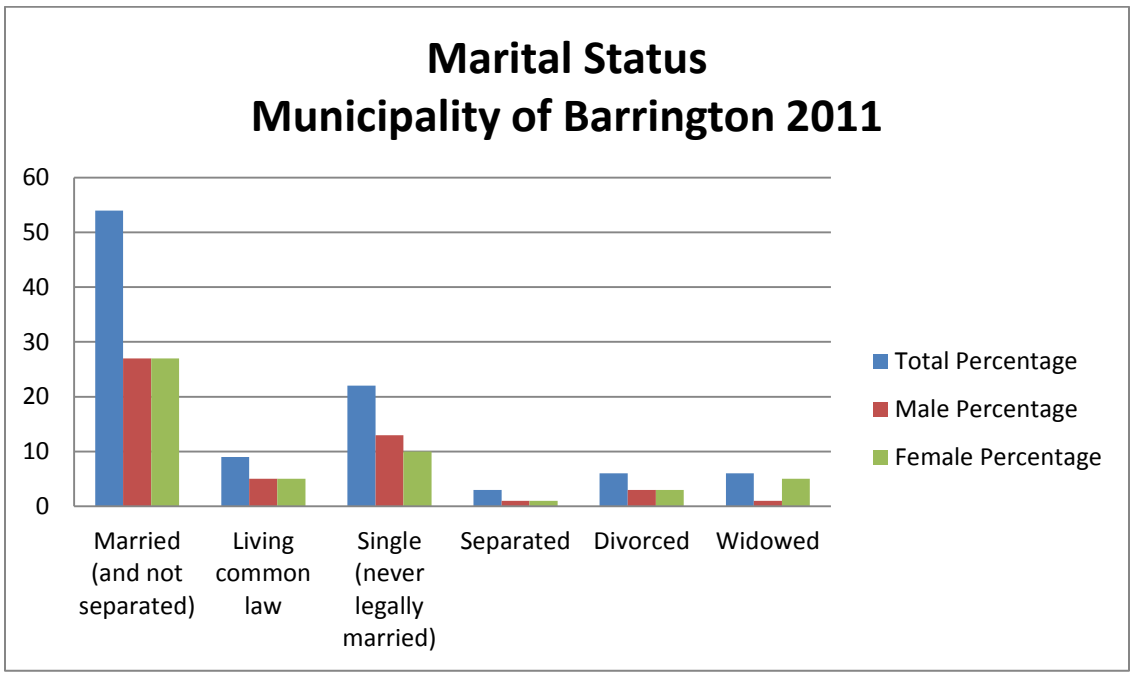

Figure 5: Marital Status - Barrington 2011

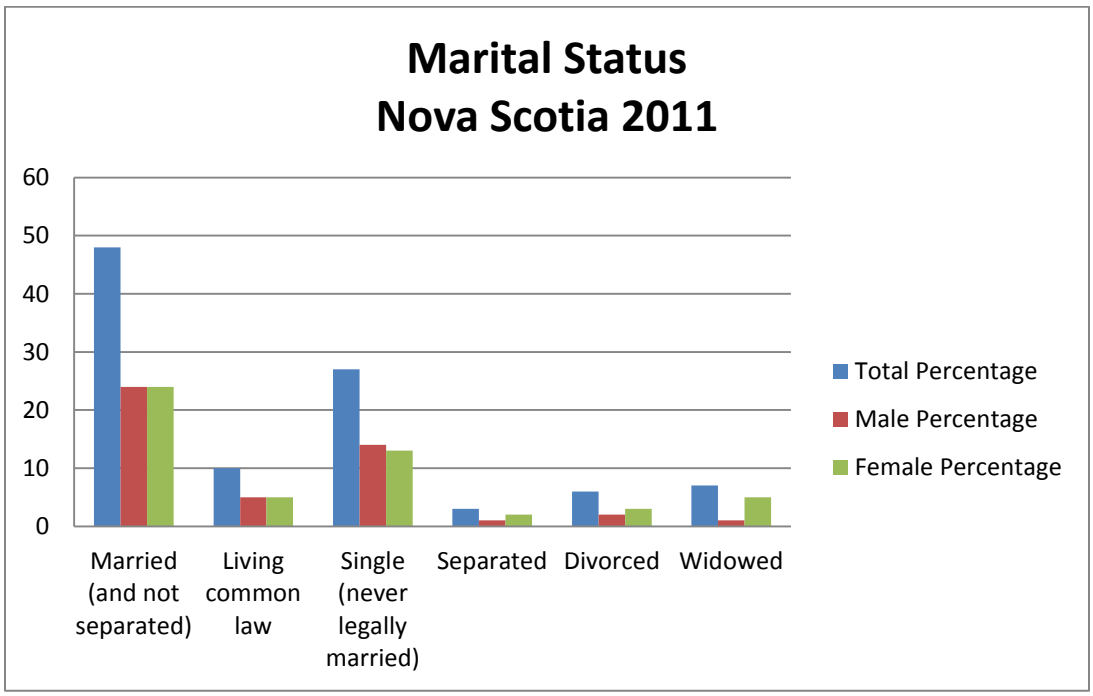

Figure 6: Marital Status - Nova Scotia 2011

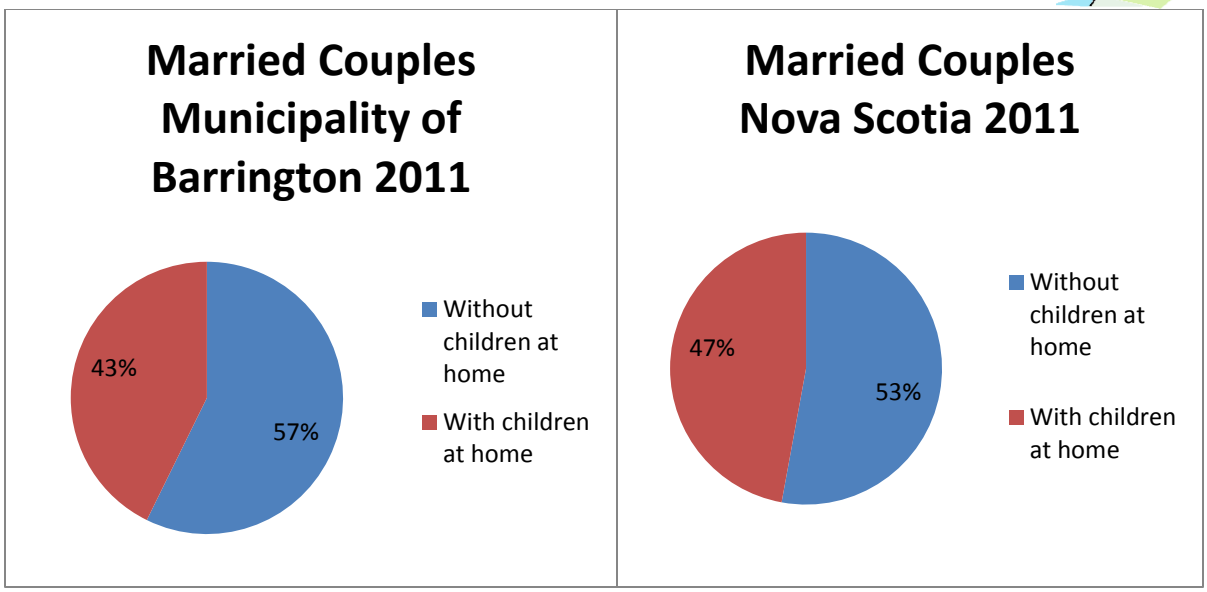

Figure 7: Married Couples With/Without Children

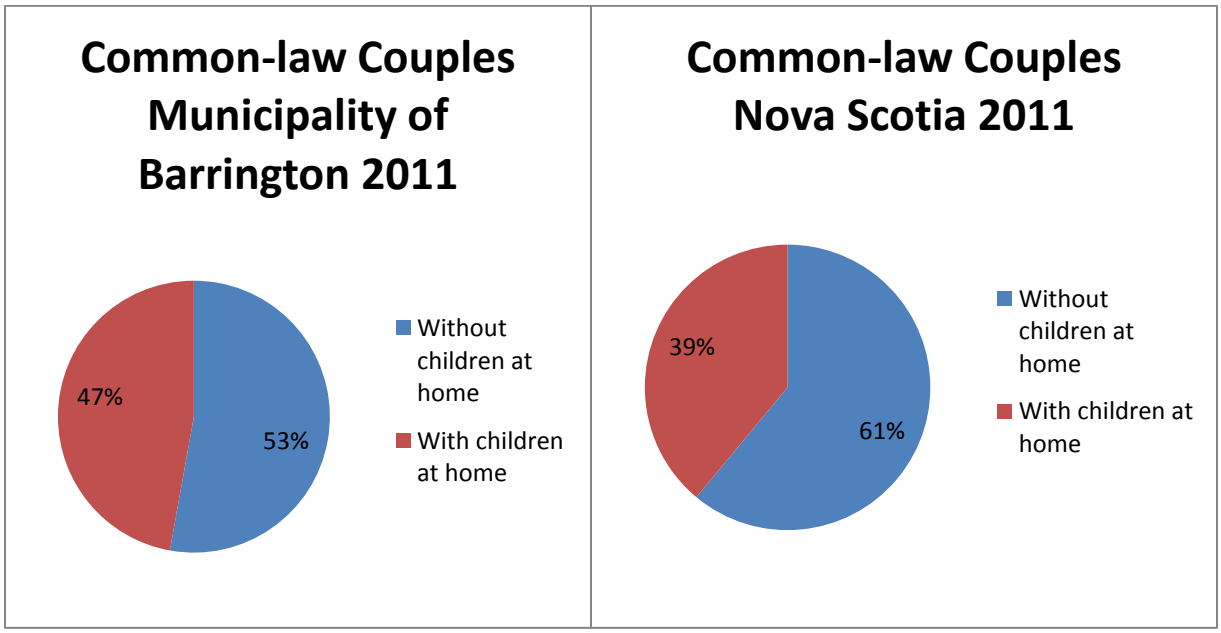

Figure 8: Common Law Couples With/Without Children

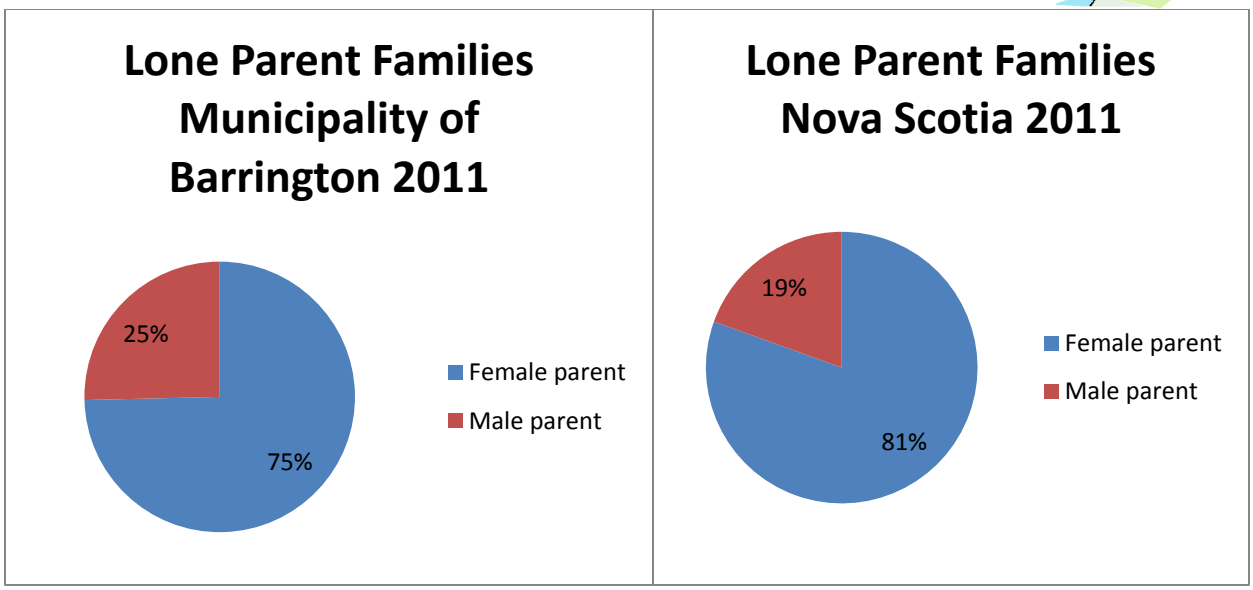

Figure 9: Lone Parent Families

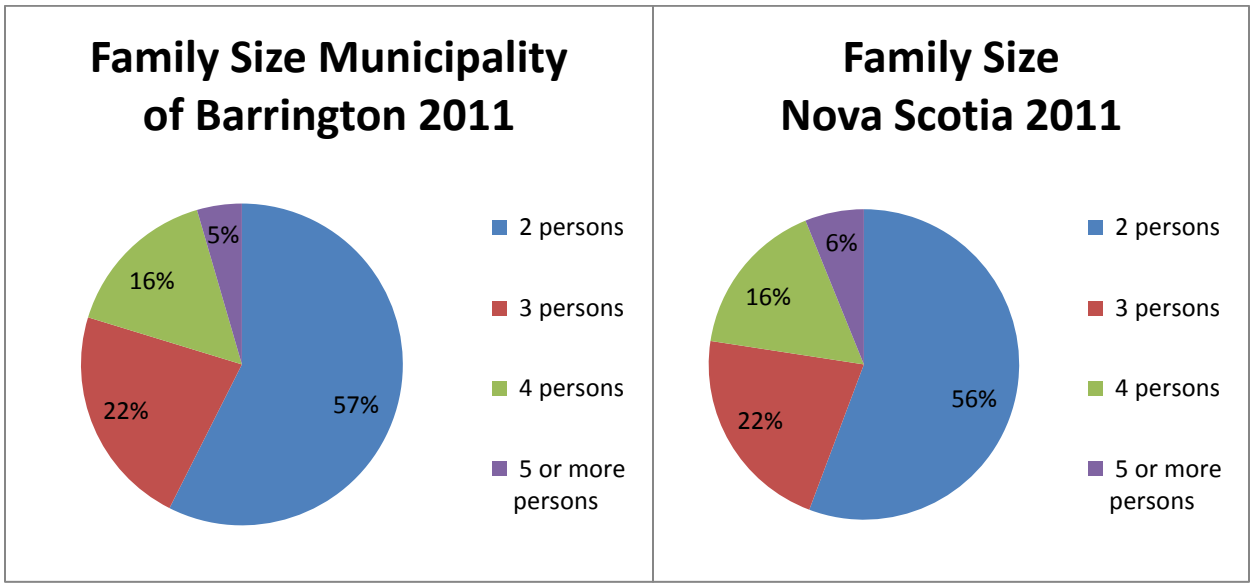

Figure 10: Family Size

Income

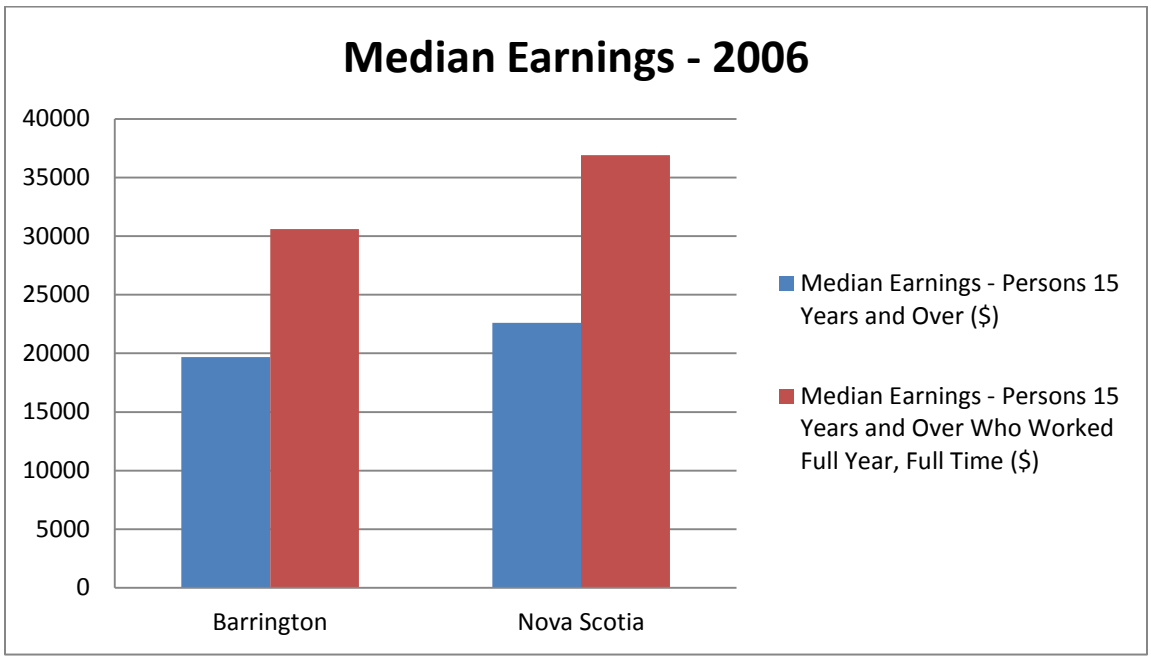

Figure 11: Median Earnings - Barrington and Nova Scotia

There was no income information available in the 2011 Census information, the above information is from the 2006 Census.

(Source: Statistics Canada, Community Profiles 2006)

Transportation

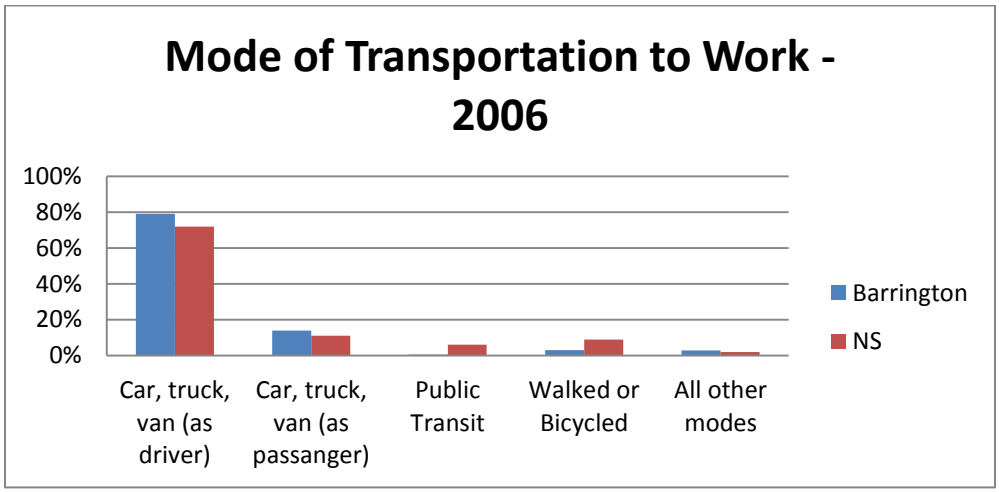

Figure 12: Transportation - Barrington

There was no mode of transportation information available in the 2011 Census information; the above information is from the 20006 Census. (Source: Statistics Canada, 2007)

Current Recreation Facilities (Built and Natural)

Barrington has a wide variety of built and natural recreation facilities located throughout the municipality, including sports fields/courts, beaches, parks, trails, a hockey arena, a curling club and fitness centers. For a full list of facilities and locations see Appendix A-Existing Facilities.

Population

The town of Clark's Harbour is located on Cape Sable Island and is surrounded by the Municipality of Barrington. The following figure represents the age distribution of the population. The total population according to the 2011 Canadian Census is 820 which is a 4.7% drop from the 2006 data.

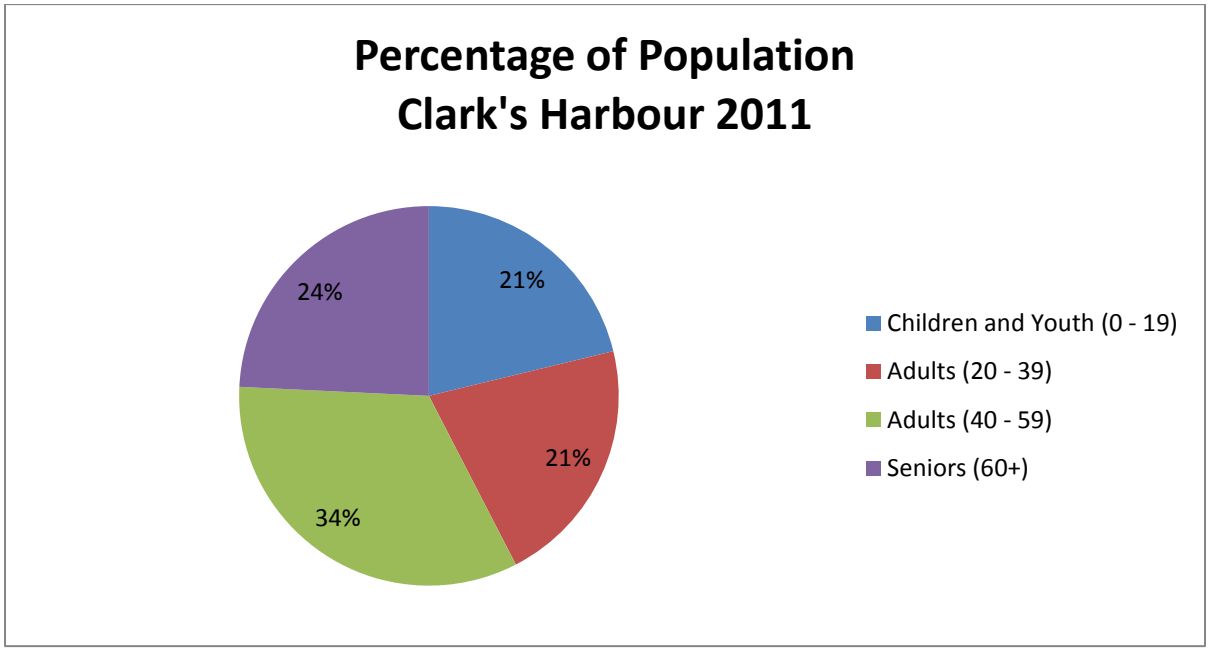

Figure 13: Percentage of Population - Clark's Harbour 2011

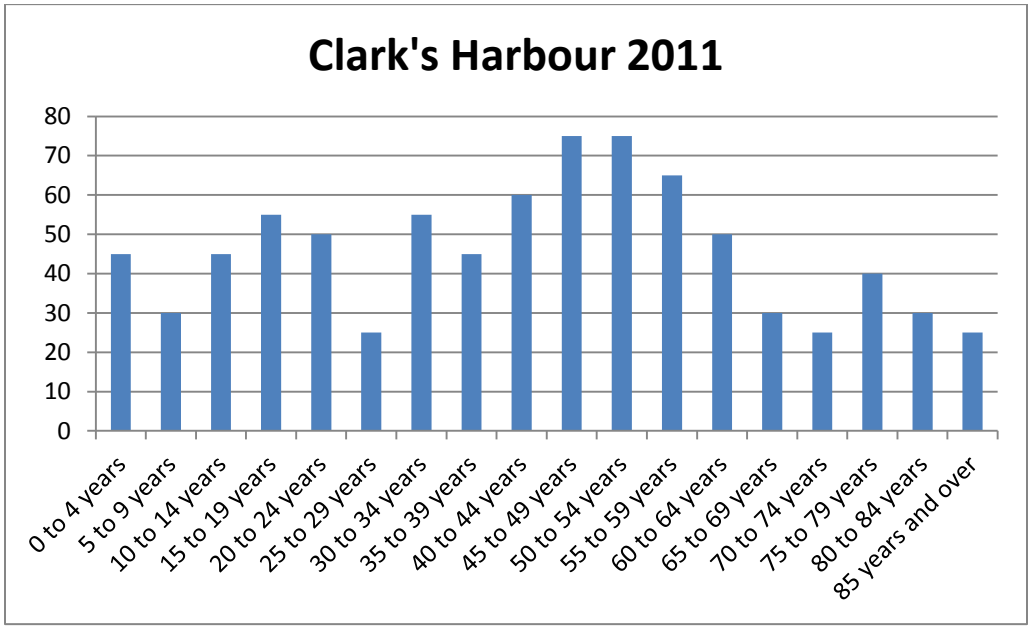

Figure 14: Population and Age - Clark's Harbour 2011

Family Structure

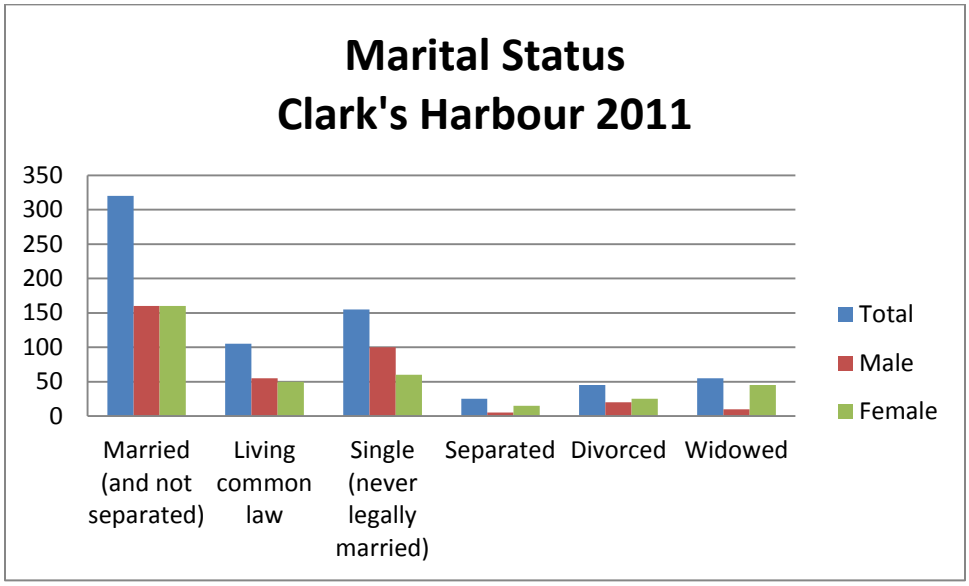

Figure 15: Marital Status - Clark's Harbour 2011

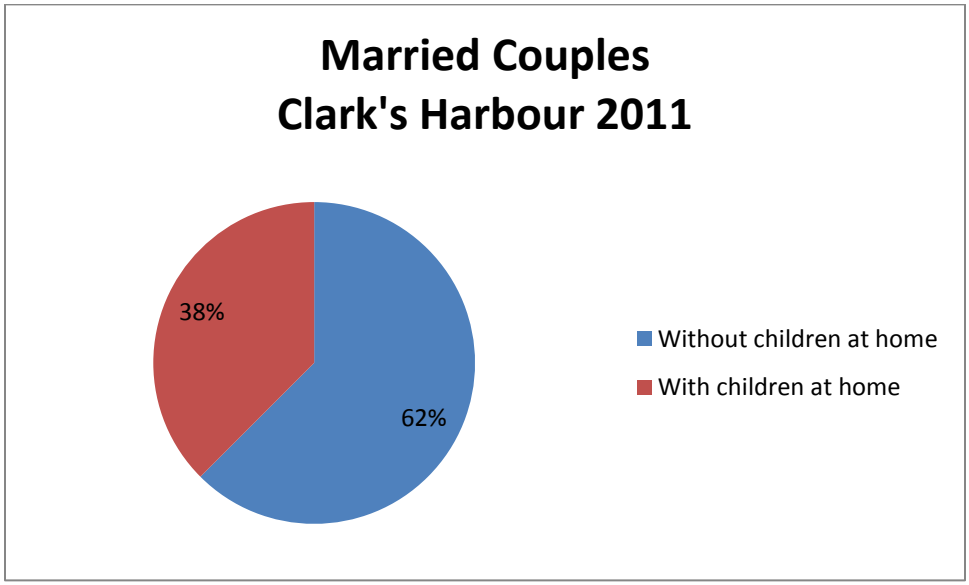

Figure 16: Married Couples With/Without Children - Clark's Harbour 2011

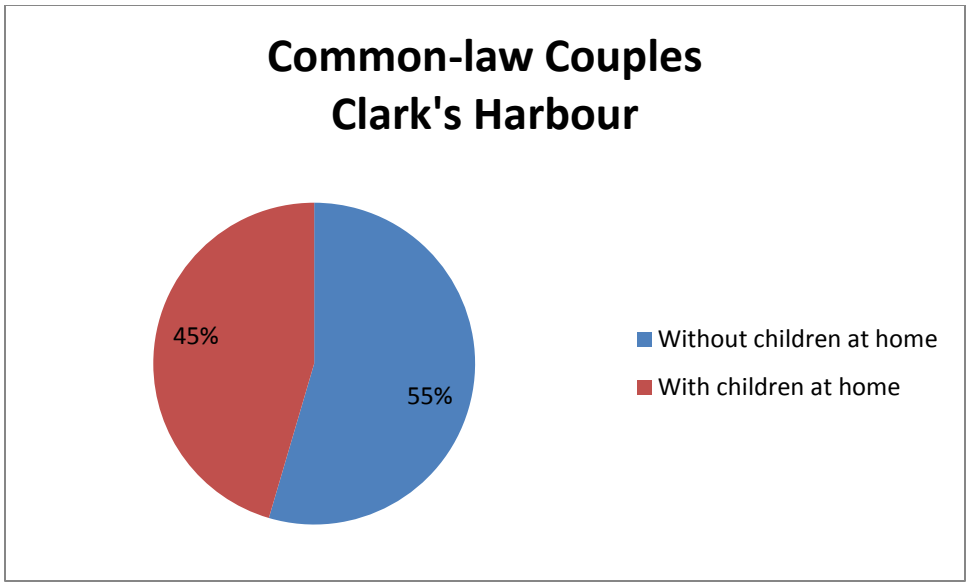

Figure 17: Common Law Couples With/Without Children Clark's Habour 2011

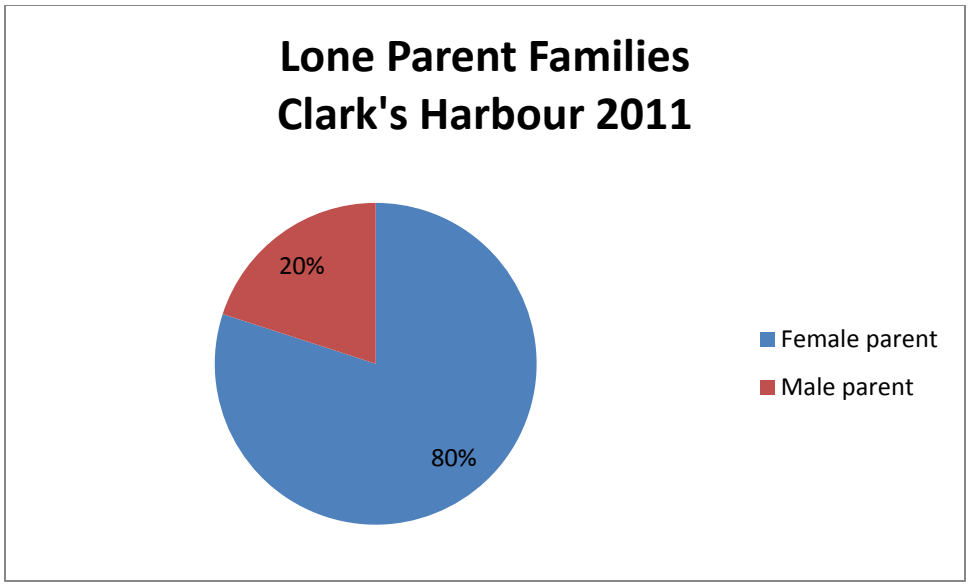

Figure 18: Lone Parent Families - Clark's Harbour 2011

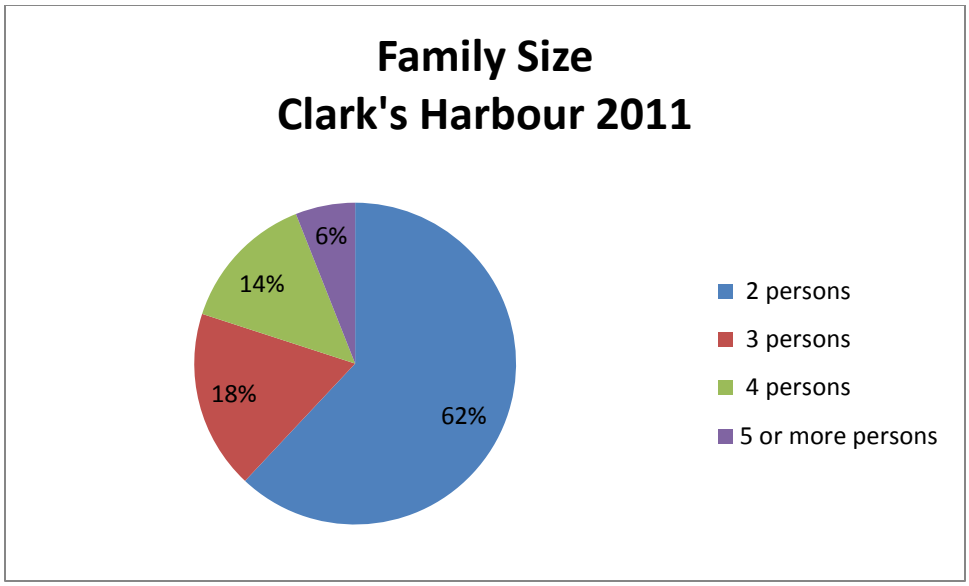

Figure 19: Family Size - Clark's Harbour 2011

Income

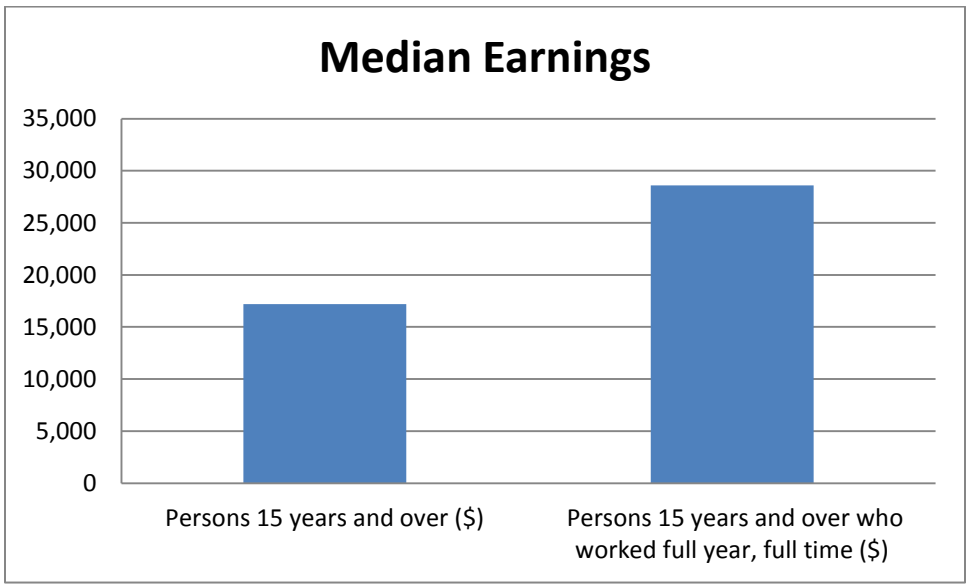

Figure 20: Median Earnings - Clark's Harbour 2006

The above information is from the 2006 Census as the information is not currently available in the 2011 Census.

Transportation

At the time that this graph was created there was no public transit in the area.

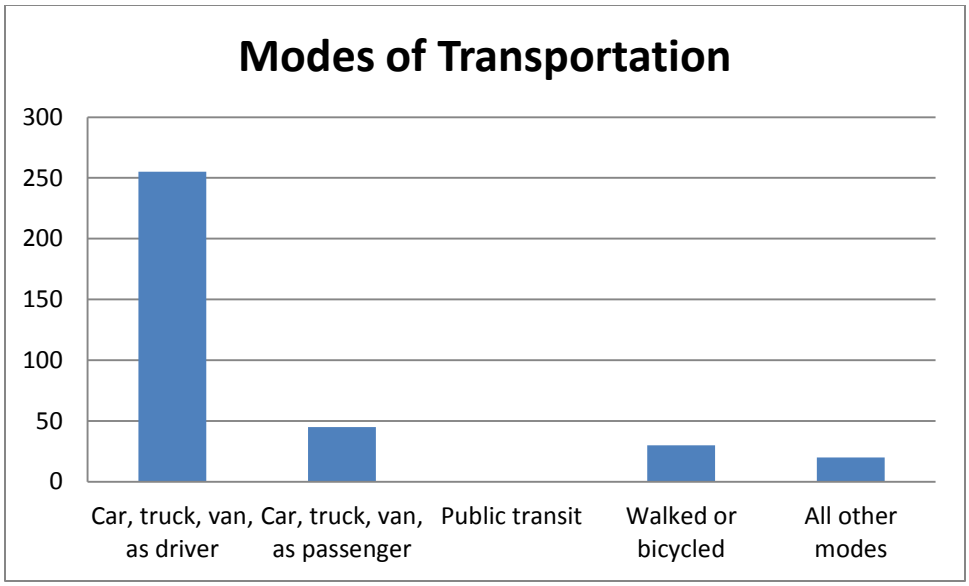

Figure 21: Transportation - Clark's Harbour 2006

The above information is from the 2006 Census as the information is not currently available in the 2011 Census.

Current Recreation Facilities (Built and Natural)

For a full list of facilities and locations see Appendix A-Existing Facilities.

Strengths Weaknesses Opportunities Threats (SWOT) Analysis

The following analysis is a look at the strengths, weaknesses, opportunities, and threats that currently exist in the Municipality of Barrington and the Town of Clark's Harbour, it was determined by the strategic plan advisory committee.

Strengths	**Weaknesses**
• Use of school facilities after hours • Rural (close sense of community) • Infrastructure (both built and natural) • Commitment to the strategy • Willingness to work together (community businesses and recreation department) • Government support • People (small community) • Clark's Harbour bike lane • Afterschool programs • Health Promoting Schools	• Rural (funding issues) • Lack of active corridor • Layout of the municipality • Drive everywhere mentality • Perceived and real dangers
Opportunities	**Threats**
• Increased physical activity trend • Increased realization of the "inactivity crisis" • Access to information • Increase accessibility • New physical activity infrastructure • Physical activity presentations • Childhood Obesity Strategy • Potential partnerships with the private sector.	• Resistance to change • Economic situation • Aging Population

Political, Economic, Social, Technology (PEST) Assessment

The following assessment is regarding the current political, economic, social, and technological environment in the Municipality of Barrington and Town of Clark's Harbour.

Political • Elections • Allocation of resources • Not an "essential service" • Policies need to be updated • Reluctance to change policies
Economic • National debt • Lack of spending money for extras (general public) • Kids activity tax credit • Cyclical nature of peoples jobs here • Small tax base leads to difficulty creating infrastructure
Social • Resistance to change • Perceived lack of time • Increased expectation for parents to register their children in organized sport • Nature Deficit Disorder and similar • Increased social time spent interacting via the internet • Expressed want for a walking club • People don't take initiative to do unorganized activity • Aging population • Out migration • Females less active across the lifespan
Technological • Increased screen time • Online 24/7 (smart phones) • Improved communications • Short attention spans • Multitude of marketing options • Increased use of social media

Public Consultation

In order to better represent the population, there was public consultation done to gain input for the direction of the strategic plan. The public consultation consisted of meetings open to the public hosted in each district and in the Town of Clark's Harbour, focus groups with local community groups as well as high school students, and an online survey. The questions asked on the survey can be found in appendix B and the detailed results of the public consultation can be found in appendix C. Three main themes that came out of the public consultation were:

1. Money and lack of facilities were most often identified as a barrier to physical activity.
2. Many people said that there is a lack of arts and culture opportunities.
3. Many people said that they would like to see an increase in walking opportunities.

Evidence also shows that there is a need for better communication of upcoming events and opportunities throughout the area. People who contributed to the public consultation identified that often they do not know what is available to them. Some mention the need for social media marketing.

Key Issues

The key issues as identified by the research done on activity levels by the province of Nova Scotia (PACE information) and the Ipsos Reid survey done in the Municipality of Barrington and Town of Clark's Harbour are:

1. The lack of recreation groups devoted to physical activity such as a walking group.
2. The lack of females throughout the lifespan meeting the Canadian physical activity guidelines.
3. The lack of seniors meeting the Canadian physical activity guidelines.

The main areas of focus as identified by the province are:

1. Females across the lifespan
2. Youth ages 12 – 19
3. Walking and biking in daily life

Vision and Mission

Vision

The Municipality of Barrington and the Town of Clark's Harbour are dynamic interconnected entities with strong ties to the past and a commitment to increasing physical activity as well as economic growth in their futures. The norm in the community is to see people participating in physical activity on a daily basis. All ages are active and the community looks to the future to find new and innovative ways to improve their level of physical activity. All opportunities are accessible to the community and there is a wide variety of opportunities to cater to individual and community needs.

Characteristics

- Commitment from the community – council, commerce and the general public - to the ongoing improvement of physical activity in Municipality of Barrington and the Town of Clark's Harbour.
- There are adequate funds to ensure the sustainability of the physical activity strategy and an active community.
- There are positive relationships between all sectors of the population.
- Ongoing evaluation takes place to ensure the outcomes of the strategic plan are being met, that they are in the best interest of the community and to advance the vision.
- The community embraces the past and looks to the future, by achieving a balance of old traditions and new initiatives and ideas.
- There are active and safe routes available for public use throughout the community.
- There are a variety of places and spaces that lend themselves to physical activity.
- All ages of the community are active in a wide variety of activities.
- Increasing access to existing infrastructure – both build and natural spaces – and build on what exists to increase accessibility.
- An active community that embraces the ongoing improvement of physical activity.

Mission

To increase physical activity across all sectors of the population in both the Municipality of Barrington and the Town of Clark's Harbour.

Goals and Objectives

Goal #1: To increase knowledge about and participation in physical activity
Objectives: 1.1 Increase awareness and knowledge about physical activity. 1.2 Increase participation in physical activity

Goal #2: To expand the built and natural physical activity infrastructure
Objectives: 2.1 To increase accessibility of places and spaces for physical activity. 2.2 Develop and maintain active transportation corridors

Goal #3: To improve policies that support physical activity
Objectives: 3.1 Improve policies that support physical activity such as the creation of an inclusion policy. 3.2 Develop a community grant for physical activity opportunities. 3.3 Explore Community use of schools opportunities

Goal #4: To improve the social environment of physical activity
4.1 Increase the number of leaders 4.2 Reduce barriers to physical activity

Goal #5: To Increase walking and cycling behaviour
1.1 Increase awareness about opportunity for active transportation. 1.2 Increase walking behaviour 1.3 Increase cycling behaviour

Action Plan

Goal #1: To increase knowledge about and participation in physical activity.

Objective #1.1: Increase awareness and knowledge about physical activity.
Actions: • Increase education about the benefits of physical activity • Participate in the creation of a Workplace Wellness Network for Shelburne County • Partner with local school to promote physical activity through their Health Promoting Schools program. • Develop a physical activity marketing plan • Develop a brand for the physical activity strategic plan • Support South Shore Active Communities initiatives
Objective #1.2: Increase participation in physical activity
Actions: • Increase the amount of programs/opportunities offered by the Recreation Department • Develop partnerships with local physical activity groups • Provide support for individuals trying to start up programs in the area. (An example of this would be Kent Blade's Walking Group at the Legion) • Explore the possibility of new partnerships in the area • Explore the possibility of having Church halls as recreation facilities for the community to use. • Partner with Shelburne County Senior Services • Explore new activities that can be offered in existing spaces such as Roller Derby • Offer targeted programming to address the gender gap such as the female only after school program – "After the Bell"

Goal #2: To expand the built and natural physical activity infrastructure.

Objective #2.1: To increase accessibility of places and spaces for physical activity.
Actions: • Ensure the Sherose Island Recreation Centre is barrier free. • Assess the built infrastructure. • Maintain the trails. • Create trails that are wheelchair/stroller accessible. • Assess the accessibility of beaches and trails. • Standardize signage for all trails. • Develop an asset map. • Create partnerships and be aware of available grants for the construction of new structures such as a natural playground or skate park. • "Maintain and improve existing recreational facilities and programs so they are accessible and affordable for all residents" (Municipality of Barrington ICSP Objective, 2010)
Objective #2.2: Develop and maintain active transportation corridors.
Actions: • Explore active transportation policies and plans.

- Do a feasibility study of building trails and boardwalks along the coast.
- Move towards connecting the multi-use trail.
- Assess where Share the Road signs could be placed in the Municipality and the Town.
- Assess the schools in the area with the Safe Routes to School Travel Planning Guide.
- Assess locations for future sidewalk development.
- "To encourage and support the development of active transportation systems (sidewalks, trails, bikeways) within and between communities in the municipality and region." (Municipality of Barrington ICSP, 2011)

Goal #3: To improve policies that support physical activity.

Objective #3.1: Improve policies that support physical activity such as an inclusion policy
Actions: • Write an inclusion policy and present to council • Assess the current policies to see which ones need to be redone, make adjustments as needed and present changes to council
Objective #3.2: Develop a community grant system for physical activity opportunities
Actions: • Research the possibility of offering monetary grants to support physical activity opportunities • Keep an up to date list of available grants that are available for the public to apply for on the Recreation Department website. • Look into current grant criteria; see if some of it can be changed so that it could only go to someone applying to do something related to physical activity.
Objective #3.3: Explore community use of schools opportunities
Actions: • Look into what will happen to the Cape Sable Island Elementary once it is no longer needed as a school, could it be used as a recreation facility. • Approach Barrington Municipal High School about the public being allowed access during the summer months. • Approach the elementary schools about the public being allowed access during the summer months and evenings. • Look into having a Community School Coordinator work out of Barrington Municipal High School to facilitate community use.

Goal #4: To improve the social environment of physical activity.

Objective #4.1: Increase the number of leaders
Actions: • Initiate a youth leadership program at Barrington Municipal Recreation Department to complement the summer staff • Partner with local youth groups such as Scouts and Cadets • "To encourage and support volunteer activities and organizations throughout the municipality." (Municipality of Barrington ICSP, 2010)
Objective #4.2: Reduce the barriers to physical activity
Actions:

- Increase the opportunities for friends and family to participate together
- Cooperate with local physical activity practitioners to allow them usage of facilities when theirs become unsuitable (such as flood, renovations, fire, etc.)

Goal #5: To increase walking and cycling behaviour

Objective #5.1: Increase awareness about opportunity for active transportation.
Actions: • Develop a community resource on walking and biking.
Objective #5.2: Increase walking behaviour
Actions: • Create a hiking association • Support the existing running/walking group • Encourage locals to participate in the Annual Nova Scotia Marathon, look into a program similar to what Doctors NS does with the Bluenose Marathon. • Encourage walking through promotion of Nova Scotia Walkabout • Support the development of walking groups
Objective #5.3: Increase cycling behaviour
Actions: • Run learn to bike programs for all ages • Run family bike events • Support the existing cycling group • Promote the existing opportunities for cycling such as the Town of Clark's Harbour's cycling lane

Implementation Plan

The following tables outline the implementation plan for the Physical Activity Strategic Plan.

Definition of priority:

High = needs attention within 2013

Medium = needs attention within 2014 – 2015

Low = needs attention within 2016 – 2017

Goal # 1: To increase knowledge about and participation in physical activity.

Objective	Action	Priority (High/ Medium/ Low)	Lead	Support/Partners
1.1	Increase education about the benefits of physical activity	High	Recreation Department	Health Promoting Schools (TBC)
	Participate in the creation of a Workplace Wellness Network in Shelburne county	Medium	South Shore Active Communities	Physical Activity Coordinator
	Partner with local schools to promote physical activity through their Health Promoting Schools Program	High	Physical Activity Coordinator	Local elementary schools with HPS (TBD)
	Develop a physical activity marketing plan	High	Physical Activity Coordinator	TBD
	Develop a brand for the physical activity strategic plan	High	Physical Activity Coordinator	TBD
	Support South Shore Active Communities initiatives	High	South Shore Active Communities	Recreation Department
1.2	Increase the amount of programs/opportunities offered by the Recreation Departments	High/Medium	Recreation Departments	Physical Activity Coordinator & Local Groups (TBC)
	Develop partnerships with the local physical activity groups	High/Medium	Physical Activity Coordinator	Recreation Department
	Provide support for individuals trying to start up programs in the area.	Medium	Recreation Department	TBD
	Explore the possibility of new partnerships in the area	Medium	Physical Activity Coordinator	TBD
	Explore the possibility of having church halls as recreational facilities	Low	Physical Activity Coordinator	Recreation Department & Building Inspector

	Partner with Shelburne County Senior Services	High	Physical Activity Coordinator	Recreation Department and Senior Services (TBC)
	Explore new activities that can be offered in existing spaces	Medium	Physical Activity Coordinator	TBD
	Offer targeted programming to address the gender gap such as "After the Bell"	High	Recreation Department	South Shore Active Communities

Goal #2: To expand the built and natural physical activity infrastructure

Objective	Action	Priority (High/ Medium/ Low)	Lead	Support/Partners
2.1	Ensure the Sherose Island Recreation Centre is barrier free	High/Medium	Recreation Department	Property Services & Building Inspector (TBC)
	Assess the built infrastructure	Medium	Physical Activity Coordinator	Property Services & Building Inspector (TBC)
	Maintain the trails	High	Property Services	Physical Activity Coordinator
	Create trails that are wheelchair/stroller accessible	Medium	Property Services	Physical Activity Coordinator
	Assess the accessibility of the beaches and trails	Medium	Physical Activity Coordinator	Property Services
	Standardize signage for all trails	High	Property Services	WMTA, Physical Activity Coordinator (TBC)
	Create partnerships and be aware of available grants for the construction of new structures such as a natural playground or skate park.	Medium	Physical Activity Coordinator	TBD
	Maintain and improve existing recreation facilities and programs so that they are accessible and affordable for all residents.	High	Recreation Director	Physical Activity Coordinator
2.2	Explore Active Transportation policies and plans	Medium	Physical Activity Coordinator	Ecology Action Centre (TBD)
	Do a feasibility study of building trails and boardwalks along the coast	Low	Physical Activity Coordinator	DNR (TBC)

	Move towards connecting the multi-use trail	High	WMTA	Physical Activity Coordinator
	Assess where Share the Road signs could be placed in the Municipality and the Town	Low	Physical Activity Coordinator	Dept of TIR (TBD)
	Assess the schools in the area with the Safe Routes to School Travel Planning Guide.	Medium	Physical Activity Coordinator	Local Schools
	Assess locations for future sidewalk development	Medium	Physical Activity Coordinator	Council, Community Members
	Encourage and support the development of active transportation systems within and between communities in the municipality and region	Medium	Physical Activity Coordinator	TBD

Goal # 3: To improve policies that support physical activity

Objective	**Action**	**Priority (High/ Medium/ Low)**	**Lead**	**Support/Partners**
3.1	Write an inclusion policy and present to council	High	Physical Activity Coordinator	Recreation Director, Council
	Assess the current policies to see which ones need to be redone, make adjustments as needed, present to council	Medium	Recreation Department	Council
3.2	Research the possibility of offering monetary grants to support physical activity opportunities	Medium	Physical Activity Coordinator	Recreation Department, Municipal Office
	Keep an up to date list of available grants that are available for the public to apply for on the Recreation Department website	High	Physical Activity Coordinator	Recreation Director, South Shore Active Communities, Recreation NS
	Look into current grant criteria; see if some of it can be changed so that it could only go to someone applying to do something related to physical activity	Low	Physical Activity Coordinator	Recreation Department & Municipal Office
3.3	Look into what will happen to the Cape Sable Island Elementary school once it is no longer needed as a school, could it be	High	Property Services, Municipal Clerk,	TBD

	used as a recreation facility		Council, Recreation Department	
	Approach Barrington Municipal High school about the public being allowed access during the summer months	High	Recreation Department	TCRSB
	Approach elementary schools about the public being allowed access during the summer months and evenings.	Medium	Recreation Department	TCRSB
	Look into having a Community School Coordinator work out of Barrington Municipal High School to facilitate community use	Low	Recreation Department	TCRSB

Goal #4: To improve the social environment of physical activity.

Objective	Action	Priority (High/ Medium/ Low)	Lead	Support/Partners
4.1	Initiate a youth leadership program at Barrington Municipal Recreation Department to complement the summer staff	High	Recreation Department	Physical Activity Coordinator
	Partner with local groups such as Scouts and Cadets	Medium	Physical Activity Coordinator	Local groups
	Encourage and support volunteer activities and organizations throughout the municipality	High	Recreation Department	Senior Services
4.2	Increase the opportunities for friends and families to participate together	High	Physical Activity Coordinator	TBD
	Cooperate with local physical activity practitioners to allow them usage of facilities when theirs become unsuitable (such as flood, renovations, fire, etc.)	Medium	Physical Activity Coordinator	TBD

Goal #5: To increase walking and cycling behaviour

Objective	Action	Priority (High/ Medium/ Low)	Lead	Support/Partners
5.1	Develop a community resource on walking and biking	High	Physical Activity Coordinator	Recreation Director, Building Inspector, Tourism

5.2	Create a hiking association	Medium	Community Members	Physical Activity Coordinator
	Support the existing running/walking group	Medium	Existing Groups	Physical Activity Coordinator
	Encourage locals to participate in the Annual Nova Scotia Marathon, look into a program similar to what Doctors NS does with the Bluenose Matathon	Medium	Physical Activity Coordinator	TBD
	Encourage walking through promotions of Nova Scotia Walkabout	High	Recreation Department	Physical Activity Coordinator
	Support the development of walking groups	High	Community Members	Physical Activity Coordinator
5.3	Run learn to bike programs for all ages	Medium	Recreation Department	Local Schools & Police
	Run family bike events	Medium	Recreation Department	TBD
	Support the existing cycling group	Medium	Existing group	TBD
	Promote the existing opportunities for cycling	High		

Evaluation plan

The Nova Scotia Department of Health and Wellness will have the Ipsos Reid survey conducted again in 2017 as part of their evaluation process.

Evaluation Protocols

- Throughout the implementation of the plan the Physical Activity Coordinator will be continually evaluating the effectiveness of the actions set out in the plan.
- The Physical Activity Coordinator will also ensure that the plan remains current and reflects the needs of the community.
- Each year a written evaluation of the plan will be done by the Physical Activity Coordinator.

Appendix A: Existing Facilities in the Municipality of Barrington

Appendix A - Existing Facilities in the Municipality of Barrington

Buildings/Halls

- Barrington Library (Barrington Passage)
- Barrington Lions Hall (Barrington)
- Island and Barrington Passage Fire Hall (Centreville)
- Greenhill Senior Citizen Club (Upper Port La Tour)
- North East Point Community Hall (North East Point)
- Woods Harbour Community Centre (Woods Harbour)
- Woods Harbour Fire Hall (Woods Harbour)

Trails/Parks

- Baccaro Point Look-Off (Baccaro)
- Barrington Bay Trail (Barrington Passage)
- Barrington River Picnic Area (Barrington)
- Drinking Brook Park (Clam Point)
- Fort Creek Park (Port La Tour)
- Sand Hills Provincial Park (Barrington)
- Sherose Island Walking Trail (Sherose Island)
- Woods Harbour Trail (Woods Harbour)
- Strang's Lane Tourist Rest Stop (Port La Tour)
- Owaissa Park (Barrington Passage)
- The Hawk Tourist Rest Stop (Cape Sable Island)
- South Side Beach Tourist Rest Stop (Cape Sable Island)
- McGray Avenue Boardwalk and Gazebo (Cape Sable Island)

Fields/Courts

- Barrington Rec. Centre Tennis Court (Sherose Island)
- High School Soccer Field (Oak Park)
- Ralph Creamer Atwood Memorial Field (Barrington)
- Richard Swaine Soccer Field (Barrington Passage)
- Sherose Island Baseball Field (Sherose Island)
- South Side Baseball Field (Sherose Island)
- Woods Harbour Ball Field (Woods Harbour)

Playgrounds

- Barrington Recreation Playground (Sherose Island)
- Brasshill Playground (Brasshill)
- Playground currently (2012) under construction behind the Visitor Information Centre (Barrington)
- Wayne Perry Memorial Playground (Bear Point)

Beaches

- Crows Neck Beach
- North East Point Beach (North East Point)

- South Side Beach (Cape Sable Island)
- Stoney Island Beach (Cape Sable Island)
- The Hawk Beach (Cape Sable Island)

Recreation Facilities (Public and Private)

- Barrington Arena (Sherose Island)
- Barrington Exhibition Grounds (Barrington)
- Barrington Regional Curling Club (Sherose Island)
- Local Schools
- Causeway Fitness (Barrington Passage)
- Flex Appeal Fitness Centre (Barrington Passage)
- Municipal Pool (Sherose Island)
- Sherose Island Recreation Centre (Sherose Island)
- Swim's Pool (Barrington)
- You vs. You Fitness Centre (Barrington Passage)

Community Groups

- Barrington Area Ladies Softball League
- Barrington Area Lionettes
- Barrington Area Lions
- Barrington Area Oldtimers Hockey League
- Western Shelburne County Health Care Charitable Society
- Barrington Arena Fundraising Committee
- Barrington Minor Ball Association
- Barrington Referee Association
- Home away from Home Family Daycare Agency
- Motorcycle Club
- Nova Scotia Boat Racers Association
- Queen of Hearts Dory Club
- Shelburne County Figure Skaing Club
- Shelburne County Fish and Game Association
- Shelburne County Lob ball Association
- Shelburne County Minor Hockey Association
- Shelburne County Special Olympics
- South Nova Recreational Hockey League
- Woods Harbour Minor Ball Association

Seniors Clubs

- Greenhill Senior Citizens Club (Upper Port La Tour)
- Young at Heart (Woods Harbour)
- Cape Sable Island New Horizons (Cape Sable Island)

Museums/Historical Societies

- Archelaus Smith Historical Society

- Barrington Township Museum Association (Barrington)
- Chapel Hill Historical Society (Shag Harbour)
- Samuel Wood Historical Society (Woods Harbour)
- Shag Harbour Incidence Society (Shag Harbour)
- The Cape Sable Historical Society (Barrington)

Fire Departments/Ladies Auxiliary

- Barrington
- Island and Barrington Passage
- Port Clyde
- Port La Tour
- Shag Harbour/ Bear Point/Woods Harbour

Other

- # 327 Unicorn Sea Cadets
- Balmoral Rebekah Lodge # 39
- Barrington and Area Chamber of Commerce
- Barrington and Area Girl Guide Association
- Barrington District Federation of Agriculture
- Barrington Friends of the Library
- Barrington Ground Search and Rescue
- Bayside Home Auxiliary
- Boy Scouts of Canada
- Children's Wish Foundation
- Clyde I.O.O.F. Lodge # 98
- Goodwill Club of Barrington
- Mayflower Place
- Newellton Community Club
- Philadelphia Lodge # 47
- Rosalin Nickerson Cancer Care Fund Society
- Shelburne County Photography Club
- Sou'wester Coin Club
- Terry Fox Run Committee
- Shag Harbour UFO site

Appendix A.2 Existing Facilities in the Town of Clark's Harbour

Buildings/Halls

- Clark's Harbour Legion
- Clark's Harbour Library
- CSI New Horizons Building
- Clark's Harbour Elementary

Trails/Parks

- Clark's Harbour Boardwalk

Fields/Courts

- F.A. Brannen Memorial Ball Park
- Town of Clark's Harbour Basketball / Ball Hockey Court

Playgrounds

- Clarks's Harbour Playground

Community Groups

- Friends of the Library

Seniors Clubs

- CSI New Horizons Group

Other

- Seabreeze Rebekah Lodge # 24

Appendix A.3 Churches in the Municipality of Barrington and the Town of Clark's Harbour

Advent Christian Church (Bear Point)

Ascension Anglican (Episcopal) Church (Barrington Passage)

Bethel Penecostal Assembly (Baccaro)

Calvary Baptist Church (Lower Woods Harbour, Shag Harbour)

Central Woods Harbour United Baptist Church (Lower Woods Harbour)

Faith Christian Church (Centreville Community Hall)

Guiding Light Baptist Church (Shag Harbour)

Independent Baptist Church

Island Gospel Tabernacle

Jehovah's Witness (Sherose Island)

Lighthouse Christian Fellowship (Port Clyde)

New Testiment Baptist Church

Salvation By Grace Ministries (IOOF Hall Barrington Passage)

Seventh Day Adventist Church (Oak Park)

Solid Rock Baptist Church (Oak Park)

St. Philip's Roman Catholic Church (Barrington)

Temple United Baptist Church (Barrrington Passage)

United Baptist (Stone) Church (Clark's Harbour)

United Baptist Church (Centreville)

United Baptist Church (Newellton)

United Baptist Church (Port Latour)

United Baptist Church (South Side)

United Baptist Church (Stoney Island)

United Church (Barrington Passage, Baccaro, Upper Port Latour)

United Church (Port Clyde)

Wesleyan Church (Woods Harbour)

West Head Wesleyan Church (West Head)

Appendix B: Public Consultation Online Survey

Appendix C: Public Consultation Results

Public Consultation Results

In order to better represent the community, a variety of approaches were taken during the public consultation work. There were community meeting held, focus groups with local groups and with a class of high school students as well as an online survey. See appendix B for the online survey questions.

Questions:

1. What are the existing opportunities for physical activity in your community? What affects opportunities for physical activity?
2. What are the barriers to your participation in physical activity?
3. What needs to happen to get people more physically active, more often? What would you like to see in your community?

Participants:

2. Barrington and Area Lions Club
3. Barrington Area Chamber of Commerce
4. Members of the public.
5. New Horizons (Woods Harbour)
6. BMHS students

Results:

Existing opportunities identified by community members:

- Hockey
- Ball
- Sidewalk in Barrington
- Beaches
- Gyms
- Boardwalk
- Shopping
- Woods Harbour Trail
- New Horizons
- Woods Harbour Community Centre BINGO and Kitchen Parties
- Curling
- Walking and hiking along the trails
- Seniors yoga
- Swimming
- Line dancing

-
- Zumba
- Fitness classes at the gyms
- Various activities at the high school
    - Volleyball
    - Basketball
    - Etc.
- Public skating
- Figure skating
- Cycling club
- Running club
- Senior dances
- Library events
- Darts
- Try-it sessions (Belly Dance, Nordic Walking, etc.)
- Ball Hockey
- Queen of Hearts Dory Club

Barriers Identified by Community Members:

- Too much entertainment available in the house (technology)
- Lack of facilities
- Do not want to go outside of community
- Lack of sidewalks
- Money
- Program times
- Age
- Accessibility
- Location
- Transportation
- Safety
- No bike lanes

What they want:

- More opportunities for physical activity
- More arts/culture activities
- Cooking classes for high school students
- Photography
- Watercolour painting
- Cover the pool
- Year round use

-
- Classes/time available for adults in the evening
- Arena upgrades
    - Increase seating
    - Renovate the dressing rooms
- More fitness classes at the Recreation Centre
- Exhibition Grounds are in trouble
- Nordic Walking
- Trails need upkeep during the winter
- South side ball field needs improvements
- More sidewalk in Woods Harbour
- Bike lanes
- Boardwalk in Woods Harbour
- Lawn bowling club
- Carpet bowling
- Improved wharves (clean and crisp, a destination for tourists to go with an interpreter on site to answer questions)
- A visitor information centre in Woods Harbour
- An old home restored as a tourist attraction
- A fitness facility in Clark's Harbour
- A community use school on Cape Sable Island
- Walking clubs – Indoors and outdoors
- Skate park
- Beach volleyball
- Lights at the tennis court
- Expand the tennis court
- Non-motorized trails
- Multi use trails
- Beach trail
- Campground
- Racquet sports
- Swim team
- Synchronised swimming
- Festivals
- Duck pond to be an ice rink in the winter
- Skateboard park
- Paintball
- Basketball court
- Ball hockey
- Rugby

- Football
- Ballet
- Indoor climbing wall
- Bowling Alley
- Air soft field
- Training opportunities for sports in the evenings
- Lacrosse
- Larger ball fields

Three Main Themes:

1. Money and lack of facilities most often cited as a barrier to physical activity.
2. Large gap identified in offerings of fine arts/culture opportunities.
3. Many people indicated the need for more walking opportunities.

Online Survey Results

What opportunities for physical activity currently exist in your community?

- There are three gyms, a running club, Arena, Pool, trails, and plenty of beaches
- Nothing that I know of but an indoor swimming pool would be very good for the elderly
- Hockey, Volleyball, local fitness centres, running.
- Exercise classes, walking trails, skating, hockey, curling, baseball/softball, soccer, tennis, running club, rowing
- Curling gyms, sidewalks and trails for walking, other activities available in evenings at local schools
- Sandhills, beaches, ocean

What physical activity opportunities would you like to see developed in your community?

- More trails – safer for walking/running
- Inside swimming pool
- Indoor swimming pool, year round
- Bowling hiking, geocaching, water sports
- Hiking/nature/biking trails

What barriers in your community limit people being physically active? How could these barriers be reduced?

- There are no barriers aside from a lack of education!
- I am not sure but one thing you can do is walk
- More sidewalks… it is dangerous to walk or bike along our rural roads

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- Part of my district does not have good roadside space for safe walking. I think the municipality buts on a good effort for engaging citizens for numerous activities, we need an inside pool, it's a matter of affordability.
- Geographic distance, weather, aging population, Centralize opportunities or promote activities that are not dependent on one season or area.

The province has identified three priorities for the strategy to focus on, how do these apply locally?

a) Walking/biking on a daily basis
    - Making more safe areas to do these activities, most shoulders of highway are narrow! Also drivers need to be more cautious.
    - More sidewalks and walking/biking trails
    - People need to become more aware of the importance of walking and to allot designated time in their day to do so.
    - Bike lanes, bike safety (not just for kids).
b) Youth (ages 12 – 19)
    - More programs and education, having a variety of youth programs in schools and outside so youth can figure out which activities they enjoy. Not everyone enjoys the same activities. Making activities affordable. Educate parents/youth re: the importance of physical activity.
    - Dance… hip hop, skateboard park
    - Ask youth what they want and have council actually listen
c) Females across the lifespan
    - Educate women about how exercise/ an active lifestyle helps prevent disease and slows aging.
    - Exercise classes for young girls
    - Female only Phys Ed, Yoga, Dance, at BMHS

What local priorities so you think should be addresses in our Physical Activity Strategy to make more people, more active, more often?

- Have more education at an elementary school level and high school level that stresses the importance of active living. MORE PHYS ED CLASSES should be mandatory
- Maybe places to go to do exercise inside and a swimming pool would be great inside for exercise
- More sidewalks and groomed trails
- Somehow to get the message across and to make people want to be committed to a healthier lifestyle
- Using our beaches and ocean more

What is the best way to provide you with information on physical activity?

The information gathered on this showed that the community would like a varied approach to marketing.

Only one person added additional information:

“Other: Rec. Dept. should really be on Facebook and Twitter. To engage youth, you must go to where the youth are. We can’t keep doing things the old fashioned way. It is unfathomable that the Rec. Dept. is not more present on Social Media. It is no wonder that activities aren’t well attended or known, the Coast Guard is a niche market of elder citizens and the website is not well known.”

Appendix D Integrated Community Sustainability Plan

Appendix E Ipsos Reid Data