

Memo

February 1, 2016

To: Michael McGovern, Town Manager

 Meredith Nadeau, Superintendent of Schools

From: Greg Marles, Director

Re: Donald Richards Pool

June 2015, the Cape Elizabeth School Department published a Request for Qualifications (RFQ) to provide an evaluation of our existing pool dehumidification and heating systems. The pool evaluation project was awarded to Harriman to deliver an equipment condition report to the School Department. We received the report from Harriman on September 16, 2015 detailing the condition of our existing dehumidification and heating systems. The report showed that our dehumidification system was several years past it’s useful life expectancy and very inefficient.

December 2015, we asked Harriman to evaluate our existing chlorination systems, review other systems currently on the market and generate a report. Harriman provided the report January, 2016 detailing five (5) different systems available to our pool systems to provide for chlorination of the pool water. The systems we requested for review were a standard chlorine injection system, MIOX system (saltwater generator), saltwater injection (brine), Ozone generator and UV generator.

Based on the reports from Harriman, a cost analysis for installation, and needs of the pool; we are recommending support from the Town Manger and Superintendent of Schools for the following systems:

1. Installation of a Seresco or approved equal indoor pool dehumidification system and updated heat transfer system based on a cost of $550,000.00 replacing the existing pool dehumidification system.
2. Installation of a SpectraLight or approved equal UV disinfection (chlorination) system to treat the pool water using 85% to 90% less chlorine than our current system based on a cost of $95,150.00.

It would be our recommendation that both systems be updated for a cost projected at $645,150.00. We would realize a savings in chlorine purchasing of approximately $6,500.00 annually, a reduction in our electricity usage created by more efficient operation and creating a better environment with the reduction of chlorine out gassing for our pool users. An additional potential benefit for these systems is an extended life cycle from 15 to 18 years on the dehumidification unit.

*Town Manager: With contingency and bond issuance costs, I recommend a budget of $700,000.*