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101 CITY HALL PLAZA
DURHAM, NC 27701
P 919.560.4355
F 919.560.4021

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Long Meadow Pool



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Brief History

Long Meadow Park in Northeast Central Durham is a 9.3 acre park with 2 Little League fields, 3 outdoor basketball courts, a picnic shelter, playground and an outdoor swimming pool. The pool was first opened in 1962. In 2003 the City was awarded an Urban Park and Recreation Renovation Grant of \$300,000 to provide substantial renovations to the park; this grant combined with state stream restoration funds and funding received by Durham Bulls Youth Athletic League. This renovation work was completed in 2006.

The 'current' Long Meadow pool was constructed in 1980. The pool is open for 9 weeks each summer and features a water slide.

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Outdoor Pool Operations 2013

Pool Name	Staffing	Operations and Materials	Total Expenses	Revenues	Participation
Long Meadow	26,487	7,006	33,553	4,052	1,548
Hillside	24,504	4,990	29,494	2,400	1,935
Forest Hills	11,723	7,712	19,435	3,510	1,199
DPR Summer Camp Part.					2,000
TOTALS	62,714	19,768	82,482	9,962	6,682



Current Condition

- The pump room for Long Meadow pool is below grade. For many years both DPR and General Services have worked very hard to halt chronic water infiltration to this mechanical room.
- Despite extensive work by GSD staff as well as outside contractors water still pools in the mechanical room. Evidence of water damage is visible on the floor, walls, ceiling and stairs leading to the pump room.
- General Services staff have made suggestions for further mitigation efforts prior to the pool opening in June 2014, including the installation of submersible sump pumps and a high water alarm to warn staff when pump room conditions are extremely dangerous. These efforts will reduce the risks of falls and electrical hazard but not resolve the problem in entirety.



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Current Conditions of other Outdoor Pool Pump Rooms



Hillside Pool



Forest Hills Pool

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Current Condition Long Meadow Pool



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Current Condition Long Meadow Pool





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Expenditures attempting to Remediate

- General Services Department has spent over \$135,000 in the past seven years in attempts to rectify the water infiltration of the mechanical room. This work includes several assessments, replacement of pump equipment, and replastering of the pool several times.
- Four contractors have worked on the water infiltration issues between 2007 and 2013: Aquatic Designs, Aqua Fortis, Duane Stewart and Associates and Southern Electric Motor. This is in addition to the efforts of City staff members to resolve this problem.



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Situation assessment from General Services Department

As you know, GS has made several major repairs over the past 3 – 4 years to try and fix the leak(s) in the pool. We've re-plastered the pool shell and also had a pool vendor to work on the gutter system and yet, the pool still has a leak somewhere that has not been identified. We've had a mechanical engineer to review the pool system (Duane Stewart) and a pool specialist to make repairs (Aqua Fortis) and neither has been successful in pinpointing and repairing the source of the leak. The hazard in the pump room is a result of water infiltration from the leak that has not been identified. Therefore, to say that GS can fix the leak before the pool opens this summer would be a stretch and one that is most likely unattainable.

Email from Lori Blake-Reid, Facilities Operations Manager

General Services Department, City of Durham

March 25, 2014



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Assessment from Szostak Design Inc

While preparing their bid proposal, the selected consultant for the City Pool Assessment, Szostak Design Inc., conducted an assessment of the pump room at Long Meadow Pool. In a letter to the City, they made recommendations as to the safety of operations in time for the 2014 outdoor pool season.

...we cannot warrant that the implementation of every one of the above recommended remedial measures – short of actually repairing all present water leakage – will eliminate all electrical hazard risk associated with this space.

Roger Lynn Spears

March 31, 2014



Recommendation from Risk Management Department

Staff has also requested the input of the City of Durham Risk Manager on this issue:

Risk Management concurs with the final conclusion rendered by the consultant. The infiltration of water into the pump room must be remedied to ensure zero electrical safety risk. General Services has made several improvements to minimize the risk, however given the current conditions in the pump room Risk Management recommends resolving all issues causing water infiltration prior to opening Long Meadow Pool for the summer.

Email from Glenn M. LeGrande, CCLS

Risk Manager, City of Durham

April 2, 2014



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Proposal for Summer 2014

Because of the safety risk from this water infiltration into the pump room and electrical system, City staff recommends that the pool at Long Meadow Park not open for operation in the summer of 2014.



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Communication Plan and Accommodations

It is imperative that the community be well informed of this closure. DPR recommends the following steps:

- Notifying the community via written announcements and public addresses:
 - PAC meetings
 - Website
 - RAC
 - PSA's and media releases
 - Facebook
 - Email Distribution lists
 - Signage at Pool
- Work with DPS, DPD District 1 Substation and NIS to make sure the information is shared.
- Accommodate groups that reserve time at Long Meadow Pool at other pools
- Promotion of DATA routes serving other pools.



Developing Plan for Remediation of Long Meadow Pool

The timeline for the Pool Assessment is aggressive, and we anticipate the consultants will provide the City with a comprehensive assessment of all 5 pools and provide recommendations for pool operations, including Long Meadow Pool.

- August 2014 – City staff review and presentation of consultant report
- January – December 2015 – development of priorities for all pools and timeline for Capital funding request and implementation schedule.



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