

**Project Title:** Pool Repair / Renovation

**Facilities,** Herb Payung

**Report due:** September 2006

**Objectives:**

Present conceptual alternatives for the renovation of the high school swimming pool.  
Prepare engineering alternatives, capabilities, time lines, and costs.  
Recommend a preferred solution.

**Questions:**

- (1) Is the design of the pool skimming and filtration system, if properly rebuilt, inadequate for current standards? If so, show the standards and quantify the deviation of our system.
- (2) Does Saucon Valley have the right to maintain our system in good repair? If so, what are the health and cost considerations?
- (3) Who determines the standards to which the pool must be measured? Is there an appeal mechanism available?
- (4) What is the threshold of work scope at which a repair that is exempt from new standards becomes a renovation that is subject to new standards?
- (5) What is the cost of the complete renovation? What are the operational specifications and quality measures?
- (6) What is the surge capacity of the deck with the pool at full elevation? What is the capacity with the pool one inch below full capacity?
- (7) What is the cost and operational consequence of each of the following alternatives?
  - (a) Replace the failing mechanical components, filters, heaters, pumps.
  - (b) Replace the entire mechanical system and any necessary piping
  - (c) Divert the deck water to the drain rather than to the filter system
  - (d) Skim the pool at night during the still periods with the existing system
  - (e) Put a floor drain in front of the doors.
- (8) Can a mechanical renovation today be functional with both the current skimming system today and a renovation skimming system at a later date? What is the cost premium to doing the renovation in two stages?

**Recommendations:**

What is the cost and capability of each alternative?

What alternatives are recommended at this time and as part of the long term facilities plan?

