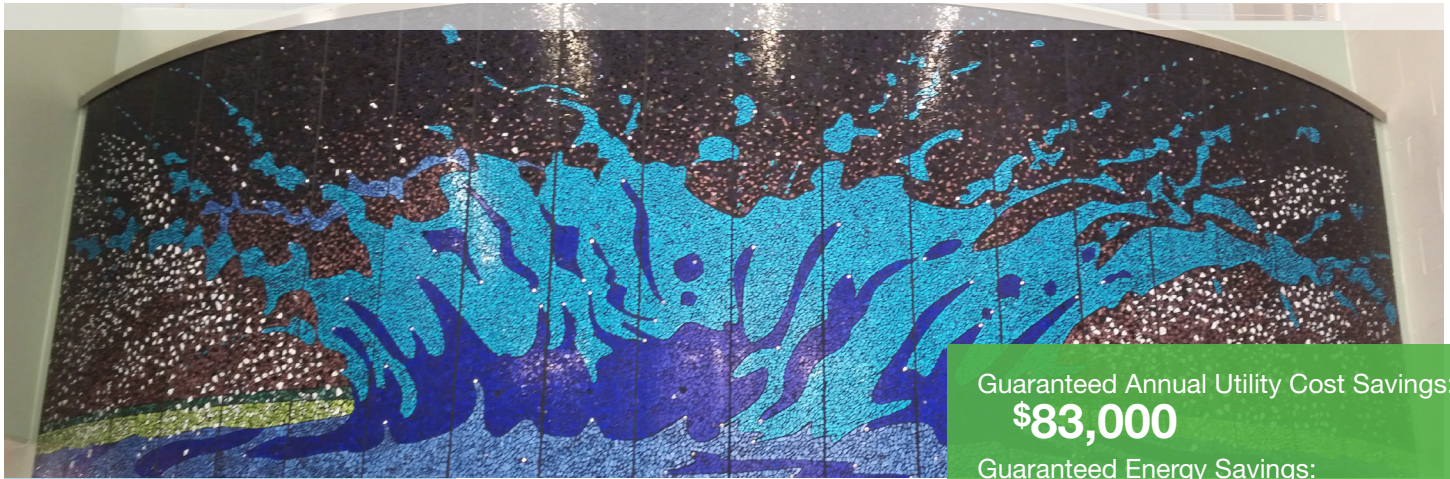


Major Pool Renovation



Guaranteed Annual Utility Cost Savings:
\$83,000

Guaranteed Energy Savings:

84,200 kWh

61,000 therms

810 est annual CCF Water Savings

Project Implementation Costs:

\$4.1M

SUMMARY

Project Benefits

- Reduced energy costs
- Increased comfort for guests
- More control over air and water temperatures
- Improved efficiency and functionality of the building's energy systems

Equipment Installed

- HVAC systems
- Boilers and heating pumps
- Domestic hot water heater and tank
- Domestic hot water tempering valves
- Replace the lighting
- Upgrade the building control system
- Replace the pool circulating pump, inlets, drains filter, and heater
- Provide pool blankets

Financial Analysis

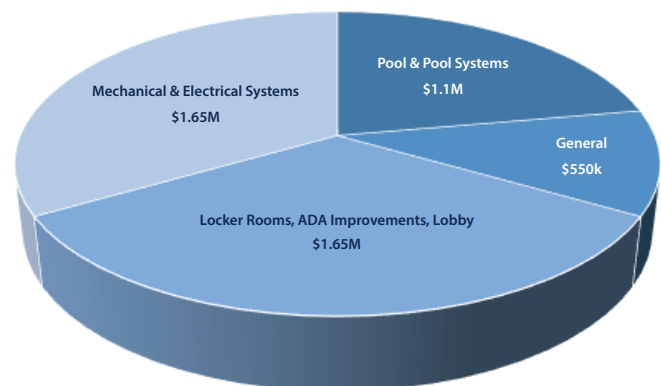
- \$4.1M project cost
- \$83,000 estimated annual energy cost savings
- 84,200 estimated annual kWh energy savings
- 61,000 estimated annual therm savings
- 810 estimated annual CCF of water savings

PUBLIC SWIMMING AND AQUATICS RECREATION

Building a more resilient, sustainable community pool

The colorful 20-by-6 foot glass shard mosaic of splashing water at the entrance of the Julius Boehm Pool in Issaquah, Washington—titled 'KERSPLOOSH!' by local artist Benson Shaw—is just one indicator of a recent \$5 million renovation. Renovated pool features include the new lobby, pool mechanical equipment, new deck coating, new ceiling tiles, a new pool lining (which replaces a liner made dingy yellow by iron oxide escaping old pipes that now have been replaced) and changing rooms, lockers, restrooms, and showers. Additionally, the pool received updated pumps, heaters and electrical systems. The new, computer-controlled equipment could save the city \$83,000 a year in operating expenses.

ENERGY SAVINGS FUND MAJOR UPGRADES





Adding up the savings

The pool is owned by the City of Issaquah and managed by the Parks & Recreation Department. Working closely with the owner, Willdan designed a renovation for the year-round indoor pool. The City is committed to conserving energy, and invested in improved heating and air-conditioning systems, high-efficiency boilers, LED fixtures and advanced control systems to monitor energy use.

Despite initial setbacks in constructing the new pool surface, Willdan successfully managed a nine-month schedule and the pool was opened in August 2015.

SCOPE INCLUDED:	SCOPE CONSIDERED, BUT NOT INCLUDED:
<ul style="list-style-type: none"> Complete renovation of pool (new plaster and tile) All new pool support equipment (filtration, boilers, pumps) Two pool temperature zones New air handling equipment (resolves IAQ issues) New LED lighting New ADA-compliant locker rooms Renovation of lobby Exterior paint and site improvements 	<ul style="list-style-type: none"> Elevator and full ADA compliance on second floor; \$715,000 Water slide and north wall window changes: \$715,000 Three party rooms out west wall: \$715,000 Replace roof and ceiling: \$858,000 New diving board, sound system, climbing wall, projection screen, and underwater LED lights: \$214,500 Parking lot and site sewer replacement: \$572,000

CONSTRUCTION SCHEDULE		
	Willdan - Selected	June 2014
	Energy Study and Budget Completed	September 2014
	Design Complete	November 2014
POOL CLOSED	Asbestos Abatement Begins	Thanksgiving 2014
	Subcontractors Selected	January 2015
	General Construction Starts	February 2015
	Construction Substantial Completion	August 2015
	Pool Grand Re-Opening	August 29, 2015