

Written in November 2012 Updated in August 2013

Case Study - Large Municipal Pool - Scale, Bio and Filtration (Full 4 month bathing season evaluation)

<u>Customer</u>

Yakama Nation - Youth Activities



Installer

*Hydro*FLOW West Inc. 1955 Jadwin Ave. Suite 360 Richland, WA. 99354 509-940-5555 Dr. Rodolfo Nicacio email at: <u>rudy@hydroflowwest.com</u> Mike Colton: <u>mike@hydroflowwest.com</u>



Location:	401 Fort Road, Toppenish, WA 98948
Application:	375,000 Gallon Municipal Pool
Purpose of Installation:	Maintain a balanced pool with minimal chemical usage
Installed HydroFLOW Device:	P160 on a 6" pipe
Installation Date:	August 23, 2011

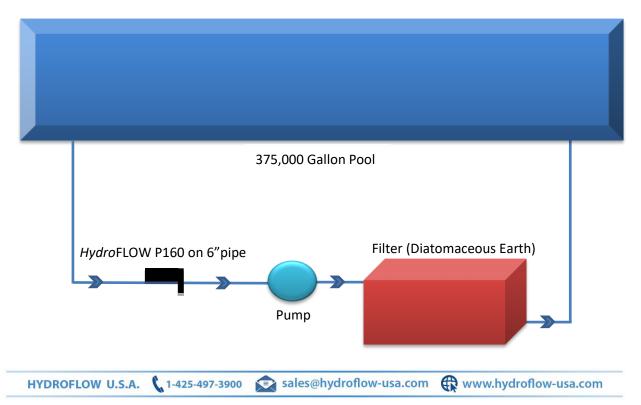
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375,000 Gallon Pool



Pool System Diagram





Installed HydroFLOW P160



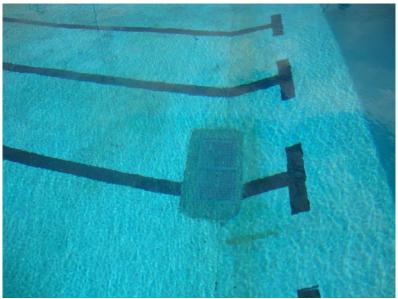
Diatomaceous Earth Filter



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Pool before and after HydroFLOW



Before



After



2011 Bathing Season: The customer monitored most chemical usage during the 2011 season. The *Hydro*FLOW P160 water conditioner was purchased at the end of the season, which didn't provide sufficient time to gather precise chemical reduction data.

2012 Bathing Season: In order to establish a clear baseline of chemical usage, the customer decided to run the pool without operating the *Hydro*FLOW device for a full month. The baseline data was then compared to the 2011 season (without *Hydro*FLOW) and the rest of the 2012 season (with *Hydro*FLOW).

Results:

May-Aug 2011 (without <i>Hydro</i> FLOW)	May 2012 (without <i>Hydro</i> FLOW)	June-August 2012 (with <i>Hydro</i> FLOW)
Dicalite (filter media): 50~60 bags per month	60 bags of per 4 month season	20 bags per 4 month season * Backwash reduced by 65%
Chlorine: 30 buckets per month	30 buckets per month	15 buckets per month
Shock: N/A	8 buckets per month	5 buckets per month
Sunscreen stabilizer: N/A	8 buckets per month	5 buckets per month
Muriatic acid: ½ drum per month	1/2 drum per month	¼ drum per month

Return on Investment: 5 months.

Chemical	Without HydroFLOW	With <i>Hydro</i> FLOW
Dicalite	\$1,560.00	\$520.00
Chlorine	\$26,880.00	\$13,440.00
Shock	\$1,950.00	\$1,300.00
Sunscreen stabalizer	\$3,030.00	\$2,020.00
Muriatic acid	\$1,046.00	\$523.00
	\$34,466.00	\$17,803.00

Quote from Isha Wyman, Pool Manager:

"At the end of May, when the *Hydro*FLOW device was turned on, we noticed immediate changes; the monitor kept reading high levels of pH and Chlorine. We had to keep reducing our chemicals in order to get the pH to stabilize between 7.2 and 8.0 and the Chlorine to stay at 1.0 ppm. Our customers gave us compliments throughout the last 3 months of the bathing season. The state inspector claims our pool is the cleanest in the Yakima Valley!"

Email: <u>isha@yakama.com</u> (preferred method of communication) Phone: (509) 865-5121 Ext. 4450 Website: <u>www.yakamanation-nsn.gov</u>

Note: If Isha is unavailable, ask to speak with Odena Howard, Program Coordinator.

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