

Appendix H - Splash Pad Options

The splash pad was identified from the public consultation as one of the top activities that would encourage more visits to the park. It is proposed that the splash pad will be located within the fenced area on the old footprint of the paddling pools which was removed in 2018. Ustigate has been appointed as contractor. They are based in Dartford, Kent and will provide a full turnkey solution for the design, build, service and maintenance. Staff training will be included, and spare parts are readily available. There is an office and field-based team to provide on-going care and support. There are two options regarding the type of system for water usage that could be used for the splash pad.

Option 1 - A flow through system with a grey water facility which would enable Brentwood Borough Council to feed aquatic play and to irrigate the golf course with the same water. It will require a holding tank of 10m³ to feed the features and two 60,000L above ground (for easy access) grey water tanks and a plant room. This would also require a 230m trench to the golf course holding tank which is at the rear of the bowls greens. This system will run directly of the mains then there is a limit to the number of features that could be installed. This would include 22 features and 9 interactive products linked to pod sprays. This could accommodate up to 60 people based on the number of play items. Build costs are estimated at £300k.

Option 2 - A recirculation system which will enable BBC to treat and recycle the water for the aquatic play. Water will still be needed for sanitising the tank at commissioning, backwashes and some will be lost to evaporation (1L per participant). It will require less direct resource from the mains water which means that more features can be added to the splash pad. The splash pad will require a PWTAG compliant two tank system (clean and dirty tank) and plant room. This system can provide 38 features including 12 interactive products linked to pod sprays and could accommodate up to 130 people at each session. It is more staff intensive due to the requirement for several water quality checks per day but is better for large high flow schemes. Build costs are estimated at £400k.

The table below sets out the estimated costs and income for the splash pad activity

Splash Pad calculations			
Assumptions			
Daily Operation Hours	6		
No of weeks of operation (season)	26		
Total Days Operation Use	182		
Price based per hour	£2.50		
Option 1		Option 2	
Users (based on play features)	60	Users (based on play features)	130
Total users per day	360	Total users per day	780
Total users per season	65,520	Total users per season	141,960
Income		Income	
Maximum seasonal income	£163,800	Maximum seasonal income	£354,900
Expenditure		Expenditure	
Estimated build costs	£300,000	Estimated build costs	£400,000
Approximate annual running costs	£31,264	Approximate annual running cost	£15,797
Annual staff costs (6 hours per day) @£10ph	£10,920	Annual staff costs (6 hours per day) @£10ph	£10,920
Total running costs	£42,183	Total running costs	£26,717
Annual capital and interest payments	£22,500	Annual capital and interest payments	£30,000
Total annual costs	£64,684	Total annual costs	£56,717
Net annual income	£99,116	Net annual income	£298,183
Seasons required to make back investment	3	Seasons required to make back investment	1.3

There is also an opportunity for associated secondary spend with the splash pad with the selling of swim nappies, water play toys, swimming costumes and towels from the main pavilion.