

## RELATED EXPERIENCE

### LAKE ST. CLAIR METROPARK SQUIRT ZONE

Johnson & Anderson was contracted by Huron-Clinton Metropolitan Authority (HCMA) to provide civil, structural and architectural design services for a zero-depth spray park at their Lake

<b>Location:</b>	Metro Beach, Harrison Township Macomb County, MI
<b>Construction Date:</b>	2000-2001
<b>Construction Cost:</b>	\$1,750,000
<b>Client:</b>	Huron-Clinton Metropolitan Authority
<b>Contact:</b>	Michael Arens, P.E. (810) 227-2757

St. Clair Metropark (formerly Metro Beach). Lake St. Clair Metropark is a 770-acre park in the Huron-Clinton Metropark system located in Harrison Township on Lake St. Clair. When the spray park opened in June 2001, it was one of the largest of its kind in Michigan. Called "The Squirt Zone" by HCMA, this type of water attraction creates shooting and spraying water as the feature, rather than standing water. The entire attraction is nearly one acre in size and includes a concrete plaza around the spray

park where parents can sit and watch. As many as 7000 people per day have enjoyed the facility since it opened. The facility features nearly 10,000 square feet of rubberized surface play area, with 67 separate spray items. Included in the list of fun spraying elements are 52 ground sprays, 8 water "O's", 1 crazy hose, 3 water canons, and 3 water arches. The system can be activated by the users with 2 activation bollards. Elements of the system that are invisible to those having fun include 10,000 feet of water supply lines, 1,200 feet of water return lines and storm sewer, and 2 vertical turbine 865 gallon per minute pumps. After leaving the spray features the water is recycled. The recycle system includes the ability to heat, filter and chlorinate the water. The entire system is controlled by three programmable logic controllers, one controlling the pumps, and two operating the 59 electric valves feeding the play features. All of the mechanical equipment is housed in a 400 square foot building.



**Arches, Water Cannon, &  
Mechanical Building**



**Crazy O's**