

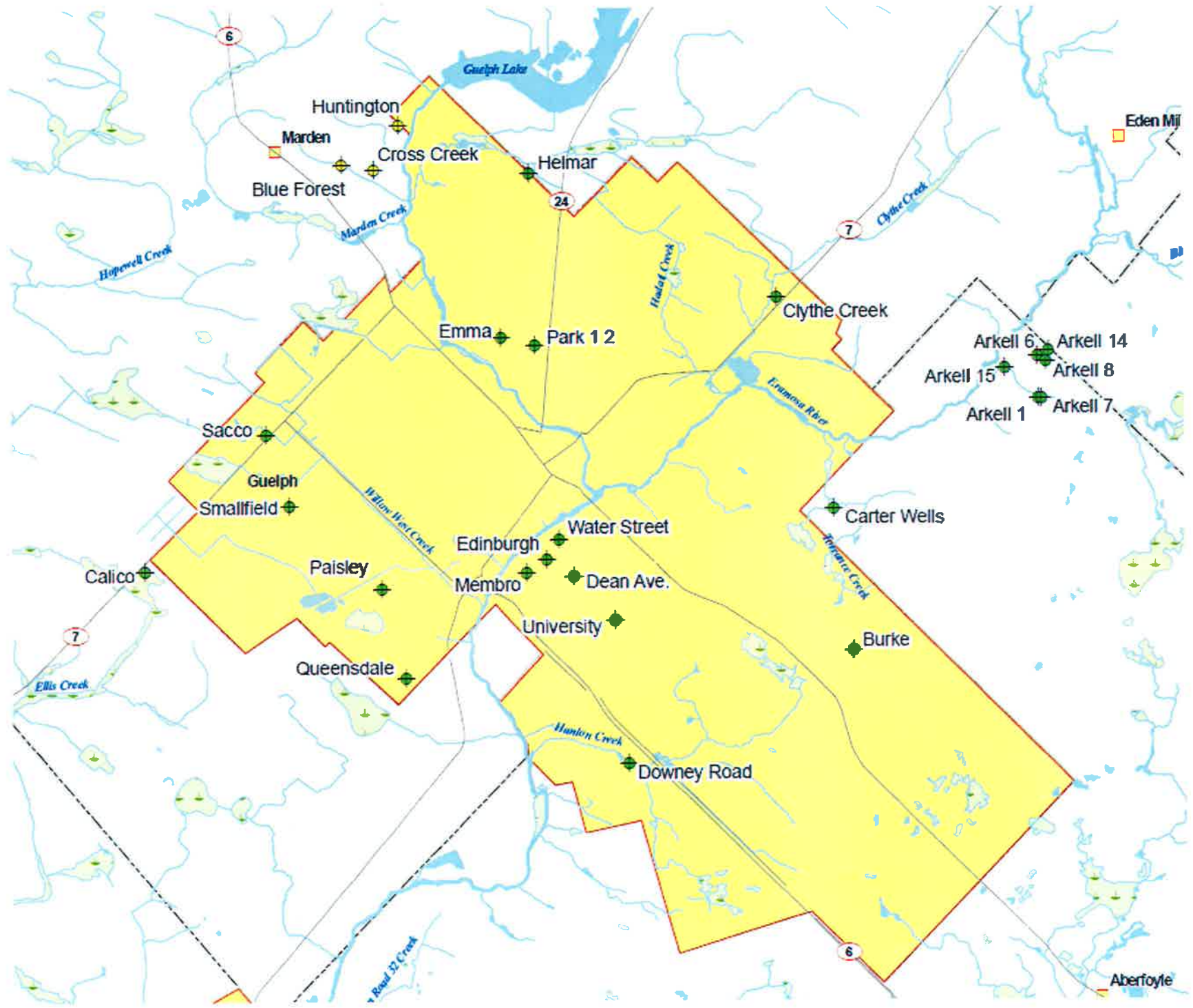
Maintaining a Safe & Sustainable Supply

GUELPH'S CURRENT WATER SUPPLY



Overview of Our Existing System

- Reliance on groundwater to meet the City's water demands since 1879
- Guelph's water supply system includes production wells installed in the Guelph-Gasport bedrock aquifer and the Arkell Spring Grounds collector system:
 - 25 production wells in the municipal supply system, with 21 wells in continuous operation - other 4 wells offline due primarily to water quality concerns
 - A shallow groundwater system that collects spring water in the Arkell Spring Grounds
 - Recharge system (seasonal): augments flow by pumping water from the Eramosa River to an infiltration pond to recharge this water to the groundwater where it is captured by a collector system; availability is subject to river flow conditions (i.e., lower flow in summer)



Arkell Spring Grounds



Overview of Our Existing System

Northwest Quadrant	Paisley	1,400	Northeast Quadrant	Park#1	8,000
	Calico	1,100		Park#2	2,800
	Queensdale	2,000		Emma	1,500
	Sacco	0		Helmar	0
	Smallfield	0		Clythe Creek	
Southwest Quadrant	Membro	6,000	Southeast Quadrant	Arkell 1	2,000
	Water	2,700		Arkell 6	6,500
	Dean	1,500		Arkell 7	6,500
	University	2,500		Arkell 8	6,500
	Downey	5,100		Arkell 14	new
	Edinburgh	0		Arkell 15	new
Arkell Infiltration Galleries		6,900		Burke	6,500
				Carter-1	5,500
				Carter-2	

Total Water Supply (2007) = 75,000 m³/day

Total Water Supply Capacity with new wells = 83,000 m³/day