

E Appendix E - Future Water Demand Estimates



Potential Water Demand by Industry

Numbers were estimated based on data taken from "Industrial Water Use, 1996" published by Authority of the Minister of Environment and "Advanced Water Distribution Modeling and Management" published by Haested Methods Inc. 2003-2004. Water usage numbers are estimates only and depend largely on the type of businesses that will be started in the Industrial Corridors.

Elstow Industrial Zone

	Water Usage Estimate (Average Day)
Phase I (Year 2010)	
• Combine World	2.6 m ³ /day
• Westco Fertilizer Depot	<u>1.3 m³/day</u>
	3.9 m ³ /day
Phase II (Year 2020)	
• Combine World	2.6 m ³ /day
• Westco Fertilizer Depot	1.3 m ³ /day
• Food Processor	581.0 m ³ /day
• Machinery Manufacturer	<u>326.0 m³/day</u>
	910.9 m ³ /day
Phase III (Year 2030)	
• Combine World	2.6 m ³ /day
• Westco Fertilizer Depot	1.3 m ³ /day
• Food Processor (x2)	1162.0 m ³ /day
• Machinery Manufacturer	326.0 m ³ /day
• Chemical Manufacturer	410.0 m ³ /day
• 25 MI/yr Ethanol Plant	<u>1313.0 m³/day</u>
	3214.9 m ³ /day

Clavet Industrial Zone

Water Usage Estimate (Average Day)

Phase I (Year 2010)

• PCS (Patience Lake)	3800 m ³ /day
• Cargill Canola Crushing Plant	<u>800 m³/day</u>
	4600 m ³ /day

Phase II (Year 2020)

• PCS (Patience Lake)	3800 m ³ /day
• Cargill Canola Crushing Plant (x2)	1600 m ³ /day
• Food Processor	581 m ³ /day
• Fabricated Metals Manufacturer	97 m ³ /day
• Hog Facility	<u>1334 m³/day</u>
	7412 m ³ /day

Phase III (Year 2030)

• PCS (Patience Lake)	3800 m ³ /day
• Cargill Canola Crushing Plant (x2)	1600 m ³ /day
• Food Processor	581 m ³ /day
• Fabricated Metals Manufacturer	97 m ³ /day
• Hog Facility	1334 m ³ /day
• Chemical Manufacturer	410 m ³ /day
• Primary Metals Manufacturer	1515 m ³ /day
• Non-Metals Manufacturer	<u>72 m³/day</u>
	9600 m ³ /day