

TOWN of EDINBURGH WATER SYSTEM DESIGN DATA

<i>Current Population:</i>	<i>4,480 (2010 Census)</i>
<i>Design Year and Population:</i>	<i>2022, 6,360</i>
<i>Design Population Equivalent (P.E.):</i>	<i>13,247 (@ 0.17 lb/d/person)</i>
<i>Design Flow:</i>	<i>1.50 MGD average flow</i>
<i>Average Design Peak Flow:</i>	<i>3.0 MGD</i>
<i>Maximum Plant Flow Capacity:</i>	<i>3.00 MGD</i>

Design Waste Strength:

<i>a) BOD:</i>	<i>180 mg/L (2252 lb/d)</i>
<i>b) SS:</i>	<i>220 mg/L (2752 lb/d)</i>
<i>c) P:</i>	<i>N/A</i>
<i>d) Other:</i>	<i>NH₃-N 25 mg/L (313 lb/d)</i>

1. NPDES Permit Limitation on Effluent Quality: (Limits are anticipated Monthly Average per Waste load Allocation Letter dated 11/13/00)

<i>a) BOD:</i>	<i>25 mg/L</i>
<i>b) SS:</i>	<i>30 mg/L</i>
<i>c) NH₃-N:</i>	<i>10.4 mg/L (summer); 10.4 mg/L (winter)</i>
<i>d) P:</i>	<i>N/A</i>
<i>e) Chlorine Residual:</i>	<i>0.02 mg/L (daily maximum); 0.01 mg/L (monthly average)</i>
<i>f) pH:</i>	<i>6 – 9</i>
<i>g) D.O.:</i>	<i>3.0 mg/L (daily minimum)</i>
<i>h) Other:</i>	<i>E. coli – count/100 mL: 235 daily, 125 monthly</i>

2. Receiving Stream:

<i>a) Name:</i>	<i>Big Blue River</i>
<i>b) Tributary to:</i>	<i>Driftwood River</i>
<i>c) Stream Uses:</i>	<i>Recreation, aquatic life</i>
<i>d) 7 – Day, 1-in-10 – year low flow:</i>	<i>64 cfs</i>