

Boulder Wastewater Treatment Plant Pump Station Information

1. Secondary Process Pump Station (from primary clarifiers to aeration basins)

Characteristic	Units	Value
75 HP		Vertical centrifugal, 2-speed (Hi/Low)
Number		3
Capacity (each)	MGD (Hi/Low)	9.2/5.9
Head (each)	ft (Hi/Low)	29/26
150 HP		Vertical centrifugal, 2-speed (Hi/Low)
Number		3
Capacity (each)	MGD (Hi/Low)	15.1/10.5
Head (each)	ft	29/26

2. Return Activated Sludge (RAS) Pump Station (from secondary clarifiers to aeration basins)

Characteristic	Units	Value
100 HP		Horizontal centrifugal
Number		6
Capacity (each)	Gal/min (gpm)	4350
Head (each)	ft	55

3. Aeration basin internal mixed liquor recirculation pumps (from end of aeration basin to beginning, for denitrification)

Characteristic	Units	Value
20 HP		Submersible axial flow
Number		3
Capacity (each)*	MGD	8.5
Total Dynamic Head (each)	ft	4

If capacity is too low, assume HP scales linearly with capacity for same total dynamic head.