

7. September 2021

Facts and Figures:
 Municipal Wastewater and Sewerage Department
 Hanover

organizational form	Municipal Wastewater and Sewerage Department Hanover
number of employees	ca. 500
population of the city of Hanover	539,641 (09/2020)
annual precipitation	19.84 in
waste water charge	0.01059 €/ imp gal
precipitation water charge	1,054 €/ in ²
length of the urban drainage network	1,589 mls
mixed water drains	169 mls (i.e. 10.8%)
waste water drains	699 mls (i.e. 44.0%)
rainwater drains	720 mls (i.e. 45.3%)
number of rainwater reservoirs	total of 66 with a retention volume of 277,577 m ³
number of waste water pumping stations	total of 123 of which 3 mixed water pumping stations of which 63 waste water pumping stations of which 57 rainwater pumping stations
no. of road drains	59,959
length of outflows for rainwater removal	93.8 mls
connections to the drainage network	119,000 (estimate)
properties connected to the public drainage network	66,133
internal equipment maintenance and cleaning sewer network: ditches: street drains:	 651.8 mls/p.a. 66.5 mls/p.a. 47,387 units/p.a.
cleaning and disposal of light liquid / heavy oil separators and sludge traps total number: cleaning performance: cleaning volume:	 520 units 246 units/p.a. 504,389.5 imp gal/p.a.
cleaning and disposal of grease separators and sludge traps total number: cleaning performance: cleaning volume:	 1,060 4,720 units/p.a. 1865779 imp gal/p.a.

wastewater treatment plants	plant "Herrenhausen"	plant "Gümmerwald"
capacity	500,000 PE	750,000 PE
constructions / extensions	1907/1935/1955/1974/2001	1982/2000
nominal intake (dry weather)	4,749,412,792 imp gal/p.a.	6,689,099,424 imp gal/p.a.
waste water volume (imp gal) year: day: hour: minute: second:	5,089,096,124 13,942,530 580,939 9,679 162	7,233,352,397 19,817,250 825,545 13,748 229.5
purity degree of treated water carbon (CD) nitrogen (N) phosphorus (P)	96% 86% 97%	96% 91% 96%
gas volume production	753,555,693 imp gal/p.a.	1,130,836,389 imp gal/p.a.
energy consumption	11.831.739 kWh/p.a.	13.406.807 kWh/p.a.
electricity self-supply	7,745,011 kWh/p.a.	10,994,255 kWh/p.a.
self-supply rate	65.5%	82.0%
screening volume	697 t/p.a.	449 t/p.a.
sand trap volume	136 t/p.a.	114 t/p.a.
sludge production volume of both treatment plants	54,541 t/p.a.	