

City of Hermiston, Oregon - Industrial Wastewater Surcharge Rate Analysis

1/31/2022

Administrative Cost	2020 Actuals	Flow Cost		BOD Cost		TSS Cost		Ammonia Cost	
		% Factor	Cost	% Factor	Cost	% Factor	Cost	% Factor	Cost
Personnel Services									
SALARY & WAGES	\$ 837,377	10%	\$ 83,738	45%	\$ 376,820	40%	\$ 334,951	5%	\$ 41,869
RETIREMENT	\$ 225,409	10%	\$ 22,541	45%	\$ 101,434	40%	\$ 90,164	5%	\$ 11,270
MEDICAL, DENTAL & LIFE INS	\$ 206,554	10%	\$ 20,655	45%	\$ 92,949	40%	\$ 82,622	5%	\$ 10,328
SOCIAL SECURITY	\$ 62,146	10%	\$ 6,215	45%	\$ 27,966	40%	\$ 24,858	5%	\$ 3,107
UNEMPLOYMENT INSURANCE	\$ 116,436	10%	\$ 11,644	45%	\$ 52,396	40%	\$ 46,574	5%	\$ 5,822
OVERTIME	\$ 8,230	10%	\$ 823	45%	\$ 3,704	40%	\$ 3,292	5%	\$ 412
ACCIDENT INSURANCE	\$ 10,648	10%	\$ 1,065	45%	\$ 4,792	40%	\$ 4,259	5%	\$ 532
EMPR CONTRIB DEFERRED COMP	\$ 947	10%	\$ 95	45%	\$ 426	40%	\$ 379	5%	\$ 47
Materials and Service									
CHEMICALS	\$ 289,475	10%	\$ 28,948	45%	\$ 130,264	40%	\$ 115,790	5%	\$ 14,474
ELECTRICITY	\$ 187,998	10%	\$ 18,800	45%	\$ 84,599	40%	\$ 75,199	5%	\$ 9,400
MISCELLANEOUS CONTRACTUAL	\$ 195,181	10%	\$ 19,518	45%	\$ 87,831	40%	\$ 78,072	5%	\$ 9,759
PARTS FOR OPERATING EQUIP	\$ 122,689	10%	\$ 12,269	45%	\$ 55,210	40%	\$ 49,076	5%	\$ 6,134
OTHER PROFESSIONAL SERVICES	\$ 62,583	10%	\$ 6,258	45%	\$ 28,162	40%	\$ 25,033	5%	\$ 3,129
PROPERTY & LIABILITY INS	\$ 71,923	10%	\$ 7,192	45%	\$ 32,365	40%	\$ 28,769	5%	\$ 3,596
REPAIRS-MACHINERY & EQUIP	\$ 62,575	10%	\$ 6,258	45%	\$ 28,159	40%	\$ 25,030	5%	\$ 3,129
MINOR/SAFETY EQUIP	\$ 32,181	10%	\$ 3,218	45%	\$ 14,481	40%	\$ 12,872	5%	\$ 1,609
MEDICAL & LAB SUPPLIES	\$ 25,804	10%	\$ 2,580	45%	\$ 11,612	40%	\$ 10,322	5%	\$ 1,290
BILLING/MAILING SERVICES	\$ 20,330	10%	\$ 2,033	45%	\$ 9,149	40%	\$ 8,132	5%	\$ 1,017
MOTOR VEHICLE FUEL & OIL	\$ 16,667	10%	\$ 1,667	45%	\$ 7,500	40%	\$ 6,667	5%	\$ 833
LICENSES & PERMITS	\$ 15,133	10%	\$ 1,513	45%	\$ 6,810	40%	\$ 6,053	5%	\$ 757
FUEL-OTHER THAN VEHICLE	\$ 16,427	10%	\$ 1,643	45%	\$ 7,392	40%	\$ 6,571	5%	\$ 821
LEASED VEHICLES	\$ 12,555	10%	\$ 1,256	45%	\$ 5,650	40%	\$ 5,022	5%	\$ 628
REPAIRS-OFFICE EQUIPMENT	\$ 1,557	10%	\$ 156	45%	\$ 701	40%	\$ 623	5%	\$ 78
TRAVEL & TRAINING	\$ 9,256	10%	\$ 926	45%	\$ 4,165	40%	\$ 3,702	5%	\$ 463
TELEPHONE	\$ 10,265	10%	\$ 1,027	45%	\$ 4,619	40%	\$ 4,106	5%	\$ 513
ACCOUNTING & AUDITING	\$ 10,628	10%	\$ 1,063	45%	\$ 4,783	40%	\$ 4,251	5%	\$ 531
POSTAGE	\$ 4,375	10%	\$ 438	45%	\$ 1,969	40%	\$ 1,750	5%	\$ 219
OFFICE SUPPLIES	\$ 6,802	10%	\$ 680	45%	\$ 3,061	40%	\$ 2,721	5%	\$ 340
LAUNDRY & OTHER SANITATION	\$ 4,645	10%	\$ 465	45%	\$ 2,090	40%	\$ 1,858	5%	\$ 232
LUBE-OTHER THAN VEHICLE	\$ 3,523	10%	\$ 352	45%	\$ 1,585	40%	\$ 1,409	5%	\$ 176
DUES & MEMBERSHIP	\$ 3,119	10%	\$ 312	45%	\$ 1,404	40%	\$ 1,248	5%	\$ 156
MOTOR VEHICLE PARTS	\$ 1,176	10%	\$ 118	45%	\$ 529	40%	\$ 470	5%	\$ 59
CLEAN/SANITATION SUPPLIES	\$ 1,777	10%	\$ 178	45%	\$ 800	40%	\$ 711	5%	\$ 89
CONCRETE SUPPLIES	\$ 1,039	10%	\$ 104	45%	\$ 468	40%	\$ 416	5%	\$ 52
PLUMBING & SEWAGE SUPPLIES	\$ 711	10%	\$ 71	45%	\$ 320	40%	\$ 284	5%	\$ 36
FOOD & MISCELLANEOUS	\$ 550	10%	\$ 55	45%	\$ 248	40%	\$ 220	5%	\$ 28
PAINT & PAINT SUPPLIES	\$ 935	10%	\$ 94	45%	\$ 421	40%	\$ 374	5%	\$ 47
OVER AND SHORTS	\$ 53	10%	\$ 5	45%	\$ 24	40%	\$ 21	5%	\$ 3
AG & HORT SUPPLIES	\$ -								
Capital Outlay									
Motor Vehicles	\$ -	82%	\$ -	6%	\$ -	6%	\$ -	6%	\$ -
Plant Equipment	\$ -	0%	\$ -	49%	\$ -	44%	\$ -	7%	\$ -
Other Equipment	\$ 106,751	0%	\$ -	49%	\$ 52,308	44%	\$ 46,970	7%	\$ 7,473
Other									
Equipment Reserve	\$ 130,000	0%	\$ -	49%	\$ 63,700	44%	\$ 57,200	7%	\$ 9,100
Debt Services	\$ 1,007,400	0%	\$ -	49%	\$ 493,626	44%	\$ 443,256	7%	\$ 70,518
Total	\$ 3,903,830		\$ 265,968		\$ 1,806,490		\$ 1,611,298		\$ 220,075

Current RWTP Design Parameters			
RWTP 2020 Influent Flow	1.3	MGD	Plant Design Flow*
RWTP Design BOD	313	mg/L	RWTP Average Annual BOD*
RWTP Design TSS	261	mg/L	RWTP Average Annual TSS*
RWTP Design Ammonia	35	mg/L	RWTP Average Annual Ammonia*
			* From RAISE Table 2-2
BOD Rate	\$ 1.46	\$/LB	
TSS Rate	\$ 1.56	\$/LB	
Ammonia Rate	\$ 1.59	\$/LB	