

TOWN OF HILLSBOROUGH																						
20 YEAR CAPITAL IMPROVEMENT PLAN																						
WATER & SEWER UTILITIES DEPARTMENT																						
		Year -->	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Account Name		FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
Engineering																						
1	Contract Services - GIS Implementation	20,000	30,000	20,000	21,000	22,000	23,000	24,000	25,000	26,000	27,000	28,000	29,000	30,000	34,000	32,000	33,000	34,000	35,000	36,000	37,000	38,000
2	Capital - Photogrammetry/GIS Data OC	0	0	9,750	0	0	0	10,500	0	0	0	11,500	0	0	0	12,500	0	0	0	14,000	0	0
3	Cont. Services - Rate Study	0	0	0	0	0	0	40,000	0	0	0	0	0	0	0	50,000	0	0	0	0	0	38,000
4	Capital - Replacement Vehicle	0	0	0	0	0	0	0	37,000	0	0	35,000	0	0	0	40,000	0	0	0	0	0	0
Engineering Total		20,000	30,000	29,750	21,000	22,000	23,000	74,500	62,000	26,000	27,000	74,500	29,000	30,000	34,000	134,500	33,000	34,000	35,000	50,000	37,000	76,000
Water Plant																						
		FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
1	Capital -Energy Audit Items	0	0	5,000	0	0	5,000	0	0	0	0	0	10,000	0	0	0	0	10,000	0	0	0	0
2	Miscellaneous Building Improvements	0	0	0	0	15,000	10,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Capital - Spectrophotometer	0	0	0	0	0	0	0	10,000	0	0	0	0	0	0	0	0	15,000	0	0	0	0
4	Capital - Misc. Lab Equipment	10,000	10,000	0	0	0	0	10,000	0	0	0	18,000	0	0	0	10,000	0	0	10,000	0	0	0
5	Capital - Filter Turbidimeters	0	0	0	0	5,000	0	0	0	0	0	0	7,000	0	0	0	0	0	0	9,000	0	0
6	Capital - Replacement Vehicle	0	0	0	0	0	28,600	0	0	0	0	0	0	0	0	0	0	35,000	0	0	0	0
7	Capital - Chemical Pumps	0	0	0	0	0	6,000	0	0	0	0	0	7,000	0	0	0	0	0	0	0	0	0
8	Capital - Autoclave / Sterilizer	0	0	0	0	0	0	0	0	0	0	10,000	0	0	0	0	0	0	0	0	0	0
9	Cap. Pro.-Lake Johnston Dam Evaluation	0	0	0	0	0	0	0	0	0	0	0	15,000	0	0	0	0	0	0	0	0	0
10	CapPro-Lake Johnston Sediment Survey	0	0	0	0	0	0	0	0	0	0	0	15,000	0	0	0	0	0	0	0	0	0
11	Cap. Pro.-Dredge Lake Johnston	0	0	160,000	0	0	0	0	0	0	0	0	0	120,000	0	0	0	0	0	0	0	0
12	Cap. Pro. - Dredging Sludge Lagoons	0	0	0	0	0	0	0	0	0	0	0	0	75,000	0	0	0	0	0	0	0	0
13	Cap. Pro.- Grant App. & Env. Assess.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Cap. Pro.- Plant Expansion Design	0	0	0	0	450,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	Cap. Pro.-Water Plant Expansion (20M FY35)	0	0	0	0	0	0	134,431	134,431	134,431	134,431	134,431	134,431	134,431	134,431	134,431	134,431	134,431	134,431	134,431	134,431	134,431
16	Cap. Pro.-Contact Time (CT) Study	0	0	0	0	0	0	12,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	Cap. Pro.-Replace/Relocate HVAC	0	10,000	0	0	15,000	0	0	0	0	0	0	0	0	0	0	20,000	0	0	0	0	0
18	Cap. Pro.-Repl. Flocculators	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50,000	0	0	0	0	0
19	Cap. Pro.-Lake Johnston/WFER Dam Repairs	0	0	0	180,000	0	0	200,000	0	0	0	0	0	0	200,000	0	0	0	0	0	0	0
20	Cap. Pro.- Rehab Filters	0	0	0	0	0	0	0	0	200,000	200,000	200,000	200,000	0	200,000	0	0	0	0	0	0	0
21	Cap. Pro.- Water Pump Replacements	0	0	0	0	0	25,000	0	25,000	0	30,000	30,000	0	0	0	0	0	0	0	0	0	0
22	Cap. Pro.- Repair/Replace Clearwell	0	0	0	0	0	0	60,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	WTP Upgrade Loan (\$1.8M) (FY23)	110,690	108,683	106,635	104,608	102,580	100,553	98,525	96,498	95,000	83,000	91,000	89,000	87,000	85,000	83,000	81,000	79,000	0	0	0	0
Water Plant Total		120,690	128,683	271,635	284,608	587,580	150,153	479,956	290,929	264,431	417,431	483,431	507,431	416,431	619,431	227,431	285,431	263,431	144,431	153,431	134,431	134,431

<i>Water Distribution</i>		FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
1	Cont. Services/Tank Maint. Program	13,305	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000
2	Cont. Services - Leak Detect. Equipment	0	0	0	20,000	0	0	0	0	0	15,000	15,000	0	0	0	0	15,000	0	0	0	0	0
3	Cont. Services - Water Master Plan	0	0	0	0	0	0	0	0	0	60,000	0	0	0	0	0	0	0	0	0	0	0
4	Capital - Mini Excavator (1/2)			15,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Capital Replacement Trucks (1/2)			18,000	35,500	18,000	18,500	18,500	37,000	19,000	19,000	19,000	19,000	20,000	20,000	20,000	21,000	21,000	21,000	22,000	22,000	22,000
6	Capital - Air Compressor	0	0	0	0	0	0	0	0	20,000	0	0	0	0	0	0	0	0	0	0	0	30,000
7	Capital - Skid-Steer Loader (1/2)	0	0	13,000	0	0	0	0	0	0	0	16,000	0	0	0	0	0	0	0	0	0	0
8	Capital - Misc. Repl. Equipment	0	0	0	0	0	0	0	0	15,000	0	0	0	20,000	0	0	0	0	0	30,000	0	0
9	Capital - Walk-Behind Trencher	0	0	0	0	0	0	0	0	0	0	15,000	0	0	0	0	0	0	0	0	0	0
10	Cap. Proj. Intake Equipment Rehab (Raw H2O)	0	0	0	0	0	0	0	0	0	0	0	200,000	0	0	0	0	0	0	0	0	0
11	Cap. Pro.- Loop Durham Line to New Hope (5yrs)	0	0	0	0	0	0	0	0	0	0	300,000	300,000	300,000	300,000	300,000	0	0	0	0	0	0
12	Cap.Pro.- Raw Water PS & Main- WFER (20yrs)	0	0	0	0	0	0	0	0	0	0	0	0	0	230,000	230,000	230,000	230,000	230,000	230,000	230,000	230,000
13	Cap. Pro.- Replace Small Lines	10,000	30,000	10,000	11,000	11,000	11,000	12,000	12,000	12,000	15,000	15,000	20,000	20,000	25,000	25,000	30,000	30,000	30,000	40,000	40,000	40,000
14	Cap. Pro. - Generators	0	0	0	0	0	0	0	0	100,000	0	0	0	0	0	0	0	0	0	150,000	0	0
15	Cap. Pro - North Water Loop	0	0	0	0	0	0	0	0	0	125,000	125,000	0	0	0	0	0	0	0	0	0	0
16	Cap. Pro - Security Surveillance	0	0	16,500	0	0	0	0	0	12,000	12,000	0	0	14,000	14,000	0	0	0	0	18,000	18,000	0
17	Cap. Pro. - Grady Brown Water Loop (5yrs)	0	0	0	0	0	0	0	0	0	200,000	200,000	200,000	200,000	200,000	0	0	0	0	0	0	0
18	Cap. Pro.- Replace Orange Grove Rd Water Line	0	550,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Cap. Pro.- Replace Hassell Water Tank (5 yrs)	0	0	0	0	0	0	200,000	200,000	200,000	200,000	200,000	0	0	0	0	0	0	0	0	0	0
20	Cap. Pro.- New South Zone Water Tank(500K Subsidy)	0	0	0	1,200,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	Cap. Pro.- Replace Exch. Club Rd Water Line	0	0	75,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	Cap. Pro.- Hydrant Painting	0	0	0	0	0	0	0	0	50,000	0	0	0	0	0	0	0	0	0	75,000	0	0
23	Cap. Pro.- Tank Disinf Residual Monitors	0	0	0	36,000	0	0	0	0	0	0	0	0	0	50,000	0	0	0	0	0	0	0
24	Lease Purchase/Water Tanks (FY12)	217,200	217,200	109,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Cap. Pro. - New South Zone Water Main	0	0	0	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	0	0	0	0	0	0	0	0
26	Cap. Pro. New South Zone BPS	0	0	0	200,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	Capital Mini Excavator (1/2)	0	0	15,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Distribution Total		240,505	822,200	296,500	1,677,500	204,000	204,500	405,500	424,000	603,000	696,000	1,080,000	1,039,000	759,000	874,000	610,000	331,000	316,000	346,000	570,000	345,000	357,000
<i>Wastewater Collection</i>		FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
1	Cont. Services - Root Control Svc.	10,000	12,000	12,000	13,000	13,000	14,000	14,000	15,000	15,000	16,000	20,000	20,000	20,000	25,000	25,000	25,000	25,000	30,000	30,000	30,000	30,000
2	Capital Mini Excavator	0	0	15,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Capital - Replacement Trucks (1/2)	0	0	18,000	35,500	18,000	18,500	18,500	37,000	19,000	19,000	19,000	19,000	20,000	20,000	20,000	21,000	21,000	21,000	22,000	22,000	22,000
4	Capital - Vacuum Trailer Unit & TV/Sewer Video System	0	33,057	33,057	33,057	17,529	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	Capital - Jet Wash Machine	0	0	0	0	0	0	0	0	0	100,000	0	0	0	0	0	0	0	0	0	0	0
6	Capital - Tractor (sludge lagoon cleaning)	0	0	0	0	0	0	0	0	30,000	0	0	0	0	0	0	0	0	0	0	0	0
7	Capital - Backhoe	70,000	0	0	0	0	0	0	0	0	100,000	0	0	0	0	0	0	0	0	0	0	150,000
8	Capital- Replc. Skid-Steer Loader #381	0	0	13,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	Cap. Pro.- Sewer Rehab (I&I)	60,000	450,000	100,000	120,000	140,000	160,000	180,000	200,000	200,000	200,000	200,000	200,000	200,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000
10	Cap. Pro. - Eliz. Brady PS Upgrade	0	0	725,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Cap. Pro.-Eno River Outfall Replace(12yrs)	0	0	0	214,699	214,699	214,699	214,699	214,699	215,000	215,000	215,000	215,000	215,000	215,000	215,000	215,000	0	0	0	0	0
12	Cap. Pro. - Generators	0	0	0	0	86,616	86,616	86,616	86,616	87,000	0	0	0	0	0	0	50,000	0	0	0	0	0
13	Cap. Pro.- Orange Grove Rd. Outfall (5yrs, 2 phases)	0	0	0	118,698	118,698	118,698	118,698	118,698	0	0	0	0	0	0	0	0	0	0	0	0	0
14	Cap. Pro.- Orange Grove Rd. Outfall (phase 2)	0	0	0	0	0	0	166,177	166,177	167,000	167,000	167,000	0	0	0	0	0	0	0	0	0	0
15	Cap. Pro.-Cemetery/Orange HS Outfall (3 yrs)	0	0	0	0	0	0	0	0	0	0	160,000	160,000	160,000	0	0	0	0	0	0	0	0
16	Cap. Pro.- Sewer Master Plan	0	0	0	0	0	0	0	0	0	60,000	0	0	0	0	0	0	0	0	0	0	0
Wastewater Collection Total		140,000	495,057	916,057	320,255	608,542	612,513	798,690	838,190	733,000	877,000	781,000	614,000	615,000	510,000	510,000	561,000	296,000	301,000	302,000	302,000	452,000

	FY10	FY11	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
Wastewater Treatment																					
1 Capital - Aerators (Compressors FY25)	0	0	9,000	0	0	0	0	0	0	0	0	0	0	0	0	85,000	0	100,000	0	150,000	0
2 Capital - Bar Screen Conveyor Repair/Replace	0	0	0	0	0	0	0	0	0	125,000	0	0	0	0	0	0	0	0	0	0	0
3 Capital - Backhoe (Replacement)	0	0	0	0	0	0	0	0	75,000	0	0	0	0	0	0	0	0	0	0	0	0
4 Capital - Pick-up Truck	0	0	0	0	30,000	0	0	0	0	0	0	0	0	0	0	40,000	0	0	0	0	0
5 Capital - RO Water Treatment System	0	0	0	0	0	0	0	0	10,000	0	0	0	0	0	0	0	0	0	0	0	15,000
6 Cap. Pro.- Instrumentation Rehab	0	0	0	0	0	0	0	0	0	0	0	0	0	30,000	0	0	0	0	0	0	0
7 Cap. Pro.- Rebuild Filters	0	0	0	0	0	0	0	0	0	0	0	0	125,000	125,000	0	0	0	0	0	0	0
8 Cap. Pro.- Repair Ops. Bldg. Roof	0	0	0	0	0	0	0	0	45,000	0	0	0	0	0	0	0	0	0	0	0	0
9 Cap. Pro.- Plant Exp. Plan & Design	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Cap. Pro.- Repaint Plant Surfaces	0	0	0	0	0	0	0	0	15,000	15,000	0	0	0	0	0	0	0	20,000	0	0	0
11 Lease Purch./Plant Impr. (FY09)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Cont. Debt Service - Plant (FY13)	42,100	40,300	38,500	14,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 Plant Upgrade & Expansion Design	400,000	640,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 New WWTP \$13M @ 3% 20 yr. - FY13-FY32				870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000	870,000
Wastewater Treatment Plant Total	442,100	680,300	47,500	884,700	900,000	870,000	870,000	870,000	1,015,000	1,010,000	870,000	870,000	995,000	1,025,000	870,000	995,000	870,000	990,000	870,000	1,020,000	885,000
Reservoir																					
1 Cap. Pro.-Dredge WFER	0	0	0	0	0	0	0	0	0	0	0	250,000	0	0	0	0	0	0	0	0	0
2 Cap. Pro- WFER Sediment Survey	0	0	0	0	0	0	0	0	0	0	25,000	0	0	30,000	0	0	0	0	0	0	0
3 Cap. Pro- Spillway Repairs	0	0	0	0	0	0	0	0	0	0	0	0	200,000	0	0	0	0	0	0	0	0
4 Wetlands Construction (404 Permit)	0	900,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Cap Pro-Phase 2 Design & Construction (\$3M,20yrs@6.5%) FY 16-35	0	0	0	0	200,000	500,000	272,269	272,269	272,269	272,269	0	0	0	0	0	275,000	275,000	275,000	275,000	275,000	275,000
6 Water Quality Monitoring (Raw H2O)	15,000	15,000	20,000	20,000	20,000	20,000	20,000	20,000	25,000	25,000	25,000	25,000	25,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000
7 LeasePurchase/Refinance(\$600K-5% 5 years)	0	70,000	140,000	140,000	140,000	140,000	70,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Cont. Debt Serv./Reservoir (FY18)	617,094	720,913	705,032	714,532	720,982	703,833	684,532	664,135	650,000	650,000	650,000	0	0	0	0	0	0	0	0	0	0
Reservoir Total	632,094	1,705,913	865,032	874,532	1,080,982	1,363,833	1,046,801	956,404	947,269	947,269	700,000	275,000	225,000	60,000	30,000	305,000	305,000	305,000	305,000	305,000	305,000
Contingency																					
Contingency	175,000	175,000	175,000	200,000	200,000	200,000	225,000	225,000	225,000	225,000	225,000	250,000	250,000	250,000	250,000	250,000	0	0	0	0	0
Contingency Total	175,000	175,000	175,000	200,000	200,000	200,000	225,000	225,000	225,000	225,000	225,000	250,000	250,000	250,000	250,000	250,000	0	0	0	0	0
Water Fund Total	1,770,389	4,037,153	2,601,474	4,262,595	3,603,104	3,423,999	3,900,447	3,666,523	3,813,700	4,199,700	4,213,931	3,584,431	3,290,431	3,372,431	2,631,931	2,760,431	2,084,431	2,121,431	2,250,431	2,143,431	2,209,431