#### NORTH SUMTER COUNTY UTILITY DEPENDENT DISTRICT (NSCUDD)

# North Sumter Utilities (NSU) - Water and Wastewater System The Villages Water Conservation Authority (VWCA) - Irrigation & Fire Protection System

Facility	Facility	Project Area	Recommended Work	Account	2022-23	2023-24	2024-25	2025-26	2026-27	5 Year Tota
-										
	NSU WWTP									
NSU Wastewater Plant	NSU WWTP	Headworks	Headworks - Odor Control Mechanical Rehab	633						C
	NSU WWTP	Headworks	Headworks - Bar Screen (Rehab or Replacement) and Auto Bypass	633		125,000	1,260,000			1,385,000
NSU Wastewater Plant	NSU WWTP	Oxidation Ditch	Anoxic Mixers (4) - Replacement	633	160,500					160,500
NSU Wastewater Plant	NSU WWTP	Oxidation Ditch	Aerator Gear Boxes (6) - Rebuilds	633			350,000			350,000
NSU Wastewater Plant	NSU WWTP	Oxidation Ditch	OD No. 1 & 2 - Grit Removal	462	240,000					240,000
NSU Wastewater Plant	NSU WWTP	Oxidation Ditch	Aerator Gear Box - Purchase Spare	633						(
NSU Wastewater Plant	NSU WWTP	Surge Tank	Surge Tank - Grit Removal	462	200,000					200,000
NSU Wastewater Plant	NSU WWTP	Surge Tank	Surge Tank - Cover Replacement	462			25,000	135,000		160,00
	NSU WWTP	Clarifiers	Clarifier - Clarifier No. 3 Construction	633	315,000	1,370,000	735,000			2,420,000
NSU Wastewater Plant	NSU WWTP	Clarifiers	Clarifier Gear Boxes (2) - Rebuild	633		60,000				60,000
	NSU WWTP	Clarifiers	Clarifier - Replace Scum Pumps (N-Series)	633	100,000					100,00
	NSU WWTP	RAS/WAS System	Replace RAS/WAS pumps (4)	633		100,000				100,000
	NSU WWTP	Traveling Bridge	Filter Sand Replacement	462		150,000				150,000
	NSU WWTP	Traveling Bridge	Filter Replacements	633				300,000	2,100,000	2,400,000
NSU Wastewater Plant	NSU WWTP	Chlorine Contact Chamber	CCC - Coating	462						
NSU Wastewater Plant	NSU WWTP	Reclaimed Water System	Inplant Reuse Pumps Replacement	462				60,000		60,000
	NSU WWTP	Effluent Holding Basins	Reject and Effluent Holding Basin - Re-Lining	633		200,000	1,000,000	,		1,200,000
	NSU WWTP	Sludge Holding Tanks	Digester Blower No's. 2, 3 & 4 Dist. Header Valve - Replace Butterfly Valve	633		12,222	,,			,,
	NSU WWTP	Sludge Holding Tanks	Sludge Holding - Expansion, Coating and Blowers	633	2,075,000					2,075,000
	NSU WWTP	Belt Filter Press	Belt Filter Press - Rehabilitation	633	_,,					
	NSU WWTP	Belt Filter Press	Belt Filter Press - Conveyor Rehab	633						(
	NSU WWTP	Belt Filter Press	Replace Lighting over Press	462						(
NSU Wastewater Plant	NSU WWTP	Belt Filter Press	Biosolids Disposal Evaluation	312			100,000			100,000
	NSU WWTP	Belt Filter Press	Spare PC Pump Motor	633			200,000			100,000
	NSU WWTP	In-Plant Pump Station	Inplant PS - Rehabiliation Improvements	633				50,000	200,000	250,000
NSU Wastewater Plant	NSU WWTP	Vac Truck Storage Building	Implante to the had made in improvements	555				30,000	200,000	(
NSU Wastewater Plant	NSU WWTP	RIBs	RIBS - Percolation Study	312				75,000		75,00
NSU Wastewater Plant	NSU WWTP	Plant Site	Parking Lot - Golf Ball Netting	633				35,000	135,000	170,000
1130 Wastewater Flanc	NSU WWTP	RIBs	Discharge Weir Plate	462	90.000			33,000	133,000	90,000
NSU Wastewater Plant	NSU WWTP	Plant Site	Install Industrial Shelving in Vactor Building	462	10.000	+		+		10,000
N30 Wastewater Flant	NSU WWTP	Electrical	Replace Surge Modules	462	10,000			50,000		50,000
	1430 WWIF	Liectrical	Replace Surge Modules	Subtotal	3,190,500	2,005,000	3,470,000	705,000	2,435,000	11,805,500
				Subtotal	3,230,300	2,003,000	3,470,000	703,000	2,433,000	11,003,300
	NSU Lift Stations & Collection									
	General Lift Stations	Pumps	Pump Replacements	462		50,000	60,000	70,000	70,000	250,000
	General Lift Stations	- Sampa	FOG Remediation	462	40,000	50,000	00,000	10,000	10,000	90,000
	General Lift Station		Misc Lift Station Repairs	633	10,000	30,000	55,000	55,000	65,000	205,000
NSU Lift Stations & Collection	Lift Station No 1	All components	Rehab Station (Mech, Pumps and Coating)	633	575,000	30,000	0	0	03,000	575,000
1130 Ent Stations & Concellon	Lift Station No 2	All components	Rehab Station (Mech, Pumps and Coating)	633	373,000		60,000	275,000		335,000
	Lift Station No 3	Air components	incliab station (week, i unips and coating)	033	+	+	00,000	273,000		333,000
	Lift Station No 4	+						+		
	Lift Station No 5	+						+		
	Lift Station No 6	+				+		+		
	Lift Station No 7	+			+	+		+		(
		+								
	Lift Station No 8							+		
	Lift Station No 9					+		+		
	Lift Station No 10									
	Lift Station No 11	+						-		
	Lift Station No 12									

Facility	Facility	Project Area	Recommended Work		Account	2022-23	2023-24	2024-25	2025-26	2026-27	5 Year Tota
	Lift Station No 13										0
	Lift Station No 14										0
	Lift Station No 15	Piping, Valves and Appurt.	LS 15 - Replace Valves and Appurtenances		633						0
	Lift Station No 16										0
	Lift Station No 17	Pumps and Electrical	LS 17- Replace Pumps and Electrical Cabinet		633	225,000					225,000
	Lift Station No 18										0
	Lift Station No 19										0
	Lift Station No 20										0
	Lift Station No 21										0
	Lift Station No 22										0
	Lift Station No 23										0
	Lift Station No 24										0
	Lift Station No 25										0
	Lift Station No 26										0
	Lift Station No 27										0
	Lift Station No 28										0
	Collection System	Gravity Sewer	Desktop - I & I Study		319			300,000			300,000
	Collection System	Gravity Sewer	Collection System Inspection		319				350,000		350,000
	Collection System	Gravity Sewer	Collection System Repair		633						0
				Subtotal		840,000	130,000	475,000	750,000	135,000	2,330,000
NGU B . I I W . G .	NSU Potable Water System					75.000	75.000	75.000	75.000	50.000	252.000
NSU Potable Water System	General - Water		Valve Replacement Program		633	75,000	75,000	75,000	75,000	50,000	350,000
	General - Water	Distribution Contains	Chapman Loop		633	50,000	40,000				40,000
	General - Water	Distribution System	Addition of Blow offs		633	50,000	50,000				100,000
	General - Water	Distribution System	Interconnect Rehab (to VCSA and Bob Evans-manual)		633	50,000	125,000				175,000
	WTP 1	Disinfection System	Chlorine Gas Auto Shut Off Valves		633 633	25,000 85,000	75,000				100,000
	WTP 1	Elevated Storage Tank	Grounding/Lightning Protection								85,000
	WTP 2	Sulfuric Acid System Clear Well	Acid Injection Pipe Repair		633 319	250,000	20,000				250,000 20,000
NSU Potable Water System	WTP 2	Biofilter	Structural Inspection		462		20,000	60,000	200,000		260,000
NSO Potable Water System	WTP 2	Biofilter	Cover Replacement Coat Sump Area		462		75,000	60,000	200,000		75,000
	WTP 2	Biofilter	Replace Cover Sealing		462	10,000	73,000				10,000
	WTP 2	Stripping Tower	Install Ladder		633	10,000	150,000				150,000
NSU Potable Water System	WTP 2	Site	Driveway Repavement		462		130,000	120,000			120,000
N30 Fotable Water System	WTP 2	Disinfection System	Chlorine Gas Auto Shut Off Valves		633	25,000	75,000	120,000			100,000
	WTP 2	Ground Storage Tank	Replace Exterior Level Gauge		462	25,000	75,000				100,000
	WTP 2	Elevated Storage Tank	Grounding/Lightning Protection		633	85,000					85,000
	WTP 2	Iron Filtration	Install Iron Filtration		633	03,000		150,000	300,000	1,500,000	1,950,000
	WTP 3	Wells No. 5	Replace Discharge Valve		462			130,000	300,000	2,500,000	0
	WTP 3	Sulfuric Acid System	Acid Injection Pipe Repair		633	250,000					250,000
	WTP 3	Clear Well	Structural Inspection		319	,	20,000				20,000
	WTP 3	Stripping Tower	Install Ladder		633		150,000				150,000
NSU Potable Water System	WTP 3	Biofilter	Cover Replacement		462		,	60,000	200,000		260,000
·	WTP 3	Biofilter	Coat Sump Area		633		75,000	, -			75,000
	WTP 3	Biofilter	Replace Cover Sealing		462	10,000	-,				10,000
	WTP 3	Disinfection System	Chlorine Gas Auto Shut Off Valves		633	25,000	75,000				100,000
	WTP 3	Ground Storage Tank	Replace Exterior Level Gauge		462	,	,				0
		<u> </u>	, , , , , , , , , , , , , , , , , , ,	Subtotal		940,000	1,005,000	465,000	775,000	1,550,000	4,735,000
	VWCA Irrigation Pump Stations										,
	General - Irrigation/Fire System	Irr/Fire Distribution System	Hydrant Replacements		462	50,000	51,000	51,000	51,000	51,000	254,000
VWCA Irrigation Pump Stations	General - Irrigation/Fire System	Irr/Fire Distribution System	Valve Replacement Program		633	75,000	76,500	76,500	76,500	51,000	355,500
VWCA Irrigation Pump Stations	General - Irrigation/Fire System	Irr/Fire Distribution System	Main Line Valves - Locking Lids		633						0
	General - Irrigation/Fire System	Irr/Fire Distribution System	Bleed Down Valve Replacements (10/yr)		633	150,000	153,000	153,000	153,000		609,000

Facility	Facility	Project Area	Recommended Work		Account	2022-23	2023-24	2024-25	2025-26	2026-27	5 Year Total
i usini,	General - Irrigation/Fire System	Irr/Fire Distribution System	Pump Rebuild/Replacement Program		462	100,000	102,000	102,000	102,000	102,000	508,000
	General - Irrigation/Fire System	Irr/Fire Distribution System	Unidirectional Flushing		349	370,000					370,000
	General - Irrigation/Fire System	Irr/Fire Distribution System	Interconnect Meters (2)		462	80,000					80,000
	General - Irrigation/Fire System	Stations	Chlorine System Rehab (2/yr)		633	30,000	130,000	130,000	130,000	130,000	550,000
	General - Irrigation/Fire System	Storage	Storage Shelves		462	5,000	,	,			5,000
	General - Irrigation/Fire System	-	Retrofit Roof Hatches		462	75,000	65,000	65,000			205,000
	TS D44-1		Stormwater TS Remote Capabilities (SCADA)		633			25,000			25,000
VWCA Irrigation Pump Stations	Station 1	Piping, Valves and Appurt.	Bypass Piping & Valves - Installation		633						0
VWCA Irrigation Pump Stations	Station 1	Well	Well & Motor - Rebuild		633						0
	Station 1	High Service Pumps	Repair and Coat Metal Skid Beams		633	220,000					220,000
VWCA Irrigation Pump Stations	Station 2	Piping, Valves and Appurt.	Bypass Piping & Valves - Installation		633						0
	Station 2	High Service Pumps	Repair and Coat Metal Skid Beams		633						0
	Station 3	Piping, Valves and Appurt.	HSP No. 1 - Replace Check Valve		462						0
	Station 3	Well	Remote Well Motor - Rebuild Motor		462						0
	Station 3	Site	Repair Site Flooding		462	75,000					75,000
	Station 3	Piping, Valves and Appurt.	Distribution Flow Meter - Replace		462						0
	Station 4	Wet Well	Wet Well - Coating		462				100,000		100,000
	Station 4	Well	Well Pump - Rebuild Pump		462						0
	Station 4	Site	Replace Generator Enclosure		462			172,500			172,500
	Station 7	Piping, Valves and Appurt.	PRV Isolation Valve - Replace		462						0
	Station 8	High Service Pumps	Pump No. 3 - Rebuild Pump		462						0
	Station 8	Piping, Valves and Appurt.	Amiad Filter No. 3 Check Valve - Replacement		462						0
	Station 8	Piping, Valves and Appurt.	Discharge to Lake Screen - Replace Isolation Valve		462						0
	Station 9										0
	Station 10	High Service Pumps	Balance Well Pump Wobble		462	2,500					2,500
	NSU/CSU Plant Site	Site	Parking Lot - Design and Construction		633						0
				Subtotal		1,232,500	577,500	775,000	612,500	334,000	3,531,500
	Metering System										
Meter Change Out Program	Residential Potable	Distribution System	Meter Repairs, 3% replacement of 23,372 meters		526	180,000	180,000	180,000			540,000
Meter Change Out Program	Residential Irrigation	Irr/Fire Distribution System	Meter Repairs, 3% replacement of 23,356 meters		526	150,000	150,000	150,000			450,000
Meter Change Out Program	Commercial Potable	Distribution System	Meter Repairs, 3% replacement of 427 meters		526	10,000	10,000	10,000			30,000
Meter Change Out Program	Commercial Irrigation	Irr/Fire Distribution System	Meter Repairs, 3% replacement of 679 meters		526	10,000	10,000	10,000			30,000
Meter Change Out Program	Metering System - NSU	Distribution System	Implementation of AMI Meters		633	0	4,137,000	4,137,000	0		8,274,000
Meter Change Out Program	Metering System - VWCA	Distribution System	Implementation of AMI Meters		633	0	4,179,000	4,179,000	0		8,358,000
				Subtotal		350,000	8,666,000	8,666,000	0	0	17,682,000
					1						
	NSU General							_			
	General - Potable/Wastewater		VFD Program		633	75,000	0	0	0	0	75,000
	General - Potable/Wastewater		PLC Program		633	75,000	250,000	100,000	250,000	0	675,000
VWCA Irrigation Pump Stations	General - Irrigation/Fire System		VFD Program		633	75,000	0	0	0	0	75,000
VWCA Irrigation Pump Stations	General - Irrigation/Fire System		PLC Program		633	75,000	312,500	100,000	250,000	0	737,500
NSU General	SCADA System		SCADA Security & Upgrade		633	103,250	446,250	71,500	104,000	0	725,000
NGU Caranal	SCADA System		VT SCADA		633	259,500	0	0	0	0	259,500
NSU General	Maintenance System		AWIA Compliance (Key Door Access)		462	50,000	50,000	0	0	0	100,000
NSU General	Utility Standards		Development of Standards/Front Ends	Cultural	319	0	0	0	0	0	2 647 000
	Com	shinad Cubbatal with antiface an amin		Subtotal		712,750	1,058,750	271,500	604,000	4 454 000	2,647,000
		nbined Subtotal without fees or equip	ment			7,265,750	13,442,250	14,122,500	3,446,500	4,454,000	42,731,000
	NSU Engineering Fees and Equipme	:::L	Engineering Services - Arnett		312	250,000	300,000	310,000	330,000	350,000	1,540,000
	Engineering Services						-				
	Capital Plan Engineering		Capital Plan Engineering (Arnett) Engineering Services - Other		312	290,000	540,000	560,000	90,000	110,000	1,590,000
	Engineering Services				312	35,000 0	35,000	35,000	40,000	40,000	185,000
	Vehicles		Vermeer Trailer		641		175,000	0		0	175,000
	Vehicles		Replace Vac Trucks (2)	Cultatal	641	0 575 000	500,000	0	600,000	0	1,100,000
				Subtotal		575,000	1,550,000	905,000	1,060,000	500,000	4,590,000

Facility	Facility	Project Area	Recommended Work	Account	2022-23	2023-24	2024-25	2025-26	2026-27	5 Year Total
			Grand Tota		7,840,750	14,992,250	15,027,500	4,506,500	4,954,000	47,321,000
			Engineering Services	312	575,000	875,000	1,005,000	535,000	500,000	3,490,000
			Other Professional Services	319	0	40,000	300,000	350,000	0	690,000
			Misc. Contractual Services	349	370,000	0	0	0	0	370,000
			Building/Structure Maintenance	462	1,037,500	593,000	715,500	968,000	223,000	3,537,000
			Meter Repairs	526	350,000	350,000	350,000	0		1,050,000
			Buildings	622	0	0	0	0	0	0
			Infrastructure	633	5,508,250	12,459,250	12,657,000	2,053,500	4,231,000	36,909,000
			Vehicles	641	0	675,000	0	600,000	0	1,275,000
			Capital FF&E	642	0	0	0	0	0	0
			Grand Tota		7,840,750	14,992,250	15,027,500	4,506,500	4,954,000	47,321,000