

APPENDIX B: ABBREVIATIONS

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LIST OF ABBREVIATIONS

AA	average annual	District	Napa Sanitation District
ACCWD	American Canyon County Water District	DO	dissolved oxygen
ADW	average dry weather	EIR	Environmental Impact Report
ADWF	average dry weather flow	EPS	effluent pump station
ADWL	average dry weather load	EDU	equivalent single family dwelling unit
ADWMM	average dry weather maximum month	ENR CCI	ENR construction cost index
AF	acre-feet	FAQs	frequently asked questions
AMEL	average monthly effluent limitation	FOG	fats, oils and grease
AWWMM	average wet weather maximum month	GHG	greenhouse gas
Basin Plan	Water Quality Control Plan	gpd	gallons per day
BCE	Business Case Evaluation	gpd/sf	gallons per day per square foot
BFP	belt filter press	gpm	gallons per minute
Board	District Board	gpm/sf	gallons per minute per square foot
BOD	biochemical oxygen demand	H1	High Ammonia Alternative 1
CBOD	carbonaceous biochemical oxygen demand	H2	High Ammonia Alternative 2
CCBs	chlorine contact basins	H3	High Ammonia Alternative 3
CEC	chemicals of emerging concern	hp	horsepower
CEQA	California Environment Quality Act	HRT	hydraulic retention time
CEPT	Chemically Enhanced Primary Treatment	HVAC	Heating/Ventilation/Air Conditioning
CIP	Capital Improvement Program	I/I	infiltration and inflow
City	City of Napa	I/O	input/output
COD	Chemical oxygen demand	IFAS	integrated fixed-film activated sludge
COD	carbonaceous oxygen demand	IPS	influent pump station
CSMP	Collection System Master Plan	L1	Low Ammonia Alternative 1
DAFT	dissolved air flotation thickener	L2	Low Ammonia Alternative 2
		L3	Low Ammonia Alternative 3
		lb	pounds
		lb TSS/sf/day	pounds of total suspended solids per square foot per day

lb VS/cf/day	pounds of volatile solids per cubic foot per day	RAS	return activated sludge
lb/day	pounds per day	RW	recycled water
LOS	level of service	RWQCB	Regional Water Quality Control Board
MBR	membrane bioreactor	S1	Solids Handling Alternative 1
MCC	motor control center	S2	Solids Handling Alternative 2
MD	maximum day	S3	Solids Handling Alternative 3
MDEL	maximum daily effluent limitation	SCADA	Supervisory Control and Data Acquisition
MG	million gallons	SEPS	secondary effluent pump station
mg/L	milligrams per liter	sf	square foot
mgd	million gallons per day	SFRWQCB	Regional Water Quality Control Board, San Francisco Bay Region
mL	milliliter	SRT	solids residence time
mL/g	milliliter per gram	SVI	sludge volume index
MLSS	mixed liquor suspended solids	SWRCB	State Water Resources Control Board
MPN	most probable number		
MW	maximum week		
NH ₃ -N	ammonia as nitrogen	TM	Technical Memorandum
NPDES	National Pollutant Discharge Elimination System	TSS	total suspended solids
NPV	net present value	TWAS	thickened waste activated sludge
NTFs	nitrifying trickling filters		
NTU	Nephelometric turbidity units	USEPA	United States Environmental Protection Agency
O&M	Operation and Maintenance		
Oakely	Oakley Water Strategies	VFD	variable frequency drives
P4PS	Pond 4 Pump Station	VSLR	volatile solids loading rate
PC	progressing cavity	VSR	volatile solids reduction
PDWF	peak dry weather flow	WAS	waste activated sludge
PHWWF	peak hour wet weather flow	WQBEL	water-quality-based effluent limitation
Plan	Master Plan	WWTP	Wastewater Treatment Plant
PLC	programmable logic controller		
ppd	pounds per day	µg/L	micrograms per liter
PWWF	peak wet weather flow		