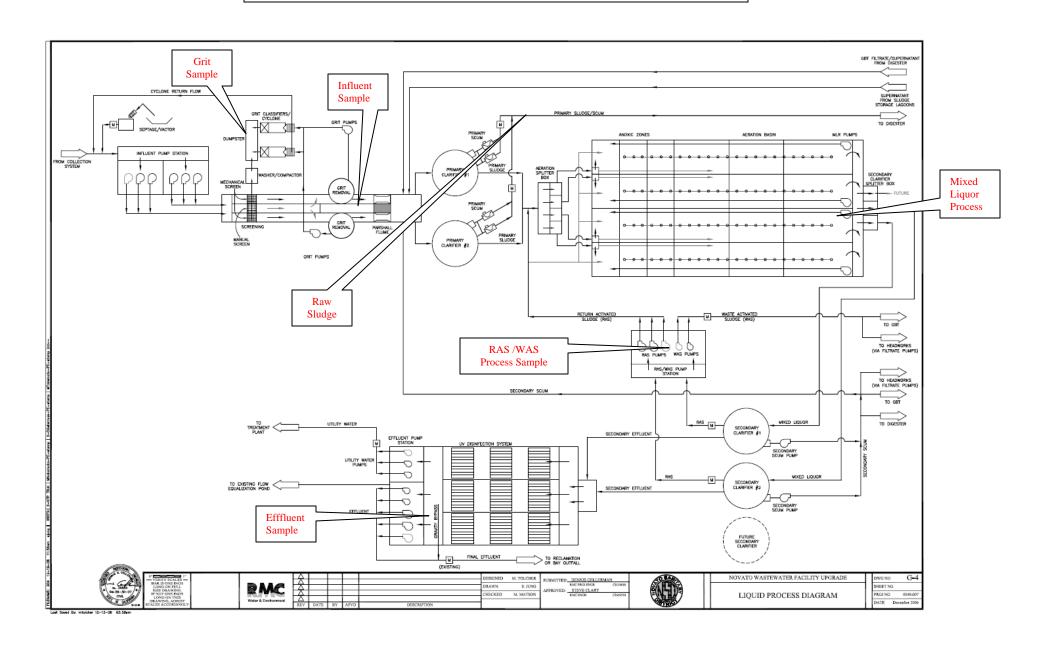


	Design Criteria	Value	Units	Design Criteria	Value	Units	Design Criteria	Value	Units	Design Criteria	Value	Units
	Design Year	2025		Primary Treatment			RAS Pumps			High Pressure Washwater Pumps		
	Average Dry Weather Flow (ADWF)		MGD	Primary Sedimentation Basins	a		Туре	Submersible		Type	In-Line Multi-	-
	Average Annual Flow (AAF) Average Wet Weather Flow (AWWF	7.8 10.3	MGD MGD	Type Number of Basins	Circular		Number (installed/standby) Capacity (each)	3/1 5	MGD	Number (Installed/Standby) Capacity (each)	2/1 60	GPM
	Peak Week	17.7	MGD	Design Overflow Rate	2		TDH	14	Feet	Inlet Pressure	60	psi
	Peak Wet Weather Flow, Max Day (I		MGD	@ ADWF (7 mgd)	< 800	gpd/sf	Motor Size	35	HP	Required Discharge Pressure	105	psi
	Normal Peak 3-Hour Flow	34.6	MGD	@ Peak 3-Hour (47 mgd)	< 3,000	gpd/sf				Motor Size	2	ĤР
	Max Peak 3-Hour Flow	47.0	MGD	Diameter (each basin)	100	feet	Secondary Scum Pumps	a	~ <b>.</b>			
	Average BOD Loading Average TSS Loading	14,600 17,600	lbs/day lbs/day	Side Water Depth	12	feet	Type Number (installed/shelf spare)	Submersible 0 2/1	* *	Polymer Delivery System Polymer Type	Emulsion	
	Average 133 Loading	17,000	ios/day	Primary Sludge/Scum Pumps			Capacity	150	gpm	Number (Installed/Standby)	2/1	
	Headworks			Type	Progressive C	avity	TDH	36	Feet	Dose, active polymer	8	lbs/ton
	Influent Pump Station			Number (installed/standby)	4/0		Motor Size	7.5	HP	Polymer Use (Peak Month)	129	lbs/day
	Type	Non-Clog S		Capacity (each)	125	gpm	W. I. G. D.			Polymer Flow	1.31	GPH
	Number (installed/standby) Capacity (each)	6/1 9.4	MGD	T DH Motor Size	39 15	Feet HP	WAS Pumps Type	Non-Clog Su	hmarcibla	Polymer Storage (30-day @ Peak Me	Month) 470	gallons
	TDH	42.2	feet	*Scum pumps will be used as back-up			Number (installed/standby)	2/1		GBT Filtrate Pumps		
	Motor Size	125	HP	Transfer and the same of	2		Capacity (each)	400	GPM	Type	Non-Clog Subn	nersible
				Secondary Treatment			TDH	19	Feet	Number (Installed/Standby)	2/1	
	Septage Receiving Station Number	1		Nitrification Operation MLSS	2,500 - 3,000	/1	Motor Size	5	HP	Capacity (each) TDH	345 39.1	GPM feet
	Number Grinder Motor Size	5	HP	Mean cell residence time	2,300 - 3,000 8 to 9	mg/l days	UV Disinfection			Motor Size	7.5	HP
	Auger Motor Size	2	HP	RAS capacity	3-10	mgd	Enterococci Limits			Motor Size	7.3	***
	Ç			Carbonaceous Operation			Peak Day Wet Weather (31 MGD)	35	MPN/100 ml	Thickened WAS Pumps		
	Mechanical Screens			MLSS	1100 - 1300	٠ ا	Peak 3-Hour (47 mgd)	276	MPN/100 ml	Number (Installed/Standby)	2/1	
	Type Number	Filter Scree	n 	Mean cell residence time	2.5 - 3 2.5-5	days MGD	Design UV Transmittance Dose	0.55 35	mJ/cm <sup>2</sup>	Type Capacity (each)	Progressive Ca 40	avity GPM
	Number Width	4.5	feet	RAS capacity	2.3-3	MOD	Number of Channels	35	mJ/cm²	Capacity (eacn) TDH	25	feet
	Openings	15	mm	Aeration Basins			Channel Width	74	Inches	Motor Size	3	HP
	. 0			Number of Basins	4	ea	Channel Length	33	Feet			
	Manual Screens	-		Volume, each basin	115,300	ft³	Channel Side Water Depth	62	Inches	Anaerobic Digestion	_	
	Type Number	Bar		Side Water Depth Anoxic Zones Volume per Basin	23 27,600	ft ft³	UV Channel Air Blower			Number of Digesters (1 Existing) Volume (each)	2 571,000	gallons
	Width	3.5	feet	Anoxic Zones volume per Basin	27,000	11	Type	Positive Dis	placement	Diameter	60	feet
	Openings	1	inch	Aeration Blowers			Number	1		Side Water Depth	27	feet
				Type, Duty	Single-Stage C	٠ ا	Capacity	150	SCFM	Volatile Solids Destruction	50	%
	Screenings Conveyor	Shaftless So		Type, Standby	Multi-Stage C	entrifugal	TDH	6.5 7.5	PSI	Design Temperature	98 9	deg. F
	Type Number	Snartiess Sc	rew 	Number (Installed/Standby) Capacity (Duty/Standby, each)	3/1 4,500/4,000	scfm	Motor Size	7.3	HP	Digester Mixing, turnovers	9	per day
	Size	14	inch	Motor Size	250	HP	Effluent Pumping			Digester Mixing		
							Dry Weather			Number (Installed/shelf spare)	1/1	
	Screenings Washers/Compactors			Mixed Liquor Recycle Pumps	G 1 11 D		Type	Vertical Colu		Pump Type	Horizontal Cho	* *
	Number Compactor Motor Size	3	 HP	Type Number (installed/standby)	Submersible P 4/0	. r	Number (installed/standby) Capacity (each)	2/1 11	MGD	Capacity (each) TDH	3,600 16.7	gpm feet
¥	Grinder Motor Size	10	HP	Capacity (each)	3.5	MGD	TDH	22	Feet	Motor Size	30	HP
<u>م</u>	Gillati Hatta Bile	10		TDH	1	Feet	Motor Size	60	HP	Nation Bills	50	
-stc	Grit Chamber			Motor Size	2.5	HP	Wet Weather			Digester Recirculation Pumps		
9- - O:	Type	Vortex		Color ancilla Minana			Type	Vertical Turk		Number (Installed/Standby)	2/1	1
emot	Number Diameter	2 16	feet	Submersible Mixers Type	Submersible		Number (installed/standby) Capacity (each) NIC	3/1 23.5	MGD	Pump Type Capacity (each)	Screw Centrifu 200	igai gpm
ΜΤα	Capacity (each)	23.5	MGD	Number (installed/standby)	12/0		TDH	<del>57</del>	Feet	TDH	14.5	feet
<u>و</u>	Motor Size	3	HP	Motor Size	2.5	HP	Motor Size	<del>300</del>	HP	Motor Size	5	HP
-stan												
뇸	Grit Pumps Type	Recessed In	nallar	Secondary Drainage Pump	Submersible		Utility Water Pumps	Vertical Turl	hine	<u>Digested Sludge Pumps</u> Number (Installed/Standby)	2/1	
rwan	Type Number (installed/standby)	Recessed In	ibenei	Type Number (installed/standby)	Submersible 1/0		Type Number (installed/standby)	3/1	DILLE	Pump Type	Progressive ca	vit v
Gelle	Capacity (each)	300	GPM	Capacity	1800	GPM	Capacity (each)	750	gpm	Capacity (each)	95	gpm
×	TDH	29	feet	TDH	27	Feet	TDH	200	Feet	TDH	344	feet
ē.	Motor size	7.5	HP	Motor Size	20	HP	Motor Size	60	HP	Motor Size	20	HP
-sto	Grit Cyclones			ML Channel Air Blower			Solids (WAS) Thickening					
9-P	Type	Centrifugal		Type	Positive Disp	lacement	Gravity Belt Thickeners			Ferric Chloride Pumps		
amot	Number	2		Number	1/0		Number (Installed/Standby)	2/1		Number (Installed/Standby)	2/0	
MNak	Capacity (each)	200	CDM	Capacity	450	SCFM	Belt width	1 2	meter	Pump Type	Peristaltic	anh
×	Inlet Under flow	300 16	GPM GPM	TDH Motor Size	3.5 10	PSI HP	Belt Drive Motor Size Hours of Operation (Nitrification)	10	HP hours/day	Capacity (each)	15	gph
題	Chief How	10	OI W	NIOTOT BIZE	10	***	Hours of Operation (Carbonaceous)	16	hours/day	Hypochlorite Pumps		
ž Z	Grit Classifier			Secondary Clarifiers			Maximum Solids Loading Rate	700	lbs/hr/meter	Number (Installed/Standby)	3/1	one existing
×   ×	Type	Screw Conv	eyor	Solids Flux Rate			Maximum Hydraulic Loading Rate	200	gpm/meter	Pump Type	Diaphragm	
XREF	Number	2		Average Dry Weather Flow	8.25	lbs/ft²/d	Solids Capture	95	%	Capacity (new, each)	12.0	gph
=	Size Motor Size	12	inches	Type	Circular		Thickened WAS Solids Concentration	5	%	Capacity (existing, each)	77	gph
sjunč	Motor Size	2	HP	Number of Clarifiers Design Overflow Rate	2					Motor Size	0.5	HP
Ę	Influent Metering			@ ADWF (7 MGD, 2 Basins)	407	gpd/ft <sup>2</sup>						
1:22	Parshall Flumes			@ Max Peak 3-Hour (47 mgd)	2,320	gpd/ft <sup>2</sup>						
0	Number	2		Diameter (each clarifier)	125	ft						
19-0	Throat Width	30	inches	Side Water Depth	16	ft						
12-	0"		$\triangle \perp \perp$			GIGNED M. TOLO	HER	(SA)	<del>,                                    </del>	NOVATO WASTEWATER FACILITY	Y UPGRADE T	DWG NO G-6
909	VERIFY SCALES — BAR IS ONE INCH LONG ON FULL		A			AWN S. J	UNG RMC PROJ ENGR CE-34684			whole which the left is	- 31 31 d l D L	SHEET NO
YME:	Long On Full SIZE DRAWING Exp. 09-30-07 (F) FOOT ONE INCH	RMC				ECKED M. MAT	APPROVED: STEVE CLARY	(2(N51)	)戌	DESIGN CRITERIA	Δ	PROJ NO 0049-007
ILEN/	LONG ON THIS DRAWING, ADJUST	Water & Environment	□ DATE	DV ANVD		Avar avail kil			<i>!</i> /	DESIGN CRITERIA	7	DATE December 2006
14	12-13-06 SCALES ACCORDINGLY		REV DATE	BY APVD DESCRIPTION				V HIV				

## LIQUID STREAM & SOLIDS SAMPLE LOCATIONS



## SOLIDS STREAM SAMPLE LOCATIONS

