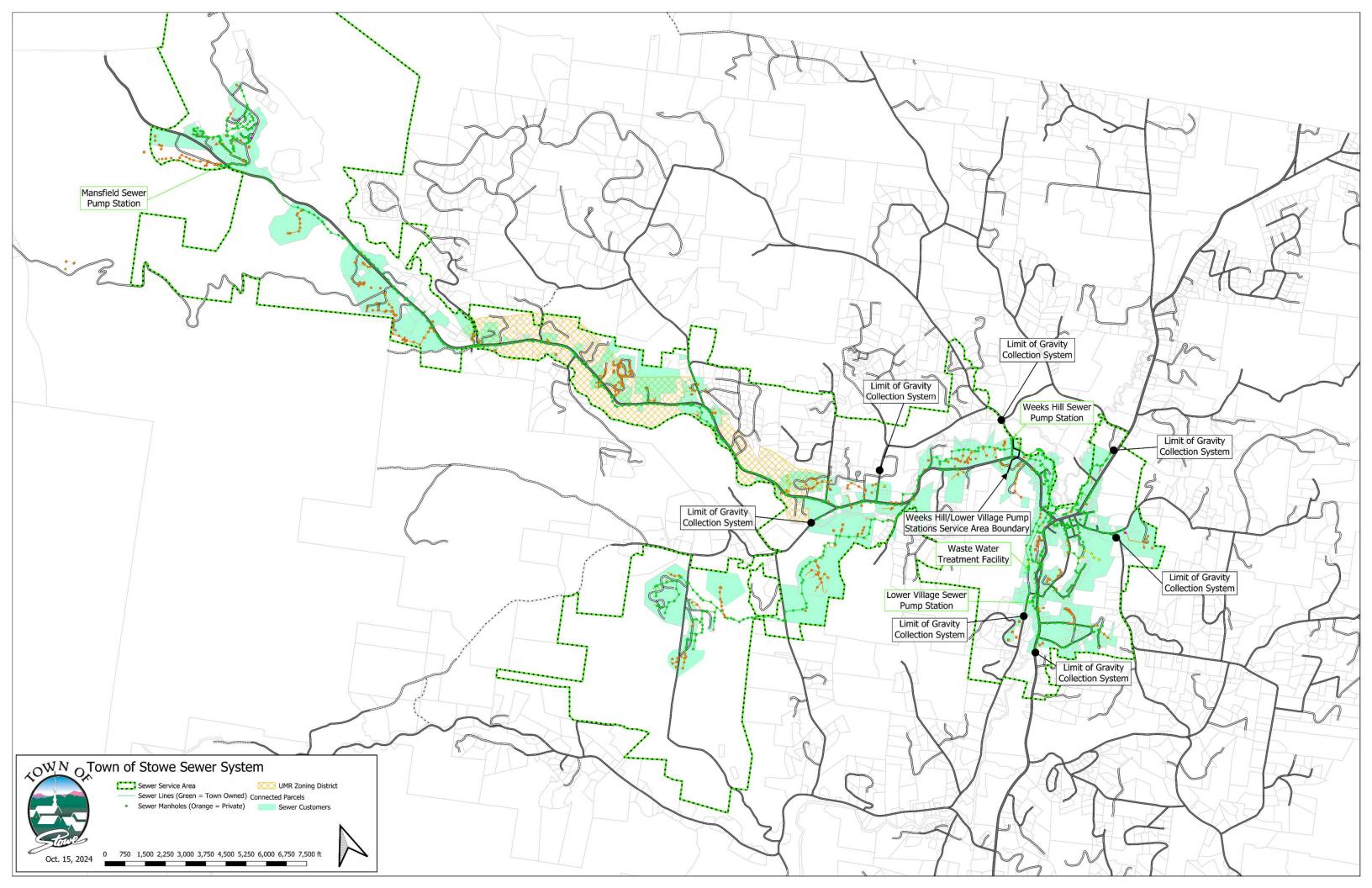
Stowe Water & Sewer Systems & Capacities

October 16, 2024





VERMONT WASTEWATER PERMIT PROGRAM

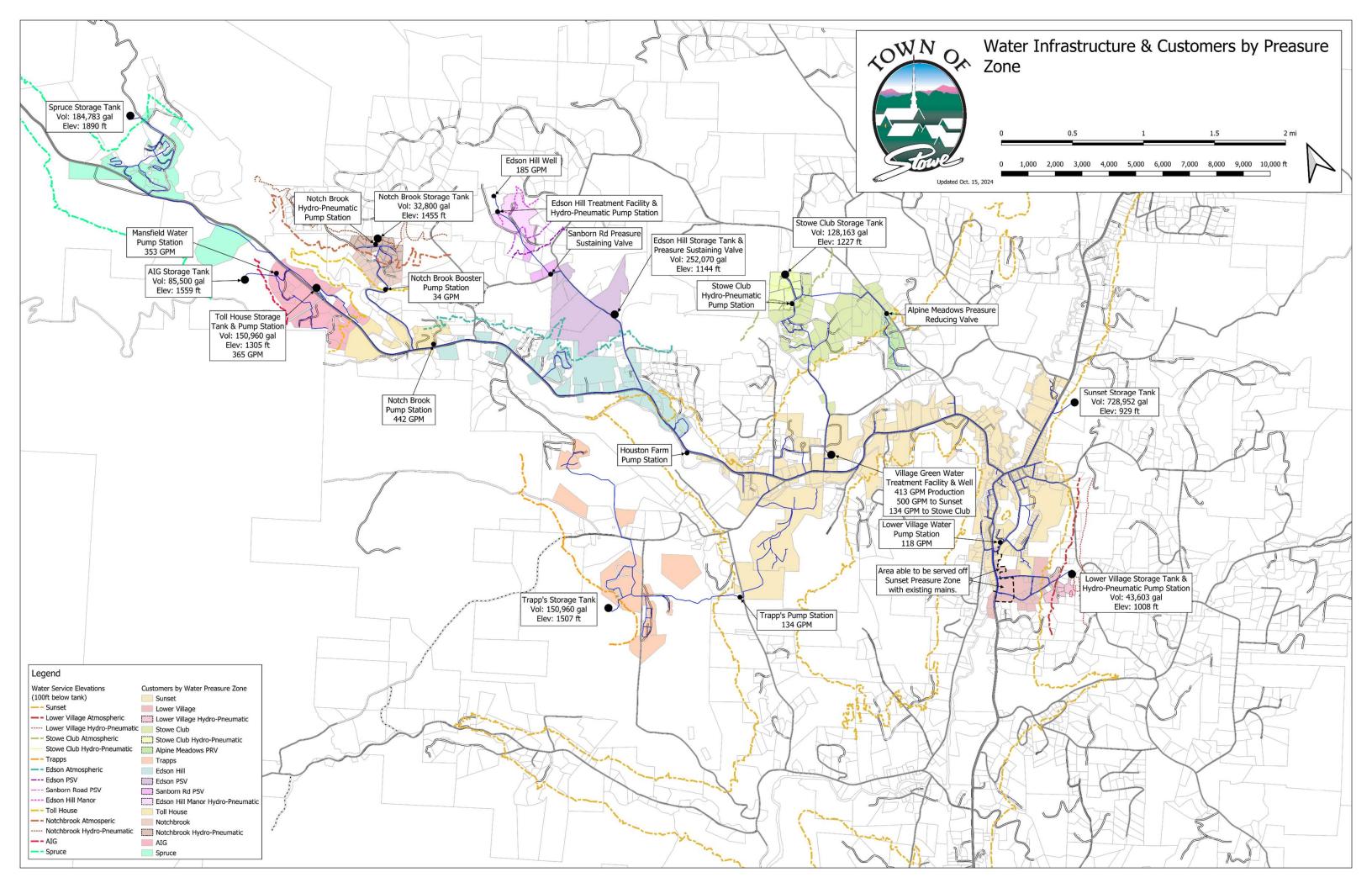
PERMIT MONITORING INFORMATION FOUR BASIN SBR FACILITY

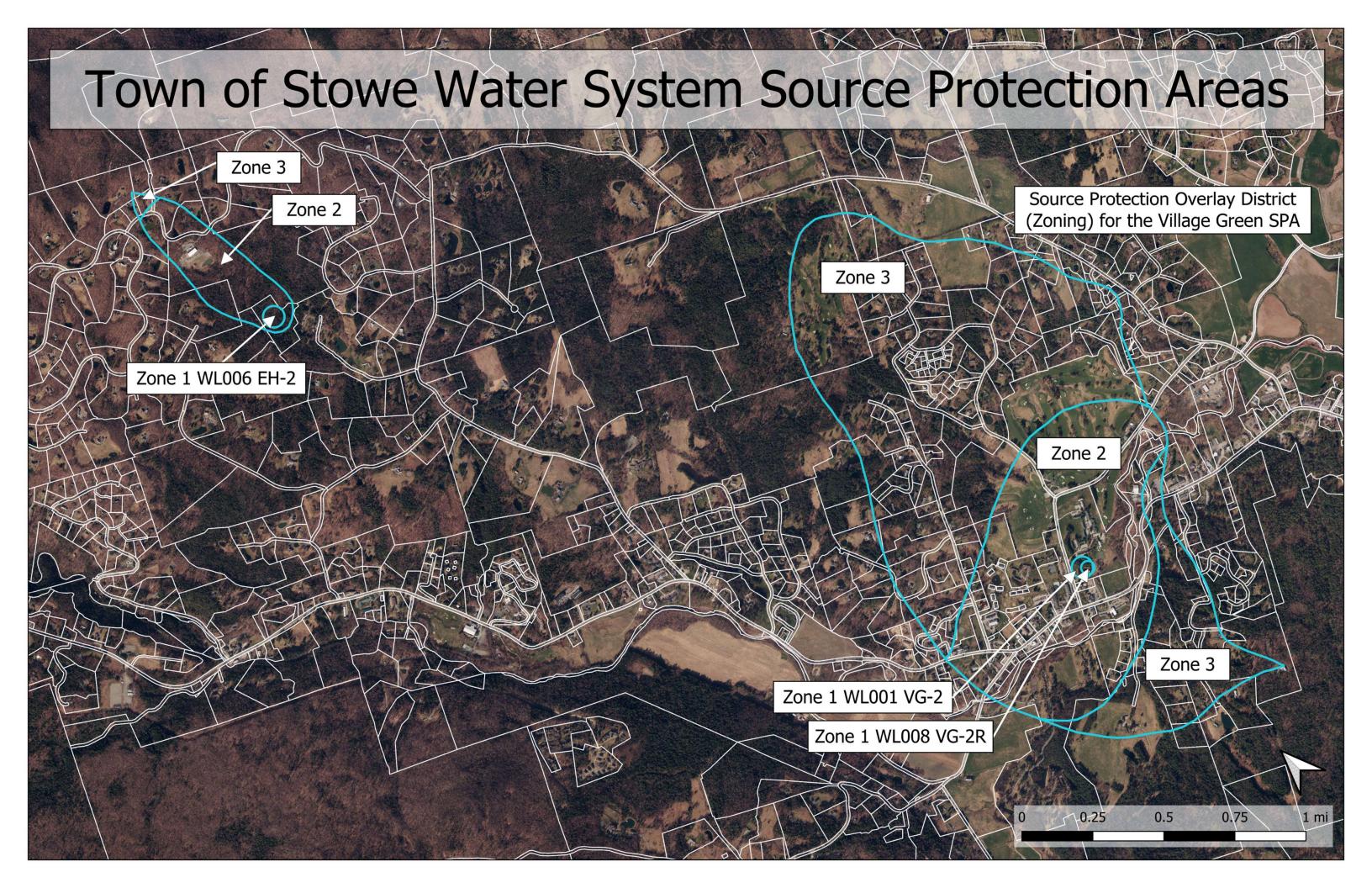
	INFLU	UENT												EFFLU	JENT										,
	BOD	TSS	B	DD	T	SS	TH	KN	UOD	То	tal	To	tal	То	otal	N	Ox	To	tal	E-Coli	Settleable	pH	Turbidity	UV	Total
										Phosp	horus	Amm	onia	Nitro	ogen			Cop	oper		Solids			Intensity	Daily
DATE																				#/				21	Flow
	mg/L	mg/L	mg/L	lbs	mg/L	lbs	mg/L	lbs	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	mg/L	lbs	100 ml	ml/L	su	ntu	%	mgd
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
1																					0.0	7.05	0.15	100	
2																					0.0	7.14	0.12	100	_
3	190	222	1.30	3.77	1.00	2.90	0.60	1.74	13.4	0.18	0.52	0.10	0.29	3.80	11.03	3.20	9.29	0.003	0.007	1	0.0	7.15	0.12	100	0.348
4																					0.0	7.04	0.14		_
5																					0.0	7.01	0.14	100	0.378
6																					0.0	6.96	0.16		0.491
7																					0.0	6.94	0.16	100	
8																					0.0	7.07	0.17	100	
9																					0.0	7.06	0.13		0.335
10																					0.0	7.06	0.13	100	0.421
11	130	180	1.30	8.68	1.00	6.68	0.80	5.34	36.8	0.24	1.60	0.22	1.47	3.90	26.05	3.10	20.71	0.003	0.019	1	0.0	7.11	0.23	100	
12																					0.0	7.04	0.13	100	0.542
13																					0.0	6.90	0.11	100	0.558
14																					0.0	7.01	0.12	100	0.427
15																					0.0	7.02	0.12	100	0.462
16																					0.0	7.05	0.12	100	
17																					0.0	7.02	0.12	100	
18	220	172	1.20	4.41	1.00	3.68	0.70	2.57	18.1	0.17	0.63	0.10	0.37	3.70	13.61	3.00	11.03	0.002	0.008	1	0.0	7.01	0.13	100	0.441
19																					0.0	7.03	0.12	100	0.398
20																					0.0	7.02	0.13	100	0.419
21					 																0.0	7.00	0.12	100	0.350
22																					0.0	7.09	0.15		
23					 																0.0	7.14	0.16	100	0.369
24 25	210	200	E 20	46.42	1.00	3.04	0.70	2.42	22.0	0.24	0.72	0.50	1.50	4.40	12.48	2.40	10.25	0.002	0.000	4	0.0	7.13	0.14	100	_
25	210	206	5.30	16.13	1.00	3.04	0.70	2.13	32.8	0.24	0.73	0.50	1.52	4.10	12.40	3.40	10.35	0.003	0.009	1	0.0	7.05	0.16	100 100	0.365
20				-																					0.383
28																					0.0	7.04	0.13		0.378
29																						7.18			
30					<u> </u>																0.0		0.12		
31																						7.04			
Total	750	780	9.10	33.00	4.00	16.30	2.80	11.79	101.1	0.83	3.48	0.92	3 65	15 50	63.17	12 70	51.38	0.010	0.042	4	0.0	1.02	4.30		12.456
									_				_				_			4					
Ave.	188					4.08		2.95		0.21	0.87	0.23	0.91		15.79			0.003		1		7.46	0.14		
Max.	220					6.68		5.34	36.8	0.24			_			3.40		0.003		1		7.18	0.23		
Min.	130					2.90	0.60			0.17						3.00	9.29	0.002	0.007	1		6.90	0.11	100	0.313
Avera	ge % Re				99.5%				UOD lbs	= (Effluent	BOD lbs	x 1.43) +	(Effluent	IKN IDS X	4.57)										

WR-43-3 Computer Form Revised 10092009

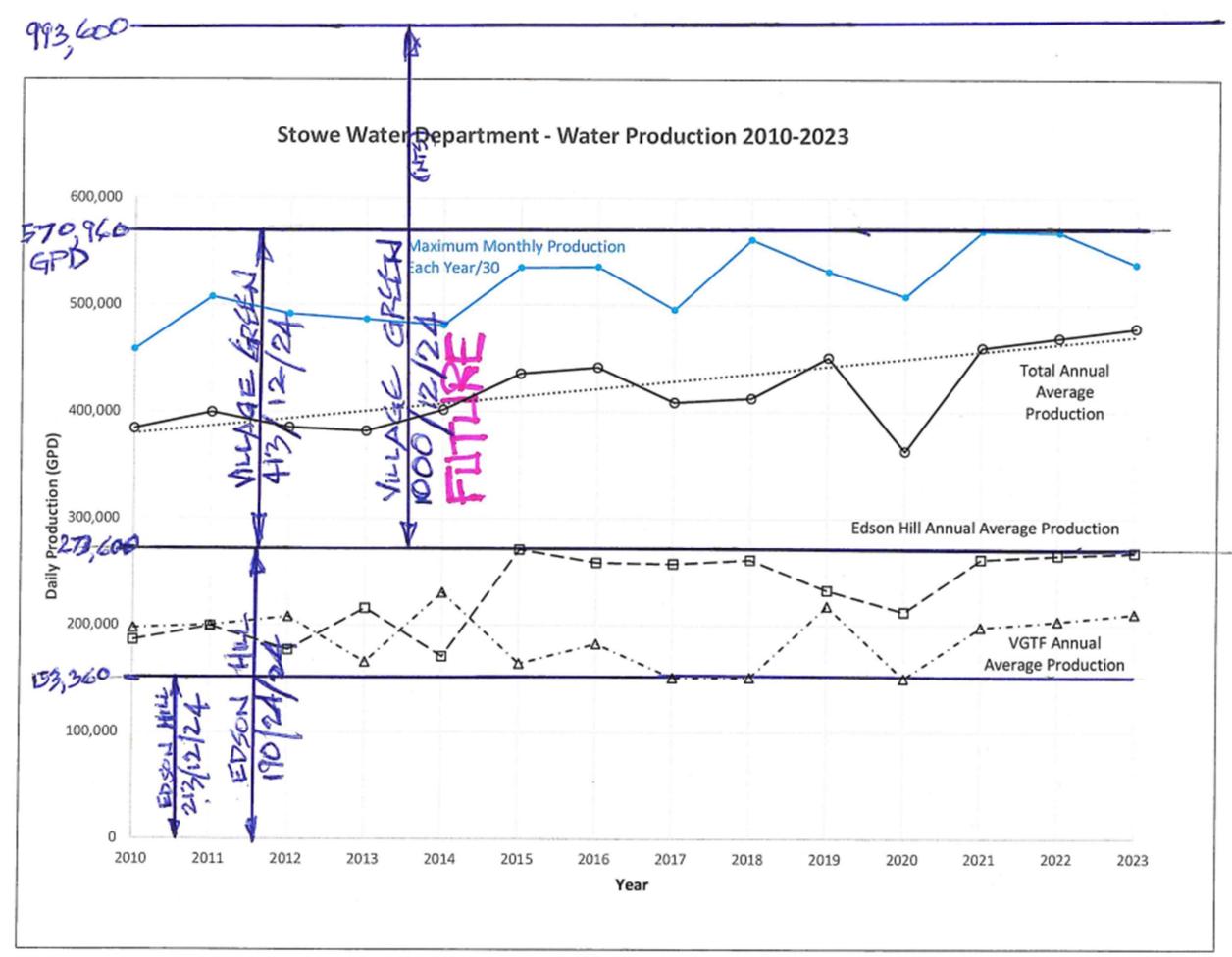
Permittee: Town of Stowe - Permit # 3-1232 Month: Jul-24

	Effluent Primary Flow Device Is A 90 Degree V-notch Weir											
	Effluent Flow	v Checks										
	Date	Head	Actual	Chart								
			Flow	Flow	(Actua	I - Chart)	x 100 = % error					
		feet	mgd	mgd	A	ctual						
5	26	27	28	29			28					
5 5 8 6 8	7/3/2024	0.563	0.384	0.379		% error						
5	7/10/2024	0.708	0.682	0.662	2.9	% error						
B	7/17/2024	0.396	0.159	0.164	-2.8	% error						
6	7/24/2024	0.458	0.229	0.237	-3.3	% error						
В						% error						
1	Factory Cali	bration D	ate:			By:						
7	Comments And Explanations Of Any Violations:											
3	(Reference all attachments here)											
5												
1												
1												
2												
В												
7												
2												
5												
2												
1												
в												
9	Comments And Explanations Of Any Violations: (Reference all attachments here) Prepared By: Bryan Longe											
0												
0												
9	Prepared P	sv:										
0	. repared b			Bryan I	onge							
5				July and	ungo							
3	certify under	penalty of	law that I	have pers	onally e	xamined a	nd am familiar					
R	with the inform	nation sub	mitted her	ein Rase	d on my	inquiry of	those					
0	individuals inv	mediately	responsible	e for obtai	ning the	informatio	n I believe the					
9	submitted info	mation is	true accu	irate and c	omplete	a Lam aw	on, I believe the					
-	are significant											
	possibility of fi			-	norma	uon, includ	ing the					
2	possionly of it	ine and in	prisonner									
6 5	a ar											
5	Approved E	Sy:										
1				Harr	y She	pard						
3												
	One Copy To	The State	With origi	inal Signat	ure, Per	mittee To	Keep One Copy On File					

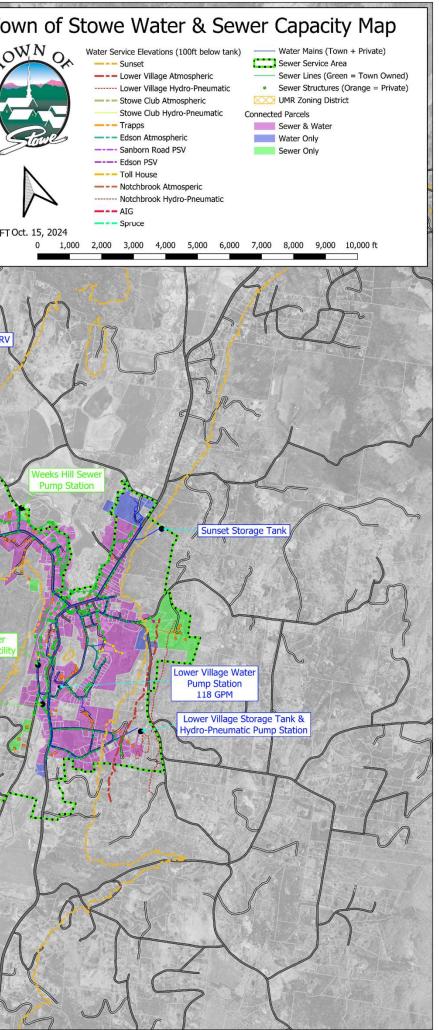




Stowe Water Demand Trends & Permit Capacities



Mansfield Sew Pump Station		ruce le Tank	Mansfield Pump St 353 GI	ation		Huses Storage as Spread as Spread Unit Marker Storage Branch Tank & Hydro-Pheramite Unit Storage Tank Unit Storage Tank
Drinkin	gWate	er Sour	ce Cap	oaciti	es	Pump Station 442 GPM
Source Name		Permitted Yield (GPM)	Permited Operation (hrs/day)	Permitted Capacity (GPD)	Current Annual Average Production (GPD)	n Houston Farm
Edson Hill Well & Treatment Facilit		213	12	153,360	267,600	Pump Station
Village Green Wells & Treatment Fa			12 7000	297,360	210,700	
Drinking W Preasure Zone Name	Tank Elevation (ft)	Max Service Elevation ± (ft)	Storage Volume (gal)	Fire Protection Available	Available Storage for Demands (GPD) Current Average Daily Demand (GPD)	re Waste W Treatment
Sunset Lower Village	929 1,008	829 908	729,000 44,000	YES NO*	669,000 218,000 44,000 18,300	
Lower Village Hydro-Pneumatic Stowe Club	1,227	1,027 1,127	N/A 128,000	NO YES	68,000 20,500	Lower Village Sewer Pump Station
Stowe Club Hydro-Pneumatic		1,190	N/A	NO	1,300	
Trapps Edson Hill	1,507	1,407	151,000 252,000	YES	91,000 43,400 192,000 74,000	
Edson PSV	1,144	1,271	N/A	NO	202,000 74,000	Trapps Pump
Sanborn Road PSV Edson Manor Hydro-Pneumatic		1,313 1,387	N/A N/A	NO NO		Station 134 GPM
Toll House	1,305	1,387	151,000	YES	91,000 10,500	
Notchbrook	1,455	1,355	33,000	NO	33,000 2,500	
Notchbrook Hydro-Pneumatic AIG	1,559	1,438 1,459	N/A 86,000	NO*	26,000 20,700	
Spruce	1,890	1,790	185,000	YES	125,000 70,200	
*Multiple existing sprinkler connect new sprinkler systems.	tions exist on	this preasure	zone, though	Infrstructure	does not permit us to	
	water	(Sewe			8	
Site		Design Flow (GPD)	Current Ave	-	Max Day Flow (gal)	
Lower Village Sewer Pump Station		396,000	217,		847,000	
Weeks Hill Pump Station		950,000	263,		825,000	
Mansfield Sewer Pump Station Waste Water Treatment Facility		300,000	61,0 368,		221,000 801,000	



Questions & Discussion

