

APPENDIX B

Waitsfield Water & Wastewater Feasibility Study: Available Area Analysis and Potential for On-Site Disposal per Parcel

PARCEL AND LOCATION		All Buffers		All Buffers Except Village Wells			
Map ID	Village	Does Parcel Have Available Area? (1 = "yes")	Does Parcel Have Potential Site for On-Site Disposal?	VILLAGE PARCELS - Does Parcel Have Available Area? (1 = "yes")	VILLAGE PARCELS - Does Parcel Have Potential Site for On-Site Disposal?	NON-VILLAGE PARCELS- Does Parcel Have Potential Site for On-Site Disposal?	Does Parcel Have Potential Site for On-Site Disposal?
01001.000	yes	0	no	1	yes		yes
01002.000	yes	0	no	0	no		no
01003.000	yes	0	no	0	no		no
01004.000	yes	0	no	0	no		no
03043.000	no	1	yes			yes	yes
03055.021	no	1	yes			yes	yes
12000.000	no	1	yes			yes	yes
12001.000	no	1	yes			yes	yes
12001.100	no	1	yes			yes	yes
12002.000	no	1	yes			yes	yes
12002.100	no	1	yes			yes	yes
12002.200	no	1	yes			yes	yes
12003.000	no	1	yes			yes	yes
12004.000	no	1	no			no	no
12005.000	no	1	yes			yes	yes
12006.000	no	1	yes			yes	yes
12007.000	no	1	yes			yes	yes
12008.000	no	1	yes			yes	yes
12009.000	no	1	yes			yes	yes
12010.000	no	1	yes			yes	yes
12011.000	no	1	yes			yes	yes
12012.000	no	1	yes			yes	yes
12013.000	no	1	yes			yes	yes
12014.000	no	1	yes			yes	yes
12016.000	no	1	yes			yes	yes
12017.000	no	1	yes			yes	yes
12018.000	no	1.000	no			no	no
12019.000	no	1.000	yes			yes	yes
12020.000	no	1.000	yes			yes	yes
12020.100	no	1.000	yes			yes	yes
12020.200	no	0.000	no			no	no
12020.300	no	1.000	yes			yes	yes
12021.000	no	1.000	no			no	no
12022.000	no	1.000	yes			yes	yes
12023.000	no	1.000	no			no	no
12024.000	no	1.000	yes			yes	yes
12025.000	no	1.000	no			no	no
12026.000	yes	1.000	no	1	no		no
14001.000	no	1.000	yes			yes	yes
14002.000	no	1.000	yes			yes	yes
14003.000	no	1.000	yes			yes	yes
14003.002	no	1.000	yes			yes	yes
14003.003	no	1.000	yes			yes	yes
14004.000	no	1.000	yes			yes	yes
14005.000	no	1.000	yes			yes	yes
14006.000	no	1.000	yes			yes	yes
14006.500	no	1.000	yes			yes	yes
14007.000	no	1.000	yes			yes	yes
14009.000	no	1.000	yes			yes	yes
15001.000	no	0.000	no			no	no
15003.000	no	0.000	no			no	no
15004.000	no	1.000	yes			yes	yes
15004.100	no	0.000	no			no	no
15005.000	no	1.000	yes			yes	yes
15006.000	no	1.000	yes			yes	yes
15006.100	no	1.000	yes			yes	yes
15006.200	no	0.000	no			no	no
15007.500	no	1.000	yes			yes	yes
15009.000	no	1.000	yes			yes	yes
15010.000	no	1.000	yes			yes	yes
15011.000	no	1.000	yes			yes	yes
15012.000	no	1.000	yes			yes	yes
15013.000	no	1.000	yes			yes	yes
15014.000	no	1.000	yes			yes	yes

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15015.000	no	1.000	yes			yes	yes
15016.000	no	1.000	yes			yes	yes
15017.000	no	1.000	yes			yes	yes
15018.000	no	1.000	yes			yes	yes
15019.000	no	1.000	yes			yes	yes
15020.000	no	1.000	yes			yes	yes
15021.000	no	1.000	yes			yes	yes
15022.000	no	0.000	no			no	no
15023.000	no	1.000	no			no	no
15024.000	no	1.000	yes			yes	yes
15025.000	no	1.000	yes			yes	yes
15026.000	no	0.000	no			no	no
15027.000	no	1.000	yes			yes	yes
15028.000	no	1.000	yes			yes	yes
15028.100	no	1.000	yes			yes	yes
15029.003	no	1.000	yes			yes	yes
15030.000	no	1.000	yes			yes	yes
23001.100	yes	0.000	no	0	no		no
23001.200	yes	1.000	no	1	no		no
23003.000	yes	1.000	no	1	no		no
23005.000	yes	1.000	no	1	no		no
30001.000	no	1.000	yes			yes	yes
30002.000	no	0.000	no			no	no
30003.000	no	0.000	no			no	no
30004.000	no	1.000	yes			yes	yes
37001.000	yes	0.000	no	1	yes		yes
37002.000	yes	0.000	no	1	yes		yes
37003.000	yes	0.000	no	1	no		no
37004.000	yes	1.000	yes	1	yes		yes
37005.000	yes	1.000	yes	1	yes		yes
37006.000	yes	1.000	yes	1	yes		yes
37007.000	yes	1.000	yes	1	yes		yes
38001.000	yes	1.000	yes	1	yes		yes
38002.000	yes	1.000	yes	1	yes		yes
38003.000	yes	1.000	yes	1	yes		yes
38004.000	yes	1.000	yes	1	yes		yes
38005.000	yes	1.000	no	1	no		no
38006.000	yes	1.000	yes	1	yes		yes
38008.000	yes	1.000	yes	1	yes		yes
38009.000	yes	1.000	yes	1	yes		yes
38010.000	yes	1.000	no	1	yes		yes
45001.000	no	1.000	yes			yes	yes
45002.000	no	1.000	yes			yes	yes
45003.000	no	0.000	no			no	no
45004.000	no	1.000	yes			yes	yes
45005.000	no	1.000	yes			yes	yes
45006.000	no	1.000	yes			yes	yes
45007.000	no	1.000	yes			yes	yes
45008.000	no	1.000	yes			yes	yes
45009.000	no	1.000	yes			yes	yes
45010.000	no	0.000	no			no	no
45011.000	no	1.000	yes			yes	yes
45012.000	no	1.000	yes			yes	yes
45013.000	no	1.000	yes			yes	yes
45014.000	no	0.000	no			no	no
45015.000	no	1.000	yes			yes	yes
99031	no	1.000	yes			yes	yes
99033.000	no	1.000	yes			yes	yes
99035.000	no	1.000	yes			yes	yes
99036.000	no	1.000	yes			yes	yes
99037.000	no	1.000	yes			yes	yes
99038.000	no	1.000	yes			yes	yes
99040.000	no	1.000	yes			yes	yes
99041.000	no	1.000	yes			yes	yes

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99042.000	no	1.000	yes			yes	yes
99043.000	no	1.000	yes			yes	yes
99044.000	no	1.000	yes			yes	yes
99045.000	no	1.000	no			no	no
99046.000	yes	1.000	yes	1	yes		yes
99046.001	yes	0.000	no	1	yes		yes
99046.050	yes	1.000	yes	1	yes		yes
99046.100	yes	1.000	yes	1	yes		yes
99047.000	yes	1.000	yes	1	yes		yes
99048.000	yes	0.000	no	0	no		no
99049.000	yes	1.000	yes	1	yes		yes
99050.000	yes	1.000	no	1	yes		yes
99051.000	yes	1.000	yes	1	yes		yes
99051.100	yes	1.000	yes	1	yes		yes
99051.200	yes	1.000	yes	1	yes		yes
99052.000	yes	1.000	yes	1	yes		yes
99053.000	yes	0.000	no	1	yes		yes
99054.000	yes	0.000	no	0	no		no
99055.000	yes	1.000	yes	1	yes		yes
99056.000	yes	0.000	no	0	no		no
99057.000	yes	1.000	yes	1	yes		yes
99058.000	yes	1.000	yes	1	yes		yes
99059.000	yes	1.000	yes	1	yes		yes
99060.000	yes	1.000	yes	1	yes		yes
99061.000	yes	1.000	yes	1	yes		yes
99062.000	yes	1.000	no	1	no		no
99063.000	yes	0.000	no	0	no		no
99064.000	yes	0.000	no	0	no		no
99065.000	yes	1.000	yes	1	yes		yes
99066.000	yes	1.000	yes	1	yes		yes
99067.000	yes	1.000	yes	1	yes		yes
99068.000	yes	0.000	no	1	yes		yes
99069.000	yes	0.000	no	1	yes		yes
99070.000	yes	0.000	no	1	no		no
99071.000	yes	0.000	no	1	no		no
99072.000	yes	1.000	yes	1	yes		yes
99073.000	yes	0.000	no	0	no		no
99101.000	yes	1.000	no	1	no		no
99102.000	yes	0.000	no	0	no		no
99103.000	yes	0.000	no	1	no		no
99104.000	yes	1.000	no	1	yes		yes
99105.000	yes	0.000	no	0	no		no
99107.000	yes	0.000	no	0	no		no
99108.000	yes	0.000	no	0	no		no
99109.100	yes	0.000	no	0	no		no
99110.000	yes	0.000	no	0	no		no
99111.000	yes	0.000	no	0	no		no
99112.000	yes	1.000	no	1	no		no
99113.000	yes	0.000	no	1	no		no
99114.000	yes	0.000	no	1	no		no
99115.000	yes	0.000	no	1	no		no
99116.000	yes	1.000	no	1	no		no
99117.000	yes	0.000	no	1	yes		yes
99118.000	yes	0.000	no	1	no		no
99119.000	yes	0.000	no	1	no		no
99120.000	yes	0.000	no	1	yes		yes
99121.000	yes	1.000	no	1	yes		yes
99122.000	yes	1.000	yes	1	yes		yes
99123.000	yes	1.000	no	1	no		no
99123.100	yes	0.000	no	1	yes		yes
99125.000	yes	1.000	yes	1	yes		yes
99126.000	yes	0.000	no	0	no		no
99127.000	yes	0.000	no	0	no		no
99128.000	yes	0.000	no	1	no		no

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99128.003	yes	1.000	no	1	no		no
99129.000	yes	1.000	yes	1	yes		yes
99130.000	yes	1.000	yes	1	yes		yes
99130.100	yes	0.000	no	0	no		no
99131.000	yes	1.000	yes	1	yes		yes
99132.000	yes	0.000	no	0	no		no
99133.000	yes	1.000	no	1	no		no
99135.000	yes	0.000	no	0	no		no
99136.000	yes	1.000	yes	1	yes		yes
99138.000	yes	0.000	no	1	yes		yes
99139.000	yes	1.000	yes	1	yes		yes
99140.000	yes	1.000	no	1	yes		yes
99141.000	yes	0.000	no	1	yes		yes
99142.000	yes	1.000	yes	1	yes		yes
99143.000	yes	0.000	no	1	yes		yes
99144.000	yes	0.000	no	1	yes		yes
99145.000	yes	1.000	no	1	no		no
99146.001	yes	1.000	yes	1	yes		yes
99147.000	yes	1.000	no	1	no		no
99149.000	yes	0.000	no	0	no		no
99152.000	yes	1.000	yes	1	yes		yes
99153.000	yes	0.000	no	0	no		no
99156.000	yes	0.000	no	0	no		no
99157.000	yes	0.000	no	0	no		no
99158.000	yes	0.000	no	0	no		no
99159.000	yes	1.000	no	1	yes		yes
99160.000	yes	1.000	no	1	yes		yes
99161.000	yes	1.000	yes	1	yes		yes
99164.000	yes	0.000	no	1	yes		yes
99168.100	yes	0.000	no	1	no		no
99169.000	yes	1.000	no	1	no		no
99170.000	yes	1.000	yes	1	yes		yes
99171.000	yes	1.000	no	1	no		no
99172.000	yes	1.000	no	1	no		no
99172.100	yes	0.000	no	0	no		no
99173.000	yes	1.000	yes	1	yes		yes
99175.000	yes	0.000	no	0	no		no
99176.000	yes	0.000	no	0	no		no
99177.000	yes	0.000	no	0	no		no
99178.000	yes	0.000	no	0	no		no
99180.000	yes	1.000	yes	1	yes		yes
99181.000	yes	0.000	no	0	no		no
99182.000	no	0.000	no			no	no
99183.000	yes	1.000	no	1	no		no
99183.200	yes	0.000	no	1	no		no
99183.300	no	0.000	no			no	no
99184.000	no	1.000	yes			yes	yes
99185.000	no	1.000	yes			yes	yes
99185.100	no	1.000	yes			yes	yes
99186.000	no	0.000	no			no	no
99187.000	no	0.000	no			no	no
99188.000	no	0.000	no			no	no
99189.000	no	1.000	yes			yes	yes
99190.000	no	1.000	yes			yes	yes
99191.000	no	1.000	yes			yes	yes
99192.000	no	0.000	no			no	no
99194.000	no	0.000	no			no	no
99195.000	no	1.000	yes			yes	yes
99197.000	no	1.000	yes			yes	yes
99197.100	no	1.000	yes			yes	yes
99198.000	no	1.000	yes			yes	yes
99199.000	no	1.000	yes			yes	yes
99200.000	no	1.000	yes			yes	yes
99201.003	no	1.000	no			no	no

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99202.000	no	1.000	yes			yes	yes
99203.000	no	1.000	no			no	no
99204.000	no	1.000	yes			yes	yes
99205.000	no	1.000	yes			yes	yes
99206.000	no	1.000	yes			yes	yes

APPENDIX C

Waitsfield Water & Wastewater Feasibility Study: DEC Permit Summary

Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
15021.000	Lafayette Properties	MH-5-0014	Tremblay Road	1997	replace a failed septic system serving an existing mobile home park	replace fail
15021.000	Central Vermont Community Land Trust	MH-5-0014-1	Tremblay Road	2003	connect 11 existing mobile homes to the existing leachfield serving rest of mobile home park	
15021.000	Central Vermont Community Land Trust	MH-5-0014-2	Tremblay Road	2004	amend wastewater disposal design to remove pump station	
99191.000	Dan and Susan Easley	WW-5-0005	RT 100	1988	addition of 32 seat breakfast room, 4 bdrms, 4 baths, & enlarge kitchen, Also see 5W0726 & Amendments, WW-5-1114 and WW-5-0877 & Amendments	
99191.000	Dan Easley	WW-5-0005-1	RT 100	1994	install bakery; Also See 5W0726 & Amendments, WW-5-1114 and WW-5-0877 & Amendments	
99191.000	Robert & Susan Easley	WW-5-0005-2	RT 100	1994	An addition to a Pavillion with 2 bathrooms; Also See 5W0726 & Amendments, WW-5-1114 and WW-5-0877 & Amendments	
38004.000	Norberto P. Garcia	WW-5-0087	TH 38	1989	change bdrm configuration & count in apt. bldgs & add office space in one bldg, also see PB-5-0771, PB-5-0701 & EC-5-1189	
99131	Irene Mehuron	WW-5-0093	RT 100	1989	construct addition to grocery store; Also See WW-5-0972, PB-5-0067 and 5W0025 & Amendments	
99131	Irene Mehuron	WW-5-0093-1	RT 100	1989	replace existing septic system; Also See WW-5-0972, PB-5-0067 and 5W0025 & Amendments (relocated for addition)	replace
99131	Glentoran N.V.	WW-5-0093-2	Village Square	2008	replacement of a failed wastewater disposal system for an existing commercial building on 4.4± acre	replace fail
99131	Glentoran Corporation	WW-5-0093-3	Village Square Shopping Center	2011	reallocation of wastewater design flows from Building Block "B" to allow for the expansion of The Mad Taco Restaurant from take-out to 6 seats (+ 2 employees)	
99131	Glentoran Corporation	WW-5-0093-4	5101 Village Square Unit 2	1905	amend Permit WW-5-0093-3 to expand the existing restaurant located in Building B of the Village Square Shopping Center to 4 employees and 23 seats	
99131	Glentoran N.V.	WW-5-0093-5	Village Square Shopping Center	2015	Amendment to replace a failed wastewater disposal system to Building D of the Village Square complex.	replace fail
99131	c/o Mountain Associates	WW-5-0093-6	Village Square Shopping Center	2016	add 20 seats to existing 6 seats at the Mad Taco (Building B)	
99131	Glentoran Corporation c/o Mountain Associates	WW-5-0093-7	5101 Main Street	2017	replacing the failed wastewater disposal field for "Building B" for the second time	replace fail
99147	Mad River Canoe, Inc.	WW-5-0142	RT 100	1989	addition for manufacturing	
99147	Irasville Incubator & Storage, LLC	WW-5-0142-1	151/167 Mad River Canoe Road	2004	Installation of a pump station	
99147	Irasville Incubator & Storage, LLC	WW-5-0142-2	151/167 Mad River Canoe Road	2011	re-allocation of water and ww design flows for 2 existing commercial buildings of Permit WW-5-0142-1 to include 22 employees, meat processing and bakery	

Waitsfield Water & Wastewater Feasibility Study: DEC Permit Summary

Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
99147	Irasville Incubator & Storage, LLC	WW-5-0142-3	151/167 Mad River Canoe Road	2015	replacing existing in-ground wastewater disposal system serving 2 existing commercial buildings approved under Permit WW-5-0142 with a performance base mound system to increase total system capacity	replace
99168.1 & 99169	Gateway Lodge & Motel	WW-5-0156	RTS 17 & 100	1989	replace failed septic system	replace fail
99168.1 & 99169	John G. Morris, George Morris	WW-5-0156-1	9 VT Route 17	2015	amend Permit WW-5-0156 to update the current use of mix use commercial building with an 80-seat restaurant, 1 2-bdrm apartment, 3 1-bdrm apartments, a retail store with 2 employees and addition of a micro-brewery (designated replacement area located on adjoining lot owned by George Morris)	
99168.1 & 99169	John G. Morris	WW-5-0156-2	9 Vermont Route 17	2016	revised I/A system for previously approved brewery	
99168.1 & 99169	John G. Morris	WW-5-0156-2R	9 VT Route 17	2016	departmental errors to Permit WW-5-0156-2	
99051	Waitsfield School District	WW-5-0204	Route 100	1990	school expansion	
99051	Waitsfield School District	WW-5-0204-1	RT 100	1991	replace water reservoir, Also see WW-5-0298	
99051	Waitsfield School District	WW-5-0204-2	RT 100	1996	allow General Waite house to connect to school's water supply, Also see Ec-5-2814 & WW-5-0946	
99102.000	Cathleen Miller	WW-5-0238	TH 22	1990	replace failed septic system, also see PB-5-0469	replace fail
	Q. Pearson	WW-5-0241	RT 100	1990	expand existing septic serving existing 8 employee commercial bldg (permit and approv plan state 10 employees), also see EC-5-2049 (2 lots each w/existing commercial bldg), PB-5-0222 & 0363	
99152	Brothers Building Co., Inc.	WW-5-0250	RT 100	1990	Convert Retail Shop to Beauty Salon, Also see 5W0036	
99152	Brothers Building Co., Inc.	WW-5-0280	RT 100	1996	Construct addition & add 20 seats to restaurant in Bldg #3, also see 5W0036 & WW-5-0250	
99152	Mad River Green Shopping Center, LLC	WW-5-0280-1	114 Mad River Green	2018	amending permit WW-5-0280 to increase the restaurant seating capacity to 100 seat, serving 2 meals per day	
99051.100	Waitsfield Fire Department	WW-5-0298	RT 100	1991	replace water reservoir, also see WW-5-0204-1.	
99201.000 99203.000	Valley Disposal, Inc.	WW-5-0327	6911 Main St RT 100	1995	new septic sys. & water supply for transfer station	
99201.000 99203.000	Patrick Collins	WW-5-0327-R	6911 Main St RT 100		reduce # of employees, Also see EC-5-2534	
	Otis Wallis	WW-5-0369	RT 100	1992	convert garage to 3 bedrm apt.	
99185	Clive Coutts	WW-5-0396	RT 100		convert residence to B&B	
99185	Clive & Tracey Coutts	WW-5-0396-1	Route 100		change use to 7 guest rms & 1 owner bdrm in main house & 1 guest rm in cottage	
99185	Clive & Tracy Coutts	WW-5-0396-2	Route 100	2000	increase bdrms in cottage 1 to 3 and reallocate flows among approved bldgs	
99185	T & L Gardner, Inc.	WW-5-0396-3	5864 Main Street, RT 100	2006	reduce size of Lot 1 w/existing Inn to 20.29 ac., with remaining Lot 2 of 5.01 ac. to be subject to Notice of Permit Requirements	
1001	Town of Waitsfield	WW-5-0426	RT 100, Bridge Street	1992	drill well forTown Clerk Office share w/WW-5-0427	

Waitsfield Water & Wastewater Feasibility Study: DEC Permit Summary

Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
1001, 99046.050	Town of Waitsfield	WW-5-0426-1	Main and Bridge Streets	2014	replace the failed wastewater disposal system for the Waitsfield Town Office and Library with a connection to the expanded wastewater disposal system on an adjoining lot subject to Permit WW-5-6171-1. (Replace Fail, but new system complies)	
1003	Bonnie and Gaelic McTigue	WW-5-0427	RT 100, Bridge Street	1992	drill new well for RetailStore share with WW-5-0426	
99148 (per permit), 99152 (per GIS location)	Grand Union Company	WW-5-0440	RT 100	1993	construct septic system, also see PB-5-1006 & 5W0036 & Amended	
99148 (per permit), 99152 (per GIS location)	Grand Union Company	WW-5-0440-1	RT 100	1995	rebuild septic system, also see PB-5-1006 & 5W0036-14	replace fail
99148 (per permit), 99152 (per GIS location)	Mad River Green Partners, Inc.	WW-5-0440-2	27 Mad River Road	2008	replacement of a failed wastewater disposal system for an existing 15,000 square foot supermarket	replace fail
99062	Stevenson Flemer	WW-5-0446	RT 100		new well for theater & mtg hall	
99062	Odd Players	WW-5-0446-1	RT 100	1993	new water supply for theater and meeting hall	
99146.001	Skatium, Inc.	WW-5-0457	RT 100	1993	construct ice skating facility Also see EC-5-2362	
99146.001	Skatium, Inc.	WW-5-0457-1	Slow Road	2009	amend Permit WW-5-0457 to allow winter use of a single portolet at the previously approved outdoor	
99146.001	Skatium, Inc., Mad River Green Partners	WW-5-0457-2	Slow Road	2011	supersede Permit EC-5-2362 and subdivide 10.37± acre lot also of Permit WW-5-0457-1 to create a 5.42± acre parcel with the Skatium outdoor ice skating rink with a single portable toilet and 4.95± acre parcel (Lot C) subject to Notice of Permit Requirements; See WW-5-6241 for boundary line adjustment for parcels within the Mad River Green Shopping Center	
99108	Black Market Trader's Inc.	WW-5-0581	Bridge Street	1994	convert retail space to bakery.	
99201.000, 99203.000	Patrick Collins	WW-5-0629	RT 100	1995	dry storage bldgs on deferred lot, Also see DE-5-2917 & EC-5-2534.	
99130.000	Andrew Baird, Jr.	WW-5-0667	Route 100	1994	auto repair shop in residence, Also see HE-5-0075	
99170.000	David Dion	WW-5-0741	Route 100	1995	convert house to apt. & office	
99168.100	Peter and Pamela Behn	WW-5-0770	RT 100		construct 7500 sq.ft. building with retail/office space	
1002.000	Redeer Co. N. V.	WW-5-0825	Bridge Street	1995	replace failed septic system	replace fail
99175	Frederick Bashara	WW-5-0828	RT 100		replace failed septic system serving laundromat	replace fail
99175	FGB Corporation	WW-5-0828-1	Fiddler's Loop		Water supply for laundromat on Lot 4, Also see EC-5-3366	
99175	PITT HOLDINGS LLC	WW-5-0828-2	168 Fiddlers Green	2021	Amending WW-5-0828-1 to allow the previously approved laundromat to install a supplemental, municipal water connection for the purposes of drinking, washing, bathing, or food preparation and retain the existing water supply exclusively for laundering.	

Waitsfield Water & Wastewater Feasibility Study: DEC Permit Summary

Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
99047.000	Waitsfield-Fayston Telephone Co.	WW-5-0829	RT 100	1995	addition to maintenance building, Also see WW-5-0811	
99047	Waitsfield-Fayston Telephone Co.	WW-5-0840	RT 100	1995	construct cold storage building	
99191	Robert & Susan Easley	WW-5-0877	RT 100	1996	convert barn to 70 seat restaurant & bakery; WW-5-0005 & Amendments, 5W0726 & Amendments and WW-5-1114	
99191	Robert Easley	WW-5-0877-1	Rt 100	1996	relocate well serving restaurant; WW-5-0005 & Amendments, 5W0726 & Amendments and WW-5-1114	
99191	Robert and Susan Easley	WW-5-0877-2	Route 100	1905	construct a 12' x 30' addition; WW-5-0005 & Amendments, 5W0726 & Amendments and WW-5-1114	
99191	Lareau Farm, Inc.	WW-5-0877-3	Route 100	1999	add 6 seats to a restaurant serving 1 meal per day; Also See 5W0726 & Amendments, WW-5-1114 and WW-5-0005 & Amendments	
99201.003	Patrick Collins	WW-5-0914	RT 100	1996	construct VT Agency of Transportation Highway Garage on lot 1 of EC-5-2534	
99052	Town of Waitsfield	WW-5-0946	RT 100	1996	convert General Waite house to offices, construct new leachfield & connect to school's water supply	
99131	Glentoran N.V.	WW-5-0972	RT 100		add 10 restaurant seats to retail store in bldg C; Also See 5W0025 & Amended, WW-5-093-1 and PB-5-006	
99152	Brothers Building Co., Inc.	WW-5-1056	RT 100		construct new building 4 for bank & 2 bdrm apt.	
99152	Mad River Green Shopping Center, LLC	WW-5-1056-1	172 Mad River Green, VT Rt 100	2015	amend WW-5-1056 to change use from spa/salon retail to 40-seat restaurant and install an exterior grease interceptor	
99152	Mad River Green Shopping Center, LLC	WW-5-1056-2	172 Mad River Green	2019	amending permit WW-5-1056-1 to convert existing restaurant to a tasting room with limited onsite brewing located in building #4	
99152	Brothers Building Co., Inc.	WW-5-1057	RT 100		construct building 5 for office & retail space & 3 two bdrm apts.	
99152	Brothers Building Co., Inc.	WW-5-1058	RT 100		construct building 6 for retail space & 4 two-bdrm apts.	
99152	Brothers Building Co., Inc.	WW-5-1059	Rt 100		construct building 7 for retail space	
	Robert & Susan Easley	WW-5-1114	Route 100	1997	construct an addition for a pavilion; Also See 5W0726 & Amendments, WW-5-0877 & Amendments and WW-5-0005 & Amendment	
99108	Waitsfield House Mgt. LLC	WW-5-1182	Route 100 & Bridge Street		amend prior permit (PB-5-0913) to decrease beauty salon charis to 1; Also See WW-5-5191 replace fail	
99108	Waitsfield House Mgt. LLC	WW-5-1183	Rt 100 & Bridge Street		change office/retail space to 24 seat cafe serving 2 meals/day; Also See WW-5-5191	
99111	William Maclay	WW-5-1214	RT 100		convert 4 bdrm residence to 3 bdrm residence & 10 employees in garage	
99111	William and Alexandra Maclay	WW-5-1214-1	4509 Main Street, VT Route 100	2008	construction of a building addition and reallocate flows to convert 3-bdrm single-family residenc	
99111	William and Alexandra Maclay	WW-5-1214-2	4509 Main Street, VT Route 100	2009	reallocation of approved water and wastewater design flows to allow for a 2-bdrm apartment, a 1b	

Waitsfield Water & Wastewater Feasibility Study: DEC Permit Summary

Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
99060	Kathryn W. Henry Revocable Trust and Robert Center	WW-5-1275	Route 100	1999	convert residence to 3 apartments	
99159	Mad River Sr Citizens Inc.	WW-5-1287	Route 100	1999	change use to 18 double occupancy rms & 55 restaurant seats	
99159	Evergreen Place, Inc.	WW-5-1287-1	5308 Main Street	2005	Construct addition and change unit occupancy to 12 single-occupant units, 6 double-occupant units	
99159	Evergreen Place housing Ltd Partnership	WW-5-1287-2	5308 Main Street	2005	change water supply cistern with new storage tanks, Also see 5W0932-2	
99159	Evergreen Place Housing Ltd Partnership	WW-5-1287-3	Main Street, RT 100	2006	add chlorination equipment to water system	
99159	Evergreen Place Housing Ltd Partnership	WW-5-1287-4	5308 Main Street, RT 100	2009	reduce design flows to accommodate 17 single occupancy units, 1 elderly, double occupancy unit, 50 s	
99159	Evergreen Place Housing Limited	WW-5-1287-5	5308 Main Street	2020	Constructing only a replacement, in-ground wastewater system for an existing housing facility that is served by municipal water	replace fail
99143	Kathryn Henry Trust	WW-5-1336	Route 100	1999	convert office to 2-chair beauty salon and 1-bdrm apartment	
99121	Bisbee/Bennett partnership	WW-5-1343	Route 100	1999	expand septic system to allow a 24-seat bagel shop with 3 employees	
99133	Irene Mehuron	WW-5-1346	Route 100	1999	replacement septic system design with amended flows	replace
99133	Irene Mehuron	WW-5-1346-1	RT 100	2004	replace failed septic system serving Mehuron's Market	replace fail
99133	Tom Mehuron	WW-5-1346-2	5121 Main Street, Unit 6, Waitsfield, VT 05673	2016	amend Permit WW-5-1346-1 for the replacement of a failed wastewater system serving Mehuron's Supermarket in the Village Square Shopping Center	replace fail
99057	Randy Eastman	WW-5-1363	Route 100	1999	convert gas station to service station w/no pumps an a 3-bdrm apt	
99057	Mad River Ambulance Service	WW-5-1363-1	RT 100, 4177 Main Street	2002	convert an auto repair facility to an ambulance building	
99057	Mad River Valley Ambulance Service	WW-5-1363-2	4177 Main Street	2010	approval for future connection of the existing building approved in Permit WW-5-1363-1 to municipal water services should the existing water supply fail	
99067	Spencer & Margery Gregory	WW-5-1511	Main Street	2000	convert a residence to retail space with a 2-bdrm apt	
99067	Ian Buchanan & Sarah Shorett	WW-5-1511-1	4312 Main Street	2006	convert previously approved bldg to 2 two-bdrm apts and 9 employee office space and replace failed	
99183	Vermont Pack & Paddle Co	WW-5-1516	Route 100	2000	convert a barn to a retail store with 4 employees	
99183	Vermont Canoe	WW-5-1516-1	RT 100	2006	change use of previously permitted barn from retail to light manufacturing with 10 employees	
99173	Roger Boyle	WW-5-1519	Fiddler's Loop	2001	Approve 25 person office and restaurant w/16 seats on Lot 1, Also see EC-5-3366, WW-5-0828-1, WW-5152	
99176	F.A.P. Properties Inc.	WW-5-1520	Fiddler's Loop	2001	4 employee auto parts store & a two-bdrm apt. on Lot 5, Also see EC-5-3366	
99177	Valley Dental Associates	WW-5-1521	Fiddler's Loop	2001	dental office & 2 one-bdrm apts, on Lot 6	

Waitsfield Water & Wastewater Feasibility Study: DEC Permit Summary

Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
99178	Mad River Car Wash Inc.	WW-5-1522	Fiddler's Loop	2001	Potable water for 3 employees at car wash on lot 7	
99183	1840 Starch House LLC	WW-5-1562	Route 100	2000	changes to the water supply location, Also see EC-5-3043-1, WW-5-1516, PB-5-0430	
99070	John & Elizabeth Mansfield	WW-5-1589	4366 Main St; RT 100	2001	convert apt bldg to an 18 seat restaurant;pottery studio; & two 1 bdrm apts	
12019	Eleanor Brightenback	WW-5-1590	Old County Road	2001	construct 3 bdrm residence & 1 bdrm apt. on Lot 4	
12020.100	Steven and Sally Utter	WW-5-1591	Old County Road	2001	convert residence to bed & breakfast, Also see EC-5-3440	
99206	Baked Beads Inc.	WW-5-1597	Route 100	2001	construct jewelry assembly & warehouse facility	
12002.000 12002.100 12002.200	Richard & Bonnie Barton	WW-5-1638	Loop Road	2002	replacement septic system for existing bldg & new leachfield for existing residence & new 1 bdrm apt.	replace
12002.000 12002.100 12002.200	Timothy & Tracie Hultgren	WW-5-1638-1	Old County Road	2004	Reduce size of lot 1 w/existing bldgs to 1.8 ac., and construct 4 bdrm residence on Lot 2 of 2.2 ac.	
12002.000 12002.100 12002.200	Susan B. Lee Living Trust	WW-5-1638-2	Old County Road	2005	further divide Lot 2 into Lot 2A of 1.05 ac. and Lot 2B of 1.06 ac. each to have a 4 bdrm residence and redesign septic system located on Lot 1 (see WW-5-1638-3 to also serve these lots	
12002.000 12002.100 12002.200	Timothy & Tracy Hultgren	WW-5-1638-3	Old County Road	2005	re-design previously approved septic system to now serve 3 lots - Lot 1 and Lots 2A and 2B subject to WW-5-1638-2	
99046.001	Tavern Condominium Assoc.	WW-5-1642	RT 100 (4200 Main St.)	2001	construct replacement septic system for failed system serving 7 condominiums, Also see PB-5-0516	replace fail
99123	Wait Farm Motor Inn	WW-5-1716	4805 Main St; RT 100	2002	drill new well for motel & residence	
99123	Paul Lavoie	WW-5-1716-1	Main Street	2008	divide 3.04± acre lot of Permit WW-5-1716 to create Lot 1 being 1.01± acres	
99123	Paul Lavoie	WW-5-1716-2	4805 Main Street	2008	amend Permit WW-5-1716-1 to allow the current use of the lodging house to continue and re-design of	
99123	Wait Farm Partners	WW-5-1716-3	4811 Main Street	2010	Change in use for the existing lodging facility on Lot 2 of Permit WW-5-1716-2 into 2 apartments. address edited from 4805 to 4811 Main St per GIS data.	
99123.1	The Gumbo Group, LLC	WW-5-1716-4	4805 Main Street	2015	amend WW-5-1716-3 to change the layout of space inside the building on Lot 2 from 1 two bdrm apartment, 1 one bdrm apartment, office space for 18 employees and a showroom to: 1 two bdrm apartment, 2 one bdrm apartments and office space for 16 employees on Lot 2	
99049	Clarence Tucker	WW-5-1744	RT 100	2002	design new leachfield, Also see PB-5-0623	
99049	Clarence Tucker	WW-5-1744-1	RT 100	2002	amend subdivision approval to reflect that 2.3 ac. lot is improved w/retail store & greenhouse instead of residence, Also see EC-5-0302 & PB-5-0623	
23001.2	Winter Park Associates	WW-5-1809	Carroll Road	2002	construct sign fabrication facility w/a 1-bdrm apt.; Also see Ec-5-3613	

Waitsfield Water & Wastewater Feasibility Study: DEC Permit Summary

Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
23001	Winter Park Associates	WW-5-1810	TH 23, Carroll Road	2002	construct 6-employee retail bldg on Lot 6; REVOKED 12/14/06 Also see WW-5-1809, EC-5-3611 & 3612 RE. No longer a parcel with this number (since been subdivided)	
99164	Alan Goldman	WW-5-1898	Routes 100 & 17	2002	approval for previously constructed wastewater disposal system serving Gallagher's	
014003000, 014003002, 014003003	Thomas Mehurn	WW-5-2487	Old County Road	2003	4 lot residential subdivision with Lot 1 being 1.08+/- acres, Lot 2 being 1.43+/- acres, Lot 3 being 1.21+/- acres and Lot 4 being 2.76+/- acres, each for construction of a 3-bdm single-family residence and Lot 5 being 0.22+/- acres subject to Notice of Permit Requirements	
14003.002	Katherine Egan, and Jeanette P. Egan Trust 7/20/91	WW-5-2487-1	Old Center Fayston Road	2010	conversion of an existing 3-bdrm single-family residence on Lot 2 of Permit WW-5-2487 into a 1-bdrm residence with a 10-child licensed daycare and 26-person conference room	
38002	Russell & Linda Heaton	WW-5-2518	152 Dugway Road	2004	further divide lot approved under EC-5-0757	
15017	James Wimble	WW-5-2552	Village Woods Road	2004	redesign Lot 10, 7.3 ac., septic system previously approved under EC-5-3057	
15017	James Wimble	WW-5-2552-1	Village Woods Road	2004	relocate leachfield and allow 4 bdrm residence on Lot 10	replace
12016.000	John & Zoanne Cady	WW-5-2586	447 Old County Road	2004	amend EC-5-1696-1 to convert 5 bdrm single family residence to 5 bdrm duplex	
14007	Robert Teunis	WW-5-2682	Old Center Fayston Road	2004	approval for 1.4 lot w/existing camp created in 1980 without permit	
38008	Valley Housing Associates	WW-5-2834	Butcher House Road	2004	approval for as-built wastewater disposal systems for previously permitted 24 units of housing	
38008	Central Vermont Community Land Trust	WW-5-2834-1	Butcher House Road	2006	reconfigure prior approved lot and increase size to 5.07 ac.	
99161	Kitchener House Ltd	WW-5-3104	Rt 100 & Bragg Hill Road	2005	connect barn containing a 3 employee retail space and 1 person office space to existing septic system	
99161	Xin Jun & Bao Li Lin	WW-5-3104-1	5358 Main St	2015	conversion of an existing retail and office space to a commercial restaurant with 30 seats and 20 employees	
99050	Mad River Valley Health Center	WW-5-3123	Route 100, Old County Road	1905	increased use of health center	
99031.000	Donald Spaulding	WW-5-3168	Center Fayston Road	2005	create Lot 2 of 2.1 ac. for 4 bdrm residence, with remaining Lot 1A of 42 ac. to be subject to development restrictions	
99031.000	Laurie J Spaulding	WW-5-3168-1	2758 Main Street	2019	This application, consisting of amending permit WW-5-3168 to further subdivide lot 1 into now being lot 1B of 9.50-acres for construction of a 2-bdrm single family residence with an attached 1-bdrm apartment and lot 1 of 33.30-acres subject to Notice of Permit Requirements.	
99031.000	Laurie J Spaulding	WW-5-3168-1	2758 Main Street	2019	This application, consisting of amending permit WW-5-3168 to further subdivide lot 1 into now being lot 1B of 9.50-acres for construction of a 2-bdrm single family residence with an attached 1-bdrm apartment and lot 1 of 33.30-acres subject to Notice of Permit Requirements.	

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Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
99031.000	Laurie Spaulding	WW-5-3168-2	Center Fayston Road	2020	application will amend permit WW-5-3168-1 to modify the house and septic location on existing Lot 1B (9.50 acres). The house will remain equivalent to what was previously permitted: a 3-bdrm single-family residence.	
99046	Benjamin & Stevenson Flemer, Jr. & Wrenn Flemer Compere	WW-5-3499	4242 Main Street	2005	approval for prior conversion of 6 bdrm residence into a 6 bdrm duplex on 76 acres	
99046	Wrenn Flemer Compere, Trustee	WW-5-3499-1	4242 Main Street	2008	further divide 76± acre lot of Permit WW-5-3499, now being 72.92± acres, to create Lot 4 of 1.19± ac	
14006.500	Cheryl Bernard	WW-5-3541	223 Old Center Fayston Road	2006	convert 5 bdrm residence, previously subject to exemption HE-5-0332, to a 3 bdrm duplex	
38008	Central Vermont Community Land Trust	WW-5-3640	Butcher House Road	2006	construct a 4 unit apt. bldg w/total of 8 bdrms on 2.08 ac. lot w/another building	
38008	Mad River Meadows L.P.	WW-5-3640-1	Butcher House Road	2008	add 1 bdrm to bldg 1 for a total of 9 bdrms in 4 units	
38008	Central Vermont Community Land Trust	WW-5-3641	Butcher House Road	2006	construct a 4 unit, 8 bdrm apt. bldg on 2.08 ac. w/another bldg subject to WW-5-3640	
38008	Mad River Meadows LP	WW-5-3641-1	Butcher House Road	2008	add 1 bdrm to bldg 2 for a total of 9 bdrms in 4 units	
15006.000, 15006.200	Sally Tremblay	WW-5-3724	Village Woods Road	2006	amend EC-5-1843-1 to further divide lot into Lot 1 of 4.4 ac. w/existing 3 bdrm residence and Lot 2 of 2 ac. for new 5 bdrm residence	
23001.1	Claudia Becker	WW-5-3728	TH 23, Carroll Road	2006	expand footprint of previously approved theater, add a 30 seat restaurant, and reduce theater seats	
23001.1	Revolution Theater, LLC	WW-5-3728-1	Carroll Road	2006	add 14 child daycare & community center to existing theater & café	
23001.1	Revolution Theater, LLC	WW-5-3728-2	Carroll Road	2008	amend permit WW-5-3728-1 to eliminate Condition 1.5 and allow on-site food production to be consumed	
15019	Charles Brady, Jr.	WW-5-3731	Village Woods Road	2006	amend EC-5-3057 to relocate well and wastewater disposal system serving proposed 3 bdrm residence on Lot 11	replace
99188	SOCA Building LLC	WW-5-4026	6163 Main Street	2006	replace failed wastewater disposal system serving 75 seat bar and 50 seat restaurant	replace fail
99188	MR Woolery Properties, LLC	WW-5-4026-1	6163 Main Street	2017	amending permit WW-5-4026 to make upgrades / renovations to the existing wastewater disposal system as part of building renovations to reduce the number of restaurant seats to 70 and add a wool yarn production business	
12001.100	Estate of Phyllis C. Tucker	WW-5-4277	Old County Road	2007	Lot 1 of 3.4± acres for the construction of a 4-bdrm single-family residence with a 2-bdrm apartment; See WW-5-6678 for adjoining lot	
99108	Historic Waitsfield Village Condominium Association	WW-5-5191	Bridge and Main Streets	2009	replacing a failed community wastewater disposal system serving 4 existing commercial buildings	replace fail
99040.000	Doug and Donna Kenyon	WW-5-5316	VT Route 100	2009	construction of a 3-bdrm single-family residence on a 1.58± acre lot	

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Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
15024.000	Joshua & Elizabeth Schwartz	WW-5-5896	127 York Drive	2011	construction of a replacement wastewater system for an existing 4-bdrm single-family home on a 3.2± acre lot	replace fail
99139.000	Robert Rose Revocable Trust	WW-5-5966	5275 Main Street	2012	replacement of a failed wastewater disposal system for an existing 10-employee retail store/gift shop of Certificate of Compliance 5W0409-3	replace fail
45015.000	Wayne S. Snyder	WW-5-6055	78 Pine Brook Road	2012	construction of a replacement wastewater disposal system for an existing 3-bdrm single family residence on Lot 1 of Permit EC-748	replace
99072.000	Wrenn Compere, Vince Gauthier	WW-5-6171	4335 Main Street	2012	construction of a replacement wastewater system for an existing church on a 2.45± acre parcel	replace
99072.000	Waitsfield United Church of Christ	WW-5-6171-1	4335 Main Street	2014	amend Permit WW-5-6171 to expand the previously approved wastewater disposal system to accommodate replacement areas for adjoining properties subject to Permits WW-5-0426-1(Town of Waitsfield) and WW-5-6570 (Wrenn Compere)	
99152.000	Mad River Green Partners, et al	WW-5-6241	VT Route 100, Mad River Green	2012	boundary line adjustments to parcels within the Mad River Green Shopping Center; See file for list multiple permits issued for various bldgs on parcels	
38005.000	Brian Fleisher	WW-5-6354	106 Dugway Road	2013	replacement water line for an existing 1-bdrm residence on 0.21± acre Lot 2 of Permit EC-5-1189	
99184.000	Eagles at Sugarbush	WW-5-6441	169 Eagles Road off VT Rt 100	2013	installation of 8" municipal water line South along VT Route 100 from Fiddler's Green to Eagles Road to provide fire protection and domestic water service to the existing 16-unit Eagle's Resort Condominiums and Clubhouse with a 2" water service connection made at the resort's existing water supply control building	
23001.000, 23001.100, 23001.200, 23003.000, 23005.000	Julie and Bill Parker Winter Park Association	WW-5-6542	Carroll Road off VT Route 100	2014	construction of a new community wastewater system to replace the failing system serving the Winter Park commercial complex including The Big Picture Theatre & Cafe on Lot 2 of Permit WW-5-3728-2, Wood & Wood Sign Systems on Lot 5 of Permit WW-5-1809, Allen Lumber on 2.3± acres, Valley Rent All on 1± acre Lot 9 and reserve capacity for undeveloped 0.84± acre Lot 6	
23001.000, 23001.100, 23001.200, 23003.000, 23005.000	Winter Park Community Septic, Inc	WW-5-6542-1	Carroll Road/VT Route 100	2015	amend permit WW-5-6542 to re-distribute wastewater flows amongst the users of the Winter Park complex	
23001.000, 23001.100, 23003.000, 23005.000	Kolin Properties Winter Park Community Septic Inc., Winter Park Associates	WW-5-6542-2	48 & 155 Carroll Road	2017	Amending permit WW-5-6542-1 to re-distribute wastewater flows among the users of the Winter Park Complex as necessitated by the approval of a brewery on lot 10, a 80-seat tasting room on lot 9 and for the installation of wastewater pre-treatment system on lot 6 all located at 48 & 155 Carroll Road	

Waitsfield Water & Wastewater Feasibility Study: DEC Permit Summary

Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
23001.000, 23001.100, 23003.000	Lawson's Finest Liquids, LLC	WW-5-6542-3	155 Carroll Road	2018	amending permit WW-5-6542-2 for the relocation of water service lines, wastewater service lines and the pre-treatment units (lot 6) for the wastewater system associated with the brewery and tasting room on lots 9 and 10 located at 48 and 155 Carroll Road	
99065.000	Wrenn Compere	WW-5-6570	Main Street	2014	Connection of an existing 6-bdrm single family residence on a 0.62± acre lot to the expanded wastewater disposal system on an adjoining lot subject to Permit WW-5-6171-1	
99197.000	Ketcham Estate LLC	WW-5-6801	6646 & 6710 VT Route 100	2015	3-lot subdivision with Lot 1 being 5.4± acres with an existing 4-bdrm single family residence, Lot 2 being 1.2± acres with an existing 3-bdrm single family residence and Lot 3 being 46.4± acres, divided by the Mad River, to be subject to Notice of Permit Requirements	
99172.100	David and Alice Olenick	WW-5-6827	Dugway Road & VT Route 100	2017	construction of a replacement wastewater disposal system for an existing 10-employee office building on 0.4± acre Lot 1 of Permit EC-5-2049	replace
99131.000	Glentoran N.V.	WW-5-6930	Village Square Shopping Center	2015	construct a replacement leachfield to serve two buildings on a 4.4± acre parcel	replace
99131.000	Glentoran Corporation c/o Mountain Associates	WW-5-6930-1	5081 Main Street	2017	Amending permit WW-5-6930 for the addition of a proposed Juice Bar to the Northern Building	
99131.000	c/o Mountain Associates Realtors	WW-5-6930-2	5081 Main Street	2019	amending permit WW-5-6930-1 to change a juice bar into a proposed Ramen Shop with 18 seats	
15029.003	J. Leroy & Arnold Hadden	WW-5-7271	903 North Road	2016	amending permit EC-5-2238 to eliminate lots 2 and 4 and to change the acreage for lot 1 to 7.2 acres with an existing 4-bdrm single family residence and also change lot 3 to 12.3 acres for construction of a 5-bdrm single family residence	
99054.000	DR Investments, LLC	WW-5-7335	4124 Main Street	2016	changing the water supply for an existing 3-bdrm single family residence from an onsite drilled well to a municipal service connection	
99144.000	Thomas Kaminski	WW-5-7377	5130 Main Street	2017	Amending permit PB-5-0739 by upgrading the wastewater disposal system for the existing convince store with deli and gas pumps via the addition of an Innovative / Alternative treatment unit, Advantex AX100, in order to decrease wastewater strength to enhance the projected longevity of the existing wastewater disposal field, located at 5134 Main Street	replace
99144.000	Thomas Kaminski	WW-5-7377-1	5130 Main Street	2017	Upgrade to existing on-site wastewater disposal system to accommodate public use of restrooms at an existing four employee, 4-pump gas station-deli-store. New pretreatment system, reconstructed disposal field, and connection to Waitsfield municipal water system.	
12024.000	AnneMarie Defreest	WW-5-7420	664 Old County Road	2017	Addition of a 1-bdrm apartment to an existing 4-bdrm single family residence	
99149.000	Robin Morris, Kerry McCormack	WW-5-7422	89 Mad River Green, Vermont Rt 100	2017	change of use of the former People's Bank Building in the Mad River Green Shopping Center to a commercial retail establishment,	

Waitsfield Water & Wastewater Feasibility Study: DEC Permit Summary

Parcel #	Owner	Permit Number	Location	Permit Year	Permitted Wastewater Design Flow, gpd	Replace Fail or Best Fix
99171.000	Jamieson Family, LLP	WW-5-7771	5523 Main Street	2018	commercial building consisting of office space for 8 employees and a 1-bdrm apartment served by a municipal water connection and a performance based filtrate wastewater system using an Ecoflo Biofilter model STB-650BR effluent treatment unit	
99061.000	Life Estate of Henri Borel	WW-5-7959	4261 Main Street	2019	constructing a new shared leachfield to serve the existing 3-bdrm single family residence and a proposed 1-bdrm apartment and share the existing connection to the municipal water supply (the existing drilled well shall be abandoned)	
99153.000	James Donaldson	WW-5-7974	Post Office Road	2019	new on-site leachfield and Waitsfield Municipal Water Connection to serve a proposed 3-bdrm single-family residence	
37005.000	Irene Mehuron Family Trust	WW-5-8000	115 Mehuron Drive	2019	replacement for a failed wastewater disposal system only, for an existing 3-bdrm single family residence	replace fail
14001.000	Garrett Bywaters & Eleanor D'APonte	WW-5-8129	24 Old Center Fayston Road	2019	connection of an existing 4-bdrm house to the Waitsfield Municipal Water System. The house is currently being served by an off-site spring. There are no proposed changes to the existing on-site leach field	
14004.000	Celeste Minotti	WW-5-8375	195 Old Center Fayston Road	2020	Replacement of the failed wastewater system only for an existing 2-bdrm single family residence being renovated to a 3-bdrm single family residence	replace fail
15026.000	Kelly Hayes	WW-5-8441	177 York Drive	2020	Construct a replacement, raised wastewater system for a 3-bdrm single-family residence served by a potable water supply from a drilled well	replace best fix
99064.000	Shea Property Services, LLC	WW-5-8878	4276 Main Street	2022	Further improving an existing mixed-use building to create a multi-family building where Units 1 through 5 are served by the existing, in-ground wastewater system and proposed municipal water and Units 6 through 9 are served by a proposed, filtrate in-ground wastewater system and municipal water	

APPENDIX D

Waitsfield Water & Wastewater Feasibility Study: Estimated Wastewater System Ages

MAPID	Assumed WW System Install Yr	Source	Permit Year	Private Well Year	Town Info Year	Approximate WW System Age (years)	WW Age Category
01001.000	2014	permit	2014			8	<20
01002.000	1995	permit	1995		1861	27	>=20
01003.000	1992	permit	1992			30	>=30
01004.000	1972	private well		1972		50	>=40
03043.000	1978	private well		1978		44	>=40
03055.021	1980	Town			1980	42	>=40
12000.000	1987	Town			1987	35	>=30
12001.000	1942	Town			1942	80	>=40
12001.100	2007	permit	2007	1981		15	<20
12002.000	2005	permit	2005	1977		17	<20
12002.100	2005	permit	2005	2008		17	<20
12002.200	2005	permit	2005	1988		17	<20
12003.000	1978	private well		1978		44	>=40
12004.000	1850	Town			1850	172	>=40
12005.000	1960	Town			1960	62	>=40
12006.000	1979	Town			1979	43	>=40
12007.000	1973	Town			1973	49	>=40
12008.000	1967	Town			1967	55	>=40
12009.000	1800	Town			1800	222	>=40
12010.000	1963	Town			1963	59	>=40
12011.000	1966	Town			1966	56	>=40
12012.000	1977	Town			1977	45	>=40
12013.000	1963	Town			1963	59	>=40
12014.000	1978	private well		1978		44	>=40
12016.000	2004	permit	2004		1992	18	<20
12017.000	1952	Town			1952	70	>=40
12018.000	2002	Town			2002	20	>=20
12019.000	2001	permit	2001		1987	21	>=20
12020.000	1850	Town			1850	172	>=40
12020.100	2001	private well		2001		21	>=20
12020.200	2002	private well		2002		20	>=20
12020.300	2005	Town			2005	17	<20
12021.000	1961	Town			1961	61	>=40
12022.000	1830	Town			1830	192	>=40
12023.000	1948	Town			1948	74	>=40
12024.000	2017	permit	2017			5	<20
12025.000	1900	Town			1900	122	>=40
12026.000	1850	Town			1850	172	>=40
14001.000	2019	permit	2019			3	<20
14002.000	1964	Town			1964	58	>=40
14003.000	2004	private well		2004		18	<20
14003.002	2010	permit	2010	2005		12	<20
14003.003	2004	private well		2004		18	<20
14004.000	2020	permit	2020			2	<20
14005.000	2002	private well		2002		20	>=20
14006.000	2001	private well		2001		21	>=20
14006.500	2006	permit	2006		1800	16	<20
14007.000	2013	Town	2004		2013	9	<20
14009.000	1973	Town			1973	49	>=40
15001.000	land	Town			land	land	land
15003.000	1999	private well		1999		23	>=20
15004.000	1860	Town			1860	162	>=40
15004.100	land	Town			land	land	land
15005.000	1978	private well		1978		44	>=40
15006.000	2006	permit	2006	1969		16	<20
15006.100	1973	private well		1973		49	>=40
15006.200	2006	permit	2006	2006		16	<20

Waitsfield Water & Wastewater Feasibility Study: Estimated Wastewater System Ages

MAPID	Assumed WW System Install Yr	Source	Permit Year	Private Well Year	Town Info Year	Approximate WW System Age (years)	WW Age Category
15007.500	1975	private well		1975		47	>=40
15009.000	1979	Town			1979	43	>=40
15010.000	1981	Town			1981	41	>=40
15011.000	1980	Town			1980	42	>=40
15012.000	1978	Town			1978	44	>=40
15013.000	1978	Town			1978	44	>=40
15014.000	1989	Town			1989	33	>=30
15015.000	1974	private well		1974		48	>=40
15016.000	1997	private well		1997		25	>=20
15017.000	2004	permit	2004	1980		18	<20
15018.000	1980	private well		1980		42	>=40
15019.000	2006	permit	2006	1980		16	<20
15020.000	1988	Town			1988	34	>=30
15021.000	2004	permit	2004	1988		18	<20
15022.000	1997	Town			1997	25	>=20
15023.000	1985	private well		1985		37	>=30
15024.000	2011	permit	2011	1985		11	<20
15025.000	1985	Town			1985	37	>=30
15026.000	2020	permit	2020			2	<20
15027.000	1977	Town			1977	45	>=40
15028.000	1992	Town			1992	30	>=30
15028.100	land	Town			land	land	land
15029.003	2016	permit	2016			6	<20
15030.000	2002	private well		2002		20	>=20
23001.100	2018	permit	2018	1972		4	<20
23001.200	2015	permit	2015	2002		7	<20
23003.000	2018	permit	2018	1972		4	<20
23005.000	2017	permit	2017			5	<20
30001.000	1966	Town			1966	56	>=40
30002.000	1963	Town			1963	59	>=40
30003.000	1965	Town			1965	57	>=40
30004.000	1984	private well		1984		38	>=30
37001.000	1967	Town			1967	55	>=40
37002.000	1999	private well		1999		23	>=20
37003.000	1968	private well		1968		54	>=40
37004.000	1965	Town			1965	57	>=40
37005.000	2019	permit	2019			3	<20
37006.000	1989	private well		1989		33	>=30
37007.000	1991	Town			1991	31	>=30
38001.000	1838	Town			1838	184	>=40
38002.000	2004	permit	2004	1995		18	<20
38003.000	1857	Town			1857	165	>=40
38004.000	1989	permit	1989		1990	33	>=30
38005.000	2013	permit	2013			9	<20
38006.000	1840	Town			1840	182	>=40
38008.000	2008	permit	2008	1977		14	<20
38009.000	1972	private well		1972		50	>=40
38010.000	1982	private well		1982		40	>=40
45001.000	land	private well		1995		land	land
45002.000	1965	Town			1965	57	>=40
45003.000	1973	Town			1973	49	>=40
45004.000	1976	Town			1976	46	>=40
45005.000	1965	Town			1965	57	>=40
45006.000	1973	Town			1973	49	>=40
45007.000	1995	private well		1995		27	>=20
45008.000	2002	Town			2002	20	>=20
45009.000	1975	Town			1975	47	>=40
45010.000	land	Town			land	land	land

Waitsfield Water & Wastewater Feasibility Study: Estimated Wastewater System Ages

MAPID	Assumed WW System Install Yr	Source	Permit Year	Private Well Year	Town Info Year	Approximate WW System Age (years)	WW Age Category
45011.000	1972	Town			1972	50	>=40
45012.000	1965	Town			1965	57	>=40
45013.000	<1978	Town			<1978	45	>=40
45014.000	2019	private well		2019		3	<20
45015.000	2012	permit	2012			10	<20
99031.000	2020	permit	2020	1982	1800	2	<20
99033.000	1969	Town			1969	53	>=40
99035.000	not available	Town			not available	not available	not available
99036.000	not available	Town			not available	not available	not available
99037.000	land	private well		1970		land	land
99038.000	2006	private well		2006		16	<20
99040.000	2009	permit	2009	1979		13	<20
99041.000	1977	Town			1977	45	>=40
99042.000	1979	private well		1979		43	>=40
99043.000	1961	Town			1961	61	>=40
99044.000	1946	Town			1946	76	>=40
99045.000	1979	Town			1979	43	>=40
99046.000	2008	permit	2008	1968		14	<20
99046.001	2001	permit	2001			21	>=20
99046.050	2014	permit	2014		2015	8	<20
99046.100	1971	private well		1971		51	>=40
99047.000	1995	permit	1995			27	>=20
99048.000	1946	Town			1946	76	>=40
99049.000	2002	permit	2002	1966		20	>=20
99050.000	2005	permit	2005			17	<20
99051.000	1990	permit	1990			32	>=30
99051.100	1991	permit	1991		1970	31	>=30
99051.200	1982	Town			1982	40	>=40
99052.000	1996	permit	1996			26	>=20
99053.000	1960	Town			1960	62	>=40
99054.000	2016	permit	2016			6	<20
99055.000	1850	Town			1850	172	>=40
99056.000	not available	Town			not available	not available	not available
99057.000	2010	permit	2010	1981		12	<20
99058.000	1845	Town			1845	177	>=40
99059.000	1820	Town			1820	202	>=40
99060.000	1999	permit	1999			23	>=20
99061.000	2019	permit	2019			3	<20
99062.000	1993	permit	1993			29	>=20
99063.000	land	Town			land	land	land
99064.000	2022	permit	2022			0	<20
99065.000	2014	permit	2014			8	<20
99066.000	1834	Town			1834	188	>=40
99067.000	2006	permit	2006			16	<20
99068.000	1920	Town			1920	102	>=40
99069.000	1840	Town			1840	182	>=40
99070.000	2001	permit	2001			21	>=20
99071.000	1865	Town			1865	157	>=40
99072.000	2014	permit	2014	1972		8	<20
99073.000	land	Town			land	land	land
99101.000	land	Town			land	land	land
99102.000	1990	permit	1990		1845	32	>=30
99103.000	1979	private well		1979		43	>=40
99104.000	1982	permit (Act 250)	1982		1812	40	>=40
99105.000	1900	Town			1900	122	>=40
99107.000	1967	private well		1967		55	>=40
99108.000	2009	permit	2009	1985		13	<20
99109.100	1840	Town			1840	182	>=40

Waitsfield Water & Wastewater Feasibility Study: Estimated Wastewater System Ages

MAPID	Assumed WW System Install Yr	Source	Permit Year	Private Well Year	Town Info Year	Approximate WW System Age (years)	WW Age Category
99110.000	1991	private well		1991		31	>=30
99111.000	2009	permit	2009			13	<20
99112.000	2021	Town			2021	1	<20
99113.000	1860	Town			1860	162	>=40
99114.000	<1986	Town			<1986	37	>=30
99115.000	1850	Town			1850	172	>=40
99116.000	1992	private well		1992		30	>=30
99117.000	<1985	Town			<1985	38	>=30
99118.000	1972	Town			1972	50	>=40
99119.000	1988	Town			1988	34	>=30
99120.000	<1973	Town			<1973	50	>=40
99121.000	1999	permit	1999	1970		23	>=20
99122.000	land	Town			land	land	land
99123.000	2010	permit	2010			12	<20
99123.100	2015	permit	2015	2002		7	<20
99125.000	1973	private well		1973		49	>=40
99126.000	land	Town			land	land	land
99127.000	1971	private well		1971		51	>=40
99128.000	1972	private well		1972		50	>=40
99128.003	land	Town			land	land	land
99129.000	1989	private well		1989		33	>=30
99130.000	1994	permit	1994	1972		28	>=20
99130.100	1997	private well		1997		25	>=20
99131.000	2019	permit	2019	1971		3	<20
99132.000	<1971	Town			<1971	52	>=40
99133.000	2016	permit	2016			6	<20
99135.000	land	Town			land	land	land
99136.000	1982	Town		1999	1982	40	>=40
99138.000	1977	private well		1977		45	>=40
99139.000	2012	permit	2012	1984		10	<20
99140.000	1988	private well		1988		34	>=30
99141.000	1976	private well		1976		46	>=40
99142.000	1969	private well		1969		53	>=40
99143.000	1999	permit	1999			23	>=20
99144.000	2017	permit	2017	2006		5	<20
99145.000	1890	Town			1890	132	>=40
99146.001	2011	permit	2011	1971		11	<20
99147.000	2015	permit	2015			7	<20
99149.000	2017	permit	2017			5	<20
99152.000	2019	permit	2019	1973		3	<20
99153.000	2019	permit	2019			3	<20
99156.000	1983	Town			1983	39	>=30
99157.000	land	Town			land	land	land
99158.000	1850	Town			1850	172	>=40
99159.000	2020	permit	2020	1972		2	<20
99160.000	1973	private well		1973		49	>=40
99161.000	2015	permit	2015			7	<20
99164.000	2002	permit	2002			20	>=20
99168.100	2016	permit	2016	1996		6	<20
99169.000	2016	permit	2016	2002		6	<20
99170.000	1995	permit	1995			27	>=20
99171.000	2018	permit	2018			4	<20
99172.000	1850	Town			1850	172	>=40
99172.100	2017	permit	2017			5	<20
99173.000	2001	permit	2001			21	>=20
99175.000	2001	permit	2001			21	>=20
99176.000	2001	permit	2001			21	>=20
99177.000	2001	permit	2001			21	>=20

Waitsfield Water & Wastewater Feasibility Study: Estimated Wastewater System Ages

MAPID	Assumed WW System Install Yr	Source	Permit Year	Private Well Year	Town Info Year	Approximate WW System Age (years)	WW Age Category
99178.000	2001	permit	2001			21	>=20
99180.000	land	Town			land	land	land
99181.000	land	Town			land	land	land
99182.000	1978	private well		1978		44	>=40
99183.000	2006	permit	2006	1983		16	<20
99183.200	1840	Town			1840	182	>=40
99183.300	land	Town			land	land	land
99184.000	2013	permit	2013	1981		9	<20
99185.000	2006	permit	2006	1991		16	<20
99185.100	2001	private well		2001		21	>=20
99186.000	land	Town			land	land	land
99187.000	not available	Town			not available	not available	not available
99188.000	2017	permit	2017		1965	5	<20
99189.000	not available	Town			not available	not available	not available
99190.000	land	Town			land	land	land
99191.000	1999	permit	1999	1968		23	>=20
99192.000	land	Town			land	land	land
99194.000	land	Town			land	land	land
99195.000	1983	private well		1983		39	>=30
99197.000	2015	permit	2015	1974		7	<20
99197.100	1979	private well		1979		43	>=40
99198.000	1979	Town			1979	43	>=40
99199.000	<1978	Town			<1978	45	>=40
99200.000	1972	Town			1972	50	>=40
99201.003	1996	permit	1996	1967		26	>=20
99202.000	1968	Town			1968	54	>=40
99203.000	1991	private well		1991		31	>=30
99204.000	1971	Town			1971	51	>=40
99205.000	land	Town			land	land	land
99206.000	2001	permit	2001	2002		21	>=20

APPENDIX E

Waitsfield Water & Wastewater Feasibility Study: Existing Wastewater Demand					Existing Wastewater Needs	
MapID	E911 Address	Property Desc.	Parcel Cat	Source - Assumed Existing WW	Existing WW Demand	Notes (existing land use)
01001.000	4391 MAIN ST	LIBRARY A	Commercial	permit	355	Shared permit with Town offices - flow shown is the total for both
01002.000	27 BRIDGE ST	.5 DWL & SHOP	Residential-1	permit	1200	
01003.000	45 BRIDGE ST	1. A; COMM BLDG	Commercial	permit	100	
01004.000	20 BRIDGE ST	0.26 A; COMM BDG	Commercial	WC GPD	310	
03043.000	903 NORTH RD	0.5 A;DWL; CAMP	Residential-1	parcel cat	210	
03055.021	WHITE PINE DEVELOPMENT LOT 21	3.2A	Miscellaneous	assume 0	0	
12000.000	26 OLD COUNTY RD	1 A; DWL	Residential-1	parcel cat	210	
12001.000	75 OLD COUNTY RD	1 A; DWL	Residential-1	parcel cat	210	
12001.100	153 OLD COUNTY RD	3.5A; DWL	Residential-1	permit	770	
12002.000	72 DEERFIELD DRIVE	1.79 A; DWL	Residential-1	permit	1400	
12002.100	40 DEERFIELD DRIVE	1.05 A; DWL	Residential-1	included in another parcel	0	assume included in #12002.000
12002.200	38 DEERFIELD DRIVE	1.06A; DWL	Residential-1	included in another parcel	0	assume included in #12002.000
12003.000	152 OLD COUNTY RD	25 A; DWL	Residential-2	parcel cat	210	
12004.000	120 OLD COUNTY RD	1 A; DWL	Residential-1	parcel cat	210	
12005.000	247 OLD COUNTY RD	1 A; DWL	Residential-1	parcel cat	210	
12006.000	307 OLD COUNTY RD	1.04 A; DWL	Residential-1	parcel cat	210	
12007.000	309 OLD COUNTY RD	1.9 A; DWL/APT	Residential-1	parcel cat	210	
12008.000	271 OLD COUNTY RD	1.2 A; DWL	Residential-1	parcel cat	210	
12009.000	278 OLD COUNTY RD	1.86 A; DWL	Residential-1	parcel cat	210	
12010.000	333 OLD COUNTY RD	2 A; DWL	Residential-1	parcel cat	210	
12011.000	300 OLD COUNTY RD	0.7 A; DWL	Residential-1	parcel cat	210	
12012.000	363 OLD COUNTY RD	1 A; DWL	Residential-1	parcel cat	210	
12013.000	348 OLD COUNTY RD	1.26 A; DWL	Residential-1	parcel cat	210	
12014.000	74 BRIGHTENBACK LN	4.2 A; DWL	Residential-1	parcel cat	210	
12016.000	447 OLD COUNTY RD	5.3 A; DWL	Residential-1	permit	630	
12017.000	376 OLD COUNTY RD	0.7 A; DWL	Residential-1	parcel cat	210	
12018.000	39 BRIGHTENBACK LN	1 A; DWL	Residential-1	parcel cat	210	
12019.000	73 BRIGHTENBACK LN	6.15 A; DWL	Residential-2	permit	540	
12020.000	550 OLD COUNTY RD	10.2A; B&B	Residential-2	parcel cat	210	
12020.100	215 BRIGHTENBACK LN	28.03A; DWL	Residential-2	parcel cat	210	
12020.200	161 BRIGHTENBACK LN	2.06 A; DWL	Residential-1	parcel cat	210	
12020.300	206 BRIGHTENBACK LN	2.35A DWL	Residential-1	parcel cat	210	
12021.000	615 OLD COUNTY RD	0.38 A; DWL	Residential-1	parcel cat	210	
12022.000	648 OLD COUNTY RD	2 A; DWL	Residential-1	parcel cat	210	
12023.000	705 OLD COUNTY RD	1 A; DWL	Seasonal-1	parcel cat	210	
12024.000	664 OLD COUNTY RD	1.5 A; DWL	Residential-1	permit	630	
12025.000	690 OLD COUNTY RD	1 A; DWL	Seasonal-1	parcel cat	210	
12026.000	756 OLD COUNTY RD	1 A; DWL	Residential-1	parcel cat	210	
14001.000	24 OLD CENTER FAYSTON RD	1.04 A; DWL	Residential-1	permit	490	
14002.000	89 OLD CENTER FAYSTON RD	0.62 A; DWL	Residential-1	parcel cat	210	
14003.000	169 OLD CENTER FAYSTON RD	DWL: 3.84A;	Residential-1	parcel cat	210	
14003.002	131 OLD CENTER FAYSTON RD	1.43 A & DBL WIDE	Mobile Home/la	permit	420	
14003.003	127 OLD CENTER FAYSTON RD	1.21A; DWL	Residential-1	parcel cat	210	
14004.000	195 OLD CENTER FAYSTON RD	1.2 A; DWL	Residential-1	permit	420	

Waitsfield Water & Wastewater Feasibility Study: Existing Wastewater Demand					Existing Wastewater Needs	
MapID	E911 Address	Property Desc.	Parcel Cat	Source - Assumed Existing WW	g WW Demand	Notes (existing land use)
14005.000	176 OLD CENTER FAYSTON RD	1.75 A;DWL	Residential-1	parcel cat	210	
14006.000	227 OLD CENTER FAYSTON RD	5.5A; DWL	Residential-1	parcel cat	210	
14006.500	223 OLD CENTER FAYSTON RD	2.3 A; DWL	Residential-1	permit	420	
14007.000	264 OLD CENTER FAYSTON RD	1.44 A	Residential-1	permit	420	
14009.000	324 OLD CENTER FAYSTON RD	1.4A; CAMP	Residential-1	parcel cat	210	
15001.000	TREMBLAY RD	0.94 ACRES	Miscellaneous	assume 0	0	
15003.000	98 TREMBLAY RD	3 A; DWL	Residential-1	parcel cat	210	
15004.000	243 TREMBLAY RD	4.23; INN	Commercial	WC GPD	450.8	
15004.100	TREMBLAY RD	2.2A	Miscellaneous	assume 0	0	
15005.000	68 VILLAGE WOODS	8 A; DWL	Residential-2	parcel cat	210	
15006.000	117 VILLAGE WOODS	4.3 A; DWL	Residential-1	permit	980	
15006.100	203 VILLAGE WOODS	2.64 A; DWL	Residential-1	parcel cat	210	
15006.200	324 TREMBLAY RD	2.1A MH & GRG	Mobile Home/la	included in another parcel	0	
15007.500	168 VILLAGE WOODS	28A DWL	Residential-2	parcel cat	210	
15009.000	236 VILLAGE WOODS	2.0 A; DWL	Residential-1	parcel cat	210	
15010.000	307 VILLAGE WOODS	2.8 A; DWL	Residential-1	parcel cat	210	
15011.000	342 VILLAGE WOODS	3.7 A; DWL	Residential-1	parcel cat	210	
15012.000	329 VILLAGE WOODS	2.1 A; DWL	Residential-1	parcel cat	210	
15013.000	447 VILLAGE WOODS	1.9 A; DWL	Residential-1	parcel cat	210	
15014.000	474 VILLAGE WOODS	3.1 A; DWL	Residential-1	parcel cat	210	
15015.000	563 VILLAGE WOODS	4.1 A; DWL	Residential-1	parcel cat	210	
15016.000	565 VILLAGE WOODS	8.6A; DWL	Residential-2	parcel cat	210	
15017.000	617 VILLAGE WOODS	7.3 A DWL	Residential-2	permit	490	
15018.000	660 VILLAGE WOODS	10 A; DWL	Residential-2	parcel cat	210	
15019.000	646 VILLAGE WOODS	4.9 A DWL	Residential-1	permit	420	
15020.000	562 VILLAGE WOODS	LOT 9; 3.4A; DWL	Seasonal-1	parcel cat	210	
15021.000	TREMBLAY RD	10.7 A; VERD-MONT PARK	Commercial	permit	3770	
15022.000	363 TREMBLAY RD	0.4 A; DWL	Residential-1	parcel cat	210	
15023.000	416 TREMBLAY RD	3.24 A; MH	Mobile Home/la	parcel cat	210	
15024.000	127 YORK DR	3.2 A; DWL	Residential-1	permit	490	
15025.000	175 YORK DR	2.3 A; DWL	Residential-1	parcel cat	210	
15026.000	177 YORK DR	1.2 A; DWL	Residential-1	permit	420	
15027.000	201 YORK DR	1.3 A; DWL	Residential-1	parcel cat	210	
15028.000	269 WHITE PINE DR	10.9A; DWL	Residential-2	parcel cat	210	
15028.100	WHITE PINE DR	3.2 A	Miscellaneous	assume 0	0	
15029.003	742 NORTH RD	12.25 A	Miscellaneous	permit	420	
15030.000	761 TREMBLAY RD	10.8A; TOWN SHED	Commercial	calculations	90	calc: assume up to 6 road crew; 15 gpd per employee
23001.100	48 CARROLL RD	1 A; MOVIE THEATHE	Commercial	permit	1938	
23001.200	98 CARROLL RD	1.52A; COMM	Commercial	permit	431	
23003.000	155 CARROLL RD	9.64 A; COMM BLDG	Commercial	permit	4523	
23005.000	154 CARROLL RD	2.11 A; LUMBER SUPPLY	Commercial	permit	108	Owner per GIS = NELLA 154 LLC and C/O FHS Holdings LLC
30001.000	67 KINGSBURY RD	0.9 A; DWL	Residential-1	parcel cat	210	
30002.000	148 KINGSBURY RD	0.6 A; DWL/OFFICE	Residential-1	parcel cat	210	
30003.000	192 KINGSBURY RD	3.25 A; DWL	Residential-1	parcel cat	210	
30004.000	240 KINGSBURY RD	40 A; DWL	Residential-2	parcel cat	210	

Waitsfield Water & Wastewater Feasibility Study: Existing Wastewater Demand					Existing Wastewater Needs	
MapID	E911 Address	Property Desc.	Parcel Cat	Source - Assumed Existing WW	Existing WW Demand	Notes (existing land use)
37001.000	45 PARSONAGE LN	0.75 A; APT BLDG	Commercial	WC GPD	1120	
37002.000	55 PARSONAGE LN	0.5 A; PARSONAGE	Residential-1	parcel cat	210	Owner per GIS = Waitsfield United Church of Christ
37003.000	47 MEHURON DR	0.6 A; DWL	Residential-1	parcel cat	210	
37004.000	60 MEHURON DR	0.7 A; DWL	Residential-1	parcel cat	210	
37005.000	115 MEHURON DR	1.6 A; DWL	Residential-1	permit	420	
37006.000	155 MEHURON DR	17 A; DWL	Residential-2	parcel cat	210	
37007.000	157 MEHURON DR	17 A; DWL	Residential-2	parcel cat	210	
38001.000	156 DUGWAY RD	1.41 A; OFFICE/ 4 APTS	Commercial	calculations	1365	calc: office (245) + 4 apartments (assume 2 bedrooms each x 140 gpd/bedroom)
38002.000	152 DUGWAY RD	1.11 A; DWL	Residential-1	permit	490	
38003.000	112 DUGWAY RD	0.86 A; DWL/APT	Residential-1	parcel cat	210	
38004.000	100 DUGWAY RD	1.07 A; COMMON LAND	Miscellaneous	permit	1800	
38005.000	106 DUGWAY RD	0.21 A; DWL	Residential-1	permit	140	
38006.000	58 DUGWAY RD	0.86 A; DWL	Residential-1	parcel cat	210	
38008.000	144 BUTCHER HOUSE DR	7.33 A; 24 APT UNITS	Commercial Apt	permit	1260	
38009.000	118 BUTCHER HOUSE DR	10.31 A; DWL	Residential-2	parcel cat	210	
38010.000	49 BUTCHER HOUSE DR	1 A; STORAGE BARN	Miscellaneous	calculations	210	assume same as one res.
45001.000	TREMBLAY RD	020000	Woodland	assume 0	0	
45002.000	115 PINE BROOK RD	1.3 A; DWL	Residential-1	parcel cat	210	
45003.000	151 PINE BROOK RD	1.3 A; DWL	Seasonal-1	parcel cat	210	
45004.000	181 PINE BROOK RD	1.2 A; DWL	Residential-1	parcel cat	210	
45005.000	271 PINE BROOK RD	1.23 A; DWL	Residential-1	parcel cat	210	
45006.000	279 PINE BROOK RD	1.27 A; DWL	Residential-1	parcel cat	210	
45007.000	336 PINE BROOK RD	1.2 A; DWL	Residential-1	parcel cat	210	
45008.000	334 PINE BROOK RD	1.3 A; DWL	Residential-1	parcel cat	210	
45009.000	320 PINE BROOK RD	1.1 A; DWL	Residential-1	parcel cat	210	
45010.000	PINE BROOK RD	3.2A; COMMON LAND	Miscellaneous	assume 0	0	
45011.000	262 PINE BROOK RD	1.2 A; DWL	Residential-1	parcel cat	210	
45012.000	242 PINE BROOK RD	1.1 A; DWL	Residential-1	parcel cat	210	
45013.000	CONFIDENTIAL	1.1 A; DWL	Residential-1	parcel cat	210	
45014.000	80 PINE BROOK RD	1.6 A; DWL	Residential-1	parcel cat	210	
45015.000	78 PINE BROOK RD	1.6 A; DWL	Residential-1	permit	420	
99031.000	2758 MAIN ST	129.0 A; FARM/APT	Farm	permit	420	
99033.000	57 ARMSTRONG RD	5 A; & DWLS & MH	Residential-1	parcel cat	210	
99035.000	3224 MAIN ST	1.5 A; GAS DEPOT	Commercial	calculations	60	calc: assume 4 employees at 15 gpd/person
99036.000	3399 MAIN ST	2.75 A	Miscellaneous	calculations	300	calc: assume 90 gpd for store and 210 gpd for a residence
99037.000	3292 MAIN ST	74.2 A	Woodland	assume 0	0	
99038.000	3328 MAIN ST	3.51 A; DWL	Residential-1	parcel cat	210	
99040.000	3337 MAIN ST	45 A; DWL/COMM	Commercial	permit	420	
99041.000	3491 MAIN ST	2 A;DWL	Residential-1	parcel cat	210	
99042.000	3489 MAIN ST	3.2 A; DWL/COMM BLDG	Residential-1	parcel cat	210	
99043.000	3534 MAIN ST	0.7 A; DWL/APT	Seasonal-1	parcel cat	210	
99044.000	3596 MAIN ST	2.3 A; DWL	Residential-1	parcel cat	210	
99045.000	3693 MAIN ST	4 A; DWL	Residential-1	parcel cat	210	
99046.000	4242 MAIN ST	64.77 A; DWL	Residential-2	permit	840	
99046.001	4200 MAIN ST	0.62A; COMMON LAND....	Miscellaneous	permit	1050	

Waitsfield Water & Wastewater Feasibility Study: Existing Wastewater Demand					Existing Wastewater Needs	
MapID	E911 Address	Property Desc.	Parcel Cat	Source - Assumed Existing WW	gpd	Notes (existing land use)
99046.050	4144 MAIN ST	0.85 A OFFICE	Commercial	included in another parcel	0	permitted flow is included in parcel #01001.000
99046.100	MAIN ST	158 A	Miscellaneous	assume 0	0	
99047.000	3898 MAIN ST	31.2 A; OFFICE BLDG	Commercial	permit	1650	
99048.000	3962 MAIN ST	0.26 A; DWL	Residential-1	parcel cat	210	
99049.000	4036 MAIN ST	2 A; COMM BLDG	Commercial	permit	150	
99050.000	859 OLD COUNTY RD	1 A; HEALTH CTR	Commercial	permit	1360	
99051.000	3951 MAIN ST	7.7 A; SCHOOL	Commercial	permit	4500	
99051.100	4103 MAIN ST	1.3 A; COMM	Commercial	permit	5000	Town broke down into 2 rows
du 99051.100	4103 MAIN ST	1.3 A; COMM	Commercial	included in another parcel	0	Town broke down into 2 rows, WW demand shown in row above.
99051.200	4125 MAIN ST	0.7A; COMMON LAND	Miscellaneous	WC GPD	1400	
99052.000	4061 MAIN ST	0.97; WAIT HOUSE	Commercial	permit	270	
99053.000	4102 MAIN ST	0.5 A; DWL	Residential-1	parcel cat	210	
99054.000	4124 MAIN ST	0.23 A; DWL	Residential-1	permit	420	
99055.000	4147 MAIN ST	0.36 A; COM BLDG/1 APT	Commercial	calculations	370	calc: canoe shop 90 gpd for store plus apartment 280 gpd (assuming 2 BR)
99056.000	4167 MAIN ST	0.25 A; DWL	Residential-1	parcel cat	210	
99057.000	4177 MAIN ST	2.61 A; COMM	Commercial	permit	500	
99058.000	4199 MAIN ST	0.67 A; DWL	Residential-1	parcel cat	210	
99059.000	4219 MAIN ST	0.27 A; OFFICE/4APTS	Commercial	calculations	1120	calc: 4 apartments; assume 2 bedrooms each x 140 gpd/bedroom
99060.000	4235 MAIN ST	0.5 A;DWL	Residential-1	permit	600	
99061.000	4261 MAIN ST	0.56 A; DWL	Residential-1	permit	560	
99062.000	4254 MAIN ST	0.49 A; COMMON LAND	Miscellaneous	permit	1150	
99063.000	MAIN ST	.05A; COMMON SITE	Miscellaneous	assume 0	0	
99064.000	4276 MAIN ST	0.63 A; COM BLDG/3APTS	Commercial	permit	1680	
99065.000	4277 MAIN ST	0.62 A; DWL	Residential-1	permit	630	
99066.000	4317 MAIN ST	0.77 A; COM BDG/4 APTS	Commercial	WC GPD	840	
99067.000	4312 MAIN ST	0.78 A; SHOP/DWL	Commercial	permit	695	
99068.000	4324 MAIN ST	0.47 A; 2 COMM BLDGS	Commercial	calculations	210	assume same as one res. (245 for water)
99069.000	4348 MAIN ST	0.5 A; MINIMART/SPT	Commercial	calculations	210	assume same as one res. (245 for water)
99070.000	4366 MAIN ST	0.2 AC & SHOP/ 3 APTS	Commercial	permit	900	
99071.000	4376 MAIN ST	0.06 A; MASONIC HALL	Commercial	calculations	210	assume same as one res. (245 for water)
99072.000	4335 MAIN ST	2.45A; CHURCH	Commercial	permit	1785	
99073.000	MAIN ST	080000	Woodland	assume 0	0	
99101.000	MAIN ST	0.24 A; PARKING LOT	Miscellaneous	assume 0	0	
99102.000	34 FARR LN	0.9 A; COMM BLDG/2APTS	Commercial	permit	480	
99103.000	46 FARR LN	0.5 A; 2 APTS/OFFICES	Commercial	calculations	210	assume same as one res. (245 for water)
99104.000	4402 MAIN ST	0.3 A; OFFICE BLDG	Commercial	calculations	150	calc: assume 10 employees at 15 gpd/employee
99105.000	4412 MAIN ST	0.2 A; COMM BLDG/APT	Commercial	WC GPD	281.75	
99107.000	54 FARR LN	3.16 A; 496 DIAL OFFICE	Commercial	calculations	210	assume same as one res. (245 for water)
99108.000	MAIN ST	2A; COMMON LAND	Miscellaneous	permit	3000	
99109.100	4492 MAIN ST	0.5A DWL	Residential-1	parcel cat	210	
99110.000	4477 MAIN ST	1.6 A; OFICE BLDG	Commercial	calculations	210	assume same as one res. (245 for water)
99111.000	4509 MAIN ST	1 A; DWL	Residential-1	permit	580	

Waitsfield Water & Wastewater Feasibility Study: Existing Wastewater Demand					Existing Wastewater Needs	
MapID	E911 Address	Property Desc.	Parcel Cat	Source - Assumed Existing WW	g WW Demand	Notes (existing land use)
99112.000	4524 MAIN ST	0.22 A; DWL	Residential-1	parcel cat	210	
99113.000	4529 MAIN ST	0.3 A; OFFICE/2 APTS	Commercial	WC GPD	372.4	calc: assume 6 employees at 15 gpd/employee + 2 2BR apartments at 140 gpd per BR
99114.000	4544 MAIN ST	0.25 A; SHED/SHOP	Commercial	calculations	210	assume same as one res. (245 for water)
99115.000	4581 MAIN ST	1.7 A; DWL	Residential-1	parcel cat	210	
99116.000	4576 MAIN ST	1 A; DWL	Residential-1	parcel cat	210	
99117.000	4631 MAIN ST	0.3 A; AUTO REPAIR GAR	Commercial	calculations	210	assume same as one res. (245 for water)
99118.000	118 RADCLIFFE DR	2.3 A; DWL & SHOPS	Residential-1	parcel cat	210	
99119.000	39 RADCLIFFE DR	1.84 A; DWL	Residential-1	parcel cat	210	
99120.000	4740 MAIN ST	1.5 A; COMM	Commercial	WC GPD	420	
99121.000	4752 MAIN ST	2 A; COMM BLDG	Commercial	permit	1040	
99122.000	MAIN ST	2 A; POND LOT	Miscellaneous	assume 0	0	
99123.000	4811 MAIN ST	1.02 DWL	Residential-1	included in another parcel	0	included in #99123.100
99123.100	4805 MAIN ST	1.82 A COMM BLDG	Commercial	permit	1290	
99125.000	4751 MAIN ST	11.6A	Miscellaneous	calculations	210	assume same as one res. (245 for water)
99126.000	MAD RIVER	1.7A; FLOOD PLAIN RIVER LAN	Miscellaneous	assume 0	0	
99127.000	4919 MAIN ST	17.1 A; DWL/SHOP	Residential-2	permit	2000	
99128.000	4976 MAIN ST	2.6A; DWL	Residential-1	parcel cat	210	Owner in GIS = C/O Ohayon Stephane & Jaci M
99128.003	MAIN ST	1.4 A	Miscellaneous	calculations	210	assume same as one res. (245 for water)
99129.000	CARROLL RD	38.59 A	Utilities Elec	assume 0	0	
99130.000	19A&B BAIRD LN	9.1 A; DWL/APT	Residential-2	permit	450	
99130.100	123 BAIRD LN	1.9 A; DWL	Residential-1	parcel cat	210	
99131.000	5123 MAIN ST	3.8 A; SHOPPING CTR.	Commercial	permit	1330	
99132.000	5127 MAIN ST	0.33A; MINI-MART MAP 6A	Commercial	WC GPD	801.15	
99133.000	5121U6 MAIN ST	0.87 A; STORE	Commercial	permit	1125	
99135.000	MAIN ST	3.5 A; CEMETRY	Commercial	assume 0	0	
99136.000	5197 MAIN ST	1.6 A; COMMON LAND	Miscellaneous	WC GPD	360	
99138.000	5267 MAIN ST	1.15 A; WAITSFIELD INN	Commercial	WC GPD	480	
99139.000	5275 MAIN ST	2.5 A; RETAIL STORE	Commercial	permit	250	
99140.000	5285 MAIN ST	1 A; DWL	Residential-1	parcel cat	210	
99141.000	5351 MAIN ST	1.5 A; RESTAURANT/APT	Commercial	WC GPD	882	
99142.000	5070 MAIN ST	2 A; BANK	Commercial	calculations	210	assume same as one res. (245 for water)
99143.000	5086 MAIN ST	0.53 A; COMM BLDG	Commercial	permit	450	
99144.000	5130 MAIN ST	0.73 A; COMM	Commercial	permit	1595	
99145.000	171 SLOW RD	0.6 A; 2 COMM BLDG	Commercial	calculations	210	assume same as one res. (245 for water)
99146.001	40 SLOW RD	5.42A RINK	Residential-1	permit	450	
99147.000	167 MAD RIVER CANOE RD	3.53 A; IND BLDGS	Industrial	permit	1500	Owner in GIS = Irasville Incubator & Storage LLC
no 99148.000	100 MAD RIVER GREEN	3.53 A; IND BLDGS	Industrial	included in another parcel	0	Number shown from Town. In GIS is same parcel as 99152.000
99149.000	89 MAD RIVER GREEN	0.18 A; RETAIL	Commercial	permit	450	
99152.000	100 MAD RIVER GREEN	16.94 A; SHOPPING CTR	Commercial	permit	12484	
99153.000	139 POST OFFICE RD	.76 A	Miscellaneous	permit	420	
99156.000	165 POST OFFICE RD	1.25 A; DWL	Seasonal-1	parcel cat	210	
99157.000	SLOW RD	0.6 A;	Miscellaneous	assume 0	0	
99158.000	5274 MAIN ST	0.2 A; COMMON LAND	Miscellaneous	WC GPD	406.7	
99159.000	5308 MAIN ST	0.9 A; AFFORDABLE HOUSING	Commercial	permit	1875	

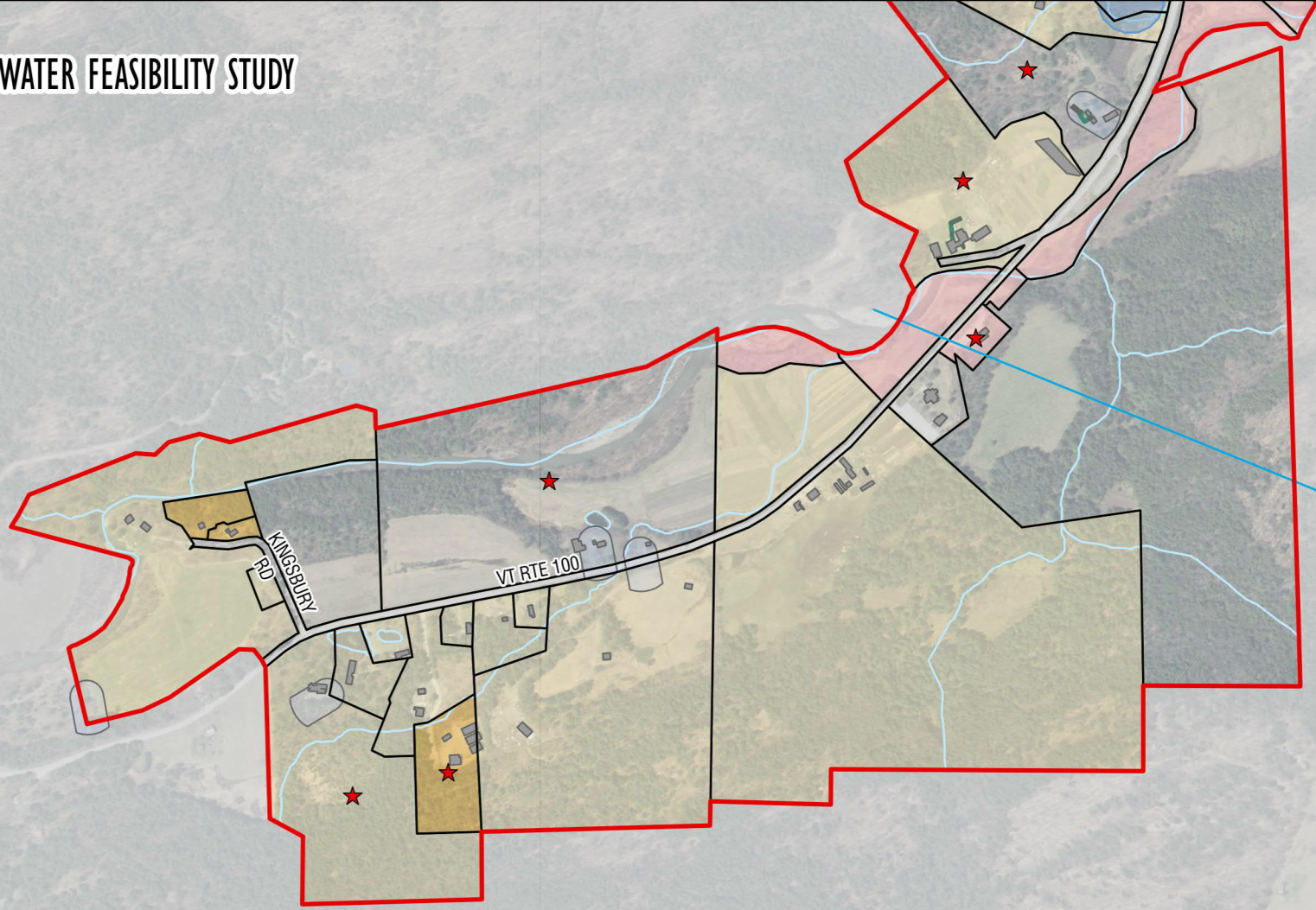
Waitsfield Water & Wastewater Feasibility Study: Existing Wastewater Demand

Waitsfield Water & Wastewater Feasibility Study: Existing Wastewater Demand					Existing Wastewater Needs	
MapID	E911 Address	Property Desc.	Parcel Cat	Source - Assumed Existing WW	Existing WW Demand Notes (existing land use)	
99160.000	5354 MAIN ST	1.4 A; COMM BLDG & DWL	Commercial	WC GPD	352.8	
99161.000	5358 MAIN ST	1.09 A; COMM BLDG	Commercial	permit	1570	
99164.000	8 VT RTE 17	0.9 A; COMM REST	Commercial	permit	4950	
99168.100	MAIN ST	3.7 A BARN	Residential-1	included in another parcel	0	included in #99169.000
99169.000	9 VT RTE 17	2. A; RETAIL/4APTS	Commercial	assume 0	0	Town broke down into 2 rows. Included in row below.
99169.000	9 VT RTE 17	2. A; RETAIL/4APTS	Commercial	permit	3450	Town broke down into 2 rows
99170.000	5513 MAIN ST	0.48 A; OFFICE/APT	Commercial	permit	450	
99171.000	5523 MAIN ST	0.4 A; OFFICE BLDG	Commercial	permit	248	
99172.000	5527 MAIN ST	0.3 A; COMM BLDG/APT	Commercial	calculations	210	assume same as one res. (245 for water)
99172.100	41 DUGWAY RD	0.2 A; OFFICE BLDG	Commercial	permit	135	
99173.000	49 FIDDLERS GREEN	4.08 A; OFFICE BLDG	Commercial	permit	770	
99175.000	168 FIDDLERS GREEN	1.77 A; LAUNDRAMAT	Commercial	permit	500	
99176.000	156 FIDDLERS GREEN	0.86 A; COMM BLDG/APT	Commercial	permit	324	
99177.000	138 FIDDLERS GREEN	0.53 A; OFF BLDG/2APTS	Commercial	permit	271	
99178.000	124 FIDDLERS GREEN	0.48 A; CAR WASH	Commercial	permit	41	
99180.000	FIDDLERS GREEN	0.532A; COMMON LAND	Miscellaneous	assume 0	0	
99181.000	FIDDLERS GREEN	0.484A; COMMON LAND	Miscellaneous	calculations	210	assume same as one res. (245 for water)
99182.000	5730 MAIN ST	4.3 A; DWL	Residential-1	parcel cat	210	
99183.000	5639 MAIN ST	3.3A; DWL	Residential-1	permit	144	
99183.200	5677 MAIN ST	1.2A; COMM BLDG	Commercial	calculations	90	calc: assume 6 employees at 15 gpd/employee
99183.300	MAIN ST	4.9A	Miscellaneous	assume 0	0	
99184.000	169 EAGLES RD	8.39 A; 16 TIMESHRE UN	Seasonal-2	permit	4157	
99185.000	5864 MAIN ST	20.29A; INN	Commercial	permit	1200	
99185.100	5862 MAIN ST	11.2A; DWL	Residential-2	parcel cat	210	
99186.000	5919 MAIN ST	6.5 A; SWIMMING HOLE	Miscellaneous	assume 0	0	
99187.000	MAIN ST	1 ACRE	Commercial	calculations	200	calc: assume 200 seats at 1 gpd per seat
99188.000	6163 MAIN ST	1.5 A; MIXED USES	Commercial	permit	4050	
99189.000	6305 MAIN ST	3.5 A; CHURCH	Commercial	calculations	200	calc: assume 200 seats at 1 gpd per seat
99190.000	MAIN ST	125 A	Woodland	assume 0	0	
99191.000	46 LAREAU RD	24.41 A; LAREAU FARM INN	Commercial	permit	2250	
99192.000	MAIN ST	040000	Miscellaneous	assume 0	0	
99194.000	MAIN ST	2.5 A; LANDLOCKED	Miscellaneous	assume 0	0	
99195.000	6405 MAIN ST	117.1 A; FARM & GARAGE	Farm	calculations	210	
99197.000	6710 MAIN ST	53.4 A; 2 DWLS	Residential-2	permit	910	
99197.100	6695 MAIN ST	46.1A; DWL	Residential-2	parcel cat	210	
99198.000	6797 MAIN ST	1 A; 3 APT DWL	Commercial	calculations	560	calc: assume 2 2 BR apartments at 140 gpd/apartment
99199.000	6799 MAIN ST	3.1 A; POLE SHED	Commercial	calculations	210	listed as pole shed. Assume same WW as 1 res.
99200.000	6869 MAIN ST	1 A; DUPLEX	Residential-1	parcel cat	210	
99201.003	MAIN ST	LOT 3; 6.3 A	Commercial	permit	750	
99202.000	6969 MAIN ST	1.5 A; VET OFFICE	Commercial	calculations	90	calc: assume 6 employees at 15 gpd/employee
99203.000	6911 MAIN ST	5.89 A; TRANSFER STATION	Commercial	included in another parcel	0	Assume included in 99201.003
99204.000	6971 MAIN ST	3.5 A; COMMON LAND	Miscellaneous	calculations	90	calc: assume 6 employees at 15 gpd/employee
99205.000	MAIN ST	12.2 A	Miscellaneous	assume 0	0	
99206.000	6973 MAIN ST	27.65 A BLDG; COMM	Commercial	permit	275	

APPENDIX F

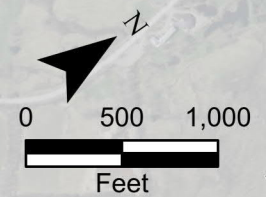
WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY

SCENARIO I: DO NOTHING



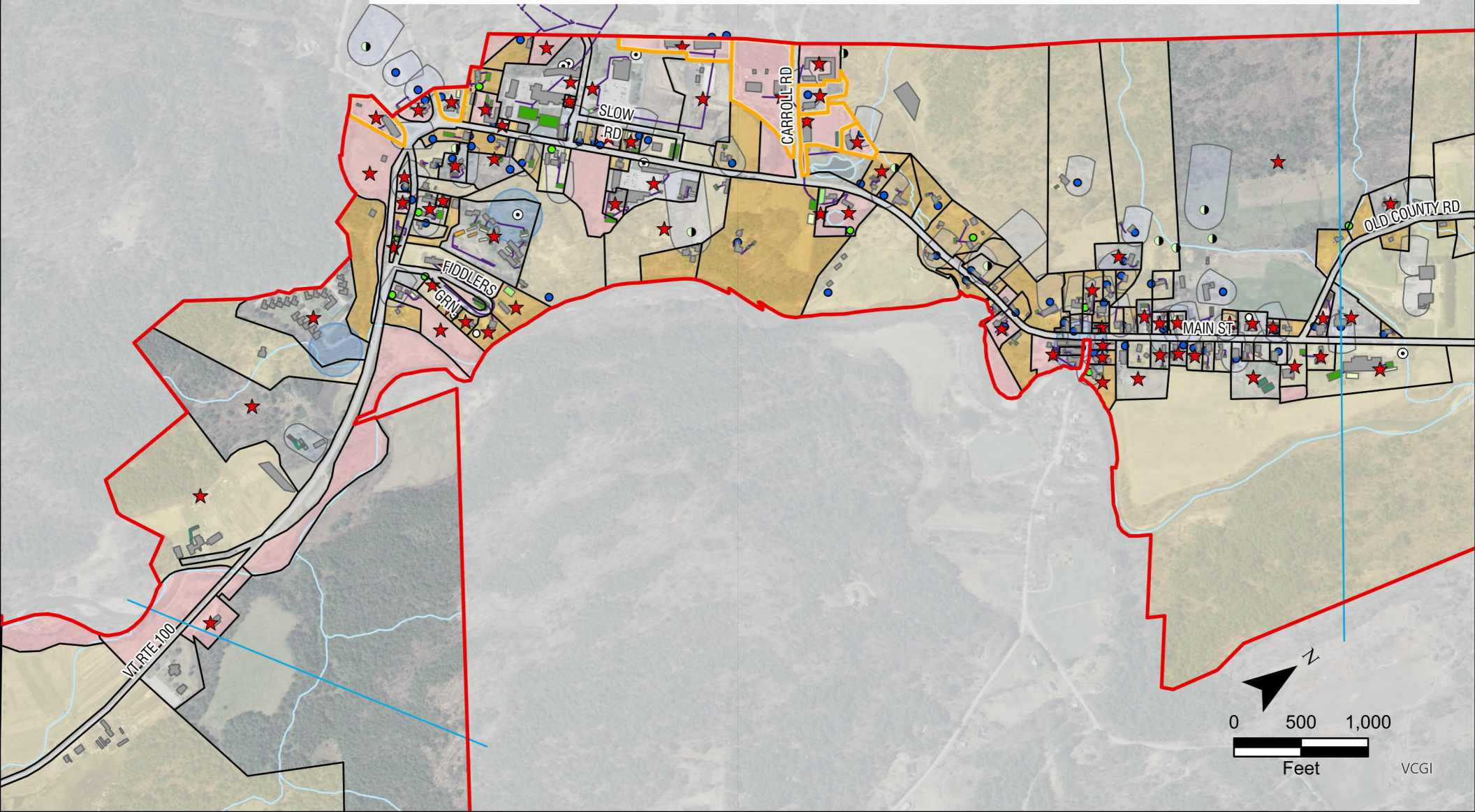
Legend

- | | | |
|--|---|--|
| Project Area | Dug Well or Spring | Mound-Filtrate |
| Layout Sheet Matchlines | Public Water Supply Well | Drywell |
| Parcels - Town-Sponsored Loan Program Participants | Unknown | Replacement Area |
| Parcels | Existing Wastewater Tanks (Stone) | Well Shields |
| Parcels with VT DEC Wastewater Permits | Existing Wastewater Conveyance | Groundwater SPAs (Zone 1) |
| Building Footprints | Existing Leach fields (D&K) | Lakes, Ponds, and Streams |
| Water Supply Wells (Stone Study Area) | Wastewater Disposal System Type (Stone) | Area Limited and Wastewater System > 20 years old |
| Drilled | In-ground (trench or bed) | Wastewater system > 20 years old (parcel is not Area Limited) |
| Drilled shared | At-Grade | Area Limited (parcel does not have wastewater system > 20 years old) |
| Drilled - non potable | Mound | |



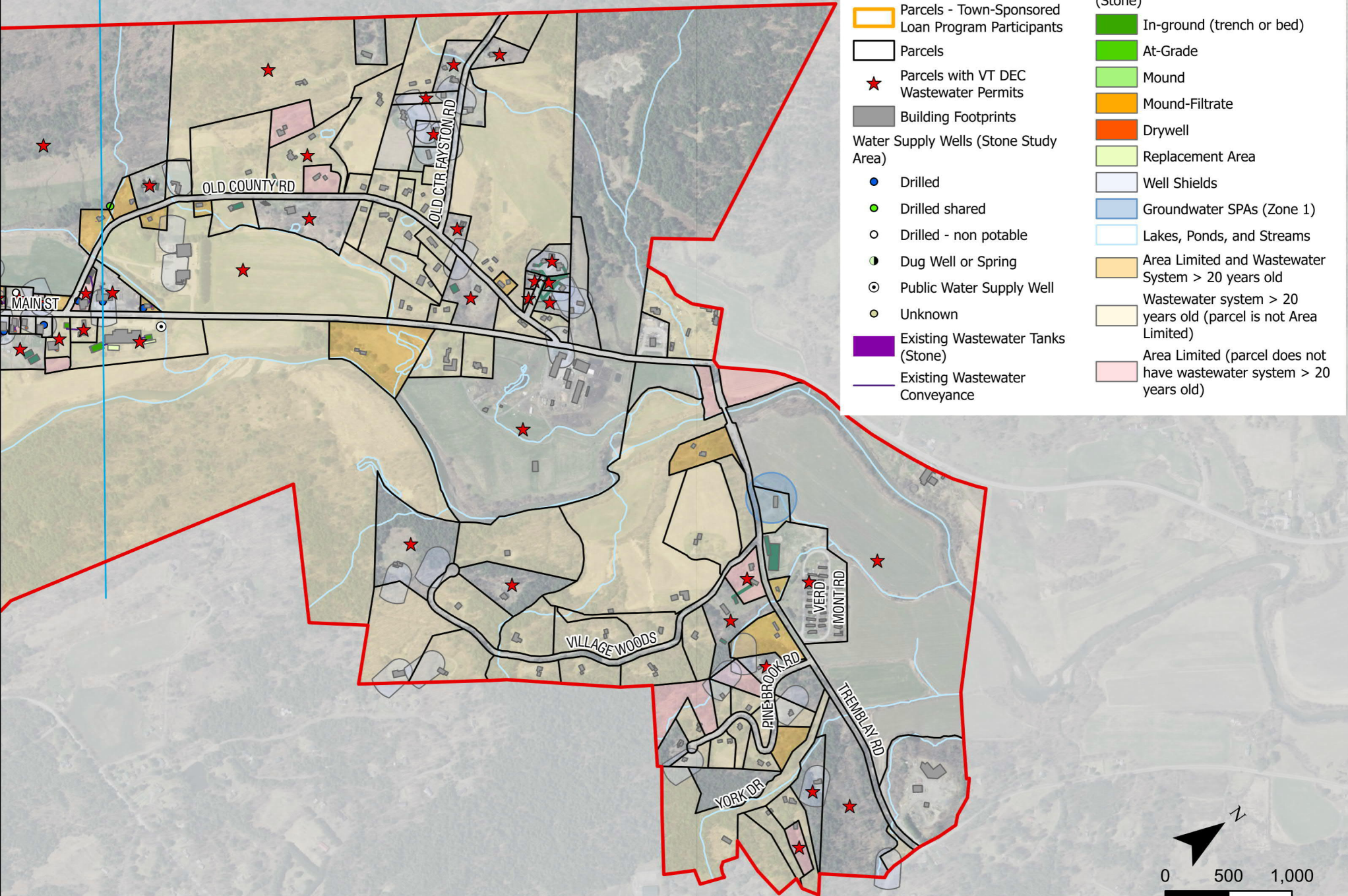
WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY SCENARIO I: DO NOTHING

Project Area	Drilled shared	Wastewater Disposal System Type (Stone)	Lakes, Ponds, and Streams
Layout Sheet Matchlines	Drilled - non potable	In-ground (trench or bed)	Area Limited and Wastewater System > 20 years old
Parcels - Town-Sponsored Loan Program Participants	Dug Well or Spring	At-Grade	Wastewater system > 20 years old (parcel is not Area Limited)
Parcels	Public Water Supply Well	Mound	Area Limited (parcel does not have wastewater system > 20 years old)
Parcels with VT DEC Wastewater Permits	Unknown	Mound-Filtrate	
Building Footprints	Existing Wastewater Tanks (Stone)	Drywell	
Water Supply Wells (Stone Study Area)	Existing Wastewater Conveyance	Replacement Area	
Drilled	Existing Leach fields (D&K)	Well Shields	
		Groundwater SPAs (Zone 1)	

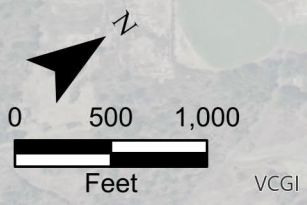


WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY

SCENARIO 1: DO NOTHING

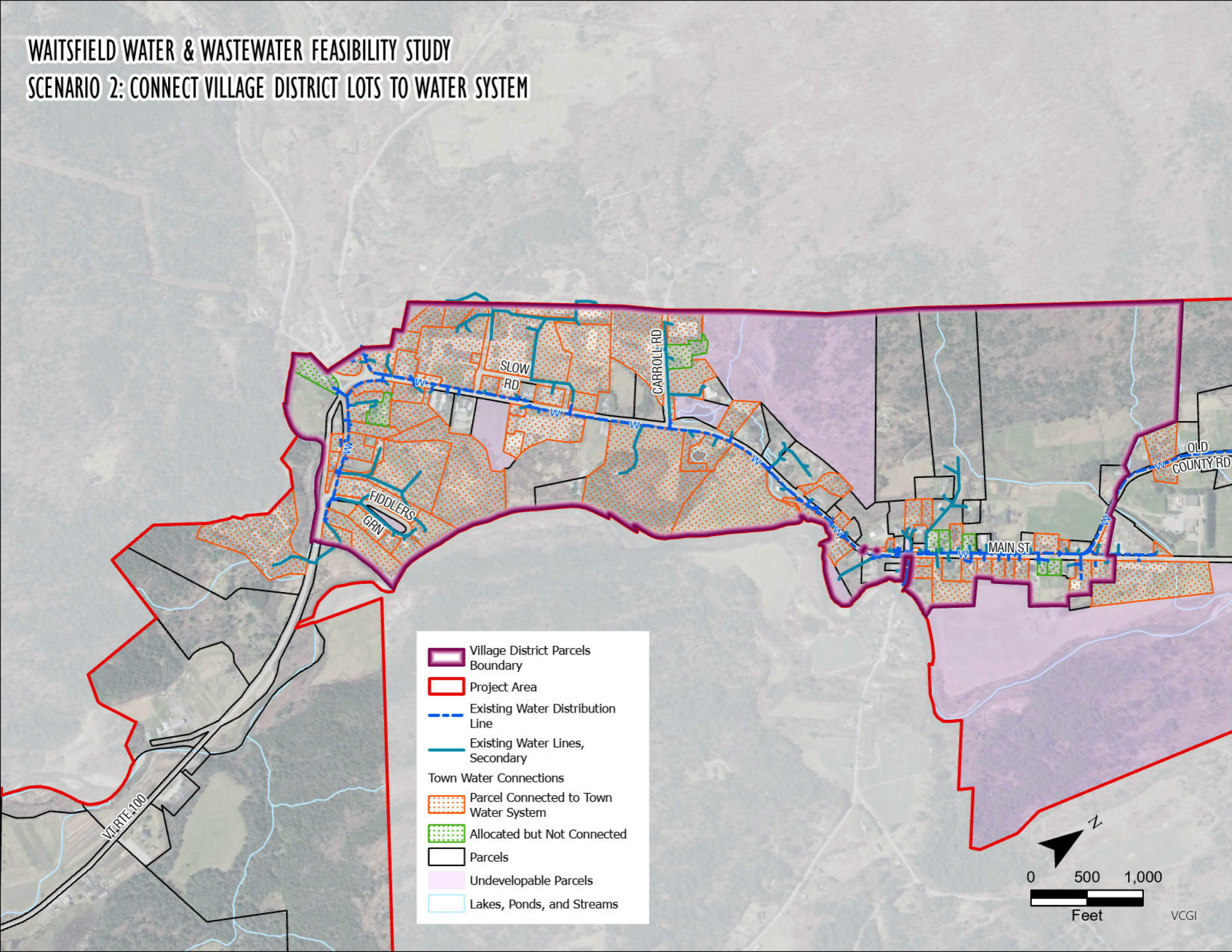


Project Area	Existing Leach fields (D&K)
Layout Sheet Matchlines	Wastewater Disposal System Type (Stone)
Parcels - Town-Sponsored Loan Program Participants	In-ground (trench or bed)
Parcels	At-Grade
Parcels with VT DEC Wastewater Permits	Mound
Building Footprints	Mound-Filtrate
Water Supply Wells (Stone Study Area)	Drywell
Drilled	Replacement Area
Drilled shared	Well Shields
Drilled - non potable	Groundwater SPAs (Zone 1)
Dug Well or Spring	Lakes, Ponds, and Streams
Public Water Supply Well	Area Limited and Wastewater System > 20 years old
Unknown	Wastewater system > 20 years old (parcel is not Area Limited)
Existing Wastewater Tanks (Stone)	Area Limited (parcel does not have wastewater system > 20 years old)
Existing Wastewater Conveyance	

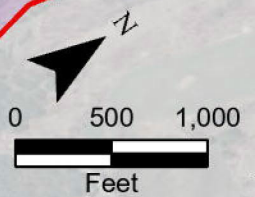


WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY

SCENARIO 2: CONNECT VILLAGE DISTRICT LOTS TO WATER SYSTEM

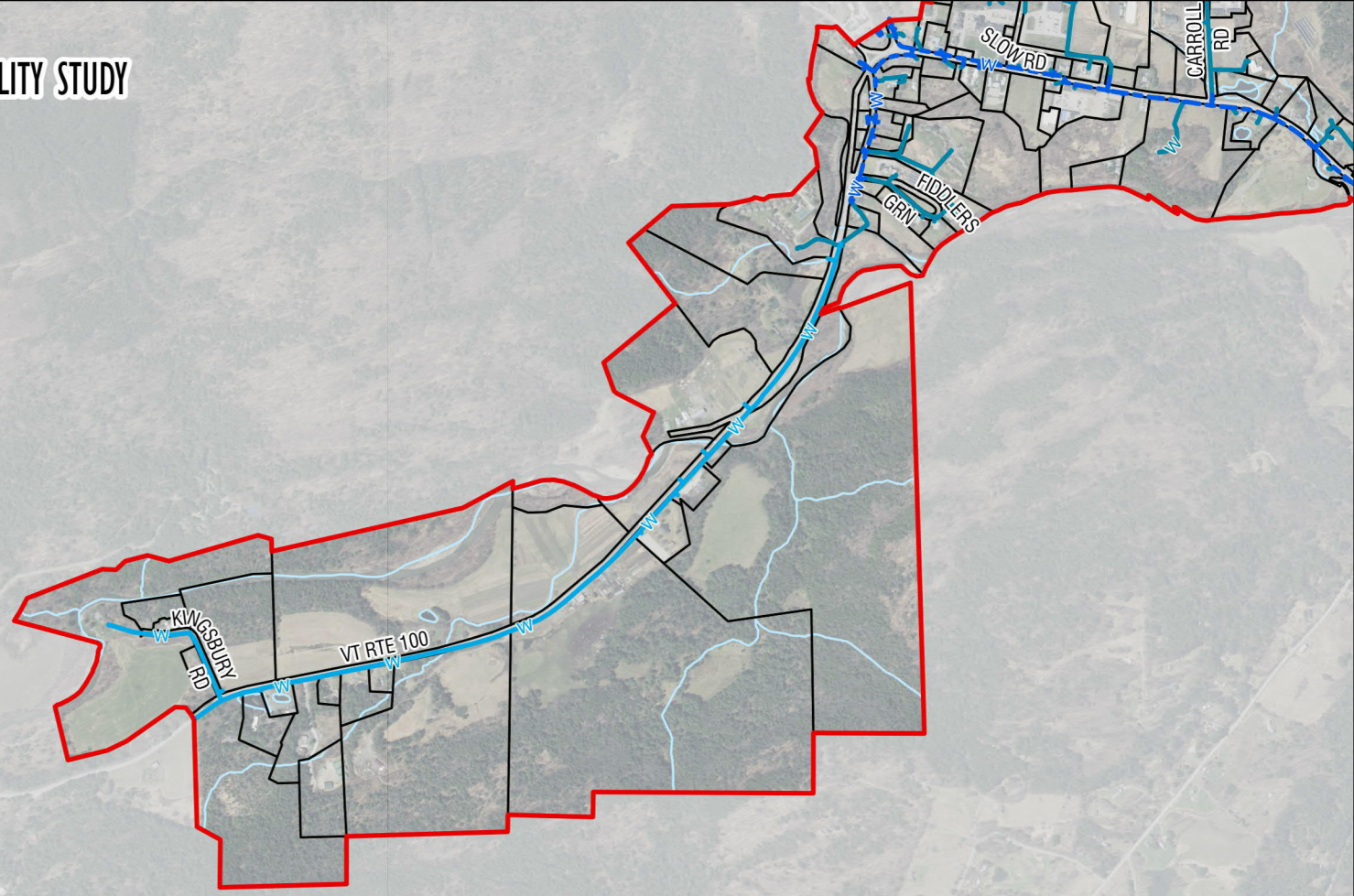








- Village District Parcels Boundary
- Project Area
- Existing Water Distribution Line
- Existing Water Lines, Secondary
- Town Water Connections**
- Parcel Connected to Town Water System
- Allocated but Not Connected
- Parcels
- Undevelopable Parcels
- Lakes, Ponds, and Streams

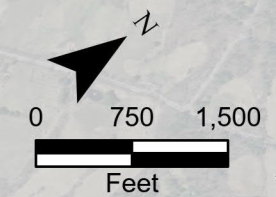


WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY

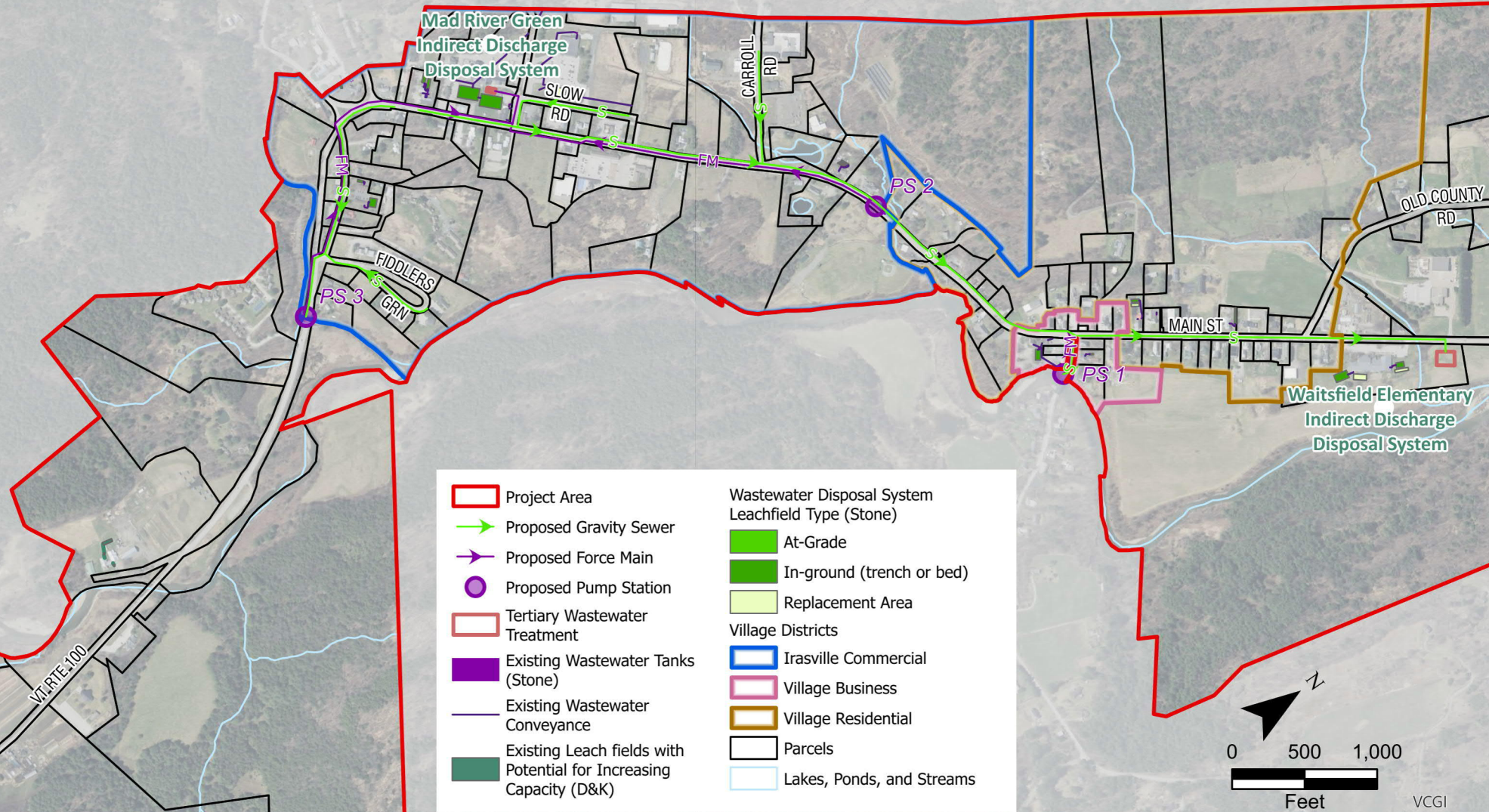
SCENARIO 2A: WATER SYSTEM EXTENSION



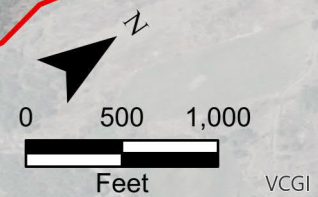
-  Project Area
-  Proposed Waterline Extension
-  Existing Water Distribution Line
-  Existing Water Lines, Secondary
-  Parcels
-  Lakes, Ponds, and Streams



WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY
SCENARIO 1A & 3: IRASVILLE AND WAITSFIELD VILLAGE AREA-LIMITED
LOTS WITHOUT FULLY COMPLYING STATE-PERMITTED SEPTICS TO MAD
RIVER GREEN AND WAITSFIELD SCHOOL (ALSO REQUIRES SCENARIO 2)

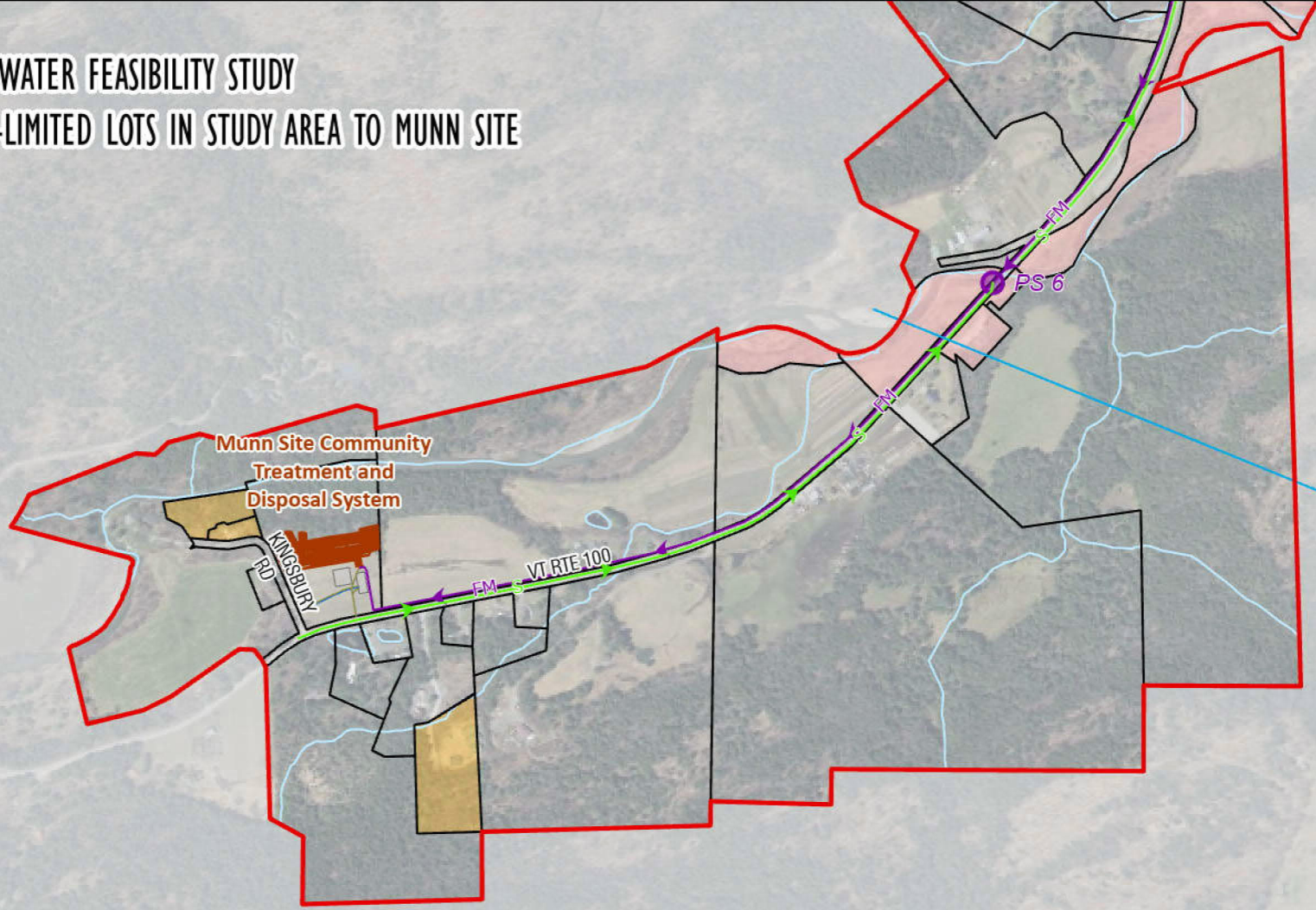















- | | | | | | | | | | | | |
|-------------------|------------------------|---------------------|-----------------------|-------------------------------|-----------------------------------|--------------------------------|--|--|----------|---------------------------|------------------|
| Project Area | Proposed Gravity Sewer | Proposed Force Main | Proposed Pump Station | Tertiary Wastewater Treatment | Existing Wastewater Tanks (Stone) | Existing Wastewater Conveyance | Existing Leach fields with Potential for Increasing Capacity (D&K) | Wastewater Disposal System Leachfield Type (Stone) | At-Grade | In-ground (trench or bed) | Replacement Area |
| Village Districts | Irasville Commercial | Village Business | Village Residential | Parcels | Lakes, Ponds, and Streams | | | | | | |

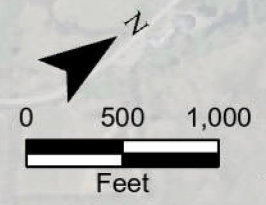


WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY

SCENARIO 1A & 4: ALL AREA-LIMITED LOTS IN STUDY AREA TO MUNN SITE



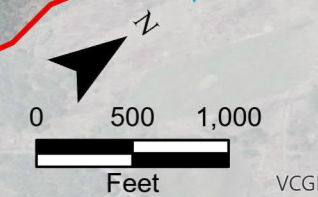
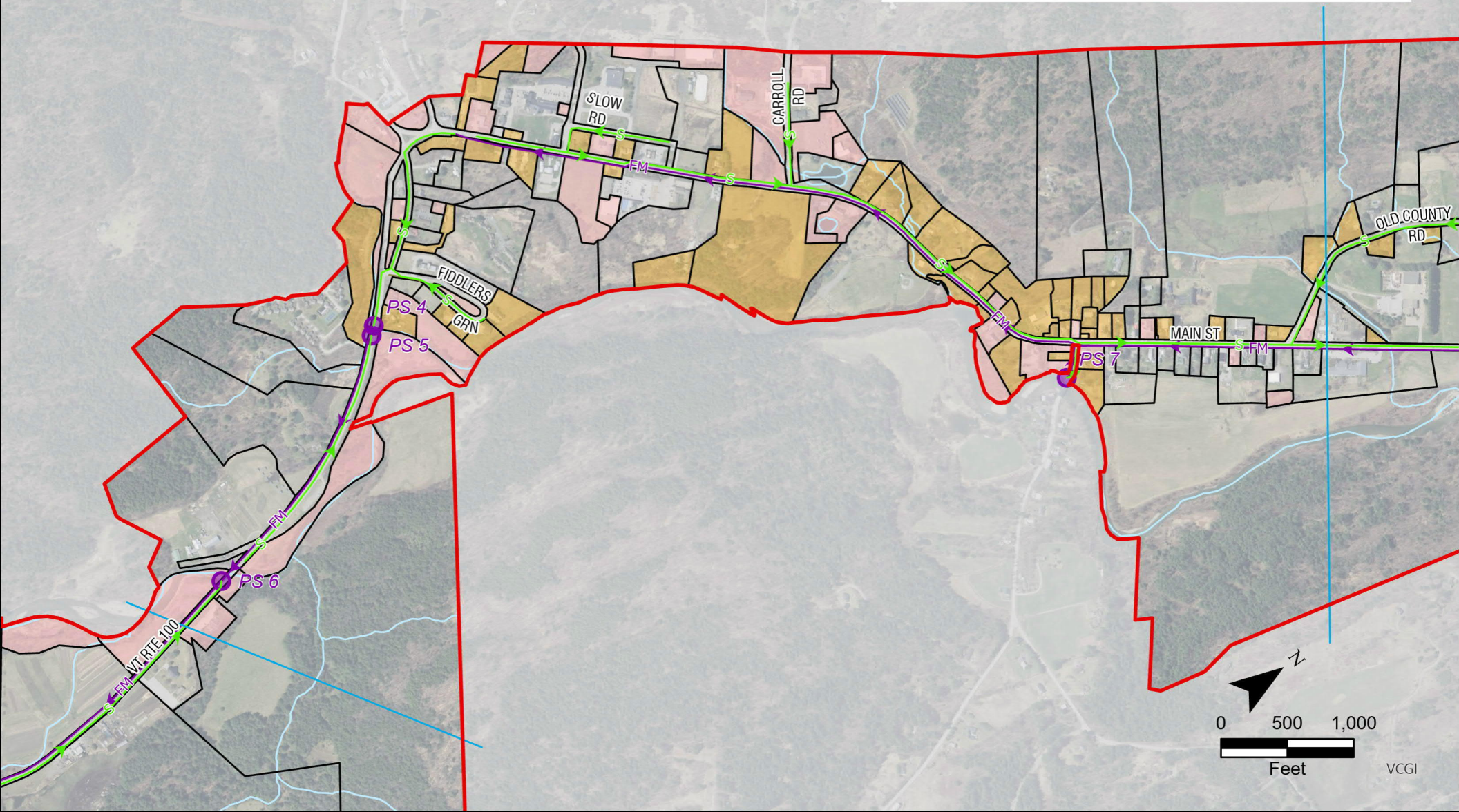
- | | |
|--|--|
|  Project Area |  Proposed Munn Site - Water and well |
|  Layout Sheet Matchlines |  Proposed Munn Site - Buildings |
|  Proposed Gravity Sewer |  Parcels |
|  Proposed Force Main |  Lakes, Ponds, and Streams |
|  Proposed Pump Station |  Area Limited and Wastewater System > 20 years old |
|  Proposed Munn Site - Wastewater system (leachfield) |  Area Limited (parcel does not have wastewater system > 20 years old) |
|  Proposed Munn Site - Underground Electrical | |



WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY

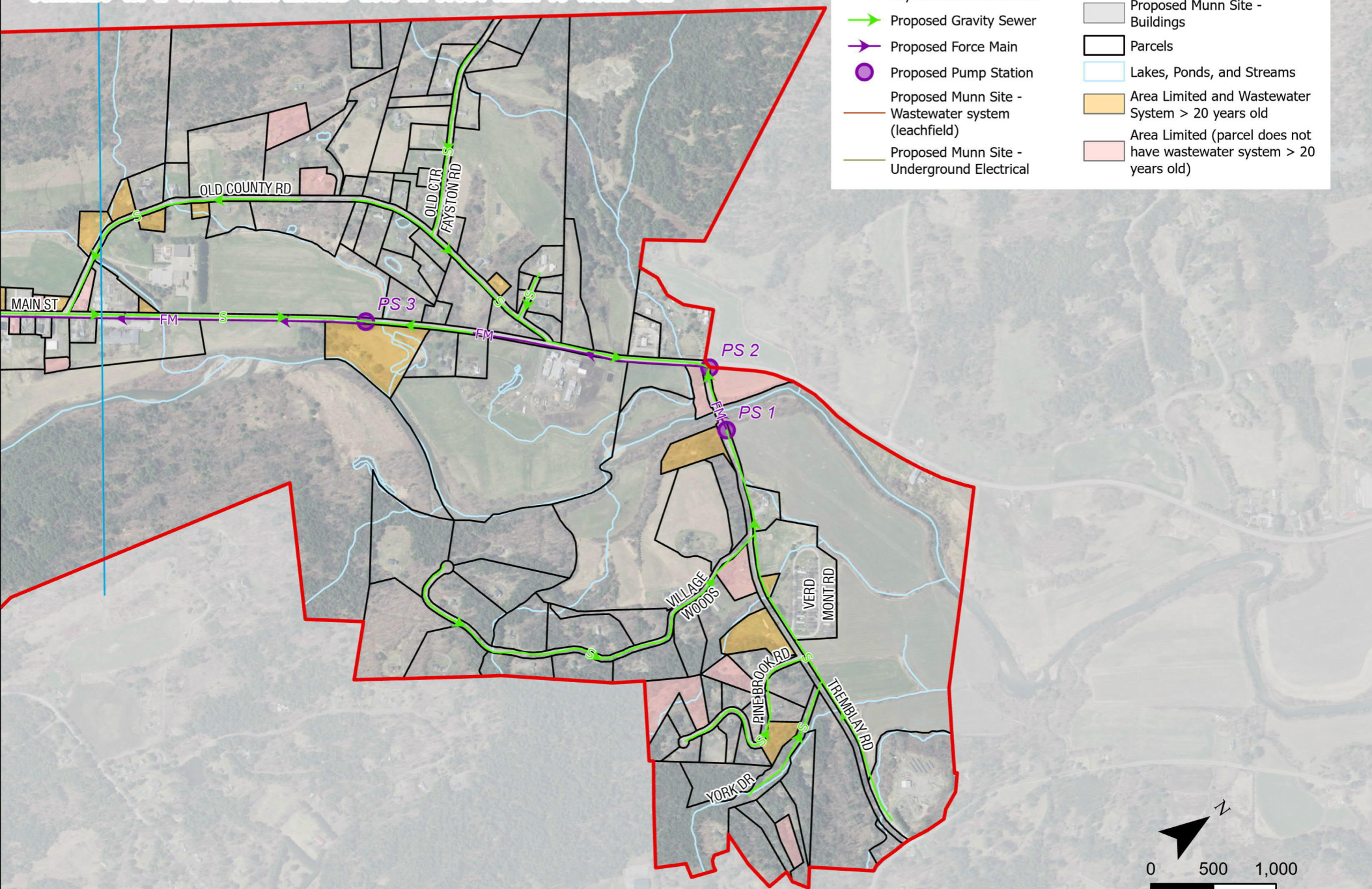
SCENARIO 1A & 4: ALL AREA-LIMITED LOTS IN STUDY AREA TO MUNN SITE

- ▭ Project Area
- Layout Sheet Matchlines
- Proposed Gravity Sewer
- Proposed Force Main
- Proposed Pump Station
- Proposed Munn Site - Wastewater system (leachfield)
- Proposed Munn Site - Underground Electrical
- Proposed Munn Site - Water and well
- Proposed Munn Site - Buildings
- Parcels
- Lakes, Ponds, and Streams
- Area Limited and Wastewater System > 20 years old
- Area Limited (parcel does not have wastewater system > 20 years old)

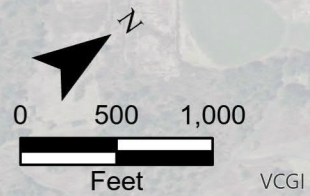


WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY

SCENARIO 1A & 4: ALL AREA-LIMITED LOTS IN STUDY AREA TO MUNN SITE

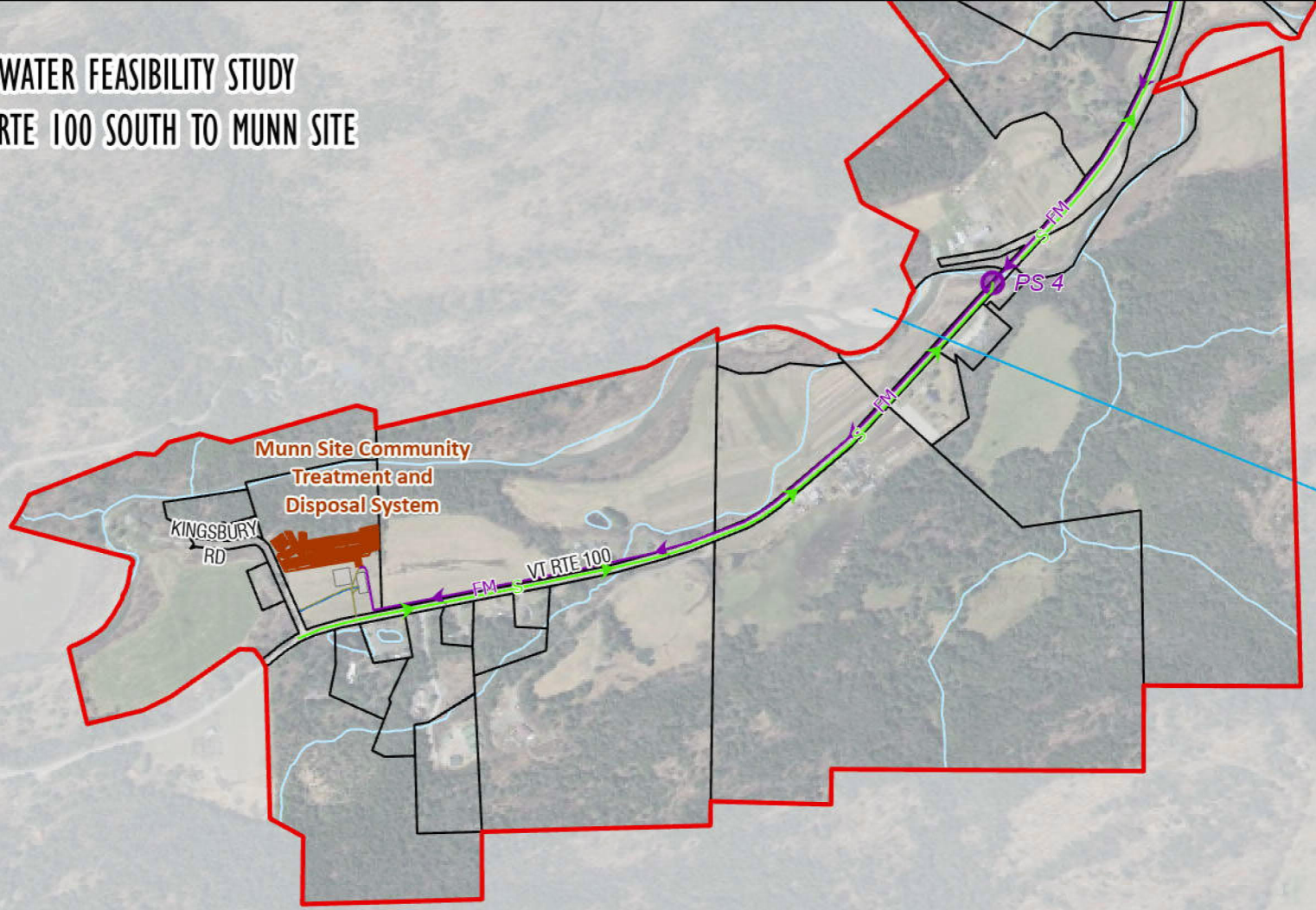


- Project Area
- Layout Sheet Matchlines
- Proposed Gravity Sewer
- Proposed Force Main
- Proposed Pump Station
- Proposed Munn Site - Wastewater system (leachfield)
- Proposed Munn Site - Underground Electrical
- Proposed Munn Site - Water and well
- Proposed Munn Site - Buildings
- Parcels
- Lakes, Ponds, and Streams
- Area Limited and Wastewater System > 20 years old
- Area Limited (parcel does not have wastewater system > 20 years old)

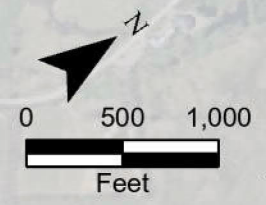


WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY

SCENARIO 4: IRASVILLE AND RTE 100 SOUTH TO MUNN SITE

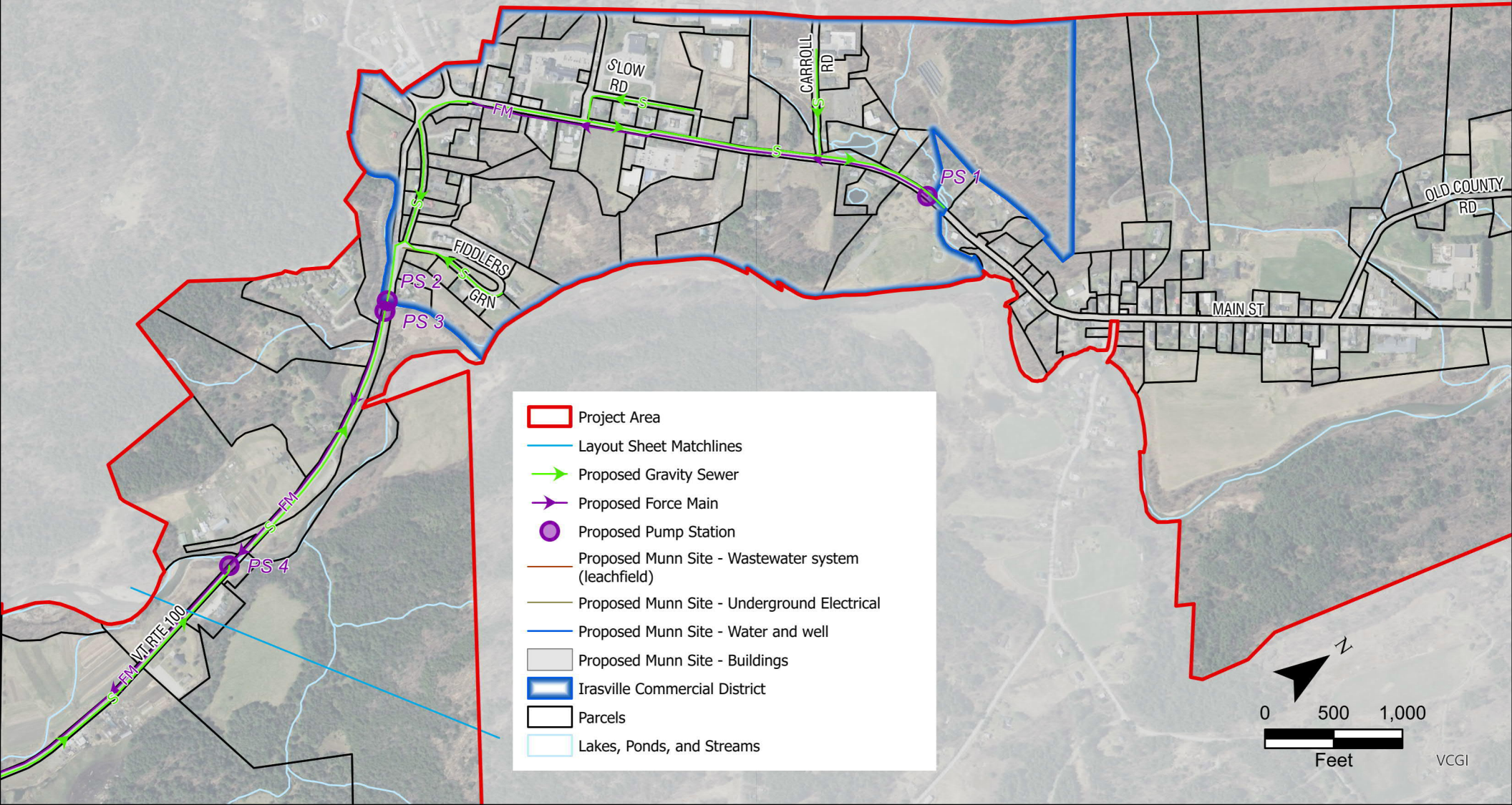


- Project Area
- Layout Sheet Matchlines
- Proposed Gravity Sewer
- Proposed Force Main
- Proposed Pump Station
- Proposed Munn Site - Wastewater system (leachfield)
- Proposed Munn Site - Underground Electrical
- Proposed Munn Site - Water and well
- Proposed Munn Site - Buildings
- Parcels
- Lakes, Ponds, and Streams

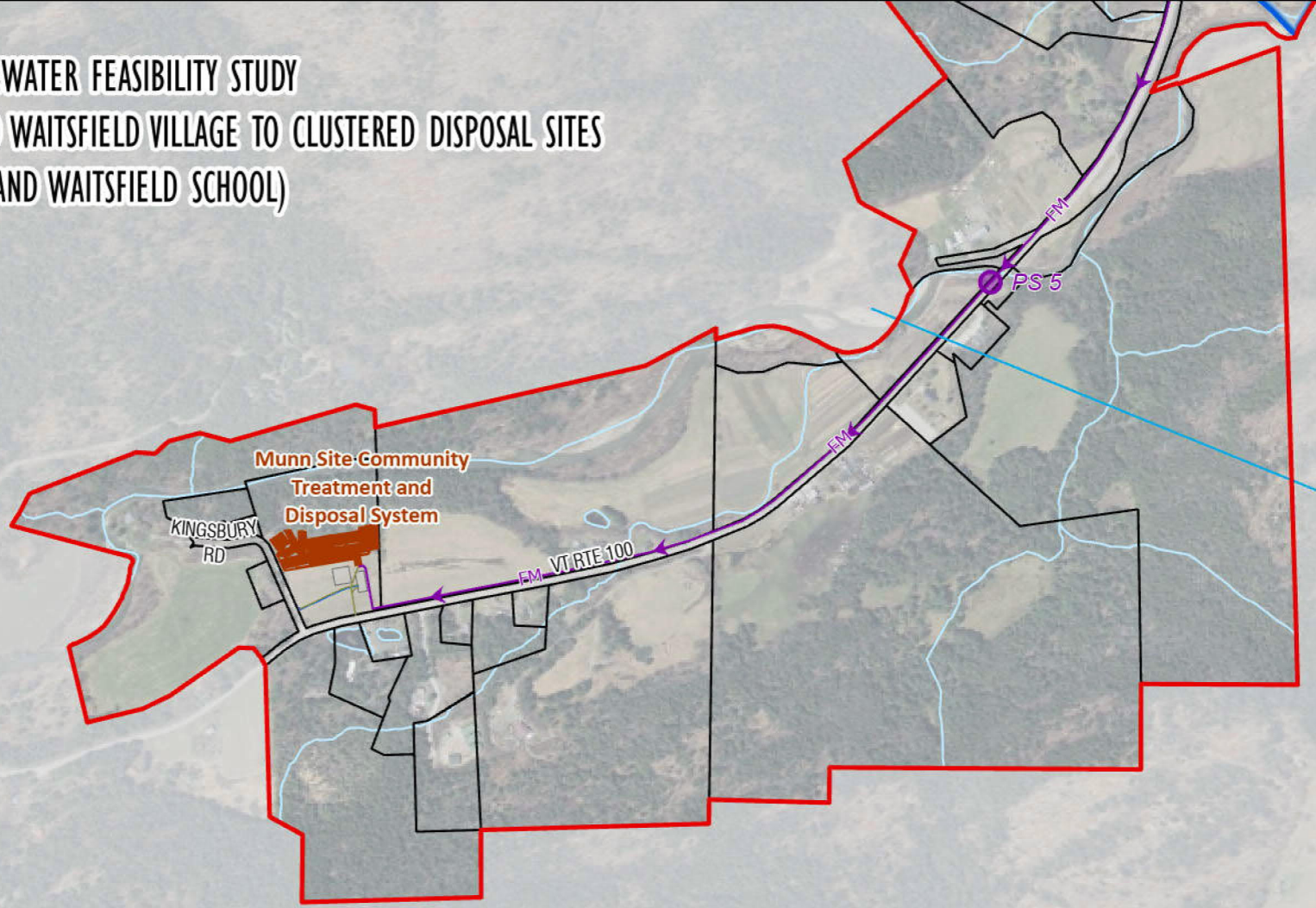


WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY

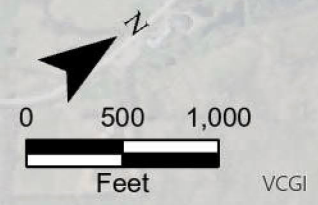
SCENARIO 4: IRASVILLE AND RTE 100 SOUTH TO MUNN SITE



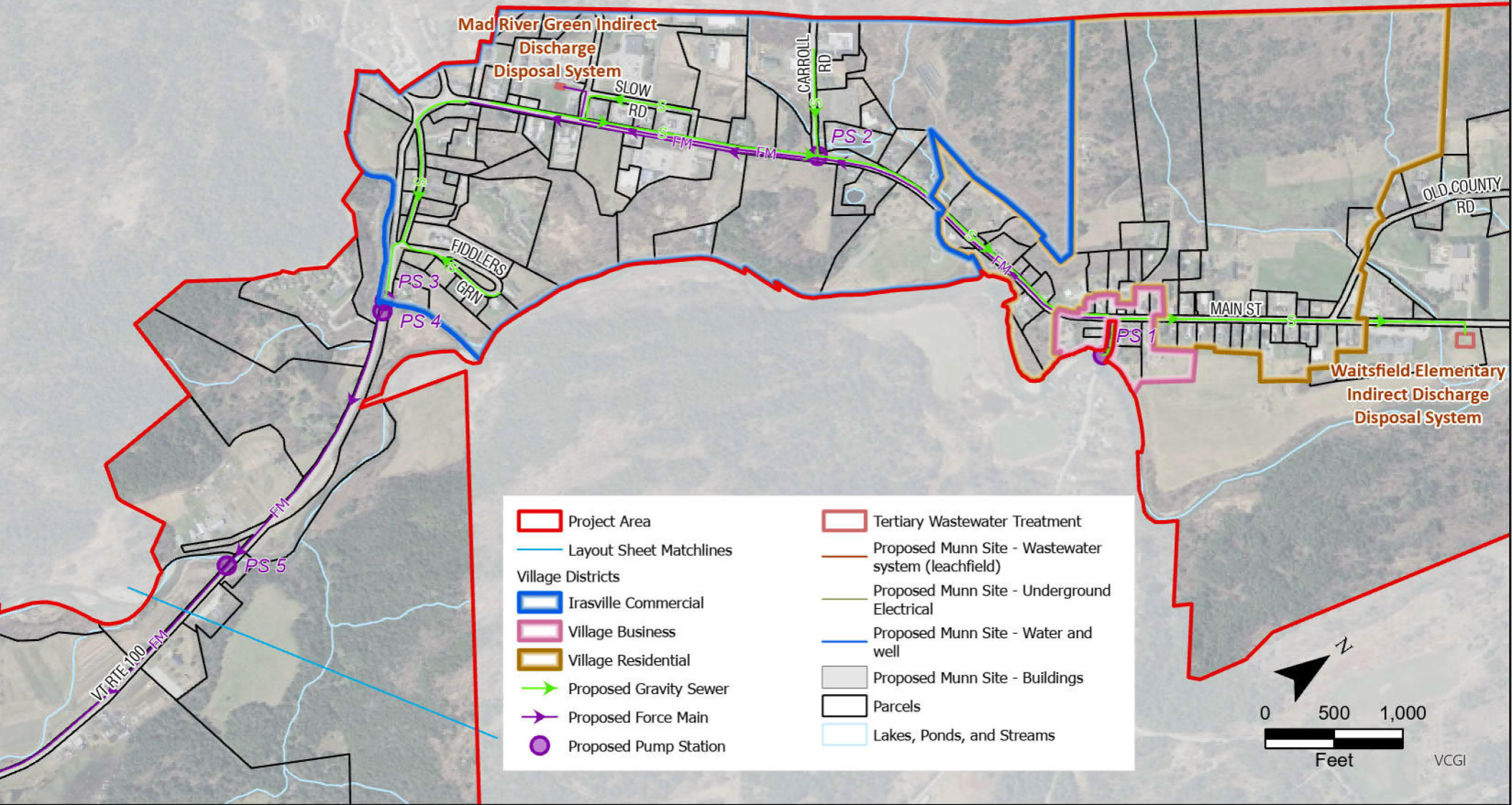
WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY
SCENARIO 5A: IRASVILLE AND WAITSFIELD VILLAGE TO CLUSTERED DISPOSAL SITES
(MUNN, MAD RIVER GREEN, AND WAITSFIELD SCHOOL)



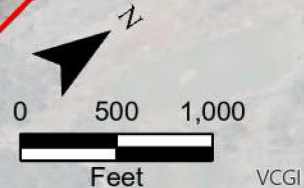
- | | |
|--------------------------|---|
| Project Area | Tertiary Wastewater Treatment |
| Layout Sheet Matchlines | Proposed Munn Site - Wastewater system (leachfield) |
| Village Districts | Proposed Munn Site - Underground Electrical |
| Irasville Commercial | Proposed Munn Site - Water and well |
| Village Business | Proposed Munn Site - Buildings |
| Village Residential | Parcels |
| Proposed Gravity Sewer | Lakes, Ponds, and Streams |
| Proposed Force Main | |
| Proposed Pump Station | |



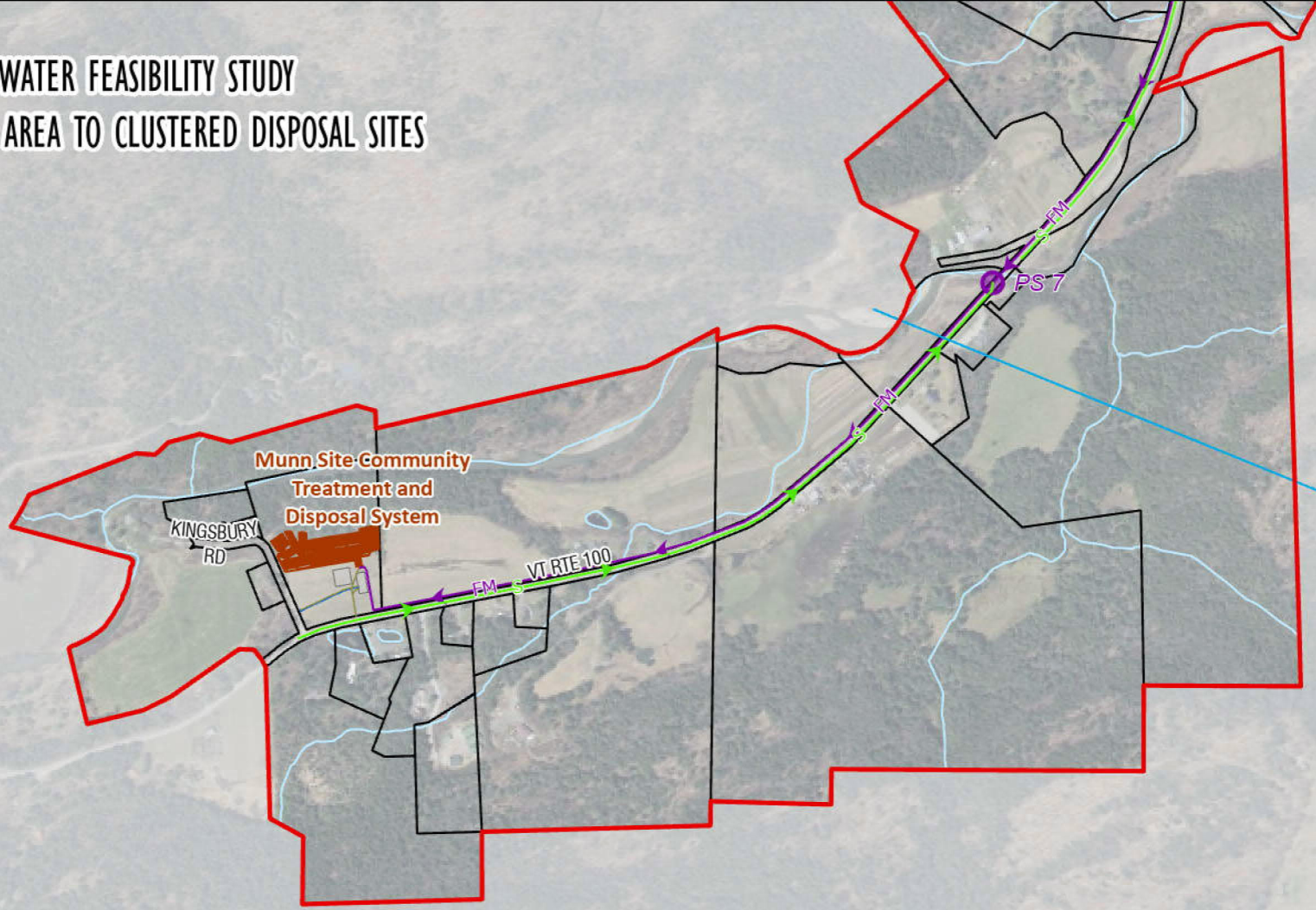
WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY
SCENARIO 5A: IRASVILLE AND WAITSFIELD VILLAGE TO CLUSTERED DISPOSAL SITES
(MUNN, MAD RIVER GREEN, AND WAITSFIELD SCHOOL)



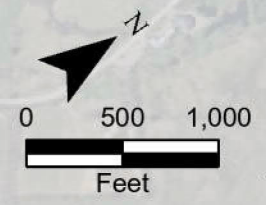
- | | |
|--------------------------|---|
| Project Area | Tertiary Wastewater Treatment |
| Layout Sheet Matchlines | Proposed Munn Site - Wastewater system (leachfield) |
| Village Districts | Proposed Munn Site - Underground Electrical |
| Irasville Commercial | Proposed Munn Site - Water and well |
| Village Business | Proposed Munn Site - Buildings |
| Village Residential | Parcels |
| Proposed Gravity Sewer | Lakes, Ponds, and Streams |
| Proposed Force Main | |
| Proposed Pump Station | |



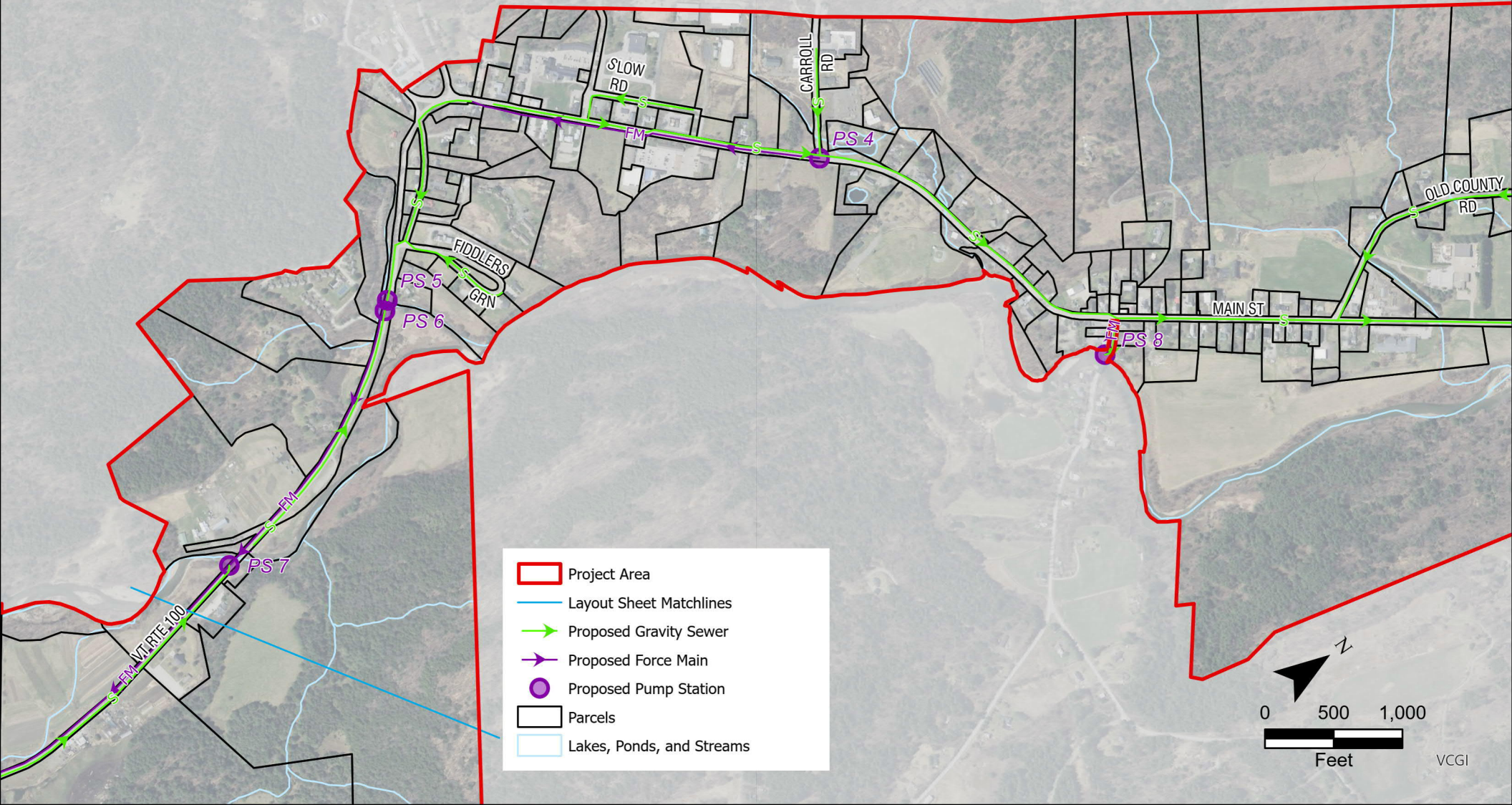
WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY
SCENARIO 5B: ALL OF STUDY AREA TO CLUSTERED DISPOSAL SITES
(MUNN AND SPAULDING)



- | | |
|---|---|
| Project Area | Proposed Munn Site - Underground Electrical |
| Layout Sheet Matchlines | Proposed Munn Site - Water and well |
| Proposed Gravity Sewer | Proposed Munn Site - Buildings |
| Proposed Force Main | Parcels |
| Proposed Pump Station | Lakes, Ponds, and Streams |
| Tertiary Wastewater Treatment | |
| Proposed Munn Site - Wastewater system (leachfield) | |



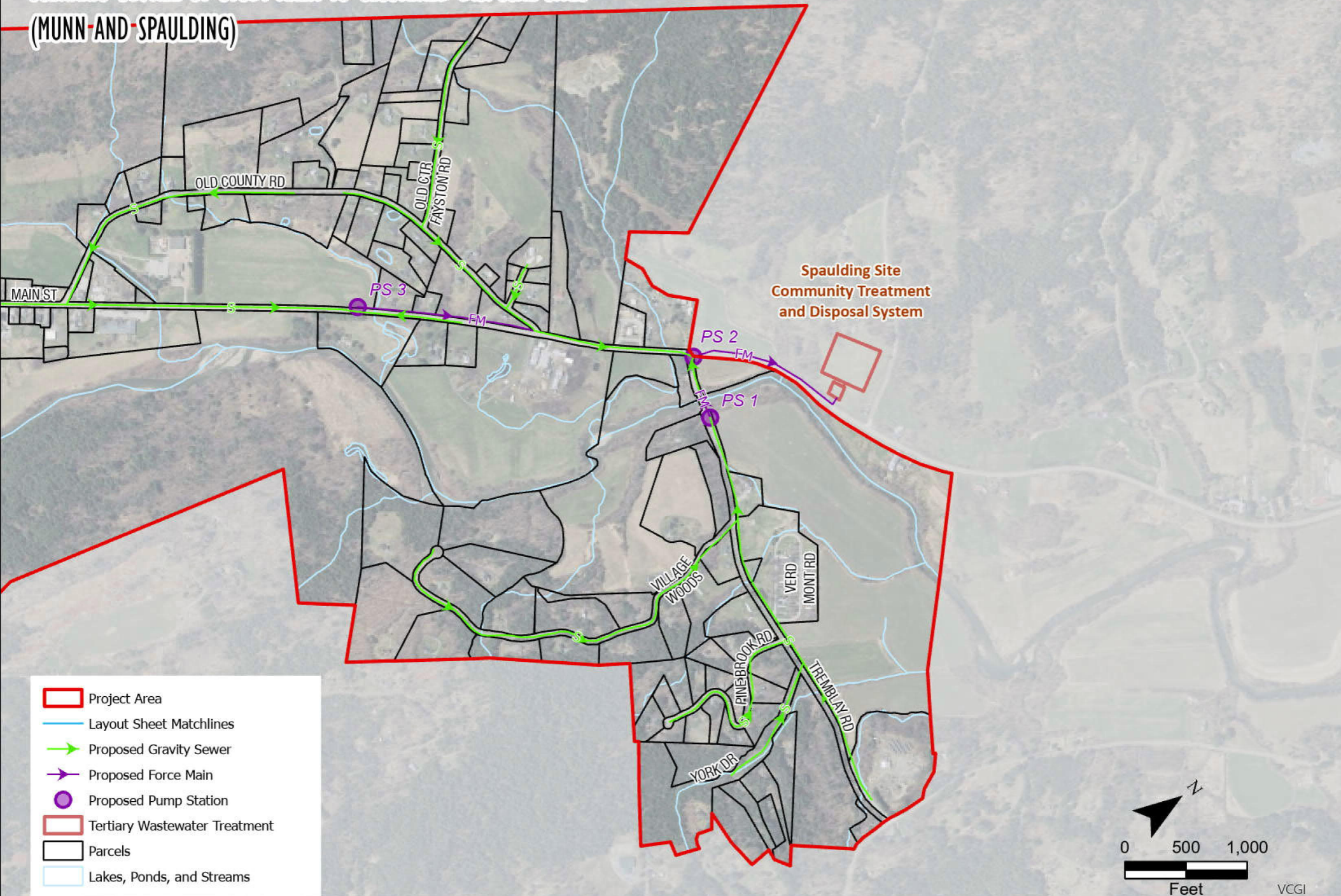
WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY
SCENARIO 5B: ALL OF STUDY AREA TO CLUSTERED DISPOSAL SITES
(MUNN AND SPAULDING)



WAITSFIELD WATER & WASTEWATER FEASIBILITY STUDY

SCENARIO 5B: ALL OF STUDY AREA TO CLUSTERED DISPOSAL SITES

(MUNN AND SPAULDING)



APPENDIX G

Appendix G - Permitted Wastewater Systems in Project Area with Potential to Increase Disposal Capacity

PDS #	Parcel #	Owner	Permit Number	Location	Permit Year	Permit Description	Permitted WW Design Flow (gpd)	Notes Regarding Existing System	Presumptive Disposal Capacity With Pressurized Leachfield Sized 150%	Presumptive Maximum Disposal Capacity With Pressurized Leachfield Sized 150% and Additional Treatment ¹	Potential Net Increase in Disposal Capacity (gpd)
17	99191	Robert & Susan Easley	WW-5-0877	RT 100	1996	Convert barn to 70 seat restaurant & bakery; WW-5-0005 & Amendments, 5W0726 & Amendments and WW-5-1114	2,250	Absorption bed with 6 feet of loam sand/gravel	2,990	5,980	3,730
18	99184.000	Eagles at Sugarbush	WW-5-6441	169 Eagles Road off VT Rt 100	2013	Installation of 8" municipal water line South along VT Route 100 from Fiddler's Green to Eagles Road to provide fire protection and domestic water service to the existing 16-unit Eagle's Resort Condominiums and Clubhouse with a 2" water service connection made at the resort's existing water supply control building	4,157	Didn't locate map of or test pits for existing leachfield, but soils are mapped as well-suited	5,520	13,800	9,643
19	38004.000	Norberto P. Garcia	WW-5-0087	TH 38	1989	Change bdrm configuration & count in apt. bldgs & add office space in one bldg, also see PB-5-0771, PB-5-0701 & EC-5-1189	1,800	Well-suited soils; absorption bed, 2.5 mpi perc rate	2,390	4,780	2,980
20	99164	Alan Goldman	WW-5-1898	Routes 100 & 17	2002	Approval for previously constructed wastewater disposal system serving Gallagher's	4,950	Two favorable test pits, but leachfield is located beneath a gravel parking lot	6,580	16,450	11,500
21	99159	Mad River Sr Citizens Inc.	WW-5-1287	Route 100	1999	Change use to 18 double occupancy rms & 55 restaurant seats	1,875	Well-suited soils with trenches	2,490	4,980	3,105
22	99152.000	Mad River Green Partners, et al	WW-5-6241 and ID-9-0137	VT Route 100, Mad River Green	2012	Boundary line adjustments to parcels within the Mad River Green Shopping Center; See file for list multiple permits issued for various bldgs on parcels	12,484	Existing indirect discharge system; already pressurized leachfield; assume tertiary treatment for maximum capacity	12,484	31,210	18,700
23	99121	Bisbee/Bennett partnership	WW-5-1343	Route 100	1999	Expand septic system to allow a 24-seat bagel shop with 3 employees	1,040	Loam, mottling at 48 inches	1,380	2,760	1,720
24	99108	Black Market Trader's Inc.	WW-5-0581	Bridge Street	1994	Convert retail space to bakery.	3,000	Sand to 60 inches, 4 mpi perc rate, absorption bed 1.2 gpd/sf application rate; not pressurized	3,990	9,970	6,970
25	1002.000	Redeer Co. N. V.	WW-5-0825 and PB-5-0126	Bridge Street	1995	Replace failed septic system	1,200	Fine to medium sand, no SHWT to 7 feet	1,590	3,180	1,980
26	99072.000	Wrenn Compere, Vince Gauthier	WW-5-6171	4335 Main Street	2012	Construction of a replacement wastewater system for an existing church on a 2.45± acre parcel	1,785	49 inches to SHWT, trenches	2,370	4,740	2,955
27	99067	Spencer & Margery Gregory	WW-5-1511	Main Street	2000	Convert a residence to retail space with a 2-bdrm apt	695	Good soils, primary and replacement	920	1,840	1,145
28	99064.000	Shea Property Services, LLC	WW-5-8878	4276 Main Street	2022	Further improving an existing mixed-use building to create a multi-family building where Units 1 through 5 are served by the existing, in-ground wastewater system and proposed municipal water and Units 6 through 9 are served by a proposed, filtrate in-ground wastewater system and municipal water	1,680	560 gpd already pre-treated 1,120 gpd leachfield could add pretreatment	2,050	2,800	1,120
29	1001, 99046.050	Town of Waitsfield	WW-5-0426-1 and WW-5-6171	Main and Bridge Streets	2014	Replace the failed wastewater disposal system for the Waitsfield Town Office and Library with a connection to the expanded wastewater disposal system on an adjoining lot subject to Permit WW-5-6171-1	1,785	Well-suited soils to 60 inches	2,370	4,740	2,955
30	99051	Waitsfield School District	WW-5-0204	Route 100	1990	School expansion	4,500	Favorable test pits from 1983	5,184	25,920	21,420
TOTALS (gpd)							43,201		52,308	133,150	89,923
<p>Notes:</p> <p>1. For maximum disposal capacity calculations, leachfields with less than 6,500 gpd of disposal capacity are assumed to double in disposal capacity by the addition of innovative/advanced wastewater treatment systems under the Wastewater System and Potable Water Supply Rules. For leachfields with greater than 6,500 gpd of disposal capacity, maximum disposal capacity is estimated at 5x the standard disposal capacity by the addition of a tertiary treatment system under the Indirect Discharge Rules. Calculations for intermittent sand filter (2x) and recirculating sand filter treatment (3x) under the Indirect Discharge Rules are not shown in this table. Calculations for maximum disposal capacities greater than 6,500 gpd are also adjusted for the IDR requirement to provide dual-alternating disposal fields.</p>											

APPENDIX H

Appendix H - Potential Community Wastewater Disposal Sites

PDS #	Map ID	Owners	Address	Lot Size (acres)	Potential Disposal Area (acres)	USGS-Mapped Soil Types in Potential Disposal Area	Soil Suitability in Potential Disposal Area	Hydrogeologic, Engineering, and Availability Notes	Assumed Factored Potential Disposal Capacity (gpd) Based on Munn Site Testing ¹ (assuming septic tank treatment only)	Priority Ranking Based on Hydrogeologic, Engineering, and Availability Factors
1	31007.000	Parker, Jeffrey R & Stephanie Lynne	805 Rolston Rd	151.48	17.44	39C - Colton gravelly sandy loam, 8 to 15% slopes	1a - Well suited	Was not considered in 2004 Facilities Plan. Located outside the south end of the project area, so would require a force main extension. Availability unknown.	49,681	5
2	99212.000	Rood, L Macrae & Roberta C	7512 Main St	10.28	1.97	39A - Colton gravelly sandy loam, 0 to 3% slopes	1a - Well suited	Environmental constraints limit the size of the potential disposal area. Located south of the project area, so would require a force main extension. Availability unknown.	5,607	16
3	99207.100	Chapman, Frank W & Sylvia K	7189 Main St	8.71	3.77	39A - Colton gravelly sandy loam, 0 to 3% slopes	1a - Well suited	Environmental constraints limit the size of the potential disposal area. Located south of the project area, so would require a force main extension. Availability unknown.	10,731	14
4	30004.000	Fitzgibbons, Bryant	240 Kingsbury Rd	38.16	3.34	43B - Salmon very fine sandy loam, 3 to 8% slopes, 39A - Colton gravelly sandy loam, 0 to 3% slopes	1c and 1a - Well suited	Environmental constraints limit the size of the potential disposal area. Located south of the project area, so would require a force main extension. Landowner indicated the land was not available for sale in the 2004 Facilities Plan; current availability unknown.	9,522	15
5	99205.000	Waitsfield, Town Of	Main St	13.82	6.44	39A - Colton gravelly sandy loam, 0 to 3% slopes, 39B - Colton gravelly sandy loam, 3 to 8% slopes	1a - Well suited	Identified as the preferred disposal site in the 2004 Facilities Plan. Located near the south end of (within) the project area. Site is already Town-owned. Hydrogeologic testing has already been completed to demonstrate the disposal capacity and capacity approvals were issued by the DEC in 2006 and 2008.	18,342	1
6	99197.000	Ketcham Estate Llc	6710 Main St	53.19	9.20	39A - Colton gravelly sandy loam, 0 to 3% slopes	1a - Well suited	2004 Facilities Plan notes flow frontage limitations and possible water table limitations, and that because of a bedrock ridge between the receiving stream and the disposal area, the site would drain north-south toward a downgradient water supply or the Munn Site. Located near the south end of (within) the project area. Landowner indicated the land was not available for sale in the 2004 Facilities Plan; current availability unknown.	26,200	3
7	99190.000	Lee, Virginia & Johnson, Jonathan Andrew & C/O Julia Lee Successor Administrator	Main St	110.41	9.94	39A - Colton gravelly sandy loam, 0 to 3% slopes	1a - Well suited	2004 Facilities Plan notes receiving stream limitations, the position on an elevated terrace, and that the site is primary agricultural soils used for farming; suggested the site as a good location for storage and/or a treatment plant. Located within the project area. Availability unknown.	28,312	2
8	12014.000	Thomas, George B	74 Brightenback Ln	5.64	2.10	39D - Colton gravelly sandy loam, 15 to 25% slopes	1b - Well suited	Was not considered in 2004 Facilities Plan. Centrally located within the project area. Based on limited size of potential disposal area, best use may be in a decentralized alternative in conjunction with increasing capacity in existing disposal systems within the project area. Availability unknown.	5,968	10
9	14003.000	Mehuron, Thomas A & Kathleen	169 Old Center Fayston Rd	3.96	1.48	39B - Colton gravelly sandy loam, 3 to 8% slopes 39D - Colton gravelly sandy loam, 15 to 25% slopes	1a and 1b - Well suited	Was not considered in 2004 Facilities Plan. Centrally located within the project area. Based on limited size of potential disposal area, best use may be in a decentralized alternative in conjunction with increasing capacity in existing disposal systems within the project area. Availability unknown.	4,209	11
10	12003.000	Ward, Helen G	152 Old County Rd	34.26	3.95	39B - Colton gravelly sandy loam, 3 to 8% slopes 39D - Colton gravelly sandy loam, 15 to 25% slopes	1a and 1b - Well suited	2004 Facilities Plan notes probable receiving stream limitations and possible drinking water impact. However, a water system has since been established. Centrally located within the project area. The 2004 landowner indicated the land was not available for sale, but there is a new landowner and current availability is unknown.	11,239	7
11	12001.100	Cook, Amy Christina	153 Old County Rd	3.63	1.29	39D - Colton gravelly sandy loam, 15 to 25% slopes	1b - Well suited	Was not considered in 2004 Facilities Plan. Centrally located within the project area. Based on limited size of potential disposal area, best use may be in a decentralized alternative in conjunction with increasing capacity in existing disposal systems within the project area. Availability unknown.	3,663	12
12	99037.000	Waitsfield, Town Of	3292 Main St	76.23	8.49	39B - Colton gravelly sandy loam, 3 to 8% slopes 63D - Berkshire fine sandy loam, 15 to 35% slopes, very stony	1a and 1d - Well suited	Currently being utilized as a gravel pit. Located within the project area near the north end, but a substantial distance from the nearest road. Site is already Town-owned. After use as a gravel pit is concluded, some capacity for wastewater disposal or spray-application may remain.	24,188	9
13	99031.000	Spaulding, Donald E & Laurie J	2758 Main St	138.52	11.91	39B - Colton gravelly sandy loam, 3 to 8% slopes 39D - Colton gravelly sandy loam, 15 to 25% slopes 63D - Berkshire fine sandy loam, 15 to 35% slopes, very stony	1a, 1b, and 1d - Well suited	2004 Facilities Plan notes the site is within a public wellhead protection area; however, this is not shown on the current ANR mapping. Located outside the north end of the project area, so would require a force main extension. Availability unknown.	33,929	6

Appendix H - Potential Community Wastewater Disposal Sites

PDS #	Map ID	Owners	Address	Lot Size (acres)	Potential Disposal Area (acres)	USGS-Mapped Soil Types in Potential Disposal Area	Soil Suitability in Potential Disposal Area	Hydrogeologic, Engineering, and Availability Notes	Assumed Factored Potential Disposal Capacity (gpd) Based on Munn Site Testing ¹ (assuming septic tank treatment only)	Priority Ranking Based on Hydrogeologic, Engineering, and Availability Factors
14	99029.200	Grandfield, Ethel & C/O Cheryl Grandfield	Main St	56.37	19.10		1 - Well suited	Was not considered in 2004 Facilities Plan. Located outside the north end of the project area, so would require a force main extension. Availability unknown.	54,396	4
15	15029.003	Hadden, Arnold & C/O Mango Chris & Haley	742 North Rd	12.16	1.86	63D - Berkshire fine sandy loam, 15 to 35% slopes, very stony	1d - Well suited	Was not considered in 2004 Facilities Plan. Environmental constraints limit the size of the potential disposal area. Located near the northeast end of (within) the project area. Based on limited size of potential disposal area, best use may be in a decentralized alternative to manage wastewater near the north end of the project area. Availability unknown.	5,286	13
16	16017.000	Michael Felton P & Mary Ann	611 East Rd	69.35	11.24	63D - Berkshire fine sandy loam, 15 to 35% slopes, very stony 39D - Colton gravelly sandy loam, 15 to 25% slopes 26D - Adams loamy sand, 15 to 25% slopes	1d, 1b, and 1b - Well suited	Was not considered in 2004 Facilities Plan. Located outside the northeast end of the project area, so would require a force main extension. Availability unknown.	32,023	8

Notes:

1. Site 5 (Munn Site) is mapped with 6.44 acres of well-suited soils for soil-based wastewater disposal, and hydrogeologic assessment of the site showed a total disposal capacity (without filtration or tertiary treatment) of 17,500 gallons per day. For planning purposes, it is assumed that a similar ratio of disposal capacity per acre will be found on other potential disposal sites with well-suited soils. As such, the Assumed Factored Potential Disposal Capacity for other sites is based on the ratio of 17,500 gpd/6.44 acres, or 2,718 gpd/acre of well-suited soil.

APPENDIX I

Appendix I - Clustered Community Wastewater Disposal Sites

PDS #	Map ID	Owners	Location	Assumed Disposal Capacity (gpd) with Septic Tank Treatment Only	Presumptive Maximum Disposal Capacity With Advanced Treatment	Potential Net Increase in Disposal Capacity (gpd)
SOUTH OF IRASVILLE						
5	99205.000	Waitsfield, Town Of	Main St	18,342	90,274	90,274
IRASVILLE						
22	99152.000	Mad River Green Partners, et al	VT Route 100, Mad River Green	12,484	31,210	18,700
WAITSFIELD VILLAGE RESIDENTIAL AND BUSINESS						
30	99051	Waitsfield School District	Route 100	5,184	25,920	21,420
NORTH OF WAITSFIELD VILLAGE						
13	99031.000	Spaulding, Donald E & Laurie J	2758 Main St	32,370	161,850	161,850
Total Estimated Disposal Capacity with One Clustered System in Each Geographic Area:					309,254	gpd

APPENDIX J



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
CALCULATED BY: ZM DATE: 9-19-22
CHECKED BY: JBA DATE: 11-3-22

SCENARIO 1 - DO NOTHING
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - Do Nothing

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Description	Unit	Qty	Unit Cost	Cost
Septic Tank Pumping				\$300 to \$500 per pumpout every 3 to 5 years
FAILED SEPTIC SYSTEM REPLACEMENT				
In-ground system in well-suited soils				Range = \$8K to \$17K. Average = \$12,500
In-ground system in moderate soils				Range = \$20K to \$25K. Average = \$22,500
Mound system				Range = \$30K to \$40K. Average = \$35,000
Best-fix innovative/alternative or filter				Range = \$40K to \$60K. Average = \$50,000



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
CALCULATED BY: JSS DATE: 9-19-22
CHECKED BY: JBA DATE: 11-23-22

SCENARIO 2 - VILLAGE WATER

OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - Connect Village District Lots to Water System

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	10%	\$20,140	
2	3/4 Inch Water Service	EA	45	\$3,250	\$146,250	40
3	3/4 Inch Water Meter, Backflow Preventer, MXU Cable, Pressure Reducing Valve	EA	51	\$1,080	\$55,080	40
4	Rock Excavation and Disposal	CY	230	\$200	\$46,000	
<i>Subtotal for New Water Service to Each Property</i>		<i>EA</i>	<i>1</i>	<i>\$5,627</i>		
					OPCC Subtotal:	\$267,470
					20% Contingency:	\$53,500
					OPCC:	\$320,970
					Total Opinion of Probable Construction Costs:	\$320,970

Notes:

2. Based on visual estimate of site plans, assumed average water service length of 60 feet at \$50/lf.



PROJECT NO.: 227947
 CALCULATED BY: ZM
 CHECKED BY: JBA

DATE: 9-13-22
 DATE: 11-27-22

SCENARIO 2 - VILLAGE WATER

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Project Cost Summary

PRELIMINARY OPINION OF PROBABLE PROJECT COST

Description	Amount	Notes
Preliminary OPCC	\$ 321,000	
Engineering Preliminary Design Phase Cost	\$ 12,100	Based on DWSRF Fee Allowance
Engineering Final Design Phase Cost	\$ 24,100	Based on DWSRF Fee Allowance
Engineering Construction Phase Cost	\$ 44,200	Based on DWSRF Fee Allowance
Legal/Fiscal Cost	\$ 3,300	
Administration Cost	\$ 3,300	1% of Construction costs
Sub-Total	\$ 408,000	
Total Project Capital Cost	\$ 408,000	

General Notes:

1. All estimated project cost amounts are rounded to the neared dollar
2. Total project capital cost is rounded up to the nearest thousands

POTENTIAL FUNDING TERMS & PROJECTED ERU COST

Description	Amount	Notes
Assumed Grant	\$ -	
Assumed Planning Loan Forgiveness	\$ -	
Balance for Loan Repayment	\$ 408,000	
Total Repayment on 20-year loan	\$ 500,000	
Annual Repayment on 20-year loan	\$ 25,000	
Loan Payment Cost per ERU	\$ 246	
Annualized Operation & Maintenance	\$ 3,243	
Total Annual Cost per ERU	\$ 278	101.88 ERUs

General Notes:

1. All project costs associated with loan terms and projected ERU cost amounts and totals are rounded up to the nearest dollar



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: JSS DATE: 9-19-22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 2A - EXTEND WATER TO SOUTH
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - Water System Extension

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	6%	\$78,310	
2	Connect 8" PVC Water Main to 8" End Cap	EA	1	\$5,200	\$5,200	40
3	8 Inch PVC (C900) Water Main	LF	8,150	\$100	\$815,000	40
4	8 Inch HDPE Water Main Directional Bore	LF	420	\$150	\$63,000	40
	8 Inch PVC Water Main Jack and Bore 20 Inch Steel					
5	Casing	LF	50	\$610	\$30,500	40
6	3/4 Inch Water Service Open Cut	EA	10	\$1,830	\$18,300	40
7	3/4 Inch Water Service Jack and Bore 2" Sleeve	EA	4	\$5,220	\$20,880	40
8	2 Inch Water Service Open Cut	EA	8	\$2,220	\$17,760	40
9	2 Inch Water Service Jack and Bore 4" Sleeve	EA	3	\$6,880	\$20,640	40
10	6 Inch Fire Hydrant Assmebly	EA	17	\$6,180	\$105,060	40
11	8 Inch Gate Valve	EA	5	\$1,830	\$9,150	40
12	8 Inch x 8 Inch Tee	EA	1	\$750	\$750	40
13	8 Inch End Cap	EA	1	\$2,500	\$2,500	40
14	Removal of Unsuitable Materials	CY	540	\$30	\$16,200	
15	Miscellaneous Earth Excavation	CY	470	\$50	\$23,500	
16	Rock Excavation and Disposal	CY	600	\$200	\$120,000	
17	Driveway Restoration	EA	27	\$600	\$16,200	
18	Maintenance of Traffic	LS	1	\$8,500	\$8,500	
19	Erosion Protection and Sediment Control Plan	LS	1	\$12,000	\$12,000	
					OPCC Subtotal:	\$1,383,450
					20% Contingency:	\$276,690
					OPCC:	\$1,660,140
					Total Opinion of Probable Construction Costs:	\$1,660,140



PROJECT NO.: 227947
 CALCULATED BY: ZM
 CHECKED BY: JBA

DATE: 9-13-22
 DATE: 11-23-22

SCENARIO 2A - EXTEND WATER TO SOUTH

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Project Cost Summary

PRELIMINARY OPINION OF PROBABLE PROJECT COST		
Description	Amount	Notes
Preliminary OPCC	\$ 1,660,200	
Engineering Preliminary Design Phase Cost	\$ 54,300	Based on DWSRF Fee Allowance
Engineering Final Design Phase Cost	\$ 108,500	Based on DWSRF Fee Allowance
Engineering Construction Phase Cost	\$ 198,800	Based on DWSRF Fee Allowance
Legal/Fiscal Cost	\$ 16,700	
Administration Cost	\$ 16,700	1% of Construction costs
Sub-Total	\$ 2,055,200	
Total Project Capital Cost	\$ 2,055,200	

General Notes:

1. All estimated project cost amounts are rounded to the neared dollar
2. Total project capital cost is rounded up to the nearest thousands

POTENTIAL FUNDING TERMS & PROJECTED ERU COST		
Description	Amount	Notes
Assumed Grant	\$ -	
Assumed Planning Loan Forgiveness	\$ -	
Balance for Loan Repayment	\$ 2,055,200	
Total Repayment on 30-year loan	\$ 2,754,000	
Annual Repayment on 30-year loan	\$ 91,800	
Loan Payment Cost per Parcel	\$ 3,672	
Annualized Operation & Maintenance	\$ 5,559	
Total Annual Cost per Parcel	\$ 3,894	25 parcels

General Notes:

1. All project costs associated with loan terms and projected ERU cost amounts and totals are trounded up to the nearest dollar



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: JSS DATE: 10/27/22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 1A+3: INCREASE DISPOSAL CAPACITY
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - Increase Disposal Capacity in Existing Systems

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: **Conceptual**

Irasville District Collection System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	4%	\$111,430	
2	Sanitary Sewer Manhole 0-8 ft deep (4 ft Diameter)	EA	28	\$4,800	\$134,400	40
3	Sanitary Sewer Manhole 8-10 ft deep (4 ft Diameter)	EA	1	\$5,300	\$5,300	40
4	Sanitary Sewer Manhole 10-12 ft deep (4 ft Diameter)	EA	1	\$5,900	\$5,900	40
5	8" PVC Sanitary Sewer Main 0-8 ft deep	LF	7,650	\$115	\$879,750	40
6	8" PVC Sanitary Sewer Main 8-10 ft deep	LF	110	\$124	\$13,640	40
7	8" PVC Sanitary Sewer Main 10-12 ft deep	LF	620	\$135	\$83,700	40
8	8" PVC Sanitary Sewer Main Jack and Bore 20" Steel Sleeve	LF	130	\$480	\$62,400	40
9	6" Sanitary Sewer Lateral (Open Cut)	EA	49	\$1,100	\$53,900	40
10	6" Sanitary Sewer Lateral Jack and Bore 18" Steel Casing	EA	16	\$16,200	\$259,200	40
11	6" PVC Force Main	LF	4,230	\$23	\$97,290	40
12	Forcemain Air Release Manhole	EA	1	\$4,200	\$4,200	40
13	Forcemain Gate Valves	EA	2	\$1,600	\$3,200	40
14	Forcemain Cleanouts	EA	2	\$1,500	\$3,000	40
15	Pump Station 4 - 8 ft. Diameter Concrete Wetwell	EA	2	\$300,000	\$600,000	40
16	Roadway and Parking Pavement Restoration	SY	630	\$48	\$30,240	
17	Removal of Unsuitable Material	CY	560	\$30	\$16,800	
18	Miscellaneous Earth Excavation	CY	480	\$50	\$24,000	
19	Rock Excavation and Disposal	CY	620	\$200	\$124,000	
20	Rock Excavation and Disposal - Irasville to Village Center	CY	1690	\$200	\$338,000	
21	Driveway Restoration	EA	11	\$600	\$6,600	
22	Tree Demolition	EA	20	\$250	\$5,000	
23	Maintenance of Traffic	LS	1	\$25,000	\$25,000	
24	EPSC Plan	LS	1	\$10,000	\$10,000	
					OPCC Subtotal:	\$2,896,950
					20% Contingency:	\$579,390
					OPCC:	\$3,476,340
					Total Opinion of Probable Construction Costs:	\$3,476,340

Opinion of Probable Construction Costs (OPCC) - Increase Disposal Capacity in Existing Systems

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: **Conceptual**

Village Residential and Village Business Districts Collection System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	4%	\$61,650	
2	Sanitary Sewer Manhole 0-8 ft deep (4 ft Diameter)	EA	16	\$4,800	\$76,800	40
3	8" PVC Sanitary Sewer Main 0-8 ft deep	LF	4,380	\$115	\$503,700	40
4	8" PVC Sanitary Sewer Main Jack and Bore 20" Steel Sleeve	LF	70	\$480	\$33,600	40
5	6" Sanitary Sewer Lateral (Open Cut)	EA	25	\$1,100	\$27,500	40
6	6" Sanitary Sewer Lateral Jack and Bore 18" Steel Casing	EA	28	\$16,200	\$453,600	40
7	6" PVC Force Main	LF	3,270	\$23	\$75,210	40
8	Forcemain Air Release Manhole	EA	1	\$4,200	\$4,200	40
9	Forcemain Gate Valves	EA	2	\$1,600	\$3,200	40
10	Forcemain Cleanouts	EA	2	\$1,500	\$3,000	40
11	Pump Station 4 - 8 ft. Diameter Concrete Wetwell	EA	1	\$250,000	\$250,000	40
12	Roadway and Parking Pavement Restoration	SY	210	\$48	\$10,080	
13	Removal of Unsuitable Material	CY	250	\$30	\$7,500	
14	Miscellaneous Earth Excavation	CY	220	\$50	\$11,000	
15	Rock Excavation and Disposal	CY	270	\$200	\$54,000	
16	Driveway Restoration	EA	17	\$600	\$10,200	
17	Tree Demolition	EA	10	\$250	\$2,500	
18	Maintenance of Traffic	LS	1	\$10,000	\$10,000	
19	EPSC Plan	LS	1	\$5,000	\$5,000	
					OPCC Subtotal:	\$1,602,740
					0% Contingency:	\$0
					OPCC:	\$1,602,740
					Total Opinion of Probable Construction Costs:	\$1,602,740



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: SDS DATE: 8/18/22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 1A+3: INCREASE DISPOSAL CAPACITY
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC)

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Mad River Green and Waitsfield Elementary Treatment and Disposal Systems

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	10%	\$47,920	
2	Clearing and Grubbing	LS	2	\$10,000	\$20,000	
3	EPSC Plan	LS	2	\$10,000	\$20,000	
4	Traffic Control, All-Inclusive	LS	2	\$10,000	\$20,000	
5	Foremain, Piping, and Manifold	LS	2	\$25,000	\$50,000	40
6	Leachfield Modifications	LS	2	\$40,000	\$80,000	
7	Control Building/10,000 Gallon Dosing station	LS	2	\$100,000	\$200,000	60
8	Site Work	LS	2	\$50,000	\$100,000	
9	Wastewater Treatment Facility	LS	2	\$200,000	\$400,000	60
OPCC Subtotal:					\$937,920	
20% Contingency:					\$187,590	
OPCC:					\$1,125,510	
Total Opinion of Probable Construction Costs:					\$1,125,510	



PROJECT NO.: 227947
 CALCULATED BY: ZM
 CHECKED BY: JBA

DATE: 9-13-22
 DATE: 11-23-22

SCENARIO 1A+3: INCREASE DISPOSAL CAPACITY

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Project Cost Summary

PRELIMINARY OPINION OF PROBABLE PROJECT COST

Description	Amount	Notes
Preliminary OPCC - Irasville Collection	\$ 3,451,400	
Preliminary OPCC - Village Collection	\$ 1,602,740	
Preliminary OPCC - MRG and Elem Treat & Disp.	\$ 1,125,510	
Engineering Preliminary Design Phase Cost	\$ 181,800	Based on CWSRF Fee Allowance
Engineering Final Design Phase Cost	\$ 363,600	Based on CWSRF Fee Allowance
Engineering Construction Phase Cost	\$ 666,600	Based on CWSRF Fee Allowance
Legal/Fiscal Cost	\$ 61,800	1% of Construction costs
Land/Easement Acquisition	\$ 61,800	1% assumed allowance
Sub-Total	\$ 7,515,250	
Total Project Capital Cost	\$ 7,515,250	

General Notes:

1. All estimated project cost amounts are rounded to the nearest dollar
2. Total project capital cost is rounded up to the nearest thousands

POTENTIAL FUNDING TERMS & PROJECTED ERU COST

Description	Amount	Notes
Assumed Grant	\$ 500,000	
Village WW Planning Loan Forgiveness	\$ 204,000	
Balance for Loan Repayment	\$ 6,811,300	
Total Repayment on 30-year loan	\$ 9,126,000	
Annual Repayment on 30-year loan	\$ 304,200	
Loan Payment Cost per ERU	\$ 2,192	
Annualized Operation & Maintenance	\$ 90,574	
Total Annual Cost per ERU	\$ 2,845	

General Notes:

1. All project costs associated with loan terms and projected ERU cost amounts and totals are rounded up to the nearest dollar



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: JSS DATE: 9-19-22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 1A+4: ALL AREA-LIMITED TO MUNN SITE
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - All Area-Limited to Munn Community Treatment and Disposal Site

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein.

Cost Level Type: Conceptual

Collection System - Whole Study Area

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	4%	\$417,420	
2	Sanitary Sewer Manhole 0-8 ft deep (4 ft Diameter)	EA	126	\$4,800	\$604,800	40
3	Sanitary Sewer Manhole 8-10 ft deep (4 ft Diameter)	EA	6	\$5,300	\$31,800	40
4	Sanitary Sewer Manhole 10-12 ft deep (4 ft Diameter)	EA	1	\$5,900	\$5,900	40
5	8" PVC Sanitary Sewer Main 0-8 ft deep	LF	35,600	\$115	\$4,094,000	40
6	8" PVC Sanitary Sewer Main 8-10 ft deep	LF	2,150	\$124	\$266,600	40
7	8" PVC Sanitary Sewer Main 10-12 ft deep	LF	620	\$135	\$83,700	40
8	8" PVC Sanitary Sewer Main Jack and Bore 20" Steel Sleeve	LF	320	\$480	\$153,600	40
9	6" Sanitary Sewer Lateral (Open Cut)	EA	192	\$1,100	\$211,200	40
10	6" Sanitary Sewer Lateral Jack and Bore 18" Steel Casing	EA	59	\$16,200	\$955,800	49
11	4" PVC Force Main	LF	2,260	\$21	\$47,460	40
12	6" PVC Force Main	LF	8,830	\$23	\$203,090	40
13	8" PVC Force Main	LF	7,830	\$26	\$203,580	40
14	Directional Bore 4" Forcemain	LF	150	\$106	\$15,900	40
15	Directional Bore 6" Forcemain	LF	120	\$124	\$14,880	40
16	Directional Bore 8" Forcemain	LF	160	\$145	\$23,200	40
17	Forcemain Air Release Manhole	EA	6	\$4,200	\$25,200	40
18	Forcemain Gate Valves	EA	8	\$1,600	\$12,800	40
19	Forcemain Cleanouts	EA	8	\$1,500	\$12,000	40
20	Pump Station 1 - 6 ft. Diameter Concrete Wetwell	EA	1	\$290,000	\$290,000	40
21	Pump Station 2 - 6 ft. Diameter Concrete Wetwell	EA	1	\$300,000	\$300,000	40
22	Pump Station 3 - 8 ft. Diameter Concrete Wetwell	EA	1	\$350,000	\$350,000	40
23	Pump Station 4 - 8 ft. Diameter Concrete Wetwell	EA	1	\$300,000	\$300,000	40
24	Pump Station 5 - 8 ft. Diameter Concrete Wetwell	EA	1	\$310,000	\$310,000	40
25	Pump Station 6 - 8 ft. Diameter Concrete Wetwell	EA	1	\$320,000	\$320,000	40
25A	Pump Station 7 - 8 ft. Diameter Concrete Wetwell	EA	1	\$290,000	\$290,000	40
26	Roadway and Parking Pavement Restoration	SY	1,660	\$48	\$79,680	
27	Removal of Unsuitable Material	CY	2560	\$30	\$76,800	
28	Miscellaneous Earth Excavation	CY	2210	\$50	\$110,500	
29	Rock Excavation and Disposal	CY	2830	\$200	\$566,000	
30	Rock Excavation and Disposal - Irasville to Village Center	CY	1690	\$200	\$338,000	
31	Driveway Restoration	EA	40	\$600	\$24,000	
32	Tree Demolition	EA	220	\$250	\$55,000	
33	Maintenance of Traffic	LS	1	\$35,000	\$35,000	
34	EPSC Plan	LS	1	\$25,000	\$25,000	
					OPCC Subtotal:	\$10,852,910
					20% Contingency:	\$2,170,590
					OPCC:	\$13,023,500
					Total Opinion of Probable Construction Costs:	\$13,023,500



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: SDS DATE: 8/18/22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 1A+4: ALL AREA-LIMITED TO MUNN SITE
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - All Area-Limited to Munn Site

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Munn Site Treatment and Disposal System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Salvage Value
1	Mobilization/Demobilization	LS	1	10%	\$136,220	
2	Clearing and Grubbing	LS	1	\$50,000	\$50,000	
3	EPSC Plan	LS	1	\$50,000	\$50,000	
4	Traffic Control, All-Inclusive	LS	1	\$10,000	\$10,000	
5	2" Piping	LF	10,800	\$15	\$162,000	40
6	4" Manifold	LF	5,030	\$55	\$276,650	40
7	Forcemain	LF	390	\$35	\$13,650	40
8	Trench Excavation of Earth	CY	1,060	\$35	\$37,100	
9	Stone around piping	CY	3,700	\$50	\$185,000	
10	Filter Fabric	SY	4,800	\$5	\$24,000	
11	Septic Tank (1000 Gallon)	EA	1	\$7,500	\$7,500	60
12	Control Building/10,000 Gallon Dosing station	EA	1	\$115,000	\$115,000	60
13	Gravel road	SY	1,920	\$40	\$76,800	
14	Well	EA	1	\$20,000	\$20,000	30
15	Water Line	LF	370	\$75	\$27,750	40
16	Underground Electrical	LF	370	\$50	\$18,500	50
17	Electrical service connector	LS	1	\$5,000	\$5,000	
18	Cut	CY	7,340	\$25	\$183,500	
19	Fill	CY	5,220	\$25	\$130,500	
20	Wastewater Treatment Facility	EA	1	\$766,000	\$766,000	60
OPCC Subtotal:					\$2,295,170	
20% Contingency:					\$459,040	
OPCC:					\$2,754,210	
Total Opinion of Probable Construction Costs:					\$2,754,210	



PROJECT NO.: 227947
 CALCULATED BY: ZM DATE: 9-13-22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 1A+4: ALL AREA-LIMITED TO MUNN SITE

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Project Cost Summary

PRELIMINARY OPINION OF PROBABLE PROJECT COST

Description	Amount	Notes
Preliminary OPCC - Collection	\$ 13,023,500	
Preliminary OPCC - Treatment and Disposal	\$ 2,754,300	
Engineering Preliminary Design Phase Cost	\$ 430,900	Based on CWSRF Fee Allowance
Engineering Final Design Phase Cost	\$ 861,800	Based on CWSRF Fee Allowance
Engineering Construction Phase Cost	\$ 1,579,900	Based on CWSRF Fee Allowance
Legal/Fiscal Cost	\$ 157,800	
Administration Cost	\$ 157,800	1% of Construction costs
Sub-Total	\$ 18,966,000	

Total Project Capital Cost \$ 18,966,000

General Notes:

1. All estimated project cost amounts are rounded to the neared dollar
2. Total project capital cost is rounded up to the nearest thousands

POTENTIAL FUNDING TERMS & PROJECTED ERU COST

Description	Amount	Notes
Assumed Grant	\$ 500,000	
Village WW Planning Loan Forgiveness	\$ 204,000	
Balance for Loan Repayment	\$ 18,262,000	
Total Repayment on 30-year loan	\$ 24,462,000	
Annual Repayment on 30-year loan	\$ 815,400	
Loan Payment Cost per ERU	\$ 1,957	
Annualized Operation & Maintenance	\$ 95,968	
Total Annual Cost per ERU	\$ 2,187	

General Notes:

1. All project costs associated with loan terms and projected ERU cost amounts and totals are trounded up to the nearest dollar



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: JSS DATE: 10/27/22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 4: IRASVILLE AND SOUTH TO MUNN SITE
 OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - Irasville and Route 100 South to Munn Site

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Irasville Collection System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	4%	\$111,430	
2	Sanitary Sewer Manhole 0-8 ft deep (4 ft Diameter)	EA	28	\$4,800	\$134,400	40
3	Sanitary Sewer Manhole 8-10 ft deep (4 ft Diameter)	EA	1	\$5,300	\$5,300	40
4	Sanitary Sewer Manhole 10-12 ft deep (4 ft Diameter)	EA	1	\$5,900	\$5,900	40
5	8" PVC Sanitary Sewer Main 0-8 ft deep	LF	7,650	\$115	\$879,750	40
6	8" PVC Sanitary Sewer Main 8-10 ft deep	LF	110	\$124	\$13,640	40
7	8" PVC Sanitary Sewer Main 10-12 ft deep	LF	620	\$135	\$83,700	40
8	8" PVC Sanitary Sewer Main Jack and Bore 20" Steel Sleeve	LF	130	\$480	\$62,400	40
9	6" Sanitary Sewer Lateral (Open Cut)	EA	49	\$1,100	\$53,900	40
10	6" Sanitary Sewer Lateral Jack and Bore 18" Steel Casing	EA	16	\$16,200	\$259,200	40
11	6" PVC Force Main	LF	4,230	\$23	\$97,290	40
12	Forcemain Air Release Manhole	EA	1	\$4,200	\$4,200	40
13	Forcemain Gate Valves	EA	2	\$1,600	\$3,200	40
14	Forcemain Cleanouts	EA	2	\$1,500	\$3,000	40
15	Pump Station 4 - 8 ft. Diameter Concrete Wetwell	EA	2	\$300,000	\$600,000	40
16	Roadway and Parking Pavement Restoration	SY	630	\$48	\$30,240	
17	Removal of Unsuitable Material	CY	560	\$30	\$16,800	
18	Miscellaneous Earth Excavation	CY	480	\$50	\$24,000	
19	Rock Excavation and Disposal	CY	620	\$200	\$124,000	
20	Rock Excavation and Disposal - Irasville to Village Center	CY	1,690	\$200	\$338,000	
21	Driveway Restoration	EA	11	\$600	\$6,600	
22	Tree Demolition	EA	20	\$250	\$5,000	
23	Maintenance of Traffic	LS	1	\$25,000	\$25,000	
24	EPSC Plan	LS	1	\$10,000	\$10,000	
					OPCC Subtotal:	\$2,896,950
					20% Contingency:	\$579,390
					OPCC:	\$3,476,340
					Total Opinion of Probable Construction Costs:	\$3,476,340

Opinion of Probable Construction Costs (OPCC) - Irasville and Route 100 South to Munn Site

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Route 100 South Collection System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	4%	\$73,850	
2	Sanitary Sewer Manhole 0-8 ft deep (4 ft Diameter)	EA	18	\$4,800	\$86,400	40
3	8" PVC Sanitary Sewer Main 0-8 ft deep	LF	4,500	\$115	\$517,500	40
4	6" Sanitary Sewer Lateral (Open Cut)	EA	19	\$1,100	\$20,900	40
5	6" Sanitary Sewer Lateral Jack and Bore 18" Steel Casing	EA	10	\$16,200	\$162,000	40
6	8" PVC Force Main	LF	8,290	\$26	\$215,540	40
7	Directional Bore 6" Forcemain	LF	120	\$124	\$14,880	40
8	Directional Bore 8" Forcemain	LF	240	\$145	\$34,800	40
9	Forcemain Air Release Manhole	EA	2	\$4,200	\$8,400	40
10	Forcemain Gate Valves	EA	2	\$1,600	\$3,200	40
11	Forcemain Cleanouts	EA	2	\$1,500	\$3,000	40
12	Pump Station 5 - 8 ft. Diameter Concrete Wetwell	EA	1	\$310,000	\$310,000	40
13	Pump Station 6 - 8 ft. Diameter Concrete Wetwell	EA	1	\$320,000	\$320,000	40
14	Roadway and Parking Pavement Restoration	SY	210	\$48	\$10,080	
15	Removal of Unsuitable Material	CY	300	\$30	\$9,000	
16	Miscellaneous Earth Excavation	CY	260	\$50	\$13,000	
17	Rock Excavation and Disposal	CY	330	\$200	\$66,000	
18	Driveway Restoration	EA	15	\$600	\$9,000	
19	Tree Demolition	EA	30	\$250	\$7,500	
20	Maintenance of Traffic	LS	1	\$25,000	\$25,000	
21	EPSC Plan	LS	1	\$10,000	\$10,000	
					OPCC Subtotal:	\$1,920,050
					20% Contingency:	\$384,010
					OPCC:	\$2,304,060
					Total Project Costs:	\$2,304,060



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: SDS DATE: 8/18/22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 4: IRASVILLE AND SOUTH TO MUNN SITE
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - Irasville and Route 100 South to Munn Site

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Munn Site Treatment and Disposal System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	10%	\$136,220	
2	Clearing and Grubbing	LS	1	\$50,000	\$50,000	
3	EPSC Plan	LS	1	\$50,000	\$50,000	
4	Traffic Control, All-Inclusive	LS	1	\$10,000	\$10,000	
5	2" Piping	LF	10,800	\$15	\$162,000	40
6	4" Manifold	LF	5,030	\$55	\$276,650	40
7	Forcemain	LF	390	\$35	\$13,650	40
8	Trench Excavation of Earth	CY	1,060	\$35	\$37,100	
9	Stone around piping	CY	3,700	\$50	\$185,000	
10	Filter Fabric	SY	4,800	\$5	\$24,000	
11	Septic Tank (1000 Gallon)	EA	1	\$7,500	\$7,500	60
12	Control Building/10,000 Gallon Dosing station	EA	1	\$115,000	\$115,000	60
13	Gravel road	SY	1,920	\$40	\$76,800	
14	Well	EA	1	\$20,000	\$20,000	30
15	Water Line	LF	370	\$75	\$27,750	40
16	Underground Electrical	LF	370	\$50	\$18,500	50
17	Electrical service connector	LS	1	\$5,000	\$5,000	
18	Cut	CY	7,340	\$25	\$183,500	
19	Fill	CY	5,220	\$25	\$130,500	
20	Wastewater Treatment Facility	EA	1	\$766,000	\$766,000	60
					OPCC Subtotal:	\$2,295,170
					20% Contingency:	\$459,040
					OPCC:	\$2,754,210
					Total Opinion of Probable Construction Costs:	\$2,754,210



PROJECT NO.: 227947
 CALCULATED BY: ZM
 CHECKED BY: JBA

DATE: 9-13-22
 DATE: 11-23-22

SCENARIO 4: IRASVILLE AND SOUTH TO MUNN SITE

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Project Cost Summary

PRELIMINARY OPINION OF PROBABLE PROJECT COST		
Description	Amount	Notes
Preliminary OPCC - Collection	\$ 5,780,400	
Preliminary OPCC - Treatment and Disposal	\$ 2,754,210	
Engineering Preliminary Design Phase Cost	\$ 244,800	Based on CWSRF Fee Allowance
Engineering Final Design Phase Cost	\$ 489,500	Based on CWSRF Fee Allowance
Engineering Construction Phase Cost	\$ 897,400	Based on CWSRF Fee Allowance
Legal/Fiscal Cost	\$ 85,400	
Administration Cost	\$ 85,400	1% of Construction costs
Sub-Total	\$ 10,337,110	
Total Project Capital Cost	\$ 10,337,110	

General Notes:

1. All estimated project cost amounts are rounded to the neared dollar
2. Total project capital cost is rounded up to the nearest thousands

POTENTIAL FUNDING TERMS & PROJECTED ERU COST		
Description	Amount	Notes
Assumed Grant	\$ 500,000	
Village WW Planning Loan Forgiveness	\$ 204,000	
Balance for Loan Repayment	\$ 9,633,200	
Total Repayment on 30-year loan	\$ 12,906,000	
Annual Repayment on 30-year loan	\$ 430,200	
Loan Payment Cost per ERU	\$ 1,033	
Annualized Operation & Maintenance	\$ 90,591	
Total Annual Cost per ERU	\$ 1,250	

General Notes:

1. All project costs associated with loan terms and projected ERU cost amounts and totals are rounded up to the nearest dollar



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: JSS DATE: 10/27/22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 5A: CLUSTERED DISPOSAL SITES
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - Village, Irasville and Route 100 South to Elem., MRG, and Munn Site

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Contract Plans

Village Collection System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	4%	\$48,980	
2	Sanitary Sewer Manhole 0-8 ft deep (4 ft Diameter)	EA	14	\$4,800	\$67,200	40
3	8" PVC Sanitary Sewer Main 0-8 ft deep	LF	3,710	\$115	\$426,650	40
4	8" PVC Sanitary Sewer Main Jack and Bore 20" Steel Sleeve	LF	70	\$480	\$33,600	40
5	6" Sanitary Sewer Lateral (Open Cut)	EA	25	\$1,100	\$27,500	40
6	6" Sanitary Sewer Lateral Jack and Bore 18" Steel Casing	EA	28	\$16,200	\$453,600	40
7	6" PVC Force Main	LF	3,270	\$23	\$75,210	40
8	Forcemain Air Release Manhole	EA	1	\$4,200	\$4,200	40
9	Forcemain Gate Valves	EA	2	\$1,600	\$3,200	40
10	Forcemain Cleanouts	EA	2	\$1,500	\$3,000	40
11	Roadway and Parking Pavement Restoration	SY	210	\$48	\$10,080	
12	Removal of Unsuitable Material	CY	250	\$30	\$7,500	
13	Miscellaneous Earth Excavation	CY	220	\$50	\$11,000	
14	Rock Excavation and Disposal	CY	270	\$200	\$54,000	
15	Driveway Restoration	EA	17	\$600	\$10,200	
16	Tree Demolition	EA	10	\$250	\$2,500	
17	Maintenance of Traffic	LS	1	\$25,000	\$25,000	
18	EPSC Plan	LS	1	\$10,000	\$10,000	
					OPCC Subtotal:	\$1,273,420
					20% Contingency:	\$254,690
					OPCC:	\$1,528,110
					Total Opinion of Probable Construction Costs:	\$1,528,110

Opinion of Probable Construction Costs (OPCC) - Village, Irasville and Route 100 South to Elem., MRG, and Munn Site

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Irasville Collection System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	4%	\$111,430	
2	Sanitary Sewer Manhole 0-8 ft deep (4 ft Diameter)	EA	28	\$4,800	\$134,400	40
3	Sanitary Sewer Manhole 8-10 ft deep (4 ft Diameter)	EA	1	\$5,300	\$5,300	40
4	Sanitary Sewer Manhole 10-12 ft deep (4 ft Diameter)	EA	1	\$5,900	\$5,900	40
5	8" PVC Sanitary Sewer Main 0-8 ft deep	LF	7,650	\$115	\$879,750	40
6	8" PVC Sanitary Sewer Main 8-10 ft deep	LF	110	\$124	\$13,640	40
7	8" PVC Sanitary Sewer Main 10-12 ft deep	LF	620	\$135	\$83,700	40
8	8" PVC Sanitary Sewer Main Jack and Bore 20" Steel Sleeve	LF	130	\$480	\$62,400	40
9	6" Sanitary Sewer Lateral (Open Cut)	EA	49	\$1,100	\$53,900	40
10	6" Sanitary Sewer Lateral Jack and Bore 18" Steel Casing	EA	16	\$16,200	\$259,200	40
11	6" PVC Force Main	LF	4,230	\$23	\$97,290	40
12	Forcemain Air Release Manhole	EA	1	\$4,200	\$4,200	40
13	Forcemain Gate Valves	EA	2	\$1,600	\$3,200	40
14	Forcemain Cleanouts	EA	2	\$1,500	\$3,000	40
15	Pump Station 4 - 8 ft. Diameter Concrete Wetwell	EA	2	\$300,000	\$600,000	40
16	Roadway and Parking Pavement Restoration	SY	630	\$48	\$30,240	
17	Removal of Unsuitable Material	CY	560	\$30	\$16,800	
18	Miscellaneous Earth Excavation	CY	480	\$50	\$24,000	
19	Rock Excavation and Disposal	CY	620	\$200	\$124,000	
20	Rock Excavation and Disposal - Irasville to Village Center	CY	1690	\$200	\$338,000	
21	Driveway Restoration	EA	11	\$600	\$6,600	
22	Tree Demolition	EA	20	\$250	\$5,000	
23	Maintenance of Traffic	LS	1	\$25,000	\$25,000	
24	EPSC Plan	LS	1	\$10,000	\$10,000	
					OPCC Subtotal:	\$2,896,950
					20% Contingency:	\$579,390
					OPCC:	\$3,476,340
					Total Opinion of Probable Construction Costs:	\$3,476,340



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: JSS DATE: 10/27/22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 5A: CLUSTERED DISPOSAL SITES
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - Village, Irasville and Route 100 South to Elem., MRG, and Munn Site

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Route 100 South Collection System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	4%	\$73,850	
2	Sanitary Sewer Manhole 0-8 ft deep (4 ft Diameter)	EA	18	\$4,800	\$86,400	40
3	8" PVC Sanitary Sewer Main 0-8 ft deep	LF	4,500	\$115	\$517,500	40
4	6" Sanitary Sewer Lateral (Open Cut)	EA	19	\$1,100	\$20,900	40
5	6" Sanitary Sewer Lateral Jack and Bore 18" Steel Casing	EA	10	\$16,200	\$162,000	40
6	8" PVC Force Main	LF	8,290	\$26	\$215,540	40
7	Directional Bore 6" Forcemain	LF	120	\$124	\$14,880	40
8	Directional Bore 8" Forcemain	LF	240	\$145	\$34,800	40
9	Forcemain Air Release Manhole	EA	2	\$4,200	\$8,400	40
10	Forcemain Gate Valves	EA	2	\$1,600	\$3,200	40
11	Forcemain Cleanouts	EA	2	\$1,500	\$3,000	40
12	Pump Station 5 - 8 ft. Diameter Concrete Wetwell	EA	1	\$310,000	\$310,000	40
13	Pump Station 6 - 8 ft. Diameter Concrete Wetwell	EA	1	\$320,000	\$320,000	40
14	Roadway and Parking Pavement Restoration	SY	210	\$48	\$10,080	
15	Removal of Unsuitable Material	CY	300	\$30	\$9,000	
16	Miscellaneous Earth Excavation	CY	260	\$50	\$13,000	
17	Rock Excavation and Disposal	CY	330	\$200	\$66,000	
18	Driveway Restoration	EA	15	\$600	\$9,000	
19	Tree Demolition	EA	30	\$250	\$7,500	
20	Maintenance of Traffic	LS	1	\$25,000	\$25,000	
21	EPSC Plan	LS	1	\$10,000	\$10,000	
					OPCC Subtotal:	\$1,920,050
					20% Contingency:	\$384,010
					OPCC:	\$2,304,060
					Total Project Costs:	\$2,304,060



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: SDS DATE: 8/18/22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 5A: CLUSTERED SITES
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - Clustered Disposal Sites

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Mad River Green and Waitsfield Elementary Treatment and Disposal Systems

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	10%	\$47,920	
2	Clearing and Grubbing	LS	2	\$10,000	\$20,000	
3	EPSC Plan	LS	2	\$10,000	\$20,000	
4	Traffic Control, All-Inclusive	LS	2	\$10,000	\$20,000	
5	Forcemain, Piping, and Manifold	LS	2	\$25,000	\$50,000	40
6	Leachfield Modifications	LS	2	\$40,000	\$80,000	
7	Control Building/10,000 Gallon Dosing station	LS	2	\$100,000	\$200,000	60
8	Site Work	LS	2	\$50,000	\$100,000	
9	Wastewater Treatment Facility	LS	2	\$200,000	\$400,000	60
					OPCC Subtotal:	\$937,920
					20% Contingency:	\$187,590
					OPCC:	\$1,125,510
Total Opinion of Probable Construction Costs:					\$1,125,510	

Opinion of Probable Construction Costs (OPCC) - Clustered Disposal Sites

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Munn Site Treatment and Disposal System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	10%	\$136,220	
2	Clearing and Grubbing	LS	1	\$50,000	\$50,000	
3	EPSC Plan	LS	1	\$50,000	\$50,000	
4	Traffic Control, All-Inclusive	LS	1	\$10,000	\$10,000	
5	2" Piping	LF	10,800	\$15	\$162,000	40
6	4" Manifold	LF	5,030	\$55	\$276,650	40
7	Forcemain	LF	390	\$35	\$13,650	40
8	Trench Excavation of Earth	CY	1,060	\$35	\$37,100	
9	Stone around piping	CY	3,700	\$50	\$185,000	
10	Filter Fabric	SY	4,800	\$5	\$24,000	
11	Septic Tank (1000 Gallon)	EA	1	\$7,500	\$7,500	60
12	Control Building/10,000 Gallon Dosing station	EA	1	\$115,000	\$115,000	60
13	Gravel road	SY	1,920	\$40	\$76,800	
14	Well	EA	1	\$20,000	\$20,000	30
15	Water Line	LF	370	\$75	\$27,750	40
16	Underground Electrical	LF	370	\$50	\$18,500	50
17	Electrical service connector	LS	1	\$5,000	\$5,000	
18	Cut	CY	7,340	\$25	\$183,500	
19	Fill	CY	5,220	\$25	\$130,500	
20	Wastewater Treatment Facility	EA	1	\$766,000	\$766,000	60
					OPCC Subtotal:	\$2,295,170
					20% Contingency:	\$459,040
					OPCC:	\$2,754,210
Total Opinion of Probable Construction Costs:					\$2,754,210	



PROJECT NO.: 227947
 CALCULATED BY: ZM
 CHECKED BY: JBA

DATE: 9-13-22
 DATE: 12-20-2022

SCENARIO 5A: CLUSTERED DISPOSAL SITES

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Project Cost Summary

PRELIMINARY OPINION OF PROBABLE PROJECT COST

Description	Amount	Notes
Preliminary OPCC - Collection	\$ 7,308,510	
Preliminary OPCC - Treatment and Disposal	\$ 3,879,720	
Engineering Preliminary Design Phase Cost	\$ 314,000	Based on CWSRF Fee Allowance
Engineering Final Design Phase Cost	\$ 628,000	Based on CWSRF Fee Allowance
Engineering Construction Phase Cost	\$ 1,151,400	Based on CWSRF Fee Allowance
Legal/Fiscal Cost	\$ 111,900	1% of Construction costs
Land/Easement Acquisition	\$ 150,000	Assumed Allowance
Sub-Total	\$ 13,543,530	

Total Project Capital Cost \$ 13,543,530

General Notes:

1. All estimated project cost amounts are rounded to the neared dollar
2. Total project capital cost is rounded up to the nearest thousands

POTENTIAL FUNDING TERMS & PROJECTED ERU COST

Description	Amount	Notes
Assumed Grant	\$ 500,000	
Village WW Planning Loan Forgiveness	\$ 204,000	
Balance for Loan Repayment	\$ 12,839,600	
Total Repayment on 30-year loan	\$ 17,199,000	
Annual Repayment on 30-year loan	\$ 573,300	
Loan Payment Cost per ERU	\$ 1,037	
Annualized Operation & Maintenance	\$ 153,798	
Total Annual Cost per ERU	\$ 1,315	

General Notes:

1. All project costs associated with loan terms and projected ERU cost amounts and totals are trounded up to the nearest dollar



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: JSS DATE: 9-19-22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 5B: ALL STUDY AREA TO MUNN AND SPAULD.
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - All of Study Area to Munn and Spaulding Sites

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Collection System - Whole Study Area

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	4%	\$430,580	
2	Sanitary Sewer Manhole 0-8 ft deep (4 ft Diameter)	EA	126	\$4,800	\$604,800	40
3	Sanitary Sewer Manhole 8-10 ft deep (4 ft Diameter)	EA	6	\$5,300	\$31,800	40
4	Sanitary Sewer Manhole 10-12 ft deep (4 ft Diameter)	EA	1	\$5,900	\$5,900	40
5	8" PVC Sanitary Sewer Main 0-8 ft deep	LF	35,600	\$115	\$4,094,000	40
6	8" PVC Sanitary Sewer Main 8-10 ft deep	LF	2,150	\$124	\$266,600	40
7	8" PVC Sanitary Sewer Main 10-12 ft deep	LF	620	\$135	\$83,700	40
8	8" PVC Sanitary Sewer Main Jack and Bore 20" Steel Sleeve	LF	320	\$480	\$153,600	40
9	6" Sanitary Sewer Lateral (Open Cut)	EA	192	\$1,100	\$211,200	40
10	6" Sanitary Sewer Lateral Jack and Bore 18" Steel Casing	EA	59	\$16,200	\$955,800	40
11	4" PVC Force Main	LF	2,260	\$21	\$47,460	40
12	6" PVC Force Main	LF	8,830	\$23	\$203,090	40
13	8" PVC Force Main	LF	9,330	\$26	\$242,580	40
14	Directional Bore 4" Forcemain	LF	150	\$106	\$15,900	40
15	Directional Bore 6" Forcemain	LF	120	\$124	\$14,880	40
16	Directional Bore 8" Forcemain	LF	160	\$145	\$23,200	40
17	Forcemain Air Release Manhole	EA	6	\$4,200	\$25,200	40
18	Forcemain Gate Valves	EA	8	\$1,600	\$12,800	40
19	Forcemain Cleanouts	EA	8	\$1,500	\$12,000	40
20	Pump Station 1 - 6 ft. Diameter Concrete Wetwell	EA	1	\$290,000	\$290,000	40
21	Pump Station 2 - 6 ft. Diameter Concrete Wetwell	EA	1	\$300,000	\$300,000	40
22	Pump Station 3 - 8 ft. Diameter Concrete Wetwell	EA	1	\$350,000	\$350,000	40
23	Pump Station 4 - 8 ft. Diameter Concrete Wetwell	EA	1	\$300,000	\$300,000	40
24	Pump Station 5 - 8 ft. Diameter Concrete Wetwell	EA	1	\$310,000	\$310,000	40
25	Pump Station 6 - 8 ft. Diameter Concrete Wetwell	EA	1	\$320,000	\$320,000	40
25A	Pump Station 7 - 8 ft. Diameter Concrete Wetwell	EA	1	\$290,000	\$290,000	40
25B	Pump Station 8 - 8 ft. Diameter Concrete Wetwell	EA	1	\$290,000	\$290,000	40
26	Roadway and Parking Pavement Restoration	SY	1,660	\$48	\$79,680	
27	Removal of Unsuitable Material	CY	2,560	\$30	\$76,800	
28	Miscellaneous Earth Excavation	CY	2,210	\$50	\$110,500	
29	Rock Excavation and Disposal	CY	2,830	\$200	\$566,000	
30	Rock Excavation and Disposal - Irasville to Village Center	CY	1,690	\$200	\$338,000	
31	Driveway Restoration	EA	40	\$600	\$24,000	
32	Tree Demolition	EA	220	\$250	\$55,000	
33	Maintenance of Traffic	LS	1	\$35,000	\$35,000	
34	EPSC Plan	LS	1	\$25,000	\$25,000	

OPCC Subtotal: \$11,195,070

20% Contingency: \$2,239,020

OPCC: \$13,434,090

Total Opinion of Probable Construction Costs: \$13,434,090



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: SDS DATE: 8/18/22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 5B: CLUSTERED SITES
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC) - Clustered Disposal Sites

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Cost Level Type: Conceptual

Spaulding Treatment and Disposal System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	10%	\$172,980	
2	Clearing and Grubbing	LS	1	\$50,000	\$50,000	
3	EPSC Plan	LS	1	\$50,000	\$50,000	
4	Traffic Control, All-Inclusive	LS	1	\$10,000	\$10,000	
5	2" Piping	LF	10,800	\$15	\$162,000	40
6	4" Manifold	LF	5,030	\$55	\$276,650	40
7	Forcemain	LF	390	\$35	\$13,650	40
8	Trench Excavation of Earth	CY	1,590	\$35	\$55,650	
9	Stone around piping	CY	5,550	\$50	\$277,500	
10	Filter Fabric	SY	7,200	\$5	\$36,000	
11	Septic Tank (1000 Gallon)	EA	1	\$7,500	\$7,500	60
12	Control Building/10,000 Gallon Dosing station	EA	1	\$172,500	\$172,500	60
13	Gravel road	SY	2,880	\$40	\$115,200	
14	Well	EA	1	\$20,000	\$20,000	30
15	Water Line	LF	370	\$75	\$27,750	40
16	Underground Electrical	LF	370	\$50	\$18,500	50
17	Electrical service connector	LS	1	\$5,000	\$5,000	
18	Cut	CY	11,010	\$25	\$275,250	
19	Fill	CY	7,830	\$25	\$195,750	
20	Wastewater Treatment Facility	EA	1	\$1,149,000	\$1,149,000	60
					OPCC Subtotal:	\$3,090,880
					20% Contingency:	\$618,176
					OPCC:	\$3,709,056
					Total Opinion of Probable Construction Costs:	\$3,709,056

Opinion of Probable Construction Costs (OPCC) - Clustered Disposal Sites

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Cost Level Type: Conceptual

Munn Site Treatment and Disposal System

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	10%	\$136,220	
2	Clearing and Grubbing	LS	1	\$50,000	\$50,000	
3	EPSC Plan	LS	1	\$50,000	\$50,000	
4	Traffic Control, All-Inclusive	LS	1	\$10,000	\$10,000	
5	2" Piping	LF	10,800	\$15	\$162,000	40
6	4" Manifold	LF	5,030	\$55	\$276,650	40
7	Forcemain	LF	390	\$35	\$13,650	40
8	Trench Excavation of Earth	CY	1,060	\$35	\$37,100	
9	Stone around piping	CY	3,700	\$50	\$185,000	
10	Filter Fabric	SY	4,800	\$5	\$24,000	
11	Septic Tank (1000 Gallon)	EA	1	\$7,500	\$7,500	60
12	Control Building/10,000 Gallon Dosing station	EA	1	\$115,000	\$115,000	60
13	Gravel road	SY	1,920	\$40	\$76,800	
14	Well	EA	1	\$20,000	\$20,000	30
15	Water Line	LF	370	\$75	\$27,750	40
16	Underground Electrical	LF	370	\$50	\$18,500	50
17	Electrical service connector	LS	1	\$5,000	\$5,000	
18	Cut	CY	7,340	\$25	\$183,500	
19	Fill	CY	5,220	\$25	\$130,500	
20	Wastewater Treatment Facility	EA	1	\$766,000	\$766,000	60
					OPCC Subtotal:	\$2,295,170
					20% Contingency:	\$459,034
					OPCC:	\$2,754,204
					Total Opinion of Probable Construction Costs:	\$2,754,204



PROJECT NO.: 227947
 CALCULATED BY: ZM DATE: 9-13-22
 CHECKED BY: JBA DATE: 11-23-22

SCENARIO 5B: CLUSTERED DISPOSAL SITES

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Project Cost Summary

PRELIMINARY OPINION OF PROBABLE PROJECT COST

Description	Amount	Notes
Preliminary OPCC - Collection	\$ 13,434,090	
Preliminary OPCC - Treatment and Disposal	\$ 6,463,260	
Engineering Preliminary Design Phase Cost	\$ 533,500	Based on CWSRF Fee Allowance
Engineering Final Design Phase Cost	\$ 1,067,000	Based on CWSRF Fee Allowance
Engineering Construction Phase Cost	\$ 1,956,100	Based on CWSRF Fee Allowance
Legal/Fiscal Cost	\$ 199,000	1% of Construction costs
Land/Easement Acquisition	\$ 200,000	Assumed Allowance
Sub-Total	\$ 23,852,950	

Total Project Capital Cost \$ 23,852,950

General Notes:

1. All estimated project cost amounts are rounded to the neared dollar
2. Total project capital cost is rounded up to the nearest thousands

POTENTIAL FUNDING TERMS & PROJECTED ERU COST

Description	Amount	Notes
Assumed Grant	\$ 500,000	
Village WW Planning Loan Forgiveness	\$ 204,000	
Balance for Loan Repayment	\$ 23,149,000	
Total Repayment on 30-year loan	\$ 31,011,000	
Annual Repayment on 30-year loan	\$ 1,033,700	
Loan Payment Cost per ERU	\$ 1,106	
Annualized Operation & Maintenance	\$ 154,854	
Total Annual Cost per ERU	\$ 1,272	

General Notes:

1. All project costs associated with loan terms and projected ERU cost amounts and totals are rounded up to the nearest dollar

APPENDIX K



PROJECT NO.: 227947
 CALCULATED BY: ZWM
 CHECKED BY: JBA

DATE: 10-12-22
 DATE: 11-23-22

SCENARIO 1: DO NOTHING

Life Cycle Cost Analysis (LCCA)

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Life Cycle Cost Analysis

Term of Analysis (Years): 30
Real Interest Rate: 0.5%

Description	Amount	Notes	
Opinion of Probable Construction Cost	\$ -		
Engineering Preliminary Design Phase Cost	\$ -		
Engineering Final Design Phase Cost	\$ -		
Engineering Construction Phase Cost	\$ -		
Legal/Fiscal Cost	\$ -		
Administration Cost	\$ -		
Land/Easement Acquisition	\$ -		
Total Project Capital Cost	\$ -		
O&M Costs			
Description	Amount	Frequency	Notes
Replace Existing Septic System	VARIABLE	VARIABLE	\$12,500-\$50,000 (depending on soil conditions)
Septic Tank Pumping	\$ 400	Every 4 Years	
Total Present Worth of O&M and Replacement Cost	\$7,499,062		
Salvage Value			
Description	Amount	Frequency	Notes
Salvage Value of Septic System	VARIABLE	N/A	Linear Regression Used
Present Worth of Project Salvage Value After Analysis Term	\$ 1,619,884		
Total Net Present Value:			\$5,879,178
Estimated Existing ERUs:			347.1
NPV/ERU:			\$16,936

Notes:

1. For the Do Nothing Scenario, 1 ERU = 420 gpd (design flow for a 3 bedroom single family home on its own septic system)

MAPID	Property Description	E911ADDR	Assumed WW Age	Soil Suitability	Area (Acres)	WW Age	Years to Replacement	Category	Cost of Replacement	Present Worth of Replacement	Salvage Value	Salvage Value (Present Worth)	Pumping Cost (Present Worth)	Parcel Cost for Septic Replacement (Present Worth)	
01001.000	LIBRARY A	4391 MAIN ST	2014	well	0.329359608	8	22	2	22,500	20,162	16,500	14,207	2,987	8,942	
01002.000	.5 DWL & SHOP	27 BRIDGE ST	1995	well	0.488715415	27	3	2	22,500	22,166	2,250	1,937	2,987	23,216	
01003.000	1. A; COMM BLDG	45 BRIDGE ST	1992	marginally	1.272046627	30	0	4	50,000	50,000	0	0	2,987	52,987	
01004.000	0.26 A; COMM BDG	20 BRIDGE ST	1972	well	0.256363044	50	0	2	22,500	22,500	0	0	2,987	25,487	
03043.000	0.5 A;DWL; CAMP	903 NORTH RD	1978	well	0.79013035	44	0	2	22,500	22,500	0	0	2,987	25,487	
03055.021	3.2A	WHITE PINE DEVELOPMENT LOT 21	1980	well	3.16712695	42	0	1	12,500	12,500	0	0	2,987	15,487	
12000.000	1 A; DWL	26 OLD COUNTY RD	1987	well	0.894301713	35	0	2	22,500	22,500	0	0	2,987	25,487	
12001.000	1 A; DWL	75 OLD COUNTY RD	1942	well	1.289430876	80	0	2	22,500	22,500	0	0	2,987	25,487	
12001.100	3.5A; DWL	153 OLD COUNTY RD	2007	well	3.630852679	15	15	1	12,500	11,599	6,250	5,381	2,987	9,205	
12002.000	1.79 A; DWL	72 DEERFIELD DRIVE	2005	well	1.572033075	17	13	2	22,500	21,087	9,750	8,395	2,987	15,680	
12002.100	1.05 A; DWL	40 DEERFIELD DRIVE	2005	well	0.897864181	17	13	2	22,500	21,087	9,750	8,395	2,987	15,680	
12002.200	1.06A; DWL	38 DEERFIELD DRIVE	2005	well	1.296225172	17	13	2	22,500	21,087	9,750	8,395	2,987	15,680	
12003.000	25 A; DWL	152 OLD COUNTY RD	1978	well	34.06181487	44	0	1	12,500	12,500	0	0	2,987	15,487	
12004.000	1 A; DWL	120 OLD COUNTY RD	1850	well	0.422952889	172	0	2	22,500	22,500	0	0	2,987	25,487	
12005.000	1 A; DWL	247 OLD COUNTY RD	1960	well	1.041191389	62	0	2	22,500	22,500	0	0	2,987	25,487	
12006.000	1.04 A; DWL	307 OLD COUNTY RD	1979	well	1.116005267	43	0	2	22,500	22,500	0	0	2,987	25,487	
12007.000	1.9 A; DWL/APT	309 OLD COUNTY RD	1973	marginally	2.064445872	49	0	4	50,000	50,000	0	0	2,987	52,987	
12008.000	1.2 A; DWL	271 OLD COUNTY RD	1967	marginally	1.531411197	55	0	4	50,000	50,000	0	0	2,987	52,987	
12009.000	1.86 A; DWL	278 OLD COUNTY RD	1800	well	1.82249963	222	0	2	22,500	22,500	0	0	2,987	25,487	
12010.000	2 A; DWL	333 OLD COUNTY RD	1963	marginally	2.062163667	59	0	4	50,000	50,000	0	0	2,987	52,987	
12011.000	0.7 A; DWL	300 OLD COUNTY RD	1966	well	0.650710038	56	0	2	22,500	22,500	0	0	2,987	25,487	
12012.000	1 A; DWL	363 OLD COUNTY RD	1977	marginally	0.989982446	45	0	4	50,000	50,000	0	0	2,987	52,987	
12013.000	1.26 A; DWL	348 OLD COUNTY RD	1963	well	1.096339738	59	0	2	22,500	22,500	0	0	2,987	25,487	
12014.000	4.2 A; DWL	74 BRIGHTENBACK LN	1978	well	5.637013253	44	0	1	12,500	12,500	0	0	2,987	15,487	
12016.000	5.3 A; DWL	447 OLD COUNTY RD	2004	marginally	5.229143629	18	12	4	50,000	47,095	20,000	17,221	2,987	32,862	
12017.000	0.7 A; DWL	376 OLD COUNTY RD	1952	well	0.631125934	70	0	2	22,500	22,500	0	0	2,987	25,487	
12018.000	1 A; DWL	39 BRIGHTENBACK LN	2002	marginally	1.363016366	20	10	4	50,000	47,567	16,667	14,350	2,987	36,204	
12019.000	6.15 A; DWL	73 BRIGHTENBACK LN	2001	marginally	5.515465426	21	9	4	50,000	47,805	15,000	12,915	2,987	37,877	
12020.000	10.2A; B&B	550 OLD COUNTY RD	1850	marginally	10.21476581	172	0	4	50,000	50,000	0	0	2,987	52,987	
12020.100	28.03A; DWL	215 BRIGHTENBACK LN	2001	moderately	28.44806135	21	9	3	35,000	33,464	10,500	9,041	2,987	27,410	
12020.200	2.06 A; DWL	161 BRIGHTENBACK LN	2002	moderately	2.017782222	20	10	3	35,000	33,297	11,667	10,045	2,987	26,239	
12020.300	2.35A DWL	206 BRIGHTENBACK LN	2005	moderately	2.081185024	17	13	3	35,000	32,803	15,167	13,059	2,987	22,731	
12021.000	0.38 A; DWL	615 OLD COUNTY RD	1961	marginally	0.387924338	61	0	4	50,000	50,000	0	0	2,987	52,987	
12022.000	2 A; DWL	648 OLD COUNTY RD	1830	marginally	1.294913231	192	0	4	50,000	50,000	0	0	2,987	52,987	
12023.000	1 A; DWL	705 OLD COUNTY RD	1948	marginally	0.677530397	74	0	4	50,000	50,000	0	0	2,987	52,987	
12024.000	1.5 A; DWL	664 OLD COUNTY RD	2017	marginally	1.798818262	5	25	4	50,000	44,139	41,667	35,876	2,987	11,250	
12025.000	1 A; DWL	690 OLD COUNTY RD	1900	marginally	1.02997218	122	0	4	50,000	50,000	0	0	2,987	52,987	
12026.000	1 A; DWL	756 OLD COUNTY RD	1850	marginally	1.415552944	172	0	4	50,000	50,000	0	0	2,987	52,987	
14001.000	1.04 A; DWL	24 OLD CENTER FAYSTON RD	2019	well	0.963377034	3	27	2	22,500	19,665	20,250	17,436	2,987	5,217	
14002.000	0.62 A; DWL	89 OLD CENTER FAYSTON RD	1964	well	0.641309954	58	0	2	22,500	22,500	0	0	2,987	25,487	
14003.000	DWL: 3.84A;	169 OLD CENTER FAYSTON RD	2004	well	3.964091179	18	12	1	12,500	11,774	5,000	4,305	2,987	10,456	
14003.002	1.43 A & DBL WIDE	131 OLD CENTER FAYSTON RD	2010	well	1.377531743	12	18	2	22,500	20,568	13,500	11,624	2,987	11,931	
14003.003	1.21A; DWL	127 OLD CENTER FAYSTON RD	2004	well	1.189402097	18	12	2	22,500	21,193	9,000	7,749	2,987	16,431	
14004.000	1.2 A; DWL	195 OLD CENTER FAYSTON RD	2020	well	0.993769264	2	28	2	22,500	19,567	21,000	18,082	2,987	4,473	
14005.000	1.75 A;DWL	176 OLD CENTER FAYSTON RD	2002	well	1.336931555	20	10	2	22,500	21,405	7,500	6,458	2,987	17,935	
14006.000	5.5A; DWL	227 OLD CENTER FAYSTON RD	2001	moderately	5.68689418	21	9	3	35,000	33,464	10,500	9,041	2,987	27,410	
14006.500	2.3 A; DWL	223 OLD CENTER FAYSTON RD	2006	moderately	2.002430168	16	14	3	35,000	32,639	16,333	14,063	2,987	21,563	
14007.000	1.44 A	264 OLD CENTER FAYSTON RD	2013	moderately	1.52761398	9	21	3	35,000	31,520	24,500	21,095	2,987	13,412	
14009.000	1.4A; CAMP	324 OLD CENTER FAYSTON RD	1973	moderately	1.843794419	49	0	3	35,000	35,000	0	0	2,987	37,987	
15001.000	0.94 ACRES	TREMBLAY RD	land	marginally	1.073571914	#VALUE!	#VALUE!	4	0	0	0	0	0	0	
15003.000	3 A; DWL	98 TREMBLAY RD	1999	marginally	2.47845724	23	7	4	50,000	48,284	11,667	10,045	2,987	41,226	
15004.000	4.23; INN	243 TREMBLAY RD	1860	marginally	4.022845413	162	0	4	50,000	50,000	0	0	2,987	52,987	
15004.100	2.2A	TREMBLAY RD	land	marginally	2.714061705	#VALUE!	#VALUE!	4	0	0	0	0	0	2,987	0
15005.000	8 A; DWL	68 VILLAGE WOODS	1978	marginally	7.979018129	44	0	4	50,000	50,000	0	0	2,987	52,987	
15006.000	4.3 A; DWL	117 VILLAGE WOODS	2006	marginally	3.999046221	16	14	4	50,000	46,628	23,333	20,091	2,987	29,524	
15006.100	2.64 A; DWL	203 VILLAGE WOODS	1973	marginally	2.497052752	49	0	4	50,000	50,000	0	0	2,987	52,987	
15006.200	2.1A MH & GRG	324 TREMBLAY RD	2006	marginally	1.833977945	16	14	4	50,000	46,628	23,333	20,091	2,987	29,524	
15007.500	28A DWL	168 VILLAGE WOODS	1975	marginally	30.27776479	47	0	4	50,000	50,000	0	0	2,987	52,987	
15009.000	2.0 A; DWL	236 VILLAGE WOODS	1979	marginally	2.70292605	43	0	4	50,000	50,000	0	0	2,987	52,987	
15010.000	2.8 A; DWL	307 VILLAGE WOODS	1981	well	3.224019235	41	0	1	12,500	12,500	0	0	2,987	15,487	
15011.000	3.7 A; DWL	342 VILLAGE WOODS	1980	well	4.074467449	42	0	1	12,500	12,500	0	0	2,987	15,487	
15012.000	2.1 A; DWL	329 VILLAGE WOODS	1978	well	2.147257938	44	0	1	12,500	12,500	0	0	2,987	15,487	
15013.000	1.9 A; DWL	447 VILLAGE WOODS	1978	marginally	2.199512155	44	0	4	50,000	50,000	0	0	2,987	52,987	
15014.000	3.1 A; DWL	474 VILLAGE WOODS	1989	marginally	3.441846324	33	0	4	50,000	50,000	0	0	2,987	52,987	
15015.000	4.1 A; DWL	563 VILLAGE WOODS	1974	well	4.511769459	48	0	1	12,500	12,500	0	0	2,987	15,487	
15016.000	8.6A; DWL	565 VILLAGE WOODS	1997	well	8.653891807	25	5	1	12,500	12,192	2,083	1,794	2,987	13,386	
15017.000	7.3 A DWL	617 VILLAGE WOODS	2004	moderately	8.885796395	18	12	3	35,000	32,967	14,000	12,054	2,987	23,900	

MAPID	Property Description	E911ADDR	Assumed WW Age	Soil Suitability	Area (Acres)	WW Age	Years to Replacement	Category	Cost of Replacement	Present Worth of Replacement	Salvage Value	Salvage Value (Present Worth)	Pumping Cost (Present Worth)	Parcel Cost for Septic Replacement (Present Worth)
15018.000	10 A; DWL	660 VILLAGE WOODS	1980	marginally	9.453537796	42	0	4	50,000	50,000	0	0	2,987	52,987
15019.000	4.9 A DWL	646 VILLAGE WOODS	2006	marginally	4.502354795	16	14	4	50,000	46,628	23,333	20,091	2,987	29,524
15020.000	LOT 9; 3.4A; DWL	562 VILLAGE WOODS	1988	moderately	3.889607964	34	0	3	35,000	35,000	0	0	2,987	37,987
15021.000	10.7 A; VERD-MONT PARK	TREMBLAY RD	2004	marginally	10.76170618	18	12	4	50,000	47,095	20,000	17,221	2,987	32,862
15022.000	0.4 A; DWL	363 TREMBLAY RD	1997	not suited	0.415581203	25	5	4	50,000	48,769	8,333	7,175	2,987	44,581
15023.000	3.24 A; MH	416 TREMBLAY RD	1985	not suited	3.128892501	37	0	4	50,000	50,000	0	0	2,987	52,987
15024.000	3.2 A; DWL	127 YORK DR	2011	well	3.188201847	11	19	1	12,500	11,370	7,917	6,816	2,987	7,541
15025.000	2.3 A; DWL	175 YORK DR	1985	well	2.325446598	37	0	1	12,500	12,500	0	0	2,987	15,487
15026.000	1.2 A; DWL	177 YORK DR	2020	well	1.046344614	2	28	2	22,500	19,567	21,000	18,082	2,987	4,473
15027.000	1.3 A; DWL	201 YORK DR	1977	well	1.560188751	45	0	2	22,500	22,500	0	0	2,987	25,487
15028.000	10.9A; DWL	269 WHITE PINE DR	1992	well	11.42483412	30	0	1	12,500	12,500	0	0	2,987	15,487
15028.100	3.2 A	WHITE PINE DR	land	well	3.712313335	#VALUE!	#VALUE!	1	0	0	0	0	0	0
15029.003	12.25 A	742 NORTH RD	2016	well	12.16216611	6	24	1	12,500	11,090	10,000	8,610	2,987	5,467
15030.000	10.8A; TOWN SHED	761 TREMBLAY RD	2002	well	10.81712046	20	10	1	12,500	11,892	4,167	3,588	2,987	11,292
23001.100	1 A; MOVIE THEATRE	48 CARROLL RD	2018	not suited	1.017430321	4	26	4	50,000	43,919	43,333	37,311	2,987	9,595
23001.200	1.52A; COMM	98 CARROLL RD	2015	not suited	1.523481314	7	23	4	50,000	44,581	38,333	33,006	2,987	14,562
23003.000	9.64 A; COMM BLDG	155 CARROLL RD	2018	not suited	8.928320382	4	26	4	50,000	43,919	43,333	37,311	2,987	9,595
23005.000	2.11 A; LUMBER SUPPLY	154 CARROLL RD	2017	not suited	2.100350042	5	25	4	50,000	44,139	41,667	35,876	2,987	11,250
30001.000	0.9 A; DWL	67 KINGSBURY RD	1966	moderately	0.8322286	56	0	3	35,000	35,000	0	0	2,987	37,987
30002.000	0.6 A; DWL/OFFICE	148 KINGSBURY RD	1963	well	0.726214816	59	0	2	22,500	22,500	0	0	2,987	25,487
30003.000	3.25 A; DWL	192 KINGSBURY RD	1965	well	2.281445644	57	0	1	12,500	12,500	0	0	2,987	15,487
30004.000	40 A; DWL	240 KINGSBURY RD	1984	moderately	38.15499855	38	0	3	35,000	35,000	0	0	2,987	37,987
37001.000	0.75 A; APT BLDG	45 PARSONAGE LN	1967	well	0.452270764	55	0	2	22,500	22,500	0	0	2,987	25,487
37002.000	0.5 A; PARSONAGE	55 PARSONAGE LN	1999	well	0.545830516	23	7	2	22,500	21,728	5,250	4,520	2,987	20,195
37003.000	0.6 A; DWL	47 MEHURON DR	1968	well	0.583891668	54	0	2	22,500	22,500	0	0	2,987	25,487
37004.000	0.7 A; DWL	60 MEHURON DR	1965	well	0.753205204	57	0	2	22,500	22,500	0	0	2,987	25,487
37005.000	1.6 A; DWL	115 MEHURON DR	2019	well	1.579219932	3	27	2	22,500	19,665	20,250	17,436	2,987	5,217
37006.000	17 A; DWL	155 MEHURON DR	1989	moderately	19.00585111	33	0	3	35,000	35,000	0	0	2,987	37,987
37007.000	17 A; DWL	157 MEHURON DR	1991	moderately	17.3817622	31	0	3	35,000	35,000	0	0	2,987	37,987
38001.000	1.41 A; OFFICE/ 4 APTS	156 DUGWAY RD	1838	well	1.41512577	184	0	2	22,500	22,500	0	0	2,987	25,487
38002.000	1.11 A; DWL	152 DUGWAY RD	2004	well	1.054895666	18	12	2	22,500	21,193	9,000	7,749	2,987	16,431
38003.000	0.86 A; DWL/APT	112 DUGWAY RD	1857	well	1.024003006	165	0	2	22,500	22,500	0	0	2,987	25,487
38004.000	1.07 A; COMMON LAND	100 DUGWAY RD	1989	well	1.050999854	33	0	2	22,500	22,500	0	0	2,987	25,487
38005.000	0.21 A; DWL	106 DUGWAY RD	2013	well	0.209422446	9	21	2	22,500	20,263	15,750	13,561	2,987	9,689
38006.000	0.86 A; DWL	58 DUGWAY RD	1840	moderately	0.66333403	182	0	3	35,000	35,000	0	0	2,987	37,987
38008.000	7.33 A; 24 APT UNITS	144 BUTCHER HOUSE DR	2008	moderately	7.161379394	14	16	3	35,000	32,316	18,667	16,073	2,987	19,230
38009.000	10.31 A; DWL	118 BUTCHER HOUSE DR	1972	moderately	10.6460072	50	0	3	35,000	35,000	0	0	2,987	37,987
38010.000	1 A; STORAGE BARN	49 BUTCHER HOUSE DR	1982	moderately	0.87159503	40	0	3	35,000	35,000	0	0	2,987	37,987
45001.000	020000	TREMBLAY RD	land	well	2.03869325	#VALUE!	#VALUE!	1	0	0	0	0	0	0
45002.000	1.3 A; DWL	115 PINE BROOK RD	1965	well	1.243855845	57	0	2	22,500	22,500	0	0	2,987	25,487
45003.000	1.3 A; DWL	151 PINE BROOK RD	1973	well	1.326958694	49	0	2	22,500	22,500	0	0	2,987	25,487
45004.000	1.2 A; DWL	181 PINE BROOK RD	1976	well	1.013089098	46	0	2	22,500	22,500	0	0	2,987	25,487
45005.000	1.23 A; DWL	271 PINE BROOK RD	1965	well	0.997517485	57	0	2	22,500	22,500	0	0	2,987	25,487
45006.000	1.27 A; DWL	279 PINE BROOK RD	1973	well	1.19596925	49	0	2	22,500	22,500	0	0	2,987	25,487
45007.000	1.2 A; DWL	336 PINE BROOK RD	1995	well	0.818063565	27	3	2	22,500	22,166	2,250	1,937	2,987	23,216
45008.000	1.3 A; DWL	334 PINE BROOK RD	2002	well	1.321049895	20	10	2	22,500	21,405	7,500	6,458	2,987	17,935
45009.000	1.1 A; DWL	320 PINE BROOK RD	1975	well	0.951015079	47	0	2	22,500	22,500	0	0	2,987	25,487
45010.000	3.2A; COMMON LAND	PINE BROOK RD	land	well	3.556652827	#VALUE!	#VALUE!	1	0	0	0	0	0	0
45011.000	1.2 A; DWL	262 PINE BROOK RD	1972	well	0.993941555	50	0	2	22,500	22,500	0	0	2,987	25,487
45012.000	1.1 A; DWL	242 PINE BROOK RD	1965	well	0.914793541	57	0	2	22,500	22,500	0	0	2,987	25,487
45013.000	1.1 A; DWL	CONFIDENTIAL	<1978	well	0.762251782	#VALUE!	0	2	22,500	22,500	0	0	2,987	25,487
45014.000	1.6 A; DWL	80 PINE BROOK RD	2019	well	1.486759531	3	27	2	22,500	19,665	20,250	17,436	2,987	5,217
45015.000	1.6 A; DWL	78 PINE BROOK RD	2012	well	1.467934399	10	20	2	22,500	20,364	15,000	12,915	2,987	10,436
99031	129.0 A; FARM/APT	2758 MAIN ST	2020	marginally	71.36173545	2	28	4	50,000	43,483	46,667	40,181	2,987	6,289
99033.000	5 A; & DWLS & MH	57 ARMSTRONG RD	1969	marginally	5.700032048	53	0	4	50,000	50,000	0	0	2,987	52,987
99035.000	1.5 A; GAS DEPOT	3224 MAIN ST	not available	marginally	1.705481363	#VALUE!	0	4	50,000	50,000	0	0	2,987	52,987
99036.000	2.75 A	3399 MAIN ST	not available	marginally	2.834110187	#VALUE!	0	4	50,000	50,000	0	0	2,987	52,987
99037.000	74.2 A	3292 MAIN ST	land	marginally	74.27681951	#VALUE!	#VALUE!	4	0	0	0	0	0	0
99038.000	3.51 A; DWL	3328 MAIN ST	2006	well	3.663951793	16	14	1	12,500	11,657	5,833	5,023	2,987	9,622
99040.000	45 A; DWL/COMM	3337 MAIN ST	2009	marginally	43.41838418	13	17	4	50,000	45,935	28,333	24,396	2,987	24,527
99041.000	2 A;DWL	3491 MAIN ST	1977	marginally	1.92837453	45	0	4	50,000	50,000	0	0	2,987	52,987
99042.000	3.2 A; DWL/COMM BLDG	3489 MAIN ST	1979	marginally	2.76114896	43	0	4	50,000	50,000	0	0	2,987	52,987
99043.000	0.7 A; DWL/APT	3534 MAIN ST	1961	well	0.749809771	61	0	2	22,500	22,500	0	0	2,987	25,487
99044.000	2.3 A; DWL	3596 MAIN ST	1946	well	1.963911644	76	0	2	22,500	22,500	0	0	2,987	25,487
99045.000	4 A; DWL	3693 MAIN ST	1979	marginally	6.89651111	43	0	4	50,000	50,000	0	0	2,987	52,987
99046.000	64.77 A; DWL	4242 MAIN ST	2008	moderately	72.99536756	14	16	3	35,000	32,316	18,667	16,073	2,987	19,230
99046.001	0.62A; COMMON LAND....	4200 MAIN ST	2001	well	0.522172999	21	9	2	22,500	21,512	6,750	5,812	2,987	18,688

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99046.050	0.85 A OFFICE	4144 MAIN ST	2014	well	0.894120198	8	22	2	22,500	20,162	16,500	14,207	2,987	8,942
99046.100	158 A	MAIN ST	1971	moderately	156.8579053	51	0	3	35,000	35,000	0	0	2,987	37,987
99047.000	31.2 A; OFFICE BLDG	3898 MAIN ST	1995	marginally	31.66620997	27	3	4	50,000	49,257	5,000	4,305	2,987	47,940
99048.000	0.26 A; DWL	3962 MAIN ST	1946	marginally	0.258921143	76	0	4	50,000	50,000	0	0	2,987	52,987
99049.000	2 A; COMM BLDG	4036 MAIN ST	2002	marginally	2.430837411	20	10	4	50,000	47,567	16,667	14,350	2,987	36,204
99050.000	1 A; HEALTH CTR	859 OLD COUNTY RD	2005	marginally	0.71483369	17	13	4	50,000	46,861	21,667	18,656	2,987	31,193
99051.000	7.7 A; SCHOOL	3951 MAIN ST	1990	moderately	7.418362726	32	0	3	35,000	35,000	0	0	2,987	37,987
99051.100	1.3 A; COMM	4103 MAIN ST	1991	well	1.256221867	31	0	2	22,500	22,500	0	0	2,987	25,487
99051.200	0.7A; COMMON LAND	4125 MAIN ST	1982	well	0.457953047	40	0	2	22,500	22,500	0	0	2,987	25,487
99052.000	0.97; WAIT HOUSE	4061 MAIN ST	1900	well	0.971592685	122	0	2	22,500	22,500	0	0	2,987	25,487
99053.000	0.5 A; DWL	4102 MAIN ST	1960	well	0.494534376	62	0	2	22,500	22,500	0	0	2,987	25,487
99054.000	0.23 A; DWL	4124 MAIN ST	2016	well	0.279695475	6	24	2	22,500	19,962	18,000	15,499	2,987	7,450
99055.000	0.36 A; COM BLDG/1 APT	4147 MAIN ST	1850	well	0.380378818	172	0	2	22,500	22,500	0	0	2,987	25,487
99056.000	0.25 A; DWL	4167 MAIN ST	not available	well	0.289680844	#VALUE!	0	2	22,500	22,500	0	0	2,987	25,487
99057.000	2.61 A; COMM	4177 MAIN ST	2010	moderately	2.585343275	12	18	3	35,000	31,995	21,000	18,082	2,987	16,900
99058.000	0.67 A; DWL	4199 MAIN ST	1845	well	0.660807967	177	0	2	22,500	22,500	0	0	2,987	25,487
99059.000	0.27 A; OFFICE/4APTS	4219 MAIN ST	1820	well	0.436132683	202	0	2	22,500	22,500	0	0	2,987	25,487
99060.000	0.5 A;DWL	4235 MAIN ST	1999	well	0.580037853	23	7	2	22,500	21,728	5,250	4,520	2,987	20,195
99061.000	0.56 A; DWL	4261 MAIN ST	2019	well	0.546217613	3	27	2	22,500	19,665	20,250	17,436	2,987	5,217
99062.000	0.49 A; COMMON LAND	4254 MAIN ST	1993	well	0.489170917	29	1	2	22,500	22,388	750	646	2,987	24,730
99063.000	.05A; COMMON SITE	MAIN ST	land	well	0.04998026	#VALUE!	#VALUE!	2	0	0	0	0	0	0
99064.000	0.63 A; COM BLDG/3APTS	4276 MAIN ST	2022	well	0.443969442	0	30	2	22,500	19,373	22,500	19,373	2,987	2,987
99065.000	0.62 A; DWL	4277 MAIN ST	2014	well	0.671295401	8	22	2	22,500	20,162	16,500	14,207	2,987	8,942
99066.000	0.77 A; COM BDG/4 APTS	4317 MAIN ST	1834	well	0.80187745	188	0	2	22,500	22,500	0	0	2,987	25,487
99067.000	0.78 A; SHOP/DWL	4312 MAIN ST	2006	well	0.664153285	16	14	2	22,500	20,983	10,500	9,041	2,987	14,929
99068.000	0.47 A; 2 COMM BLDGS	4324 MAIN ST	1920	well	0.454861913	102	0	2	22,500	22,500	0	0	2,987	25,487
99069.000	0.5 A; MINIMART/SPT	4348 MAIN ST	1840	well	0.48827023	182	0	2	22,500	22,500	0	0	2,987	25,487
99070.000	0.2 AC & SHOP/ 3 APTS	4366 MAIN ST	2001	well	0.172316723	21	9	2	22,500	21,512	6,750	5,812	2,987	18,688
99071.000	0.06 A; MASONIC HALL	4376 MAIN ST	1865	well	0.057960655	157	0	2	22,500	22,500	0	0	2,987	25,487
99072.000	2.45A; CHURCH	4335 MAIN ST	2014	marginally	2.471474844	8	22	4	50,000	44,804	36,667	31,571	2,987	16,220
99073.000	080000	MAIN ST	land	well	0.504724466	#VALUE!	#VALUE!	2	0	0	0	0	0	0
99101.000	0.24 A; PARKING LOT	MAIN ST	land	well	0.23565967	#VALUE!	#VALUE!	2	0	0	0	0	0	0
99102.000	0.9 A; COMM BLDG/2APTS	34 FARR LN	1990	well	0.951484768	32	0	2	22,500	22,500	0	0	2,987	25,487
99103.000	0.5 A; 2 APTS/OFFICES	46 FARR LN	1979	well	1.059466008	43	0	2	22,500	22,500	0	0	2,987	25,487
99104.000	0.3 A; OFFICE BLDG	4402 MAIN ST	1982	well	0.288653611	40	0	2	22,500	22,500	0	0	2,987	25,487
99105.000	0.2 A; COMM BLDG/APT	4412 MAIN ST	1900	well	0.211523411	122	0	2	22,500	22,500	0	0	2,987	25,487
99107.000	3.16 A; 496 DIAL OFFICE	54 FARR LN	1967	moderately	3.226599718	55	0	3	35,000	35,000	0	0	2,987	37,987
99108.000	2A; COMMON LAND	MAIN ST	2009	marginally	1.80368432	13	17	4	50,000	45,935	28,333	24,396	2,987	24,527
99109.100	0.5A DWL	4492 MAIN ST	1840	well	0.488979172	182	0	2	22,500	22,500	0	0	2,987	25,487
99110.000	1.6 A; OFICE BLDG	4477 MAIN ST	1991	marginally	1.682677945	31	0	4	50,000	50,000	0	0	2,987	52,987
99111.000	1 A; DWL	4509 MAIN ST	2009	marginally	0.881667977	13	17	4	50,000	45,935	28,333	24,396	2,987	24,527
99112.000	0.22 A; DWL	4524 MAIN ST	2021	well	0.294232937	1	29	2	22,500	19,470	21,750	18,727	2,987	3,730
99113.000	0.3 A; OFFICE/2 APTS	4529 MAIN ST	1860	well	0.230972011	162	0	2	22,500	22,500	0	0	2,987	25,487
99114.000	0.25 A; SHED/SHOP	4544 MAIN ST	<1986	well	0.226877463	#VALUE!	0	2	22,500	22,500	0	0	2,987	25,487
99115.000	1.7 A; DWL	4581 MAIN ST	1850	moderately	1.843574942	172	0	3	35,000	35,000	0	0	2,987	37,987
99116.000	1 A; DWL	4576 MAIN ST	1992	well	0.922619527	30	0	2	22,500	22,500	0	0	2,987	25,487
99117.000	0.3 A; AUTO REPAIR GAR	4631 MAIN ST	<1985	well	0.802889107	#VALUE!	0	2	22,500	22,500	0	0	2,987	25,487
99118.000	2.3 A; DWL & SHOPS	118 RADCLIFFE DR	1972	moderately	2.919460835	50	0	3	35,000	35,000	0	0	2,987	37,987
99119.000	1.84 A; DWL	39 RADCLIFFE DR	1988	moderately	1.781003688	34	0	3	35,000	35,000	0	0	2,987	37,987
99120.000	1.5 A; COMM	4740 MAIN ST	<1973	moderately	1.809065587	#VALUE!	0	3	35,000	35,000	0	0	2,987	37,987
99121.000	2 A; COMM BLDG	4752 MAIN ST	1999	moderately	1.45281609	23	7	3	35,000	33,799	8,167	7,032	2,987	29,755
99122.000	2 A; POND LOT	MAIN ST	land	marginally	2.078204416	#VALUE!	#VALUE!	4	0	0	0	0	0	0
99123.000	1.02 DWL	4811 MAIN ST	2010	moderately	1.118152014	12	18	3	35,000	31,995	21,000	18,082	2,987	16,900
99123.100	1.82 A COMM BLDG	4805 MAIN ST	2015	moderately	1.693920413	7	23	3	35,000	31,207	26,833	23,104	2,987	11,090
99125.000	11.6A	4751 MAIN ST	1973	marginally	12.14131619	49	0	4	50,000	50,000	0	0	2,987	52,987
99126.000	1.7A; FLOOD PLAIN RIVER LAN	MAD RIVER	land	marginally	1.438400971	#VALUE!	#VALUE!	4	0	0	0	0	0	0
99127.000	17.1 A; DWL/SHOP	4919 MAIN ST	1971	moderately	16.79193974	51	0	3	35,000	35,000	0	0	2,987	37,987
99128.000	2.6A; DWL	4976 MAIN ST	1972	marginally	2.980283484	50	0	4	50,000	50,000	0	0	2,987	52,987
99128.003	1.4 A	MAIN ST	land	marginally	1.710582722	#VALUE!	#VALUE!	4	0	0	0	0	0	0
99129.000	38.59 A	CARROLL RD	1989	moderately	39.00227946	33	0	3	35,000	35,000	0	0	2,987	37,987
99130.000	9.1 A; DWL/APT	19A&B BAIRD LN	1994	moderately	8.930878433	28	2	3	35,000	34,653	2,333	2,009	2,987	35,631
99130.100	1.9 A; DWL	123 BAIRD LN	1997	moderately	2.25964949	25	5	3	35,000	34,138	5,833	5,023	2,987	32,103
99131.000	3.8 A; SHOPPING CTR.	5123 MAIN ST	2019	well	3.929766457	3	27	1	12,500	10,925	11,250	9,687	2,987	4,226
99132.000	0.33A; MINI-MART MAP 6A	5127 MAIN ST	<1971	well	0.324016438	#VALUE!	0	2	22,500	22,500	0	0	2,987	25,487
99133.000	0.87 A; STORE	5121U6 MAIN ST	2016	well	0.739318466	6	24	2	22,500	19,962	18,000	15,499	2,987	7,450
99135.000	3.5 A; CEMETRY	MAIN ST	cemetery	well	3.708525771	#VALUE!	#VALUE!	1	12,500	0	0	0	0	0
99136.000	1.6 A; COMMON LAND	5197 MAIN ST	1982	well	1.608903609	40	0	2	22,500	22,500	0	0	2,987	25,487

MAPID	Property Description	E911ADDR	Assumed WW Age	Soil Suitability	Area (Acres)	WW Age	Years to Replacement	Category	Cost of Replacement	Present Worth of Replacement	Salvage Value	Salvage Value (Present Worth)	Pumping Cost (Present Worth)	Parcel Cost for Septic Replacement (Present Worth)	
99138.000	1.15 A; WAITSFIELD INN	5267 MAIN ST	1977	well	1.12275155	45	0	2	22,500	22,500	0	0	2,987	25,487	
99139.000	2.5 A; RETAIL STORE	5275 MAIN ST	2012	well	2.193838025	10	20	1	12,500	11,313	8,333	7,175	2,987	7,125	
99140.000	1 A; DWL	5285 MAIN ST	1988	well	1.002420232	34	0	2	22,500	22,500	0	0	2,987	25,487	
99141.000	1.5 A; RESTAURANT/APT	5351 MAIN ST	1976	well	0.788288229	46	0	2	22,500	22,500	0	0	2,987	25,487	
99142.000	2 A; BANK	5070 MAIN ST	1969	well	1.832767399	53	0	2	22,500	22,500	0	0	2,987	25,487	
99143.000	0.53 A; COMM BLDG	5086 MAIN ST	1999	well	0.529171832	23	7	2	22,500	21,728	5,250	4,520	2,987	20,195	
99144.000	0.73 A; COMM	5130 MAIN ST	2017	well	0.683047365	5	25	2	22,500	19,862	18,750	16,144	2,987	6,705	
99145.000	0.6 A; 2 COMM BLDG	171 SLOW RD	1890	well	0.559053788	132	0	2	22,500	22,500	0	0	2,987	25,487	
99146.001	5.42A RINK	40 SLOW RD	2011	not suited	5.663696564	11	19	4	50,000	45,479	31,667	27,266	2,987	21,201	
99147.000	3.53 A; IND BLDGS	167 MAD RIVER CANOE RD	2015	not suited	2.557723512	7	23	4	50,000	44,581	38,333	33,006	2,987	14,562	
99149.000	0.18 A; RETAIL	89 MAD RIVER GREEN	2017	well	0.165246505	5	25	2	22,500	19,862	18,750	16,144	2,987	6,705	
99152.000	16.94 A; SHOPPING CTR	100 MAD RIVER GREEN	2019	not suited	16.13178551	3	27	4	50,000	43,700	45,000	38,746	2,987	7,941	
99153.000	.76 A	139 POST OFFICE RD	2019	moderately	1.095554763	3	27	3	35,000	30,590	31,500	27,122	2,987	6,455	
99156.000	1.25 A; DWL	165 POST OFFICE RD	1983	moderately	1.271951663	39	0	3	35,000	35,000	0	0	2,987	37,987	
99157.000	0.6 A;	SLOW RD	land	moderately	0.638179208	#VALUE!	#VALUE!	3	0	0	0	0	0	0	0
99158.000	0.2 A; COMMON LAND	5274 MAIN ST	1850	well	0.24167538	172	0	2	22,500	22,500	0	0	2,987	25,487	
99159.000	0.9 A; AFFORDABLE HOUSING	5308 MAIN ST	2020	well	1.093330378	2	28	2	22,500	19,567	21,000	18,082	2,987	4,473	
99160.000	1.4 A; COMM BLDG & DWL	5354 MAIN ST	1973	well	1.34268298	49	0	2	22,500	22,500	0	0	2,987	25,487	
99161.000	1.09 A; COMM BLDG	5358 MAIN ST	2015	well	1.045408377	7	23	2	22,500	20,061	17,250	14,853	2,987	8,196	
99164.000	0.9 A; COMM REST	8 VT RTE 17	2002	well	0.820237317	20	10	2	22,500	21,405	7,500	6,458	2,987	17,935	
99168.100	3.7 A BARN	MAIN ST	2016	not suited	5.142006853	6	24	4	50,000	44,359	40,000	34,441	2,987	12,905	
99169.000	2. A; RETAIL/4APTS	9 VT RTE 17	2016	not suited	1.765786073	6	24	4	50,000	44,359	40,000	34,441	2,987	12,905	
99170.000	0.48 A; OFFICE/APT	5513 MAIN ST	1995	well	0.485603417	27	3	2	22,500	22,166	2,250	1,937	2,987	23,216	
99171.000	0.4 A; OFFICE BLDG	5523 MAIN ST	2018	well	0.392547086	4	26	2	22,500	19,764	19,500	16,790	2,987	5,961	
99172.000	0.3 A; COMM BLDG/APT	5527 MAIN ST	1850	moderately	0.314984927	172	0	3	35,000	35,000	0	0	2,987	37,987	
99172.100	0.2 A; OFFICE BLDG	41 DUGWAY RD	2017	marginally	0.19069804	5	25	4	50,000	44,139	41,667	35,876	2,987	11,250	
99173.000	4.08 A; OFFICE BLDG	49 FIDDLERS GREEN	2001	marginally	3.376613946	21	9	4	50,000	47,805	15,000	12,915	2,987	37,877	
99175.000	1.77 A; LAUNDRAMAT	168 FIDDLERS GREEN	2001	marginally	2.078065996	21	9	4	50,000	47,805	15,000	12,915	2,987	37,877	
99176.000	0.86 A; COMM BLDG/APT	156 FIDDLERS GREEN	2001	marginally	1.137360348	21	9	4	50,000	47,805	15,000	12,915	2,987	37,877	
99177.000	0.53 A; OFF BLDG/2APTS	138 FIDDLERS GREEN	2001	marginally	0.517177568	21	9	4	50,000	47,805	15,000	12,915	2,987	37,877	
99178.000	0.48 A; CAR WASH	124 FIDDLERS GREEN	2001	marginally	0.46693715	21	9	4	50,000	47,805	15,000	12,915	2,987	37,877	
99180.000	0.532A; COMMON LAND	FIDDLERS GREEN	land	marginally	0.531826508	#VALUE!	#VALUE!	4	0	0	0	0	0	0	0
99181.000	0.484A; COMMON LAND	FIDDLERS GREEN	land	marginally	0.48357104	#VALUE!	#VALUE!	4	0	0	0	0	0	0	0
99182.000	4.3 A; DWL	5730 MAIN ST	1978	marginally	5.048541504	44	0	4	50,000	50,000	0	0	2,987	52,987	
99183.000	3.3A; DWL	5639 MAIN ST	2006	not suited	3.456082798	16	14	4	50,000	46,628	23,333	20,091	2,987	29,524	
99183.200	1.2A; COMM BLDG	5677 MAIN ST	1840	not suited	1.111616159	182	0	4	50,000	50,000	0	0	2,987	52,987	
99183.300	4.9A	MAIN ST	land	not suited	4.570213992	#VALUE!	#VALUE!	4	0	0	0	0	0	0	0
99184.000	8.39 A; 16 TIMESHRE UN	169 EAGLES RD	2013	marginally	8.437418994	9	21	4	50,000	45,028	35,000	30,136	2,987	17,879	
99185.000	20.29A; INN	5864 MAIN ST	2006	moderately	18.74866769	16	14	3	35,000	32,639	16,333	14,063	2,987	21,563	
99185.100	11.2A; DWL	5862 MAIN ST	2001	moderately	10.84775112	21	9	3	35,000	33,464	10,500	9,041	2,987	27,410	
99186.000	6.5 A; SWIMMING HOLE	5919 MAIN ST	land	marginally	5.96361996	#VALUE!	#VALUE!	4	0	0	0	0	0	0	0
99187.000	1 ACRE	MAIN ST	not available	moderately	0.602605972	#VALUE!	#VALUE!	3	35,000	35,000	0	0	2,987	37,987	
99188.000	1.5 A; MIXED USES	6163 MAIN ST	2017	moderately	1.914166635	5	25	3	35,000	30,897	29,167	25,113	2,987	8,771	
99189.000	3.5 A; CHURCH	6305 MAIN ST	not available	moderately	3.535529113	#VALUE!	#VALUE!	3	35,000	35,000	0	0	2,987	37,987	
99190.000	125 A	MAIN ST	land	moderately	110.3515605	#VALUE!	#VALUE!	3	0	0	0	0	0	0	0
99191.000	24.41 A; LAREAU FARM INN	46 LAREAU RD	1999	marginally	22.71528168	23	7	4	50,000	48,284	11,667	10,045	2,987	41,226	
99192.000	040000	MAIN ST	land	moderately	6.100658402	#VALUE!	#VALUE!	3	0	0	0	0	0	0	0
99194.000	2.5 A; LANDLOCKED	MAIN ST	land	not suited	3.38630367	#VALUE!	#VALUE!	4	0	0	0	0	0	0	0
99195.000	117.1 A; FARM & GARAGE	6405 MAIN ST	1983	moderately	118.5807074	39	0	3	35,000	35,000	0	0	2,987	37,987	
99197.000	53.4 A; 2 DWLS	6710 MAIN ST	2015	moderately	53.1946748	7	23	3	35,000	31,207	26,833	23,104	2,987	11,090	
99197.100	46.1A; DWL	6695 MAIN ST	1979	moderately	45.54622192	43	0	3	35,000	35,000	0	0	2,987	37,987	
99198.000	1 A; 3 APT DWL	6797 MAIN ST	1979	well	1.08140716	43	0	2	22,500	22,500	0	0	2,987	25,487	
99199.000	3.1 A; POLE SHED	6799 MAIN ST	<1978	well	3.220413138	#VALUE!	#VALUE!	0	12,500	12,500	0	0	2,987	15,487	
99200.000	1 A; DUPLEX	6869 MAIN ST	1972	well	1.076054393	50	0	2	22,500	22,500	0	0	2,987	25,487	
99201.003	LOT 3; 6.3 A	MAIN ST	1996	moderately	6.384835024	26	4	3	35,000	34,309	4,667	4,018	2,987	33,278	
99202.000	1.5 A; VET OFFICE	6969 MAIN ST	1968	not suited	1.508483378	54	0	4	50,000	50,000	0	0	2,987	52,987	
99203.000	5.89 A; TRANSFER STATION	6911 MAIN ST	1991	not suited	6.413800067	31	0	4	50,000	50,000	0	0	2,987	52,987	
99204.000	3.5 A; COMMON LAND	6971 MAIN ST	1971	well	3.427179035	51	0	1	12,500	12,500	0	0	2,987	15,487	
99205.000	12.2 A	MAIN ST	land	well	13.82025049	#VALUE!	#VALUE!	1	0	0	0	0	0	0	0
99206.000	27.65 A BLDG; COMM	6973 MAIN ST	2001	well	27.59224147	21	9	1	12,500	11,951	3,750	3,229	2,987	11,710	



PROJECT NO.: 227947
 CALCULATED BY: JBA DATE: 11-4-22
 CHECKED BY: JBA DATE: 11-23-22

LCCA for Scenario 2A: 30

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Life Cycle Cost Analysis **Term of Analysis (Years): 30**
Real Interest Rate: 0.5%

Capital Costs		
Description	Amount	Notes
Opinion of Probable Construction Cost	\$ 1,660,140	
Engineering Preliminary Design Phase Cost	\$ 54,300	
Engineering Final Design Phase Cost	\$ 108,500	
Engineering Construction Phase Cost	\$ 198,800	
Legal/Fiscal Cost	\$ 16,700	1% of construction cost
Land/Easement Acquisition	\$ 16,700	1% assumed allowance
Total Project Capital Cost	\$ 2,055,140	

O&M Costs			
Description	Amount	Frequency	Notes
Water Collection System Increase in O&M	\$ 6,000	Every Year	\$6,000 Per year

Total Present Worth of O&M Cost \$ 166,770

Salvage Value			
Description	Amount	Frequency	Notes
Water Distribution System Extension	\$ 238,700		

Present Worth of Project Salvage Value After
Analysis Term \$ 238,700

Total Net Present Value: \$1,983,210



PROJECT NO.: 227947
 CALCULATED BY: JBA DATE: 11-3-22
 CHECKED BY: JBA DATE: 11-23-22

LCCA for Scenario 1A+3: 30

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Life Cycle Cost Analysis **Term of Analysis (Years): 30**
Real Interest Rate: 0.5%

Capital Costs		
Description	Amount	Notes
Opinion of Probable Construction Cost	\$ 6,179,630	
Engineering Preliminary Design Phase Cost	\$ 181,800	
Engineering Final Design Phase Cost	\$ 363,600	
Engineering Construction Phase Cost	\$ 666,600	
Legal/Fiscal Cost	\$ 61,800	1% of construction cost
Land/Easement Acquisition	\$ 61,800	1% assumed allowance
Total Project Capital Cost	\$ 7,515,230	

O&M Costs			
Description	Amount	Frequency	Notes
Wastewater System Operator	\$ 40,000	Every Year	Shoreham Budget Adjusted
Allowance for Pump Replacement	\$ 45,000	15 Years	\$15,000/PS
Sewer Engineering	\$ 3,500	Every Year	Annual Inspection
Buildings and Grounds Maintenance	\$ 2,500	Every Year	
Laboratory Testing/Samples	\$ 4,000	Every Year	Shoreham Budget Adjusted
Solids Removal	\$ 8,000	Every Year	Shoreham Budget
Treatment System/Leachfield Replacement/Repair	\$ 50,000	10 Years	12.5% CAPEX
Energy Usage	\$ 33,000	Every Year	
Total Present Worth of O&M Cost	\$ 2,717,220		

Salvage Value			
Description	Amount	Frequency	Notes
Collection System	\$ 704,200		
Treatment and Disposal System	\$ 260,500		
Present Worth of Project Salvage Value After Analysis Term	\$ 964,700		

Total Net Present Value: \$9,267,750
Estimated ERUs at Capacity: 119.0
NPV/ERU: \$77,894

Notes:

1. 1 ERU = 245 gpd (design flow for a single family residence connected to a system >6,500 and <50,000 gpd)



PROJECT NO.: 227947
 CALCULATED BY: JBA DATE: 11-4-22
 CHECKED BY: JBA DATE: 11-23-22

LCCA for Scenario 1A+4: 30

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Life Cycle Cost Analysis **Term of Analysis (Years): 30**
Real Interest Rate: 0.5%

Capital Costs		
Description	Amount	Notes
Opinion of Probable Construction Cost	\$ 15,777,710	
Engineering Preliminary Design Phase Cost	\$ 430,900	
Engineering Final Design Phase Cost	\$ 861,800	
Engineering Construction Phase Cost	\$ 1,579,900	
Legal/Fiscal Cost	\$ 157,800	1% of construction cost
Land/Easement Acquisition	\$ 157,800	1% assumed allowance
Total Project Capital Cost	\$ 18,965,910	

O&M Costs			
Description	Amount	Frequency	Notes
Wastewater System Operator	\$ 45,000	Every Year	Shoreham Budget Adjusted
Allowance for Pump Replacement	\$ 105,000	15 Years	\$15,000/PS
Sewer Engineering	\$ 3,500	Every Year	Annual Inspection
Buildings and Grounds Maintenance	\$ 3,000	Every Year	
Laboratory Testing/Samples	\$ 4,000	Every Year	Shoreham Budget Adjusted
Solids Removal	\$ 9,000	Every Year	Shoreham Budget Adjusted
Treatment System/Leachfield Replacement/Repair	\$ 95,750	15 Years	12.5% CAPEX
Energy Usage	\$ 27,000	Every Year	
Total Present Worth of O&M Cost	\$ 2,879,040		

Salvage Value			
Description	Amount	Frequency	Notes
Collection System	\$ 1,862,600		
Treatment and Disposal System	\$ 487,800		
Present Worth of Project Salvage Value After			
Analysis Term	\$ 2,350,400		

Total Net Present Value:	\$19,494,550
Estimated ERUs at Capacity:	416.7
NPV/ERU:	\$46,787

Notes:

1. 1 ERU = 210 gpd (design flow for a single family residence connected to a system >50,000 gpd)



PROJECT NO.: 227947
 CALCULATED BY: JBA DATE: 11-4-22
 CHECKED BY: JBA DATE: 11-23-22

LCCA for Scenario 4: 30

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Life Cycle Cost Analysis **Term of Analysis (Years): 30**
Real Interest Rate: 0.5%

Capital Costs		
Description	Amount	Notes
Opinion of Probable Construction Cost	\$ 8,534,610	
Engineering Preliminary Design Phase Cost	\$ 244,800	
Engineering Final Design Phase Cost	\$ 489,500	
Engineering Construction Phase Cost	\$ 897,400	
Legal/Fiscal Cost	\$ 85,400	1% of construction cost
Land/Easement Acquisition	\$ 85,400	1% assumed allowance
Total Project Capital Cost	\$ 10,337,110	

O&M Costs			
Description	Amount	Frequency	Notes
Wastewater System Operator	\$ 45,000	Every Year	Shoreham Budget Adjusted
Allowance for Pump Replacement	\$ 60,000	15 Years	\$15,000/PS
Sewer Engineering	\$ 3,500	Every Year	Annual Inspection
Buildings and Grounds Maintenance	\$ 3,000	Every Year	
Laboratory Testing/Samples	\$ 4,000	Every Year	Shoreham Budget Adjusted
Solids Removal	\$ 9,000	Every Year	Shoreham Budget Adjusted
Treatment System/Leachfield Replacement/Repair	\$ 95,750	15 Years	12.5% CAPEX
Energy Usage	\$ 24,000	Every Year	
Total Present Worth of O&M Cost	\$ 2,717,740		

Salvage Value			
Description	Amount	Frequency	Notes
Collection System	\$ 722,200		
Treatment and Disposal System	\$ 487,800		
Present Worth of Project Salvage Value After			
Analysis Term	\$ 1,210,000		

Total Net Present Value:	\$11,844,850
Estimated ERUs at Capacity:	416.7
NPV/ERU:	\$28,428

Notes:

1. 1 ERU = 210 gpd (design flow for a single family residence connected to a system >50,000 gpd)



PROJECT NO.: 227947
 CALCULATED BY: JBA DATE: 11-4-22
 CHECKED BY: JBA DATE: 11-23-22

LCCA for Scenario 5A: 30

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Life Cycle Cost Analysis **Term of Analysis (Years): 30**
Real Interest Rate: 0.5%

Capital Costs		
Description	Amount	Notes
Opinion of Probable Construction Cost	\$ 11,188,230	
Engineering Preliminary Design Phase Cost	\$ 314,000	
Engineering Final Design Phase Cost	\$ 628,000	
Engineering Construction Phase Cost	\$ 1,151,400	
Legal/Fiscal Cost	\$ 111,900	1% of construction cost
Land/Easement Acquisition	\$ 111,900	1% assumed allowance
Total Project Capital Cost	\$ 13,505,430	

O&M Costs			
Description	Amount	Frequency	Notes
Wastewater System Operator	\$ 60,000	Every Year	3 Systems
Allowance for Pump Replacement	\$ 75,000	15 Years	\$15,000/PS
Sewer Engineering	\$ 7,500	Every Year	Annual Inspection - 3 Systems
Buildings and Grounds Maintenance	\$ 4,000	Every Year	3 Systems
Laboratory Testing/Samples	\$ 9,000	Every Year	3 Disposal Systems
Solids Removal	\$ 18,000	Every Year	3 Treatment Systems
Treatment System/Leachfield Replacement/Repair	\$ 145,750	15 Years	12.5% CAPEX
Energy Usage	\$ 55,000	Every Year	
Total Present Worth of O&M Cost	\$ 4,613,950		

Salvage Value			
Description	Amount	Frequency	Notes
Collection System	\$ 943,926		
Treatment and Disposal System	\$ 747,800		
Present Worth of Project Salvage Value After			
Analysis Term	\$ 1,691,726		

Total Net Present Value:	\$16,427,654
Estimated ERUs at Capacity:	553.1
NPV/ERU:	\$29,701

Notes:

1. 1 ERU = 210 gpd (design flow for a single family residence connected to a system >50,000 gpd)



PROJECT NO.: 227947
 CALCULATED BY: JBA DATE: 11-4-22
 CHECKED BY: JBA DATE: 11-23-22

LCCA for Scenario 5B: 30

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein. DuBois & King, Inc. is not providing professional estimating services, and actual pay items and material quantities also may vary from the pay items and quantities included in this opinion of probable construction costs.

Life Cycle Cost Analysis **Term of Analysis (Years): 30**
Real Interest Rate: 0.5%

Capital Costs		
Description	Amount	Notes
Opinion of Probable Construction Cost	\$ 19,897,350	
Engineering Preliminary Design Phase Cost	\$ 533,500	
Engineering Final Design Phase Cost	\$ 1,067,000	
Engineering Construction Phase Cost	\$ 1,956,100	
Legal/Fiscal Cost	\$ 199,000	1% of construction cost
Land/Easement Acquisition	\$ 199,000	1% assumed allowance
Total Project Capital Cost	\$ 23,851,950	

O&M Costs			
Description	Amount	Frequency	Notes
Wastewater System Operator	\$ 60,000	Every Year	2 Large Systems
Allowance for Pump Replacement	\$ 120,000	15 Years	\$15,000/PS
Sewer Engineering	\$ 7,500	Every Year	Annual Inspection - 2 Systems
Buildings and Grounds Maintenance	\$ 5,000	Every Year	2 Large Systems
Laboratory Testing/Samples	\$ 7,000	Every Year	2 Disposal Systems
Solids Removal	\$ 18,000	Every Year	2 Large Treatment Systems
Treatment System/Leachfield Replacement/Repair	\$ 239,375	15 Years	12.5% CAPEX
Energy Usage	\$ 48,000	Every Year	
Total Present Worth of O&M Cost	\$ 4,645,610		

Salvage Value			
Description	Amount	Frequency	Notes
Collection System	\$ 1,792,000		
Treatment and Disposal System	\$ 1,169,700		
Present Worth of Project Salvage Value After			
Analysis Term	\$ 2,961,700		

Total Net Present Value:	\$25,535,860
Estimated ERUs at Capacity:	935.2
NPV/ERU:	\$27,304

Notes:

1. 1 ERU = 210 gpd (design flow for a single family residence connected to a system >50,000 gpd)

APPENDIX L

**NOT FOR
CONSTRUCTION
PRELIMINARY
PLANS**

NO.	DATE	DESCRIPTION	BY	CK'D

TOWN OF
WAITSFIELD, VT

VILLAGE
WASTEWATER
PRELIMINARY
ENGINEERING
REPORT
(PER)

SHEET TITLE

WASTEWATER
ROUTE 100

DRAWN BY

DATE

SDS MAR 2023

CHECKED BY

D&K PROJECT #

JBA 227947

PROJ. ENG.

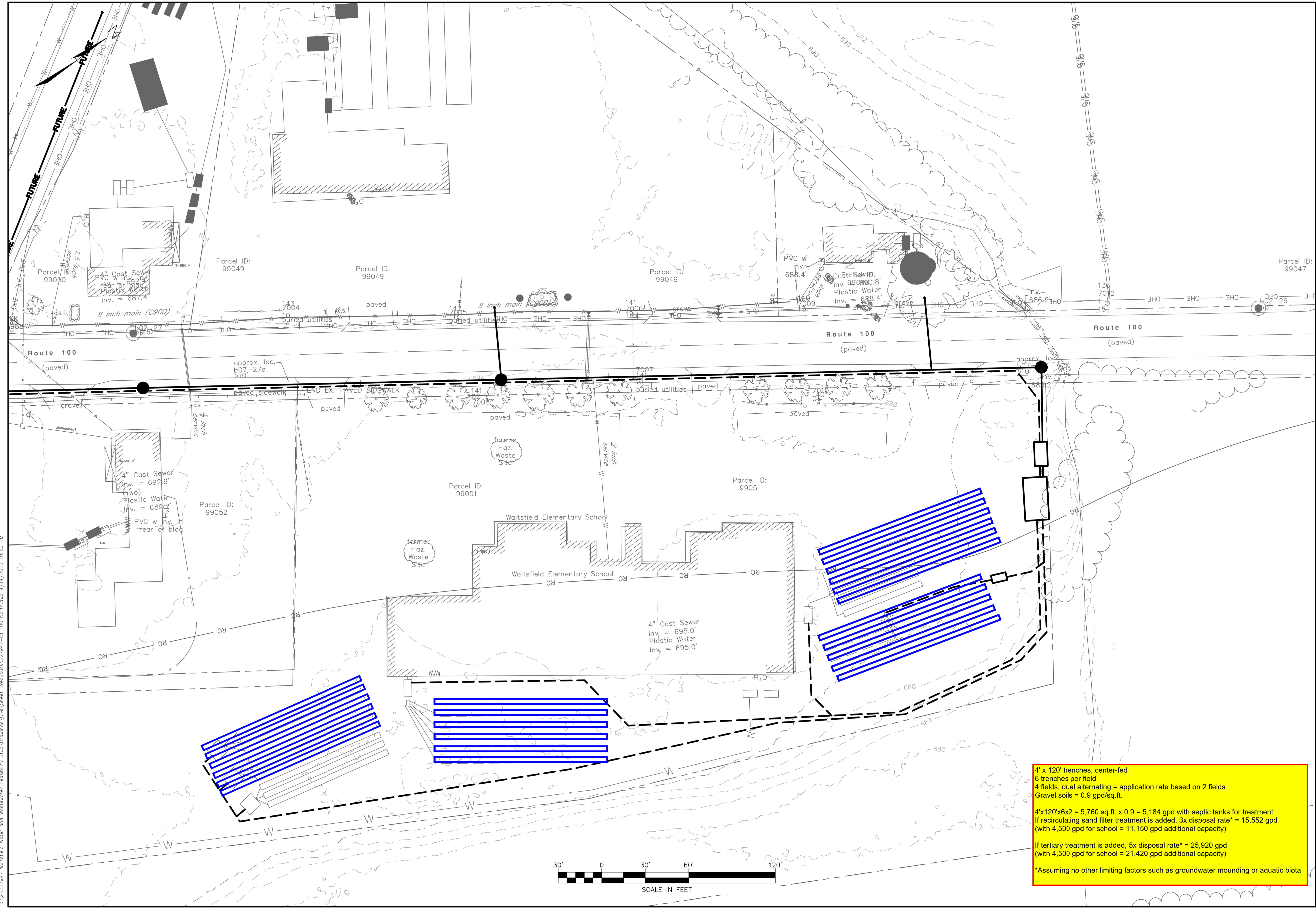
D&K ARCHIVE #

SDS

SHEET NUMBER

C41

SHEET 40 OF 41



4' x 120' trenches, center-fed
6 trenches per field
4 fields, dual alternating = application rate based on 2 fields
Gravel soils = 0.9 gpd/sq.ft.

4'x120'x6x2 = 5,760 sq.ft. x 0.9 = 5,184 gpd with septic tanks for treatment
If recirculating sand filter treatment is added, 3x disposal rate* = 15,552 gpd
(with 4,500 gpd for school = 11,150 gpd additional capacity)

If tertiary treatment is added, 5x disposal rate* = 25,920 gpd
(with 4,500 gpd for school = 21,420 gpd additional capacity)

*Assuming no other limiting factors such as groundwater mounding or aquatic biota

I:\A\227947 Waitfield Water and Wastewater Feasibility Study\Drawings\Civil\Sheet Breakouts\227947-R1_100_North.dwg 4/14/2023 10:56 PM



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: JBA
 CHECKED BY: DATE: 4-19-23
 DATE:

WAITSFIELD ELEMENTARY SCHOOL TREATMENT AND DISPOSAL COSTS
OPCC: Conceptual

Opinion of Probable Construction Costs (OPCC)

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein.

Cost Level Type: Conceptual

COSTS TO UPGRADE SCHOOL TREATMENT AND DISPOSAL SYSTEM

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	10%	\$118,200	
2	Clearing and Grubbing	LS	1	\$20,000	\$20,000	
3	EPSC Plan	LS	1	\$20,000	\$20,000	
4	Traffic Control, All-Inclusive	LS	1	\$10,000	\$10,000	
5	2" Piping	LF	2,900	\$25	\$72,500	40
6	4" Manifold	LF	460	\$60	\$27,600	40
7	Forcemain	LF	1,460	\$60	\$87,600	40
8	Trench Excavation of Earth	CY	1,280	\$35	\$44,800	
9	Stone around piping	CY	1,210	\$50	\$60,500	
10	Filter Fabric	SY	1,300	\$5	\$6,500	
11	Septic Tanks (6,000 gallons)	EA	4	\$21,000	\$84,000	60
12	Pump Station and Controls	EA	1	\$115,000	\$115,000	60
13	Gravel Drive	SY	680	\$40	\$27,200	
16	Underground Electrical	LF	350	\$50	\$17,500	50
17	New Electrical Service	LS	1	\$15,000	\$15,000	
20	Wastewater Treatment Facility	EA	1	\$600,000	\$600,000	60
OPCC Subtotal:					\$1,326,400	
20% Contingency:					\$265,300	
OPCC:					\$1,591,700	
Total Opinion of Probable Construction Costs:					\$1,591,700	



JOB: Waitsfield Village Wastewater

PROJECT NO.: 227947
 CALCULATED BY: JBA
 CHECKED BY:

DATE: 4-19-23
 DATE:

PUMPING TO IRASVILLE

Opinion of Probable Construction Costs (OPCC) - Pumping to Irasville Instead of School Treatment

NOTE: In providing opinions of probable construction costs, the Client understands that DuBois & King, Inc. has no control over the cost or availability of labor, equipment or materials, or over market conditions or the Contractor's methods of pricing, and that our Opinion of Probable Construction Costs are made on the basis of our professional judgment and experience. DuBois & King, Inc. makes no warranty, expressed or implied, that the bids or the negotiated costs of the Work will not vary from the Opinion of Probable Construction Cost provided herein.

Cost Level Type: Preliminary

Pumping to Irasville

Item No.	Description	Unit	Qty	Unit Cost	Cost	Asset Life
1	Mobilization/Demobilization	LS	1	10%	\$75,200	
2	Pump Station at School	EA	1	\$118,000	\$118,000	40
3	6" PVC Force Main, Co-located with Sewer - School to Bridge St.	LF	2,350	\$30	\$70,500	40
4	6" PVC Force Main, Co-located with Sewer - Bridge St. Up Hill	LF	1,320	\$30	\$39,600	40
5	6" PVC Force Main, Up Hill to Carroll Road	LF	1,200	\$70	\$84,000	40
6	Directional Bore	LF	370	\$180	\$66,600	40
7	Differential Pump Costs for Bridge St. Pump Station	EA	1	\$50,000	\$50,000	40
8	Forcemain Air Release Manhole	EA	1	\$10,000	\$10,000	40
9	Forcemain Gate Valves	EA	2	\$5,000	\$10,000	40
10	Forcemain Cleanouts	EA	2	\$5,000	\$10,000	40
11	6" Sanitary Sewer Lateral Jack and Bore 18" Steel Casing	LF	180	\$300	\$54,000	40
12	Removal of Unsuitable Material	CY	50	\$50	\$2,500	
13	Miscellaneous Earth Excavation	CY	50	\$50	\$2,500	
14	Rock Excavation and Disposal	CY	450	\$300	\$135,000	
15	Driveway Restoration	EA	3	\$2,000	\$6,000	
16	Tree Demolition	EA	10	\$800	\$8,000	
17	Maintenance of Traffic	LS	1	\$75,000	\$75,000	
18	EPSC Plan	LS	1	\$10,000	\$10,000	
OPCC Subtotal:					\$826,900	
20% Contingency:					\$165,400	
OPCC:					\$992,300	
Total Opinion of Probable Construction Costs:					\$992,300	

APPENDIX M

Wastewater Management Division
103 South Main Street – The Sewing Building
Waterbury VT 05671-0405
Phone: 802-241-3822
Fax: 802-241-2596
www.anr.state.vt.us/dec/dec.htm

December 21, 2006

Valerie Capels
Town of Waitsfield
9 Bridge Street
Waitsfield, VT 05673

RE: Waitsfield Municipal Wastewater Project
Capacity Approval for Munn Disposal Site

Dear Ms. Capels,

The Wastewater Management Division has reviewed the October 20, 2006 application for capacity approval for the proposed municipal wastewater disposal site at the Munn property in Waitsfield, Vermont. The application was submitted by Pioneer Environmental Associates on behalf of the Town of Waitsfield. Engineering plan revisions were submitted by Phelps Engineering on December 12, 2006.

The application for capacity approval contains additional information regarding on-site soils, seasonal high groundwater, groundwater flow and hydraulic capacity for the Munn site. This information was collected in response to questions regarding the original application for capacity, dated April 26, 2006. As a result of this additional work, the maximum disposal capacity of the Munn site has been recalculated to be 90,274 gallons per day. Also, grades for three of the proposed leachfields have been revised to comply with the vertical separation requirement of the Indirect Discharge Rules.

The predicted water quality of the Mad River downstream of the disposal site has been recalculated based on the revised disposal rate of 90,274 gallons per day. As shown in the footnote on page 2 of this letter, the predicted downstream concentration of total dissolved phosphorous (TDP) and nitrate-nitrogen (NO₃-N) will comply with the aquatic permitting criteria of the Indirect Discharge Rules.

Based on the hydrogeologic information collected at the proposed disposal site and the demonstration that aquatic permitting criteria will be met in the Mad River, the Munn site is hereby approved for a maximum disposal rate of 90,274 gallons per day. This approval is based on tertiary treatment of effluent applied at a maximum rate of 4.5 gallons per day per square foot of leachfield trench. This approval is also contingent upon a final engineering design that complies with the siting criteria of the Indirect Discharge Rules.

This capacity approval is not an indirect discharge permit. This approval merely establishes the approved disposal capacity of the Munn site and, in accordance with §14-402(b) of the Indirect Discharge Rules, is valid for one year. To obtain approval for the proposed wastewater treatment and disposal facility, the Town of Waitsfield will need to submit an application for an indirect discharge permit with detailed engineering plans and specifications. The Town will need to submit the application by December 20, 2007 to avoid having to submit a completely new application with the hydrogeologic work.

Please give me a call at (802) 241-3473 if you have any questions.

Sincerely,

Bryan Harrington
Indirect Discharge Permit Section

CC: John Kiernan, Phelps Engineering
Jonathan Ashley, Phelps Engineering
Meddie Perry, Pioneer Environmental Associates
Town of Waitsfield Selectboard
Town of Waitsfield Planning Commission
Regional Planning Commission
District Environmental Coordinator
IDP Mailing List

Aquatic Permitting Criteria

Parameter	Upstream		Treated Effluent			Downstream		Criteria
	Q (cfs)	C (mg/l)	Q (gpd)	Q (cfs)	C (mg/l)	Q (cfs)	C (mg/l)	C (mg/l)
TDP	18.35	.015	90,274	.14	.20	18.49	.016	.016
NO3-N	18.35	.29	90,274	.14	5.0	18.49	.33	2.0

Q = flow rate (cubic feet per second or gallons per day)

C = concentration (milligrams per liter)

Wastewater Management Division
103 South Main Street – The Sewing Building
Waterbury VT 05671-0405
Phone: 802-241-3822
Fax: 802-241-2596
www.anr.state.vt.us/dec/dec.htm

January 10, 2008

Valerie Capels
Town of Waitsfield
9 Bridge Street
Waitsfield, VT 05673

RE: Waitsfield Municipal Wastewater Project
Capacity Approval for Munn Disposal Site

Dear Ms. Capels,

The Wastewater Management Division has reviewed the December 20, 2007 capacity approval amendment request regarding the proposed Munn wastewater disposal site in Waitsfield, Vermont. The application was submitted by Pioneer Environmental Associates on behalf of the Town of Waitsfield.

As you know, Town of Waitsfield received capacity approval on December 21, 2006 that a maximum of 90,274 gallons per day of tertiary treated effluent could be applied at the Munn site. This amendment request seeks concurrence from the Wastewater Management Division that a maximum of 18,342 gallons per day of septic tank effluent can be applied at the Munn site.

The predicted water quality of the Mad River downstream of the disposal site has been calculated based on the disposal rate of 18,342 gallons per day and an assumed septic tank effluent quality of 0.14 mg/l of total dissolved phosphorous (TDP) and 60.0 mg/l of nitrate-nitrogen (NO₃). As shown in the table below, the predicted downstream concentration of TDP and NO₃ will comply with the aquatic permitting criteria of the Indirect Discharge Rules.

Parameter	Upstream		Septic Tank Effluent			Downstream		Criteria
	Q (cfs)	C (mg/l)	Q (gpd)	Q (cfs)	C (mg/l)	Q (cfs)	C (mg/l)	C (mg/l)
TDP	18.35	0.015	18,342	0.03	0.14	18.38	0.015	.016
NO ₃	18.35	0.29	18,342	0.03	60.0	18.38	0.38	2.0

Q = flow rate (cubic feet per second or gallons per day)
C = concentration (milligrams per liter)

Based on the hydrogeologic information previously collected at the proposed disposal site and the demonstration that aquatic permitting criteria will be met in the Mad River, the Munn site is hereby approved for a maximum disposal rate of 18,342 gallons per day of septic tank effluent. This approval is based on septic tank treatment of effluent applied at a maximum rate of 0.9 gallons per day per square foot of leachfield trench. This approval is also contingent upon a final engineering design that complies with the siting criteria of the Indirect Discharge Rules.

This capacity approval is not an indirect discharge permit. This approval merely establishes the approved disposal capacity of the Munn site for septic tank effluent and, in accordance with §14-402(b) of the Indirect Discharge Rules, is valid for one year. To obtain approval for the proposed wastewater treatment and disposal facility, the Town of Waitsfield will need to submit an application for an indirect discharge permit with detailed engineering plans and specifications. The Town will need to submit the application by January 9, 2009 to avoid having to submit a completely new application with the hydrogeologic work.

Please give me a call at (802) 241-3473 if you have any questions.

Sincerely,

Bryan Harrington
Indirect Discharge Permit Section

CC: John Kiernan, Phelps Engineering
Meddie Perry, Pioneer Environmental Associates
Town of Waitsfield Selectboard
Town of Waitsfield Planning Commission
Regional Planning Commission
District Environmental Coordinator
IDP Mailing List

APPENDIX N

Wastewater Needs: Proposed Service Area			Existing WW Flows				Future WW Flows (Existing + Future Antitipated Needs)						Parcel Wastewater System Age (est.)			Additional Parcel Considerations							
Map ID	E911 Address	Property Description	Approx. Ext. Commercial GPD	Existing WW Flows, gpd (residential: 420gpd)	Existing WW Flows with Community System (residential: 245 gpd)	Existing WW Flows with Community System (residential: 210 gpd)	Future Additional Infill WW Demand, gpd	D&K Calc. Future Additional WW Flows, gpd	Total Future WW Demand, No Annual Growth	Total Future WW Demand, With 20% Growth Factor	Assumed Future WW Demand, gpd (Existing Community System + 10% add'l commercial + 40% Infill)	WW Flows Notes	Source for WW System Age	Approximate WW System Age (years)	WW Age Category	Is the lot area-constrained?	Is the lot area-constrained? ERU	Leachfield in river corridor?	Leachfield in river corridor? ERU	Leachfield in a floodplain?	Leachfield in a floodplain? ERU	Leachfield overlapping Well Shield	Leachfield Constraint?
01001.000	4391 Main St	LIBRARY A	355	355	355	355	0	0	355	426	391	Shared permit with Town offices - flow shown is the total for both	permit	8	<20	yes	355	no		no		no	yes
01002.000	27 Bridge St	.5 DWL & SHOP	1200	1200	1200	1200	0	0	1200	1440	1320	listed as residential but permitted for pizza house.	permit	27	20-30	yes	1200	yes	1200	yes	1200	yes	yes
01003.000	45 Bridge St	1. A; COMM BLDG	100	100	100	100	0	0	100	120	110		permit	30	20-30	yes	100	yes	100	yes	100	yes	yes
01004.000	20 Bridge St	0.26 A; COMM BLDG	310	310	310	310	0	0	310	372	341		private well	50	>40	yes	310	yes	310	yes	310	yes	yes
12026.000	756 Old County Rd	1 A; DWL		420	245	210	0	0	210	252	210		Town	172	>40	yes	210	assumed no		assumed no		assumed no	yes
23001.100	48 Carroll Rd	1 A; MOVIE THEATHE	1938	1938	1938	1938	0	0	1938	2326	2132	Carroll Rd parcel	permit	8	<20	yes	1938	no		no		no	yes
23001.200	98 Carroll Rd	1.52A; COMM	431	431	431	431	0	0	431	517	474	Carroll Rd parcel	permit	8	<20	no		no		no		no	
23003.000	155 Carroll Rd	9.64 A; COMM BLDG	4523	4523	4523	4523	0	0	4523	5428	4975	Carroll Rd parcel	permit	8	<20	yes	4523	no		no		no	yes
23005.000	154 Carroll Rd	2.11 A; LUMBER SUPPLY	108	108	108	108	0	0	108	130	119	Carroll Rd parcel	permit	8	<20	yes	108	no		no		no	yes
37001.000	45 Parsonage Ln	0.75 A; APT BLDG		1120	1120	1120	0	0	1120	1344	1120		Town	55	>40	yes	1120	no		no		no	yes
37002.000	55 Parsonage Ln	0.5 A; PARSONAGE		420	245	210	840	0	1050	1050	546		private well	23	20-30	yes	210	no		no		yes	yes
37003.000	47 Mehuron Dr	0.6 A; DWL		420	245	210	0	0	210	252	210		private well	54	>40	yes	210	no		no		yes	yes
37004.000	60 Mehuron Dr	0.7 A; DWL		420	245	210	0	0	210	252	210		Town	57	>40	no		no		no		no	
37005.000	115 Mehuron Dr	1.6 A; DWL		420	245	210	0	0	210	252	210		permit	3	<20	no		no		no		no	
37006.000	155 Mehuron Dr	17 A; DWL		420	245	210	0	0	210	252	210		private well	33	30-40	no		no		no		no	
37007.000	157 Mehuron Dr	17 A; DWL		420	245	210	0	0	210	252	210		Town	31	30-40	no		no		no		no	
38001.000	156 Dugway Rd	1.41 A; OFFICE/ 4 APTS		1365	1365	1365	0	1120	2485	2485	1365	Assume increase due to adding 3rd floor apt (Irasville Commercial district). Assume 4 additional apts (4 apt x 2 bdr x 140 gpd/bdr)	Town	184	>40	no		no		no		yes	yes
38002.000	152 Dugway Rd	1.11 A; DWL		490	245	210	0	0	210	252	210		permit	18	<20	no		no		no		yes	yes
38003.000	112 Dugway Rd	0.86 A; DWL/APT		420	245	210	0	140	350	350	210	Existing dwl/apt. Assume 50% increase due to adding 3rd floor apt in Irasville Commercial district.	Town	165	>40	no		no		no		no	
38004.000	100 Dugway Rd	1.07 A; COMMON LAND		1800	1800	1800	0	0	1800	2160	1800		permit	33	30-40	no		no		no		yes	yes
38005.000	106 Dugway Rd	0.21 A; DWL		140	245	210	0	0	210	252	210		permit	9	<20	yes	210	no		no		no	yes
38006.000	58 Dugway Rd	0.86 A; DWL		420	245	210	560	0	770	770	434		Town	182	>40	no		assumed no		assumed no		unknown	
38008.000	144 Butcher House Dr	7.33 A; 24 APT UNITS		6720	5880	5040		3570	8610	8610	5040	Existing apartments - no permit record found. Assume 24 apt x 2 bdr per apt x 140gpd/bdrm Future use: include land uses in permits WW-5-3640 for Building 1 (4 units, 8 bdrms) and WW-5-3641 for Building 2 (4 units, 9 bdrms)	permit	16	<20	no		no		no		no	
38009.000	118 Butcher House Dr	10.31 A; DWL		420	245	210	0	0	210	252	210		private well	50	>40	no		yes	210	no		no	yes
38010.000	49 Butcher House Dr	1 A; STORAGE BARN	210	210	210	210	0	0	210	252	231		private well	40	30-40	yes	210	assumed no		assumed no		assumed no	yes
99046.000	4242 Main St	64.77 A; DWL		840	490	420	5600	0	6020	6020	2660	Permit WW-5-3499 and -1 used for ww calcs (no adjustment for ww flows noted in WW-5-3499-1) town comment: (3 apts)	permit	17	<20	no		no		no		no	
99046.001	4200 Main St	0.62A; COMMON LAND....		1050	1050	1050	0	0	1050	1260	1050	Main Street Condominiums	permit	21	20-30	yes	1050	no		no		yes	yes
99046.050	4144 Main St	0.85 A OFFICE	451	451	451	451	0	0	0	0	496		permit	8	<20	no		assumed no		assumed no		unknown	
99048.000	3962 Main St	0.26 A; DWL		420	210	210	0	0	210	252	210		Town	76	>40	yes	210	no		no		no	yes
99049.000	4036 Main St	2 A; COMM BLDG	150	150	150	150	4200	0	4350	4350	1845		permit	20	20-30	no		no		no		no	
99050.000	859 Old County Rd	1 A; HEALTH CTR	1360	1360	1360	1360	0	0	1360	1632	1496		permit	17	<20	yes	1360	no		no		no	yes
99051.000	3951 Main St	7.7 A; SCHOOL		4500	4500	4500	0	0	4500	5400	4500	Town broke down into 2 rows	permit	32	30-40	no		yes	4500	no		no	yes
99051.100	4103 Main St	1.3 A; COMM		0	0	0	0	0	0	0	0	Town broke down into 2 rows, WW demand shown in row above.	permit	31	30-40	no		yes	245	no		no	yes
99051.200	4125 Main St	0.7A; COMMON LAND		1400	1400	1400	0	0	1400	1680	1400		Town	40	30-40	no		assumed no		assumed no		assumed yes	assumed yes
99052.000	4061 Main St	0.97; WAIT HOUSE		270	270	270	1120	0	1390	1390	718		permit	26	20-30	no		no		no		no	
99053.000	4102 Main St	0.5 A; DWL		420	245	210	1120	0	1330	1330	658		Town	62	>40	yes	210	assumed no		assumed no		unknown	yes
99054.000	4124 Main St	0.23 A; DWL		420	245	210	0	0	210	252	210		permit	6	<20	yes	210	no		no		yes	yes

Wastewater Needs: Proposed Service Area			Existing WW Flows				Future WW Flows (Existing + Future Antitipated Needs)					Parcel Wastewater System Age (est.)			Additional Parcel Considerations								
Map ID	E911 Address	Property Description	Approx. Ext. Commercial GPD	Existing WW Flows, gpd (residential: 420gpd)	Existing WW Flows with Community System (residential: 245 gpd)	Existing WW Flows with Community System (residential: 210 gpd)	Future Additional Infill WW Demand, gpd	D&K Calc. Future Additional WW Flows, gpd	Total Future WW Demand, No Annual Growth	Total Future WW Demand, With 20% Growth Factor	Assumed Future WW Demand, gpd (Existing Community System + 10% add'l commercial + 40% Infill)	WW Flows Notes	Source for WW System Age	Approximate WW System Age (years)	WW Age Category	Is the lot area-constrained?	Is the lot area-constrained? ERU	Leachfield in river corridor?	Leachfield in river corridor? ERU	Leachfield in a floodplain?	Leachfield in a floodplain? ERU	Leachfield overlapping Well Shield	Leachfield Constraint?
99055.000	4147 Main St	0.36 A; COM BLDG/1 APT		370	370	370	0	0	370	444	370	0	Town	172	>40	no		no		no		yes	yes
99056.000	4167 Main St	0.25 A; DWL		420	245	210	0	0	210	252	210	0	Town	not available	not available	yes	210	no		no		yes	yes
99057.000	4177 Main St	2.61 A; COMM	500	500	500	500	2100	0	2600	2600	1390	0	permit	23	20-30	no		yes	2600	yes	2600	no	yes
99058.000	4199 Main St	0.67 A; DWL		420	245	210	700	0	910	910	490	0	Town	177	>40	no		no		no		yes	yes
99059.000	4219 Main St	0.27 A; OFFICE/4APTS	100	1120	1120	1120	700	0	1820	1820	1410	0	Town	202	>40	no		no		no		no	
99060.000	4235 Main St	0.5 A;DWL		600	600	630	0	0	630	756	630	0	permit	23	20-30	no		no		no		no	
99061.000	4261 Main St	0.56 A; DWL		560	560	420	700	0	1120	1120	700	0	permit	3	<20	no		no		no		no	
99062.000	4254 Main St	0.49 A; COMMON LAND		1150	1150	1150	0	0	1150	1380	1150	0	permit	30	20-30	yes	1150	no		no		yes	yes
99063.000	Main St	.05A; COMMON SITE		N/A	N/A	N/A	0	0	0	0		not developable	Town	n/a	n/a	yes		n/a		n/a		n/a	yes
99064.000	4276 Main St	0.63 A; COM BLDG/3APTS	100	1680	1680	1680	700	0	2380	2380	1970	0	permit	0	<20	yes	1680	no		no		yes	yes
99065.000	4277 Main St	0.62 A; DWL		630	245	210	700	0	910	910	490	0	permit	8	<20	no		no		no		no	
99066.000	4317 Main St	0.77 A; COM BDG/4 APTS	100	840	840	840	700	0	1540	1540	1130	0	Town	188	>40	no		yes	840	no		no	yes
99067.000	4312 Main St	0.78 A; SHOP/DWL		695	695	695	0	0	695	834	695	0	permit	16	<20	no		no		no		no	
99068.000	4324 Main St	0.47 A; 2 COMM BLDGS	210	210	210	210	1120	0	1330	1330	679	0	Town	102	>40	yes	210	no		no		unknown	yes
99069.000	4348 Main St	0.5 A; MINIMART/SPT	225	225	225	225	0	0	225	225	248	Kingsbury General Store - assume 100gpd deli + 125gpd service station	Town	182	>40	yes	210	no		no		yes	yes
99070.000	4366 Main St	0.2 AC & SHOP/ 3 APTS	100	900	900	900	0	0	900	1080	910	0	permit	21	20-30	yes	900	no		no		no	yes
99071.000	4376 Main St	0.06 A; MASONIC HALL		210	210	210	0	0	210	252	210	0	Town	157	>40	yes	210	no		no		no	yes
99072.000	4335 Main St	2.45A; CHURCH		1785	1785	1785	0	0	1785	2142	1785	0	permit	8	<20	no		assumed yes	1785	assumed yes	1785	no	assumed yes
99073.000	Main St	Cemetry		N/A	N/A	N/A	0	0	0	0		0	Town	land	land	yes		n/a		n/a		n/a	yes
99101.000	Main St	0.24 A; PARKING LOT		N/A	N/A	N/A	0	0	0	0		not developable	Town	land	land	yes		n/a		n/a		n/a	yes
99102.000	34 Farr Ln	0.9 A; COMM BLDG/2APTS	100	480	480	480	0	0	480	576	490	0	permit	32	30-40	yes	480	no		no		yes	yes
99103.000	46 Farr Ln	0.5 A; 2 APTS/OFFICES	100	210	210	210	0	0	210	252	220	0	private well	43	>40	yes	210	no		no		yes	yes
99104.000	4402 Main St	0.3 A; OFFICE BLDG	150	150	150	150	0	0	150	180	165	0	permit (Act 250)	40	30-40	yes	150	no		no		yes	yes
99105.000	4412 Main St	0.2 A; COMM BLDG/APT	100	282	282	282	0	0	282	338	292	0	Town	122	>40	yes	282	no		no		yes	yes
99107.000	54 Farr Ln	3.16 A; 496 DIAL OFFICE		210	210	210	0	0	210	252	210	0	private well	55	>40	yes	210	no		no		no	yes
99108.000	Main St	2A; COMMON LAND		3000	3000	3000	0	0	3000	3600	3000	0	permit	13	<20	yes	3000	yes	3000	yes	3000	no	yes
99109.100	4492 Main St	0.5A DWL		420	245	210	420	0	630	630	378	0	Town	182	>40	yes	210	yes	210	no		no	yes
99110.000	4477 Main St	1.6 A; OFICE BLDG	100	210	210	210	0	0	210	252	220	0	private well	31	30-40	yes	210	yes	210	yes	210	no	yes
99111.000	4509 Main St	1 A; DWL		600	600	600	840	0	1440	1440	936	0	permit	24	20-30	yes	600	yes	600	yes	600	no	yes
99112.000	4524 Main St	0.22 A; DWL		420	245	210	0	0	210	252	210	0	Town	1	<20	yes	210	assumed no		assumed no		assume no	yes
99113.000	4529 Main St	0.3 A; OFFICE/2 APTS	100	372	372	372	0	0	372	447	382	0	Town	162	>40	yes	372	yes	372	yes	372	no	yes
99114.000	4544 Main St	0.25 A; SHED/SHOP	210	210	210	210	0	0	210	252	231	0	Town	37	30-40	yes	210	assumed no		assumed no		unknown	yes
99115.000	4581 Main St	1.7 A; DWL		420	245	210	0	0	210	252	210	0	Town	172	>40	yes	210	yes	210	yes	210	no	yes
99116.000	4576 Main St	1 A; DWL		420	245	210	0	0	210	252	210	0	private well	30	20-30	yes	210	no		no		yes	yes
99117.000	4631 Main St	0.3 A; AUTO REPAIR GAR	210	210	210	210	0	0	210	252	231	0	Town	38	30-40	yes	210	no		yes	210	yes	yes
99118.000	118 Radcliffe Dr	2.3 A; DWL & SHOPS	100	420	245	210	0	0	210	252	220	0	Town	50	>40	yes	210	no		no		yes	yes
99119.000	39 Radcliffe Dr	1.84 A; DWL		420	245	210	0	0	210	252	210	0	Town	34	30-40	yes	210	no		no		no	yes
99120.000	4740 Main St	1.5 A; COMM	210	420	245	210	0	0	210	252	231	0	Town	50	>40	yes	210	no		no		yes	yes
99121.000	4752 Main St	2 A; COMM BLDG	1040	1040	1040	1040	0	0	1040	1248	1144	0	permit	23	20-30	yes	1040	no		no		yes	yes
99122.000	Main St	2 A; POND LOT		N/A	N/A	N/A	0	0	0	0		not developable	Town	land	land	no		n/a		n/a		n/a	yes
99123.000	4811 Main St	1.02 DWL		0	0	0	0	0	0	0		included in #99123.100 ww permit.	permit	14	<20	yes		no		no		no	yes
99123.100	4805 Main St	1.82 A COMM BLDG	1290	1290	1290	1290	0	0	1290	1548	1419	0	permit	14	<20	yes	1290	no		no		no	yes
99125.000	4751 Main St	11.6A		210	210	210	0	0	210	252	210	0	private well	49	>40	no		unknown		unknown		assumed no	

Wastewater Needs: Proposed Service Area			Existing WW Flows				Future WW Flows (Existing + Future Antitipated Needs)						Parcel Wastewater System Age (est.)			Additional Parcel Considerations								
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99127.000	4919 Main St	17.1 A; DWL/SHOP		210	210	210	1120	1790	2000	2000	658	Existing: in permit noted is reserved for Parker Residence. Appears to be 1 existing house there now. Future: Town infill data = 1120 future infill. Permit WW-5-6542 notes 2000gpd in reserve. Should we assume additional 1120gpd or should we assume 2000 gpd total for future?	private well	51	>40	yes	2000	no		no			no	yes
99128.000	4976 Main St	2.6A; DWL		420	245	210	0	0	210	252	210		private well	50	>40	yes	245	no		no			yes	yes
99128.003	Main St	1.4 A		0	0	0	840	0	840	840	336		Town	land	land	yes	0	n/a		n/a			n/a	yes
99129.000	Carroll Rd	38.59 A		0	0	0	0	0	0	0	0		Town	land	land	no	0	n/a		n/a			n/a	yes
99130.000	19A&B Baird Ln	9.1 A; DWL/APT		420	490	420	1120	0	1570	1570	868	2 apartments	permit	28	20-30	no	0	no		no			no	yes
99130.100	123 Baird Ln	1.9 A; DWL		262	297	262	0	0	262	262	262	Motor vehicle shop and house (assume 13gpd/employee x 4 employees for shop)	private well	25	20-30	yes	210	unknown		unknown		unknown	unknown	yes
99131.000	5123 Main St	3.8 A; SHOPPING CTR.	3942	3942	3942	3942	0	594	4536	4536	4336	per Town spreadsheet	permit	5	<20	no	0	no		no			yes	yes
99132.000	5127 Main St	0.33A; MINI-MART MAP 6A	801	801	801	801	0	0	801	961	881		Town	52	>40	yes	801	no		no			no	yes
99133.000	5121U6 Main St	0.87 A; STORE	1125	1125	1125	1125	0	0	1125	1350	1238		permit	23	20-30	yes	1125	no		no			no	yes
99135.000	Main St	3.5 A; CEMETRY		N/A	N/A	N/A	0	0	0	0	0	not developable	Town	land	land	N/A	0	n/a		n/a			n/a	yes
99136.000	5197 Main St	1.6 A; COMMON LAND		360	360	360	1680	0	2040	2040	1032		Town	40	30-40	no	0	no		no			yes	yes
99138.000	5267 Main St	1.15 A; WAITSFIELD INN	480	480	480	480	1260	0	1740	1740	1032		private well	45	>40	yes	480	no		no			yes	yes
99139.000	5275 Main St	2.5 A; RETAIL STORE	250	250	250	250	0	0	250	300	275		permit	10	<20	no	0	no		no			no	yes
99140.000	5285 Main St	1 A; DWL		420	245	210	0	0	210	252	210		private well	34	30-40	yes	210	no		no			no	yes
99141.000	5351 Main St	1.5 A; RESTAURANT/APT	882	882	882	882	0	280	1162	1162	970	Assume increase due to adding 3rd floor apt (Irasville Commercial district). There is also a restaurants on this parcel. Assume 3rd floor apt = 2 bedrooms x 140 gpd/bedroom	private well	46	>40	yes	882	no		no			no	yes
99142.000	5070 Main St	2 A; BANK (Now Offices)	150	150	150	150	3360	0	3570	3570	1509	Parcel is divided by road. Small offices building per Town. Assume 10 employees x 15 gpd = 150 gpd	private well	53	>40	no	0	no		no			no	yes
99143.000	5086 Main St	0.53 A; COMM BLDG	450	450	450	450	0	0	450	540	495		permit	23	20-30	yes	450	no		no			yes	yes
99144.000	5130 Main St	0.73 A; COMM	1595	1595	1595	1595	0	0	1595	1914	1755		permit	5	<20	yes	1595	no		no			no	yes
99145.000	171 Slow Rd	0.6 A; 2 COMM BLDG	210	210	210	210	0	0	210	252	231		Town	132	>40	yes	210	assumed no		assumed no			unknown	yes
99146.001	40 Slow Rd	5.42A RINK	210	450	245	210	0	0	210	252	231	latest permit was for new skating facility w/ no new flows. Assume original permitted flow was for 1 res. House.	permit	30	20-30	no	0	no		no			no	yes
99147.000	167 Mad River Canoe	3.53 A; IND BLDGS	1500	1500	1500	1500	0	0	1500	1800	1650		permit	7	<20	yes	1500	no		no			no	yes
99149.000	89 Mad River Green	0.18 A; RETAIL	450	450	450	450	0	0	450	540	495		permit	25	20-30	yes	450	assumed no		assumed no			unknown	yes
99152.000	100 Mad River Green	16.94 A; SHOPPING CTR	6000	12484	12484	12484	2940	0	15424	15424	14260		permit	25	20-30	no	0	no		no			yes	yes
99152.000	100 Mad River Green	Supermarket	1200	1200	1200	1200					1320	Shaws (left side of parcel). Input on ww flows from Town.				no	0	no		no			no	yes
99152.100			100	681	681	681					691	Per Town: subdivision from 99152, New Rec On GIS is part of 99152.000. Located on west side of Mad River Road	New Permit Old Field		30-40	no	681	no		no			no	yes
99153.000	139 Post Office Rd	.76 A		420	245	210	0	0	210	252	210		permit	25	20-30	yes	210	assumed no		assumed no			assumed no	yes
99156.000	165 Post Office Rd	1.25 A; DWL		420	245	210	0	0	210	252	210		Town	25	20-30	yes	210	assumed no		assumed no			unknown	yes
99157.000	Slow Rd	0.6 A;		0	0	0	0	0	0	0	0		Town	land	land	yes	0	n/a		n/a			n/a	yes
99158.000	5274 Main St	0.2 A; COMMON LAND		407	407	407	0	0	407	488	407		Town	172	>40	yes	407	no		no			no	yes

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99159.000	5308 Main St	0.9 A; AFFORDABLE HOUSING		1875	1875	1875	0	940	2815	2815	1875	This parcel is existing affordable housing land use. Assume 50% increase due to adding 3rd floor apt/housing (Irasville Commercial district).	permit	23	20-30	yes	1875	no		no		no	no	yes
99160.000	5354 Main St	1.4 A; COMM BLDG & DWL	100	353	353	353	980	0	1333	1333	755		private well	49	>40	yes	353	no		no		no	no	yes
99161.000	5358 Main St	1.09 A; COMM BLDG	1570	1570	1570	1570	560	0	2130	2130	1951		permit	17	<20	no		no		no		no	no	yes
99162.000	Bragg Hill Rd	2.76 A						210	210	210	0	Land for development	Town			yes		assumed no		assumed no		unknown	yes	
99163.000	118 Bragg Hill Rd	1.14 A; DWL		420	245	210			210	252	210	assume 1 res.	private well	26	20-30	yes		assumed no		assumed no		unknown	yes	
99164.000	8 Vt Rte 17	0.9 A; COMM REST	4950	4950	4950	4950		0	4950	5940	5445	No Longer a restaurant (prior permit use). Per Town, at least 1 apt located here. Keep restaurant ww flow here to be conservative.	permit	20	20-30	yes	4950	no		no		no	no	yes
99165.000	16 VT Rte 17	1 A COMM	625	625	625	625			625	625	688	Existing gas station	Town			yes		no		no		unknown	yes	
99166.000	24 VT Rte 17	2.8 A; OFFICEBLDG/APT	150	150	150	150	210		360	360	249	Suburban propane office bldg (assume 10 employees without showers)	private well	36	30-40	yes		unknown		assumed no		unknown	yes	
99167.000	40 VT Rte 17	1.95A; GARAGE	210	210	210	210			210	252	231	Mill Brook Imports (auto sales and repair). Assumed ww flow.	private well	26	20-30	yes		assumed yes		unknown		unknown	yes	
99167.100	43 VT Rte 17	0.25; SAWMILL	210	210	210	210			210	252	231	Sawmill per GIS. Assume 6 empl	Town			yes		assumed yes		unknown		unknown	yes	
99168.100	Main St	3.7 A BARN	0	0	0	0	0	0	0	0	0	included in #99169.000	permit	31	30-40	yes	0	unknown		unknown		unknown	yes	
99169.000	9 Vt Rte 17	2. A; RETAIL/4APTS	3000	3450	3450	3450	0	1120	4570	4570	3750	New future use at parcel to be a New Visitor Center per Town input. Assume this is in addition to currently permitted land use (WW-5-0156-2R)	permit	31	30-40	yes	3450	yes	3450	no		no	no	yes
99170.000	5513 Main St	0.48 A; OFFICE/APT	100	450	450	450	0	280	730	730	460	Assume increase due to adding 3rd floor apt (Irasville Commercial district). Assume 1 additional apt (1 apt x 2 bdr x 140 gpd/bdr)	permit	27	20-30	no		no		no		yes	yes	
99171.000	5523 Main St	0.4 A; OFFICE BLDG	248	248	248	248	0	0	248	298	273		permit	4	<20	yes	248	no		no		no	no	yes
99172.000	5527 Main St	0.3 A; COMM BLDG/APT	100	210	210	210	0	280	490	490	220	Assume increase due to adding 3rd floor apt (Irasville Commercial district). Assume 1 additional apt (1 apt x 2 bdr x 140 gpd/bdr)	Town	172	>40	yes	210	no		no		no	no	yes
99172.100	41 Dugway Rd	0.2 A; OFFICE BLDG	135	135	135	135	0	0	135	162	149		permit	5	<20	yes	135	no		no		no	no	yes
99173.000	49 Fiddlers Green	4.08 A; OFFICE BLDG	770	770	770	770	200	0	970	970	927		permit	21	20-30	no		yes	770	no		no	no	yes
99175.000	168 Fiddlers Green	1.77 A; LAUNDRAMAT	6090	6090	6090	6090	0	0	6090	7308	6699		permit	26	20-30	yes	6090	yes	6090	no		no	no	yes
99176.000	156 Fiddlers Green	0.86 A; COMM BLDG/APT	100	324	324	324	0	280	604	604	334	Assume increase due to adding 3rd floor apt (Irasville Commercial district). Assume 1 additional apt (1 apt x 2 bdr x 140 gpd/bdr)	permit	21	20-30	yes	324	yes	324	no		no	no	yes
99177.000	138 Fiddlers Green	0.53 A; OFF BLDG/2APTS	100	271	271	271	0	560	831	831	281	Currently a dentist + 2 apartments per town. WW flow of 271 per permit WW-5-1521 documents. Future use: assume increase due to adding 3rd floor apt (Irasville Commercial district). Assume 2 additional apts (2 apt x 2 bdr x 140 gpd/bdr)	permit	21	20-30	yes	271	assumed yes	271	assumed no		assumed no	yes	

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99178.000	124 Fiddlers Green	0.48 A; CAR WASH	41	41	41	41		425	466	466	45	Permit for car wash under WW-5-1522. Per Town comment: Soup Kitchen/Office etc. Assume currently car wash and add soup kitchen/office in future. Future: assume soup kitchen with 25 seats @ 14 gpd + office 5 employees x 15 gpd	permit	21	20-30	yes	41	yes	41	no		no	no	yes
99180.000	Fiddlers Green	0.532A; COMMON LAND		N/A	N/A	N/A	0	0	0	0	0		Town	land	land	no		n/a		n/a		n/a	n/a	
99181.000	Fiddlers Green	0.484A; COMMON LAND		N/A	N/A	N/A	0	0	0	0	0	not developable	Town	land	land	yes		yes		no		no	no	yes
99183.000	5639 Main St	3.3A; DWL		144	245	210	560	0	770	770	434	latest permit included converting building from light manufacturing to SFR + Dwelling assume 4 employees for building that is not house 4 Room massage 10 employees. Probably at least 150gpd. Looking at putting 5 bdrm house behind it	permit	22	20-30	yes	245	no		no		no	no	yes
99183.200	5677 Main St	1.2A; COMM BLDG	90	90	90	90	700	0	790	790	379		Town	182	>40	yes	90	yes		no		no	no	yes

APPENDIX O

Wastewater Needs: Proposed Service Area Parcels with Leachfield Constraints			Existing WW Flows				Future WW Flows (Existing + Future Antitipated Needs)						Parcel Wastewater System Age (est.)			Additional Parcel Considerations							
Map ID	E911 Address	Property Description	Approx. Ext. Commercial GPD	Existing WW Flows, gpd (residential: 420gpd)	Existing WW Flows with Community System (residential: 245 gpd)	Existing WW Flows with Community System (residential: 210 gpd)	Future Additional Infill WW Demand, gpd	D&K Calc. Future Additional WW Flows, gpd	Total Future WW Demand, No Annual Growth	Total Future WW Demand, With 20% Growth Factor	Assumed Future WW Demand, gpd (Existing Community System + 10% add'l commercial + 40% Infill)	WW Flows Notes	Source for WW System Age	Approximate WW System Age (years)	WW Age Category	Is the lot area-constrained?	Is the lot area-constrained? ERU	Leachfield in river corridor?	Leachfield in river corridor? ERU	Leachfield in a floodplain?	Leachfield in a floodplain? ERU	Leachfield overlapping Well Shield	Leachfield Constraint?
01001.000	4391 Main St	LIBRARY A	355	355	355	355	0	0	355	426	391	Shared permit with Town offices - flow shown is the total for both	permit	8	<20	yes	355	no		no		no	yes
01002.000	27 Bridge St	.5 DWL & SHOP	1200	1200	1200	1200	0	0	1200	1440	1320	listed as residential but permitted for pizza house.	permit	27	20-30	yes	1200	yes	1200	yes	1200	yes	yes
01003.000	45 Bridge St	1. A; COMM BLDG	100	100	100	100	0	0	100	120	110		permit	30	20-30	yes	100	yes	100	yes	100	yes	yes
01004.000	20 Bridge St	0.26 A; COMM BDG	310	310	310	310	0	0	310	372	341		private well	50	>40	yes	310	yes	310	yes	310	yes	yes
12026.000	756 Old County Rd	1 A; DWL		420	245	210	0	0	210	252	210		Town	172	>40	yes	210	assumed no		assumed no		assumed no	yes
23001.100	48 Carroll Rd	1 A; MOVIE THEATHE	1938	1938	1938	1938	0	0	1938	2326	2132	Carroll Rd parcel	permit	8	<20	yes	1938	no		no		no	yes
23003.000	155 Carroll Rd	9.64 A; COMM BLDG	4523	4523	4523	4523	0	0	4523	5428	4975	Carroll Rd parcel	permit	8	<20	yes	4523	no		no		no	yes
23005.000	154 Carroll Rd	2.11 A; LUMBER SUPPLY	108	108	108	108	0	0	108	130	119	Carroll Rd parcel	permit	8	<20	yes	108	no		no		no	yes
37001.000	45 Parsonage Ln	0.75 A; APT BLDG		1120	1120	1120	0	0	1120	1344	1120		Town	55	>40	yes	1120	no		no		no	yes
37002.000	55 Parsonage Ln	0.5 A; PARSONAGE		420	245	210	840	0	1050	1050	546		private well	23	20-30	yes	210	no		no		yes	yes
37003.000	47 Mehuron Dr	0.6 A; DWL		420	245	210	0	0	210	252	210		private well	54	>40	yes	210	no		no		yes	yes
38001.000	156 Dugway Rd	1.41 A; OFFICE/ 4 APTS		1365	1365	1365	0	1120	2485	2485	1365	Assume increase due to adding 3rd floor apt (Irasville Commercial district). Assume 4 additional apts (4 apt x 2 bdr x 140 gpd/bdr)	Town	184	>40	no		no		no		yes	yes
38002.000	152 Dugway Rd	1.11 A; DWL		490	245	210	0	0	210	252	210		permit	18	<20	no		no		no		yes	yes
38004.000	100 Dugway Rd	1.07 A; COMMON LAND		1800	1800	1800	0	0	1800	2160	1800		permit	33	30-40	no		no		no		yes	yes
38005.000	106 Dugway Rd	0.21 A; DWL		140	245	210	0	0	210	252	210		permit	9	<20	yes	210	no		no		no	yes
38009.000	118 Butcher House Dr	10.31 A; DWL		420	245	210	0	0	210	252	210		private well	50	>40	no		yes	210	no		no	yes
38010.000	49 Butcher House Dr	1 A; STORAGE BARN	210	210	210	210	0	0	210	252	231		private well	40	30-40	yes	210	assumed no		assumed no		assumed no	yes
99046.001	4200 Main St	0.62A; COMMON LAND....		1050	1050	1050	0	0	1050	1260	1050	Main Street Condominiums	permit	21	20-30	yes	1050	no		no		yes	yes
99048.000	3962 Main St	0.26 A; DWL		420	210	210	0	0	210	252	210		Town	76	>40	yes	210	no		no		no	yes
99050.000	859 Old County Rd	1 A; HEALTH CTR	1360	1360	1360	1360	0	0	1360	1632	1496		permit	17	<20	yes	1360	no		no		no	yes
99051.000	3951 Main St	7.7 A; SCHOOL		4500	4500	4500	0	0	4500	5400	4500	Town broke down into 2 rows	permit	32	30-40	no		yes	4500	no		no	yes
99051.100	4103 Main St	1.3 A; COMM		0	0	0	0	0	0	0	0	Town broke down into 2 rows, WW demand shown in row above.	permit	31	30-40	no		yes	245	no		no	yes
99051.200	4125 Main St	0.7A; COMMON LAND		1400	1400	1400	0	0	1400	1680	1400		Town	40	30-40	no		assumed no		assumed no		assumed yes	assumed yes
99053.000	4102 Main St	0.5 A; DWL		420	245	210	1120	0	1330	1330	658		Town	62	>40	yes	210	assumed no		assumed no		unknown	yes
99054.000	4124 Main St	0.23 A; DWL		420	245	210	0	0	210	252	210		permit	6	<20	yes	210	no		no		yes	yes
99055.000	4147 Main St	0.36 A; COM BLDG/1 APT		370	370	370	0	0	370	444	370		Town	172	>40	no		no		no		yes	yes
99056.000	4167 Main St	0.25 A; DWL		420	245	210	0	0	210	252	210		Town	not available	not available	yes	210	no		no		yes	yes
99057.000	4177 Main St	2.61 A; COMM	500	500	500	500	2100	0	2600	2600	1390		permit	23	20-30	no		yes	2600	yes	2600	no	yes
99058.000	4199 Main St	0.67 A; DWL		420	245	210	700	0	910	910	490		Town	177	>40	no		no		no		yes	yes
99062.000	4254 Main St	0.49 A; COMMON LAND		1150	1150	1150	0	0	1150	1380	1150		permit	30	20-30	yes	1150	no		no		yes	yes
99063.000	Main St	.05A; COMMON SITE		N/A	N/A	N/A	0	0	0	0	0	not developable	Town	n/a	n/a	yes		n/a		n/a		n/a	yes
99064.000	4276 Main St	0.63 A; COM BLDG/3APTS	100	1680	1680	1680	700	0	2380	2380	1970		permit	0	<20	yes	1680	no		no		yes	yes
99066.000	4317 Main St	0.77 A; COM BDG/4 APTS	100	840	840	840	700	0	1540	1540	1130		Town	188	>40	no		yes	840	no		no	yes
99068.000	4324 Main St	0.47 A; 2 COMM BLDGS	210	210	210	210	1120	0	1330	1330	679		Town	102	>40	yes	210	no		no		unknown	yes
99069.000	4348 Main St	0.5 A; MINIMART/SPT	225	225	225	225	0	0	225	225	248	Kingsbury General Store - assume 100gpd deli + 125gpd service station	Town	182	>40	yes	210	no		no		yes	yes
99070.000	4366 Main St	0.2 AC & SHOP/ 3 APTS	100	900	900	900	0	0	900	1080	910		permit	21	20-30	yes	900	no		no		no	yes
99071.000	4376 Main St	0.06 A; MASONIC HALL		210	210	210	0	0	210	252	210		Town	157	>40	yes	210	no		no		no	yes
99072.000	4335 Main St	2.45A; CHURCH		1785	1785	1785	0	0	1785	2142	1785		permit	8	<20	no		assumed yes	1785	assumed yes	1785	no	assumed yes
99073.000	Main St	Cemetery		N/A	N/A	N/A	0	0	0	0	0		Town	land	land	yes		n/a		n/a		n/a	yes
99101.000	Main St	0.24 A; PARKING LOT		N/A	N/A	N/A	0	0	0	0	0	not developable	Town	land	land	yes		n/a		n/a		n/a	yes
99102.000	34 Farr Ln	0.9 A; COMM BLDG/2APTS	100	480	480	480	0	0	480	576	490		permit	32	30-40	yes	480	no		no		yes	yes
99103.000	46 Farr Ln	0.5 A; 2 APTS/OFFICES	100	210	210	210	0	0	210	252	220		private well	43	>40	yes	210	no		no		yes	yes
99104.000	4402 Main St	0.3 A; OFFICE BLDG	150	150	150	150	0	0	150	180	165		permit (Act 250)	40	30-40	yes	150	no		no		yes	yes

Wastewater Needs: Proposed Service Area Parcels with Leachfield Constraints			Existing WW Flows				Future WW Flows (Existing + Future Antitipated Needs)						Parcel Wastewater System Age (est.)			Additional Parcel Considerations							
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99105.000	4412 Main St	0.2 A; COMM BLDG/APT	100	282	282	282	0	0	282	338	292		Town	122	>40	yes	282	no		no		yes	yes
99107.000	54 Farr Ln	3.16 A; 496 DIAL OFFICE		210	210	210	0	0	210	252	210		private well	55	>40	yes	210	no		no		no	yes
99108.000	Main St	2A; COMMON LAND		3000	3000	3000	0	0	3000	3600	3000		permit	13	<20	yes	3000	yes	3000	yes	3000	no	yes
99109.100	4492 Main St	0.5A DWL		420	245	210	420	0	630	630	378		Town	182	>40	yes	210	yes	210	no		no	yes
99110.000	4477 Main St	1.6 A; OFFICE BLDG	100	210	210	210	0	0	210	252	220		private well	31	30-40	yes	210	yes	210	yes	210	no	yes
99111.000	4509 Main St	1 A; DWL		600	600	600	840	0	1440	1440	936		permit	24	20-30	yes	600	yes	600	yes	600	no	yes
99112.000	4524 Main St	0.22 A; DWL		420	245	210	0	0	210	252	210		Town	1	<20	yes	210	assumed no		assumed no		assume no	yes
99113.000	4529 Main St	0.3 A; OFFICE/2 APTS	100	372	372	372	0	0	372	447	382		Town	162	>40	yes	372	yes	372	yes	372	no	yes
99114.000	4544 Main St	0.25 A; SHED/SHOP	210	210	210	210	0	0	210	252	231		Town	37	30-40	yes	210	assumed no		assumed no		unknown	yes
99115.000	4581 Main St	1.7 A; DWL		420	245	210	0	0	210	252	210		Town	172	>40	yes	210	yes	210	yes	210	no	yes
99116.000	4576 Main St	1 A; DWL		420	245	210	0	0	210	252	210		private well	30	20-30	yes	210	no		no		yes	yes
99117.000	4631 Main St	0.3 A; AUTO REPAIR GAR	210	210	210	210	0	0	210	252	231		Town	38	30-40	yes	210	no		yes	210	yes	yes
99118.000	118 Radcliffe Dr	2.3 A; DWL & SHOPS	100	420	245	210	0	0	210	252	220		Town	50	>40	yes	210	no		no		yes	yes
99119.000	39 Radcliffe Dr	1.84 A; DWL		420	245	210	0	0	210	252	210		Town	34	30-40	yes	210	no		no		no	yes
99120.000	4740 Main St	1.5 A; COMM	210	420	245	210	0	0	210	252	231		Town	50	>40	yes	210	no		no		yes	yes
99121.000	4752 Main St	2 A; COMM BLDG	1040	1040	1040	1040	0	0	1040	1248	1144		permit	23	20-30	yes	1040	no		no		yes	yes
99123.000	4811 Main St	1.02 DWL		0	0	0	0	0	0	0	0	included in #99123.100 ww permit.	permit	14	<20	yes		no		no		no	yes
99123.100	4805 Main St	1.82 A COMM BLDG	1290	1290	1290	1290	0	0	1290	1548	1419		permit	14	<20	yes	1290	no		no		no	yes
99127.000	4919 Main St	17.1 A; DWL/SHOP		210	210	210	1120	1790	2000	2000	658	Existing: in permit noted is reserved for Parker Residence. Appears to be 1 existing house there now. Future: Town infill data = 1120 future infill. Permit WW-5-6542 notes 2000gpd in reserve. Should we assume additional 1120gpd or should we assume 2000 gpd total for future?	private well	51	>40	yes	2000	no		no		no	yes
99128.000	4976 Main St	2.6A; DWL		420	245	210	0	0	210	252	210		private well	50	>40	yes	245	no		no		yes	yes
99128.003	Main St	1.4 A		0	0	0	840	0	840	840	336		Town	land	land	yes	0	n/a		n/a		n/a	yes
99130.100	123 Baird Ln	1.9 A; DWL		262	297	262	0	0	262	262	262	Motor vehicle shop and house (assume 13gpd/employee x 4 employees for shop)	private well	25	20-30	yes	210	unknown		unknown		unknown	yes
99131.000	5123 Main St	3.8 A; SHOPPING CTR.	3942	3942	3942	3942	0	594	4536	4536	4336	per Town spreadsheet	permit	5	<20	no		no		no		yes	yes
99132.000	5127 Main St	0.33A; MINI-MART MAP 6A	801	801	801	801	0	0	801	961	881		Town	52	>40	yes	801	no		no		no	yes
99133.000	5121U6 Main St	0.87 A; STORE	1125	1125	1125	1125	0	0	1125	1350	1238		permit	23	20-30	yes	1125	no		no		no	yes
99136.000	5197 Main St	1.6 A; COMMON LAND		360	360	360	1680	0	2040	2040	1032		Town	40	30-40	no		no		no		yes	yes
99138.000	5267 Main St	1.15 A; WAITSFIELD INN	480	480	480	480	1260	0	1740	1740	1032		private well	45	>40	yes	480	no		no		yes	yes
99140.000	5285 Main St	1 A; DWL		420	245	210	0	0	210	252	210		private well	34	30-40	yes	210	no		no		no	yes
99141.000	5351 Main St	1.5 A; RESTAURANT/APT	882	882	882	882	0	280	1162	1162	970	Assume increase due to adding 3rd floor apt (Irasville Commercial district). There is also a restaurants on this parcel. Assume 3rd floor apt = 2 bedrooms x 140 gpd/bedroom	private well	46	>40	yes	882	no		no		no	yes
99143.000	5086 Main St	0.53 A; COMM BLDG	450	450	450	450	0	0	450	540	495		permit	23	20-30	yes	450	no		no		yes	yes
99144.000	5130 Main St	0.73 A; COMM	1595	1595	1595	1595	0	0	1595	1914	1755		permit	5	<20	yes	1595	no		no		no	yes
99145.000	171 Slow Rd	0.6 A; 2 COMM BLDG	210	210	210	210	0	0	210	252	231		Town	132	>40	yes	210	assumed no		assumed no		unknown	yes
99147.000	167 Mad River Canoe	3.53 A; IND BLDGS	1500	1500	1500	1500	0	0	1500	1800	1650		permit	7	<20	yes	1500	no		no		no	yes
99149.000	89 Mad River Green	0.18 A; RETAIL	450	450	450	450	0	0	450	540	495		permit	25	20-30	yes	450	assumed no		assumed no		unknown	yes
99152.000	100 Mad River Green	16.94 A; SHOPPING CTR	6000	12484	12484	12484	2940	0	15424	15424	14260		permit	25	20-30	no		no		no		yes	yes
99153.000	139 Post Office Rd	.76 A		420	245	210	0	0	210	252	210		permit	25	20-30	yes	210	assumed no		assumed no		assumed no	yes
99156.000	165 Post Office Rd	1.25 A; DWL		420	245	210	0	0	210	252	210		Town	25	20-30	yes	210	assumed no		assumed no		unknown	yes
99157.000	Slow Rd	0.6 A;		0	0	0	0	0	0	0	0		Town	land	land	yes	0	n/a		n/a		n/a	yes

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99158.000	5274 Main St	0.2 A; COMMON LAND		407	407	407	0	0	407	488	407		Town	172	>40	yes	407	no		no		no	no	yes
99159.000	5308 Main St	0.9 A; AFFORDABLE HOUSING		1875	1875	1875	0	940	2815	2815	1875	This parcel is existing affordable housing land use. Assume 50% increase due to adding 3rd floor apt/housing (Irasville Commercial district).	permit	23	20-30	yes	1875	no		no		no	no	yes
99160.000	5354 Main St	1.4 A; COMM BLDG & DWL	100	353	353	353	980	0	1333	1333	755		private well	49	>40	yes	353	no		no		no	no	yes
99162.000	Bragg Hill Rd	2.76 A						210	210	210	0	Land for development	Town			yes		assumed no		assumed no		unknown	yes	
99163.000	118 Bragg Hill Rd	1.14 A; DWL		420	245	210			210	252	210	assume 1 res.	private well	26	20-30	yes		assumed no		assumed no		unknown	yes	
99164.000	8 Vt Rte 17	0.9 A; COMM REST	4950	4950	4950	4950		0	4950	5940	5445	No Longer a restaurant (prior permit use). Per Town, at least 1 apt located here. Keep restaurant ww flow here to be conservative.	permit	20	20-30	yes	4950	no		no		no	yes	
99165.000	16 VT Rte 17	1 A COMM	625	625	625	625			625	625	688	Existing gas station	Town			yes		no		no		unknown	yes	
99166.000	24 VT Rte 17	2.8 A; OFFICEBLDG/APT	150	150	150	150	210		360	360	249	Suburban propane office bldg (assume 10 employees without showers)	private well	36	30-40	yes		unknown		assumed no		unknown	yes	
99167.000	40 VT Rte 17	1.95A; GARAGE	210	210	210	210			210	252	231	Mill Brook Imports (auto sales and repair). Assumed ww flow.	private well	26	20-30	yes		assumed yes		unknown		unknown	yes	
99167.100	43 VT Rte 17	0.25; SAWMILL	210	210	210	210			210	252	231	Sawmill per GIS. Assume 6 empl	Town			yes		assumed yes		unknown		unknown	yes	
99168.100	Main St	3.7 A BARN	0	0	0	0	0	0	0	0	0	included in #99169.000	permit	31	30-40	yes	0	unknown		unknown		unknown	yes	
99169.000	9 Vt Rte 17	2. A; RETAIL/4APTS	3000	3450	3450	3450	0	1120	4570	4570	3750	New future use at parcel to be a New Visitor Center per Town input. Assume this is in addition to currently permitted land use (WW-5-0156-2R)	permit	31	30-40	yes	3450	yes	3450	no		no	yes	
99170.000	5513 Main St	0.48 A; OFFICE/APT	100	450	450	450	0	280	730	730	460	Assume increase due to adding 3rd floor apt (Irasville Commercial district). Assume 1 additional apt (1 apt x 2 bdr x 140 gpd/bdr)	permit	27	20-30	no		no		no		yes	yes	
99171.000	5523 Main St	0.4 A; OFFICE BLDG	248	248	248	248	0	0	248	298	273		permit	4	<20	yes	248	no		no		no	yes	
99172.000	5527 Main St	0.3 A; COMM BLDG/APT	100	210	210	210	0	280	490	490	220	Assume increase due to adding 3rd floor apt (Irasville Commercial district). Assume 1 additional apt (1 apt x 2 bdr x 140 gpd/bdr)	Town	172	>40	yes	210	no		no		no	no	yes
99172.100	41 Dugway Rd	0.2 A; OFFICE BLDG	135	135	135	135	0	0	135	162	149		permit	5	<20	yes	135	no		no		no	yes	
99173.000	49 Fiddlers Green	4.08 A; OFFICE BLDG	770	770	770	770	200	0	970	970	927		permit	21	20-30	no		yes	770	no		no	no	yes
99175.000	168 Fiddlers Green	1.77 A; LAUNDRAMAT	6090	6090	6090	6090	0	0	6090	7308	6699		permit	26	20-30	yes	6090	yes	6090	no		no	yes	
99176.000	156 Fiddlers Green	0.86 A; COMM BLDG/APT	100	324	324	324	0	280	604	604	334	Assume increase due to adding 3rd floor apt (Irasville Commercial district). Assume 1 additional apt (1 apt x 2 bdr x 140 gpd/bdr)	permit	21	20-30	yes	324	yes	324	no		no	yes	
99177.000	138 Fiddlers Green	0.53 A; OFF BLDG/2APTS	100	271	271	271	0	560	831	831	281	Currently a dentist + 2 apartments per town. WW flow of 271 per permit WW-5-1521 documents. Future use: assume increase due to adding 3rd floor apt (Irasville Commercial district). Assume 2 additional apts (2 apt x 2 bdr x 140 gpd/bdr)	permit	21	20-30	yes	271	assumed yes	271	assumed no		assumed no	yes	

Wastewater Needs: Proposed Service Area Parcels with Leachfield Constraints			Existing WW Flows				Future WW Flows (Existing + Future Antitipated Needs)					Parcel Wastewater System Age (est.)			Additional Parcel Considerations								
Map ID	E911 Address	Property Description	Approx. Ext. Commercial GPD	Existing WW Flows, gpd (residential: 420gpd)	Existing WW Flows with Community System (residential: 245 gpd)	Existing WW Flows with Community System (residential: 210 gpd)	Future Additional Infill WW Demand, gpd	D&K Calc. Future Additional WW Flows, gpd	Total Future WW Demand, No Annual Growth	Total Future WW Demand, With 20% Growth Factor	Assumed Future WW Demand, gpd (Existing Community System + 10% add'l commercial + 40% Infill)	WW Flows Notes	Source for WW System Age	Approximate WW System Age (years)	WW Age Category	Is the lot area-constrained?	Is the lot area-constrained? ERU	Leachfield in river corridor?	Leachfield in river corridor? ERU	Leachfield in a floodplain?	Leachfield in a floodplain? ERU	Leachfield overlapping Well Shield	Leachfield Constraint?
99178.000	124 Fiddlers Green	0.48 A; CAR WASH	41	41	41	41		425	466	466	45	Permit for car wash under WW-5-1522. Per Town comment: Soup Kitchen/Office etc. Assume currently car wash and add soup kitchen/office in future. Future: assume soup kitchen with 25 seats @ 14 gpd + office 5 employees x 15 gpd	permit	21	20-30	yes	41	yes	41	no		no	yes
99181.000	Fiddlers Green	0.484A; COMMON LAND		N/A	N/A	N/A	0	0	0	0		not developable	Town	land	land	yes		yes		no		no	yes
99183.000	5639 Main St	3.3A; DWL		144	245	210	560	0	770	770	434	latest permit included converting building from light manufacturing to SFR + Dwelling assume 4 employees for building that is not house	permit	22	20-30	yes	245	no		no		no	yes
99183.200	5677 Main St	1.2A; COMM BLDG	90	90	90	90	700	0	790	790	379	4 Room massage 10 employees. Probably at least 150gpd. Looking at putting 5 bdrm house behind it	Town	182	>40	yes	90	yes		no		no	yes