WINNIPESAUKEE RIVER BASIN PROGRAM

ADVISORY BOARD MEETING AGENDA

April 15, 2021 10:00 am

Due to the COVID-19 crisis and in accordance with Governor Sununu's Emergency Order #12 and Executive Order 2020-04 this meeting is to be conducted electronically.

The public has access to listen to and participate in this meeting by using the following link:

https://us02web.zoom.us/j/86175290966?pwd=a1lyNExodkFkdTVXd1NRclpqMWVyUT09

Meeting and entering the password: 338647 Listen only: Call 1-646-558-8656 and enter Webinar ID: 861 7529 0966 For problems, please call 603-528-6379

- 1. March 18, 2021 Meeting Minutes for review and approval
- 2. WRBP Monthly Summary Report March 2021
- 3. Citizen Comments for items on the agenda
- 4. Timeline for the CIP update
- 5. Governance Guidelines, MOA and possible By-Laws
- 6. Rate Assessment Update:

Discussion on plan developed after meeting with 4 southern communities on March 4, 2021.

Expect an update on the Underwood's proposed changes to the WRBP model before April 15th meeting.

- 7. Review of the escrow account
- 8. Replacement Fund
- 9. Other Business:
 - a. Next Advisory Board Meeting Thursday, May 20, 2021
 - b. Decision on method to meet.
- 10. Adjournment

Item#1
Minutes

WINNIPESAUKEE RIVER BASIN PROGRAM

ADVISORY BOARD MEETING MINUTES

March 18, 2021 – Conducted Electronically

Members Present: The meeting was called to order by Wes Anderson (Laconia), chair, at 10:01 am. Sharon McMillin (DES), Tom O'Donovan (DES), Rene Pelletier (DES), Ron White (DAS), Jeanne Beaudin (Belmont), Glen Brown (Northfield), Justin Hanscom (Franklin), Brian Sullivan (Franklin), Ray Korber (Bay District), and Meghan Theriault (Gilford) were present at that time.

Wes announced that due to the ongoing COVID-19 crisis and in accordance with Governor Sununu's Emergency Order No. 12 and Executive Order 2020-04, that the meeting would be conducted electronically, and was being hosted via Laconia's Zoom Video Communications account.

Minutes: Jeanne moved, seconded by Glen, to approve the February 18, 2021 meeting minutes as written. A roll call vote was taken and the motion carried.

Monthly Summary Report: Sharon distributed the *Monthly Summary Report* for February 2021 by email prior to the meeting.

- Energy Efficiency Upgrades No updates at this time.
- Solids Handling Process Upgrades Of note, this was a new project on the summary report, although it has been forecasted in the WRBP CIP since 2018. Phased projects included in the Solids Handling Master Plan developed for the WWTP are being identified for completion of the alternatives analyses (10 percent of the design) to move forward to a 30 percent design. Budgetary costs are being developed as the project phases are advanced to the 30 percent design.
- Asset Management (AM)/Collection System Evaluations Incentive No updates at this time.
- WRBP Infrastructure O&M Responsibilities No updates at this time.
- Replacement Fund No updates at this time.
- Governance Work Plan No updates at this time.
- Rate Assessment Formula No updates at this time.

Sharon described the first phase of the Solids Handling Process Upgrades project as being driven by a deteriorating biogas system that heats both the digesters and the main building, and that the deterioration has resulted in leaks and safety hazards. Brown & Caldwell (BC) has been working with the WRBP staff to evaluate the heat balance, heat exchangers, additional mixing in the primary digesters, and sidestream thickening.

The Solids Handling Master Plan is available for review and covers more than just this project; since it is a 20-year planning document. When the first phase is better defined the Advisory Board's input will be solicited for the viable alternatives. Ray expressed an interest in looking at the Solids Handling Master Plan so Sharon will send to the members via email.

Wes asked if the money for the design was in the 2020/2021 budget. Sharon explained that preapplications for SRF loans have already been submitted to cover both the wastewater upgrades and the solids handling engineering and construction, and that they were on the CWSRF priorities list for available funding. Additional funding would go into subsequent fiscal years as the solids handling project was just in the initial stages. Wes asked if the construction project (as a whole) was included in the CIP. Sharon explained that currently it was prospective only until more definitive figures are developed by the consultant and WRBP project team. Those budgetary amounts should be available for the CIP sub-committee to work with in September or October if it chose to meet. Ray expressed an interest in the CIP sub-committee meeting to update the CIP.

Citizens Comments for Agenda Items: Wes asked if there were any guests from the member communities participating on the call and if they had any questions, comments, or concerns regarding the agenda items. As there were no guests participating, he moved on to the next agenda item.

Governance Guidelines, MOA, and Bylaws Update: Wes announced that there were no updates at this time but the bylaws may be on the agenda next month.

Rate Assessment Formula Update: Wes asked the membership to refer to the PDF copy of the handouts that were distributed by email prior to the meeting, specifically to Item 5. The four southernmost communities met with Underwood on March 4th to review the model. Wes recapped the summary information provided in Item 5 and at the previous meetings.

Unknown flow was the topic at the meeting. It was defined as consisting of: I/ I in the WRBP interceptor from the Winnisquam pump station to the last meter before the WWTP; water consumption from the unmetered areas in the four southern communities; and I/ I in the unmetered areas of those four communities.

For water consumption in the unmetered areas, the four communities considered: Using an average consumption factor based on historical water use that Underwood had developed while performing its I/I studies in Belmont; applying the I/I factors from Belmont's recent study to Northfield, as their systems were similar in age and material; and applying the I/I factors from Franklin's recent study to Tilton. as their systems were similar in age and material.

At the April meeting, it is Wes' goal to review these considerations along with Underwood's suggested changes to the WRBP model and to establish a timeline for moving forward with a decision. Wes asked if there were any issues anyone wished to discuss now.

Jeanne expressed her concern about Johanna's (Tilton's) absence at the last two Advisory Board meetings and at the meeting on March 4th. Jeanne felt it was crucial for Tilton to be part of these conversations. Wes said that he has talked with Johanna, and that she seemed to agree with the concepts discussed during these meetings and confirmed that Tilton did not plan on doing an I/I study. Brian thanked the group for meeting with Underwood on the 4th and felt they had made a lot of progress.

Brian also announced that Franklin and Belmont have signed agreements with Underwood and planned to continue using them throughout this process. He hoped that doing so would give Johanna some of the support that she would need moving forward. Brian will be more involved in the discussions going forward.

Ray requested members look at the strength parameter again since the Bay District lagoons could be considered a pre-treated discharge. Wes noted that it was possible to include strength; however, the formula would require tweaking to include it. He asked Ray if he had suggestions in that regard. Ray suggested the CIP sub-committee to put together a proposal to incorporate strength.

Wes asked, with regard to the timeline, if strength was an immediate concern for Bay District or if Bay District was comfortable addressing it later on. Ray acknowledged that he would like the CIP subcommittee to get together to discuss it sooner than later.

Wes asked Sharon if she would be able to walk them through the consideration of strength as a component of the rate formula. He asked if the industrial-type operations bought their effluent down to a much lower level before releasing into the system. Sharon affirmed that they did. She noted that the WRBP did one study regarding community strength contributions (CBOD, TS, etc.) at different locations within the collection system. Findings did not indicate, outside of one discharge in Belmont, that any of the member communities had any significant differences in strength.

Sharon recommended revisiting the analytical data from the studies and offered to send Ray a copy of results. She also noted that Bay District discharged a significant amount of algae from its lagoon into the collection system, which is inhibitory of WRBP's treatment process, although that is the nature of lagoons. Ice cream shops and breweries also increased the CBOD flows to the WWTP. It may be beneficial for each member community to enforce strong sewer ordinances to control the commercial discharges; as DES controls the industrial discharges. Previous discussions had included a surcharge for strength so members or individual dischargers paid their fair share of treatment costs.

Wes asked if the analytical data was on the WRBP website or if Sharon could provide the data. Sharon noted that it has already been distributed but would send to Ray and Wes prior to Tuesday the 23rd. Jeanne requested the analytical data be updated because it was at least two years old and Belmont had addressed the discrete high strength discharge (ice cream) in Belmont.

Sharon indicated another collection system study could be performed to update the analytical strength data; however, she noted that it would not be possible to do so until after May. A new study may not be deemed necessary or cost-effective given the prior Advisory Board's decision not to include strength. The Advisory Board had voted not to include a strength parameter both because there were no significant differences between the member communities and also because of the potential on-going cost. Updating the analytical data was possible if the Advisory Board wished to consider strength moving forward but she suggested spot-checking as an option.

Wes thought that the available analytical data was helpful enough to develop the concept. Ray concurred. Wes did not believe that updating the analytical data would result in significant changes to the results.

Authority Workgroup Update: Wes announced that the City Manager of Laconia has talked with the decision makers in the other member communities, and it seemed as though Gilford and Meredith were not interested in pursuing a separate state agency.

Meghan explained that it was her understanding that Scott was not interested in pursuing a separate state agency unless there was unanimous support for doing so. Brian confirmed that Franklin, Tilton, and Northfield felt the same way.

Ray noted that some of the member communities still wished to have more control over how the money was spent, and asked if amending the MOU help. Jeanne believed that doing so would not change anything, because it would not change the ownership.

Brian moved, seconded by Glen, to remove this agenda item from the agenda for future meetings. A roll call vote was taken and the motion carried.

Wes asked if the money in the escrow account should be left in the account or reimbursed to members. If it was left in the account, it could assist with the rate assessment formula project. Brian, Ray, Jeanne, and Meghan were in favor of leaving it in the account. Brian indicated that Franklin would not provide additional money into the find but their current balance could assist with the rate formula work.

Replacement Fund: Wes asked, if based upon the discussion earlier about the rate assessment formula, if there was an interest in presenting a proposal to the NH Legislature to modify the replacement fund statutory language before the upcoming legislative session began in September. The effort had been on hold pending a decision to move forward with different governance. The general consensus was to move now forward with proposed changes since members had reached a consensus not to move forward with governance changes; so this discussion item will be on the agenda for the next meeting.

Other Business: Sharon announced that Ken Noyes, the WRBP's Chief Operator, retired last month. He has been with DES for over 27 years and will be greatly missed. There is an Interim Chief Operator at present, and DES has begun the hiring process to replace Ken.

The meeting adjourned at 10:55 am. The next meeting will be held on Thursday, April 15, 2021 at 10:00 am via Laconia's Zoom Video Communications account. The minutes were prepared by Pro-Temp Staffing.

Item#2 WRBP Monthly Sommary

Summary Report to the WRBP Advisory Board March 2021

Projects	Status & Schedule	Budget	Other info
Energy Efficiency Upgrades	In order to qualify for a CWSRF loan	The estimated project budget is \$400K with	This equipment upgrade was
at WRBP Facilities	and Eversource incentive	50% principal forgiveness from the CWSRF	recommended by the energy audit of
	requirements, the project is	and a \$100K Eversource incentive making	all WRBP facilities completed in early
	proposed to be substantially	the overall budget \$100K and a <1-year	2020. Project includes a smaller
	complete on or about Dec 31, 2020.	simple payback based on estimated	aeration blower, 2 RAS pumps and
	A task order for engineering support	electricity savings.	staff-installed facility lighting. The AB
	was executed. The aeration blower	,	expressed support of the project at
	and 2 RAS pumps were purchased		their August and Sept meetings.
	and plans and specifications for		
	WRBP installation have been		
	approved. Blower delivered late		
	December; custom pumps delivery		
	delayed until June. Installation		
	work by WRBP staff and		
	contractor(s) is on-going.		
Solids Handling Process	Phased projects included in the	Budgetary costs are still being developed as	The Solids Handling Process Upgrade
Upgrades	Solids Handling Master Plan	the project phases are advanced to the 30%	Project has been forecast in the
	developed for the Franklin WWTP	design.	WRBP CIP since FY18.
	are being identified for completion	***	
	of the alternative analyses (10%		
	design) to move forward to a 30%		
	design.		

Program Initiatives	Status & Schedule	Budget	Other info
WRBP Infrastructure	Belmont, Northfield, DAS, Gilford	The AG's office developed language for	Discussion continues with the 5
O&M Responsibilities -	and Tilton Executed MOAs with DES.	MOAs to clarify the O&M responsibilities of	members.
Memoranda of Agreement	MOAs for Bay District, Sanbornton,	properties, facilities or components that	
	Meredith, Franklin and Laconia were	are indeterminate.	
	re-sent in February 2020 and are		
	under review by members.		

Replacement Fund	Replacement fund valuation reset to	Legislation to modify the Replacement	Laconia and Gilford are reimbursing
Replacement rand	include pipelines pending in FY20.	Fund statue was proposed by Gilford at the	the Replacement Fund for the
	The pipeline lining repair and plant	meeting in July. Discussions continued	Pendleton Forcemain repairs. The
	water repair funded from the	regarding the current assessment	changes to the replacement fund
	replacement fund were completed.	methodology and proposed revisions.	reimbursement methodology vote
	Legislation will be required to		that failed on 5/21/2020 was
	change the current Replacement		revisited on July 16 to reflect a
	Fund reimbursement methodology.		preference for 50% reimbursement
	DES forwarded the AG's opinion on		by all members based on the current
	these proposed statutory changes to		percent allocation and 50% collected
	the Advisory Board chairman on		from only those members using the
	1/4/2021.		fund for the expenses.
Governance Work Plan	The work plan to evaluate	DES responded to the Gilford letter	The Governance group engaged legal
	alternative governance structures	requesting clarification regarding	assistance to evaluate next steps to
	for the WRBP was approved at the	ownership transfer of assets on 1/25/2017.	get to a decision point on
	10/2/2016 Advisory Board meeting.	Laconia escrow agreement will collect	governance options. DES' 11/8/18
	The legal firm presented their	funds for the study with an initial budget of	response to the Phase I Roadmap
	roadmap at the July 2018 meeting;	\$50K in 2018 and \$50K in 2019. Additional	presentation held at DES on 9/28/18
	and members approved starting the	escrow funds will be collected for the	was discussed at the November 2018
	Phase I efforts. The AG's office	pending due diligence phase using the	meeting. A draft WRBC District
	documented DES' and DOT's	same formula. Scope and budget for the	Cooperative Agreement table of
	cooperation with the Advisory Board	due diligence phase was presented at the	contents and draft legislation was
	to perform due diligence. DES	May 2020 meeting. Members voted not to	discussed at the 9/11/19 meeting.
	presented a scope of work for	proceed or expend additional funds until	The AG's office provided preliminary
	completing some due diligence	public meetings were held with	observations on 1/15/2020. Three
	items on 4/27/2020. DES responded	stakeholders, elected officials, and	members are not in favor of
	on 6/9/2020 to Laconia's letter		governance changes, six members
		legislators.	have voted in favor of proceeding,
	dated 5/3/2020.		DAS has abstained.
Rate Assessment Formula	DEE' mealiminant analysis of the	The full Advisory Board has expressed	DES presented preliminary flow and
Rate Assessment Formula	DES' preliminary analysis of the		capacity findings from the 3 rd party
	relative contribution of flow,	interest in participating in this discussion	
	strength and capacity (shared) costs	with DES regarding a draft rate formula.	flow metering evaluations in March
	on 5/5/2016. The Advisory Board	Updated flow and capacity information	2017and WRBP Franklin WWTP
	resolved to have a draft formula by	prepared by DES was presented to the rate	Capacity Status in July 2017. W-P
	1/1/2019; workgroup met on	assessment workgroup on 8/16/18. A Flow	gathered GIS and connection data
	7/25/18 and 8/16/18. Draft Phase I	Metering Rate Allocation study task order	from the southern 4 communities as
	reports were provided to the	was finalized on 1/22/19 for the four	part of the study. Members chose
	Long all announces and AAV Done, should bloom	southern members where current	not to engage W-P in data collection
	workgroup and W-P revised the	Southern members where current	not to engage w-P in data collection

presented Phase I information at the December 2019 meeting. The 4 southern member communities provided the requested information for the proposed hybrid rate assessment model. On 10/27, Franklin's consultant reviewed their draft efforts with WRBP and Franklin staff. Belmont's I/I report under review and Franklin's pending; with discussion at the March and April 2021 meetings.

for billing. DES provided a draft hybrid model in March 2020; that was discussed at the April 2020 meeting. Franklin and Northfield agreed with the model; Tilton was absent and Belmont is reviewing. At the June 2020 meeting, Laconia presented an alternate model for assessing unmetered flows and allocating I/I to all members equally.

WRBP and member resources. At the May 2020 meeting, Belmont did not agree with the data or method used for their assessment or I/I contributions from the 4 southern communities. Additional information from the 4 southern members is being evaluated by the WRBP and DES with the assistance of Franklin's and Belmont's consultant.

Changes from previous report are shown in bold italics.

Dates to Remember:

Respectfully submitted on: 4/6/2021

1. The next Advisory Board meeting will be postponed to Thursday April	15, 2021 via conference call at 10am; public venue is the City of Laconia DPW
office.	C CAME
Prepared by: Showhilli	Reviewed and in concurrence:
Sharon McMillin - DES, WRBP Administrator	Rene Pelletier - DES, Assistant Director, Water Division

Item# \$ 6
Rate Assessment

Topic: Discussion on the draft rate allocation model based on Belmont and Franklin's consultant's comments

Background:

Items that are highlighted are updates to the report for the March 18, 2021 report.

The objective of the March 4, 2021 meeting with the 4 downstream communities was to determine how to reach consensus with the 4 communities on how to handle the "unknown flow" that was identified in the WRBP model and that was assigned to two of the 4 southern communities.

The basic concept was to first identify the possible sources of the unknown flow.

The unknown flow consists of:

- I and I in the WRBP interceptor from the Winnisquam pump station to the last meter before the treatment plant.
- Water consumption from the unmetered areas in the 4 communities
- I & I in the unmetered areas of the four communities.

The 4 communities, for water consumption in the unmetered areas of the communities, are considering using an average consumption factor based on historical water use that Underwood has found in the many rate studies they have performed.

Also they are planning on:

- Applying the I and I planning factors from Belmont's recent study to Northfield as their systems are similar in age and material.
- Applying the I and I planning factors from Belmont's recent study to Tilton as their systems
 are similar in age and material. An analysis of the sewer pipe materials in the area of Tilton
 that is not sewer metered has determined that the pipe is PVC. Thus this area of Tilton
 more closely resembles Belmont, not Franklin.
- Using an updated version of Underwood's suggested modifications to the WRBP model (To be provided before the April 15th meeting) to share the unknown I and I from the 4 communities among the 4 communities.

The current timeline for finalizing the rate allocation formula follows:

March meeting

- Obtain agreement on the sources of the unknown flow
- Obtain agreement on the concept of how to divide the unknown flow among the four communities

April Meeting

Review the planning factors proposed for I & I flow in Northfield and Tilton

- Review an update to Underwood's suggested changes to the WRBP model that was provided at the Feb 18th meeting
- Discuss the steps and timeline to obtain a decision from the member communities on the proposed changes to the WRBP model.

May Meeting

- Discuss any issues raised by the member community governing bodies. If the governing body of any member community has an issue with the model please provide comments as soon as you have them. Do not wait for this meeting to raise them.
- Vote to approve the WRBP model with proposed changes if all communities have obtained a decision from their governing bodies by then. (A majority must vote yes to approve the model.)

Bay District has a lagoon that pretreats the sewage from the Bay District. Bay District is considering requesting an adjustment due to the reduction in strength of the Bay District's outflow. Ray Korber is researching history of inflow versus outflow strength to determine if the difference is significant enough to request a reduction. WRBP initial comments on the request follow:

- Initial agreement with Bay District was for continual low flow from the lagoons. Bay District presently sends slugs of sewage depending on capacity at the time.
- The lagoon also send algae to the plant which causes issues with the plants treatment process.

Attachment 1 is a flow diagram of the system.

Attachment 2 is copy of the WRBP 7/7/2020 model.

Attachment 3 is a copy of the Proposed modifications to the WRBP model. (To be provided) Attachment 4 is for the discussion on how to divide I/I in the interceptor among the member communities

WRBP FLOW SCHEMATIC AND HYBRIO FLOW MODEL INFORMATION UNDERWOOD ENGINEERS SEPTEMBER 2020

COMMUNITY	FRANKLIN	NOISTHFIELD	TILION	BELLMONT	SANDBORTON	LACONIA	GILFORD	STATE SCHOOL/ NHOAS	Mer Detal	BAY DISTRICT
FORMULA FOR FLOW ESTIMATION	RIVER ST RS, + WATER DATA	WATER DATA (TN AGNADUCT + SODA BROOK)	[TILTON MAIN ST.+ TFI+TSI] † WATER DATA+ DEMOGRAPHE DATA	BLLMONT P.S500A BECOLL- EPTAM- QUALITY CONTEUT + WATER DATA+ DEMOGRAPHIC DATA	LOWEL BAY P.S. + TS1	BELMONT BEACH-	OxBOWT MCINTURET		MUI-BAY DISTRICT PS	BAY DISTRICT PS,
WWTF WOUTP INTURNIT	P.S.		TEI SENIOR HAVEN	751	PS.	WINNISANAN P.S. (NOT USED)	CXBons	STAIL SEARCH PS. OPLINIE TEMPORARY METER	MLI BAY	DISTECT S.
WITP INFLUENT-PARSMUL FLUME ACCURACY UNKNOWN STP1-AV SUNSOR I 5%				BELMONT RS.			McInnke			
SEWER BASIN WITH WASTEWATER FLOW DATA		SODA BROOK	TEMPORARY METER	BELMONT DOWNTOWN			Gu	*		
SENER BASIN WITH WATER DATA FOR ALL SEWER CONNECTIONS AND NO SCLUB DATA							`TEMPORARY METER			
- Cloud NATOR	RIVER ST. PS	SOVA BROOK AV SUNSON = 15%	6" PAESHALL ± 31. TF1 60' TEARZADAL FWHL ± 10%	PREMON PS MAGMETOR + 0.515%	MAGMETER ±0.513%	PELMONT BUYCH NO EVALUATED IN W.R. FLOW INETER ASSESSMENT WINNISOUAM RS	OxPOW 3-1NCH PARSHALL 18% Melhorie 10" PALMIR-Koncust 5%	STATE SCHOOL P.S. CAICULATED - WITWILL DRAWDOWN I ZOI OPECHEE 10" AV SUNSOR 101,	36" AV SENSORL± 8X	BAY DISTRICT PS. MAGMETUR 10.51/13/
LOCATION 3	! (1) 3:1.	LIA STONES - 13 (TS1 10% PALMER -BOWLIS FLUME 16%		e.	MAGMETER (3%-10%) &	X GL1 10" AV SENSOR ± 15%	IO HA ZONGE 191,		achment #1

WRBP Version 07/07/2020

Sewer Flow Volumes

Metered + Unmetered Flows in 4 Members	Baseline metered sewer flows (4 y includes I/I since sewer me		Water Use Flow (4 yr MG Total))	Subtotal: metered + water use	Demographic Un based on cur		% of total MG for areas using demographics %	MG of remaining WWTP flows based on demographic %	Total Sewer Flows = Metered + Water Use + Demographic (MG)	Total flow % = metered + unmetered w/o I/I factor	current O&M %	Change w/ DES model
	Belmont PS - Soda Brook - Eptam -					1						1	
Belmont	Quality Control	150.51		1/6/79/545							1		
			4 yrs water use - Sunlake	8.14						7			
	1		4 yrs water use - Cates	7.95									
	1		4 yrs water use - Westview	5.10									
	1		4 yrs w/ avg as yr 4 water use - Solar	7.11		l .							
			4 yr water use - Court St.	15.38			220722						
	1		1			residential							
	Totals:	150.51	1	43.68	194.19	commercial	44.45 364.51	879	310.67	504.85	6.43%	3.80%	2.63%
Franklin	River St PS	955.63		43.00	154.15		304.31	6/7	310.67	504.83	6.43%	3.00%	2.03%
Tankin	Niver Str5	555.05	Water Use 2016-2019 4 yr.	134.23			S.7 - 17 114	Y DESCRIPTION OF THE PARTY OF T				l	
	Totals:	955.63		134.23	1089.86					1089.86	13.89%	15.75%	-1.86%
			T-N Aqueduct Northfield only Water Use +	251125	1003.00					1003.00	25,037,	1	
Northfield			Soda Brook (4 yrs)	145.50	145.50					145.50	1.85%	2.60%	-0.75%
Tilton	Tilton Main + TF1 + TS1	392.84					4					1	
	4		water use 4 yrs Pennichuck	3.07		1	100					l	
	1		water use Lochmere - flat rate	34.16			-		ly.	1			
			water use T/N Aqueduct	95.13									
						flat rate	55.20						
	Totals:	392.84		132.36	525.20		55.20	139	47.05	572.25	7.29%	4.25%	3.04%
Other communities						THE STATE OF						l .	
Bay District	Bay District PS	142.42				Aut Care and a second				142.42	1.82%	1.15%	
Gilford	Oxbow + McIntire + GL1	1128.82						A 30 / 开设的自		1128.82	14.39%	0.117	2.69%
Laconia	Belmont Beach - Oxbow - ML1 -			A Land				A LONG TO SERVICE STATE OF THE		1			
5337 USDA	GL1 - Opechee	3329.93				December 120				3329.93	42.44%	49.87%	
Meredith	ML1 - Bay District PS	696.72		W. Wall				THE RESERVE OF THE PARTY OF THE		696.72	8.88%	9.25%	
Sanbornton	Lower Bay PS + TS1	117.93		ST 16 32		The state of the	STATE OF THE PARTY			117.93	1.50%	0.68%	
NHDAS	State School PS + Opechee	117.45			ME SE			THE RESIDENCE OF		117.45	1.50%	0.95%	0.55%

Totals: 7032.25 455.77 7488.02 419.71 357.71 7845.73 100.00%

% flows accounted for by these methods: 89.63% 5.81% 95.44% 4.56% 100.00%

For water use and demographic flows, could add a factor for I/I based on existing I/I studies or pipe age, size and material using available standard design/construction references (significant additional work for each pipe segment and/or collector sewer shed).

Temporary meters used in analysis include GL1, Opeechee and Soda Brook.

Used 135 gpd per unit per Belmont's request - value used for Tilton and Belmont to be consistent.

Added sewershed to Franklin water meter total.

Corrected entry for Belmont - Solar and Court st. water use.

Wes' version: 135 gpd/connection regardless of	# bedrooms or bath	ns or residnetia	l vs commercial*365d/yr*4 yrs
	gal 4 yrs	MG 4 yrs	MG 4 yrs
uses 135gpd for 1065 connections from Belmont	209,911,500	209.91	357.71
used 135 gpd for 64 connections from Tilton	12,614,400	12.61	222.53
	222,525,900	222.53	135.19

ATTACK MONt 2

MG 4 yrs

39.83

32.78

100.00%

assumes 300gpd/idm

Tilton I/I per 2015 CMOM idm - entire town

Franklin - from 4 unmetered areas from I/I stidy

WRBP REV - 7/2/2020

Proposed Hybrid Model for Determining Flow Contributions from unmetered locations in Belmont, Franklin, Tilton and Northfield

Water Use data from Fanklin DPW	Info used in Model:	
Confirmed all but 1 sewer users are on City water (2 not on water has a sewer flow meter installed) 100% water use = 80% sewer volume/year 1// distributed purely by IDM Annual Water Use from Tilton-Northfield Aqueduct 100% water use = 80% sewer volume/year Subtract businesses (currently 2) on Route 140 in Belmont billed by T-N Aqueduct 100% information provided by WR8P was used to estimate a placeholder (7) flow. Community specific I/I information could be used to refine I/I flow estimates. Belmont Water use and/or determine Units from property records for unmetered areas 10 all sewer used nation all Belmont sewer customers that by water companies; 100% water use a 80% sewer volume/year Property records of non-Belmont PS (from sewer user list already provided or updated version) 10 what unit entries on this spreadsheet one bosed on (looks like historic flow bosed units or similar) Get water use data for all Belmont sewer customers billed by water companies; 100% water use = 80% sewer volume/year Property records of non-Belmont PS customers (in lieu of water or sewer flow data) Use property records and 17a-16 or M&E 5th ed. 0-F in-Way definitions of units - 16pp per unit to determine property unit and then total number of units - (Env. Wq. 704-03). Town of Belmont water data used to estimate water use to be approximately 12S gpd/connection. Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Use property records and unit flows to estimate an allow and the service of the billing purposes. Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate a placeholder //1 flow. Community specific //1 information is needed **Total all units and assign-reference guidance GPD flows for these 2 communities without compl	Franklin	Water Use data from Franklin DPW
Northfield Annual Water Use From Tilton-Northfield Aqueduct 100% water use = 80% sewer volume/year Subtract businesses (currently 2) on Route 140 in Belmont billied by T-N Aqueduct 10M information provided by WRBP was used to estimate a placeholder (I/I flow. Community specific I/I information could be used to refine I/I flow estimates. Belmont Water use and/or determine Units from property records for unmetered areas 1D all sewer customers that DO NOT go into Belmont PS (from sewer user list already provided or updated version) 1D what unit entries on this spreadsheet are based on (looks like historic flow based units or similar) 6E water use data for all Belmont sewer customers billied by water companies, 100% water use = 80% sewer volume/year Property records of non-Belmont PS customers (in lie un'to water or sewer flow data) 1Use property records and 174. 6 or MRE-546-0-0-Ent-WR definitions of units. 6-DP per unit to determine property unit and then total number of units. (Env. Wq. 704.03). Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use to be approximately 125 gpd/connection. Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas 1D all sewer uses that DO NOT go through 15-1 and TF1-1 and Tilton Mish St. flow meters W-P determined that thees 3 meters are accurate from for pilling purposes 6et water use data for all Tilton sewer customers billied by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate a placeholder I/I flow. Community specific I/I information is needed Tetal-all units and assign reference guidance GPD flows for these 2 communities without examples water use info Normalize units to account for the 5-total-flows being addressed (% changes with rol		ID all sewer users that DO NOT go through River St. PS - completed 12/17/19
Northfield Annual Water Use from Tilton-Northfield Aqueduct 100% water use = 80% sever volume/year Subtract businesses (currently 2) on Route 140 in Belmont billed by T-N Aqueduct 100% information provided by WRBP was used to estimate a placeholder (// flow. Community specific (// information could be used to refine // flow estimates.) Belmont Water use and/or determine Units from property records for unmetered areas 1D all sever used to real Belmont sever customers that DO NOT go Into Belmont PS (from sever user list already provided or updated version) 1D who unit entries on this spreadsheet are based on flowls like historic flow based units or similar) Get water use data for all Belmont sever customers billed by water companies; 100% water use = 80% sever volume/year Property records of non-Belmont PS customers (in lieu of water or sever flow data) Use property-records and TI-16 or M&E 5th ed. Or-Env-Wq definitions of units - GPD per unit to determine property unit and then total number of units (Env-Wq 704.03). Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Waterwater flows estimated to be 125 gpd e80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas ID all sewer users that DO NOT go through TS-1 and TF-1 and Tilton Main St. flow meters We Petermined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and TR-16 or M&E 5th ed. Or-Env-Wq definitions of units - GPD per unit to determine property unit and then total number of units (Env-Wq 704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed **Normalize units to secount for the %-total flows-being addressed (%-changes wi		
Northfield Annual Water Use from Tilton-Northfield Aqueduct 100% water use = 80% sewer volume/year Subtract businesses (currently 2) on Noute 140 in Belmont billed by T-N Aqueduct 100M information provided by WRBP was used to estimate a placeholder [/] flow. Community specific [/] Information could be used to refine [/] flow estimates. Belmont Water use and/or determine Units from property records for unmetered areas 1D all sewer customers that D0 NOT go into Belmont P5 (from sewer user list already provided or updated version) 1D what unit entries on this spreadsher are beed and (looks like historic flow bead units or similar) Get water use data for all Belmont sewer customers billed by water companies; 100% water use = 80% sewer volume/year Property records of non-Belmont P5 customers (in lieu of water or sewer flow data) 1Use property records of non-Belmont P5 customers (in lieu of water or sewer flow data) 1Use property records and 11-18 for M&Esh ed. Or Far. Wyd effinitions of funits. End P5 per unit to determine property unit and then total number of units. [Env. Wq. 704-03]. 1Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas 1D all sewer users that D0 NOT go through T5-1 and T1-1 and Tilton Main St. flow meters W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate a language from unmetered areas without water meters at 100 gpd/connection. Use-property records and T8-16 or M&Eshi ed. Or Env-Wq definitions of units. Env-Wq rounds and then total number of units (Env-Wq 704.03), 10M information provided by WR8P w		100% water use = 80% sewer volume/year
100% water use = 80% sewer volume/year Subtract businesses (currently 2) on Route 140 in Belmont billed by T-N Aqueduct IDM information provided by WR8P was used to estimate a placeholder (// flow. Community specific t// information could be used to refine t// flow estimates. Belmont Water use and/or determine Units from property records for unmetered areas ID all sewer customers that DD NOT go into Belmont PS (from sewer user list already provided or updated version) ID what unit entries on this spreadsheet are based on flooks like historic flow based units or similar) Get water use data for all Belmont sewer customers billed by water companies; 100% water use = 80% sewer volume/year Property records of non-Belmont PS customers (in licu of water or sewer flow disk historic flow based units or similar) Get water use data for all Belmont sewer customers billed by water companies; 100% water use = 80% sewer volume/year Property records and Th-16 or M&E Sith ed. Or-Env-Wq acfinitions of units 2 GPD per unit to determine-property unit and then total number of units (Env-Wq 704.03). Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use to be approximately 125 gpd/connection. Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU Water use and/or determine Units from property records for unmetered areas ID all sewer uses that DO NOT go through TS-1 and TF-1 and Tilton Main St. flow meters W.P determined that these 3 meters ore occurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate a placeholder I/f flow. Community specific I/f information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to occount for the % total flows being addressed (1% changes with roiling average) Assessment		I/I distributed purely by IDM
Subtract Dusinesses (currently 2) on Route 140 in Belmont billed by T-N Aqueduct IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information could be used to refine I/I flow estimates. Belmont Water use and/or determine Units from property records for unmetered areas ID all sewer customers that DO NOT go into Belmont PS (from sewer user list already provided or updated version) ID what unit entries on this spreadsheet are based on (looks like historic flow based units or similar) Get water use data for all Belmont sewer customers billed by water companies; 100% water use = 80% sewer volume/year Property records of non-Belmont PS customers [in lieu of water or sewer flow data) Use property records and ITI. 6 or M&E-Sth ed. Or Env. Wg definitions of units. E-GPD per unit to determine property unit and then total number of units. (Env. Wg 704.03). Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas ID all sewer users that DO NOT go through TS-1 and TF-1 and Tilton Main St. flow meters W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aquedut & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and ITR 1-16 or M&E-Sth ed. Or Env. Wg definitions of units. Get per unit to determine property unit and then total number of units. (Env. Wq.704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed WWTP Inffluent flows (IMG) WWTP Inffluent flows (IMG) 7	Northfield	Annual Water Use from Tilton-Northfield Aqueduct
Belmont Water use and/or determine Units from property records for unmetered areas ID all sewer customers that DO NOT go into Belmont PS (from sewer user list a lereday provided or updated version) ID what unit entries on this spreadsheet are absed on (looks) like historic flow based units or similar) Get water use data for all Belmont Sewer customers billed by water companies; 100% water use = 80% sewer volume/year Property records of non-Belmont PS customers (in lieu of water or sewer flow data) Use property records and TR. 16 or M&E-Sthe do. Pre-W yed eficilitions of units. 4 GPD per unit to determine property unit and then total number of units (Env-Wq 704.03). Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use to be approximately 125 gpd/connection. Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas ID all sewer users that DO NOT go through TS-1 and TF-1 and Tilton Main St. flow meters WP-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by TM Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and TM-16 or M&E-5 the do. Pre-W yed efinitions of units. 4 GPD per unit to determine property unit and then total number of units (Env-Wq 704.03). IDM information provided by WRBP was used to estimate a placeholder I/1 flow. Community specific I/1 information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community.		100% water use = 80% sewer volume/year
Belmont Water use and/or determine Units from property records for unmetered areas ID all sewer customers that DD NOT go into Belmont PS (from sewer user list already provided or updated version) ID what unit entries on this spreadsheet are based on (looks like historic flow based units or similar) Get water use data for all Belmont sewer customers billed by water companies; 100% water use = 80% sewer volume/year Property records of non-Belmont PS customers (in lieu of water or sewer flow data) Use property records and IR-16 or M&E 5th ed. Or Env. Wq definitions of units.* GPD per unit to determine property unit and then total number of units (Env. Wq.704.03). Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate save use to use the property units.* GPD per unit to determine property unit and then total number of units (Env. Wq.704.03). Tilton Water use and/or determine Units from property records for unmetered areas without water meters at 125 gpd/connection. Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas without water meters at 125 gpd/connection. Wastewater flows estimates are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and unit flows to estimate sanitary wastewater flows for unmetered areas without water meters at 100 gpd/connection. Use property records and TR-16 or M&E 5th ed. Or Env. Wq definitions of units.* GPD per unit to determine property unit and then total number of units. (Env. Wq.704.03). IDM information provided by WRBP was used to estimate a placeholder (I/1 flow. Community specific (I/1 information is needed) Assessment % based		Subtract businesses (currently 2) on Route 140 in Belmont billed by T-N Aqueduct
ID all sewer customers that DO NOT go into Belmont PS (from sewer user list already provided or updated version) ID what unit entries on this spreadsheet are based on (looks like historic flow based units or similar) Get water use data for all Belmont sewer customers billed by water companies; 100% water use = 80% sewer volume/year Property records of non-Belmont PS customers (in lieu of water or sewer flow data) Use property records and TR 16 or M&E-5th ed. Or Env. Wq definitions of units - GPD per unit to determine property unit and then total number of units - (Env. Wq. 704.03). Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas ID all sewer users that DO NOT go through TS-1 and TI-1 and Tilton Main St. flow meters W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate a sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and unit flows to estimate a sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and unit flows to estimate a sanitary wastewater flow from unmetered areas without water meters at 100 gpd/connection. Use property records and TR 16 or M&E-5th ed. Or Env. Wq definitions of units - GPD per unit to determine property unit and then total number of units - (Env. Wq. 704.03). IDM Information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities wit		IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information could be used to refine I/I flow estimates.
D what unit entries on this spreadsheet are based on (looks like historic flow based units or similar)	Belmont	Water use and/or determine Units from property records for unmetered areas
Get water use data for all Belmont sewer customers (in lieu of water or or sewer flow data) Use property records on On-Belmont PS customers (in lieu of water or or sewer flow data) Use property records and TR-16 or M&E-5th ed. Or Env Wq definitions of units *GPP per unit to determine property unit and then total number of units (Env Wq.704.03). Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas ID all sewer users that DD NOT go through TS-1 and TF-1 and Tilton Main St. flow meters WP determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and IT-16 or M&E-5th ed. Or Env Wq definitions of units *GPP per unit to determine property unit and then total number of units (Env Wq.704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign-reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		ID all sewer customers that DO NOT go into Belmont PS (from sewer user list already provided or updated version)
Property records of non-Belmont PS customers (in lieu of water or sewer flow data) Use property records and TR 16 or M&E 5th ed. Or Env Wq definitions of units " GPD per unit to determine property unit and then total number of units (Env Wq 704.03). Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Wastewater flows estimated to be 125 gpd "80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas ID all sewer users that DO NOT go through TS-1 and TF-1 and Tilton Main St. flow meters W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and TR 16 or M&E 5th ed. Or Env Wq definitions of units " GPD per unit to determine property unit and then total number of units (Env-Wq 704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize-units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % 1 normalized unit % in each community WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		ID what unit entries on this spreadsheet are based on (looks like historic flow based units or similar)
Use property records and TR 16 or M&E 5th ed. Or Env Wq definitions of units.* GPD per unit to determine property unit and then total number of units (Env Wq 704.03). Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas ID all sewer users that DD NOT go through TS-1 and Tilton Main St. flow meters W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and ITR-16 or M&E 5th ed. Or Env Wq definitions of units.* GPD per unit to determine property unit and then total number of units (Env Wq 704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD MGD WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		Get water use data for all Belmont sewer customers billed by water companies; 100% water use = 80% sewer volume/year
Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection. Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Water use and/or determine Units from property records for unmetered areas ID all sewer users that DO NOT go through TS-1 and TF-1 and Tilton Main St. flow meters W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and TR-16 or M&E-5th ed. Or Env Wq definitions of units * GPP per unit to determine property unit and then total number of units (Env Wq 704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		Property records of non-Belmont PS customers (in lieu of water or sewer flow data)
Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection. Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU Tilton Water use and/or determine Units from property records for unmetered areas ID all sewer users that DO NOT go through TS-1 and TF-1 and Tilton Main St. flow meters W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and TR-16 or M&E-5th ed. Or Env Wq definitions of units * GPD per unit to determine property unit and then total number of units (Env-Wq-704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		Use property records and TR-16 or M&E 5th ed. Or Env-Wq definitions of units * GPD per unit to determine property unit and then total number of units (Env-Wq 704.03).
Water use and/or determine Units from property records for unmetered areas ID all sewer users that DO NOT go through TS-1 and TF-1 and Tilton Main St. flow meters W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and TR-16 or M&E-5th ed. Or Env Wq definitions of units * GPD per unit to determine property unit and then total number of units (Env-Wq 704.03). IDM Information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment & based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		Town of Belmont water data used to estimate water use to be approximately 125 gpd/connection.
Tilton Water use and/or determine Units from property records for unmetered areas ID all sewer users that DO NOT go through TS-1 and TI-1 and Tilton Main St. flow meters W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and TR-16 or M&E 5th ed. Or Env Wq definitions of units * GPD per unit to determine property unit and then total number of units {Env Wq 704.03}. IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		Use property records and unit flows to estimate water use from unmetered areas without water meters at 125 gpd/connection.
ID all sewer users that DO NOT go through TS-1 and TF-1 and Tilton Main St. flow meters W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and TR-16 or M&E-5th ed. Or Env Wq definitions of units * GPD per unit to determine property unit and then total number of units (Env Wq 704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		Wastewater flows estimated to be 125 gpd *80% = 100 GPD/EDU
W-P determined that these 3 meters are accurate for billing purposes Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and TR-16 or M&E 5th ed. Or Env Wq definitions of units * GPD per unit to determine property unit and then total number of units - (Env Wq 704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37	Tilton	Water use and/or determine Units from property records for unmetered areas
Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and TR-16 or M&E 5th ed. Or Env Wq definitions of units * GPD per unit to determine property unit and then total number of units (Env-Wq-704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		ID all sewer users that DO NOT go through TS-1 and TF-1 and Tilton Main St. flow meters
Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection. Use property records and TR-16 or M&E 5th ed. Or Env-Wq definitions of units * GPD per unit to determine property unit and then total number of units (Env-Wq 704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		W-P determined that these 3 meters are accurate for billing purposes
Use property records and TR-16 or M&E 5th ed. Or Env Wq definitions of units * GPD per unit to determine property unit and then total number of units (Env-Wq 704.03). IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		Get water use data for all Tilton sewer customers billed by T-N Aqueduct & Lochmere; 100% waste use = 80% sewer volume/year
IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed {% changes with rolling average} Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		Use property records and unit flows to estimate sanitary wastewater flows from unmetered areas without water meters at 100 gpd/connection.
Total all units and assign reference guidance GPD flows for these 2 communities without complete water use info Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		Use property records and TR-16 or M&E 5th ed. Or Env-Wq definitions of units * GPD per unit to determine property unit and then total number of units (Env-Wq 704.03).
Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		IDM information provided by WRBP was used to estimate a placeholder I/I flow. Community specific I/I information is needed
Normalize units to account for the % total flows being addressed (% changes with rolling average) Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37	60 50 M N 194 19 19 19	
Assessment % based on metered baseline % + normalized unit % in each community MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37	Total all units and assign	
MG MGD % WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		
WWTP Influent flows (MG) (2015-2018) 7845.73 5.37		Assessment % based on metered baseline % + normalized unit % in each community
(2015-2018) 7845.73 5.37		
	sewer metered 4 yr totals	7032.25 4.82 89.63% Metered flows include I/I since total flows though each metering location or pump stations was metered over at least 4 years.
unmetered 4 yr total 813.48 0.56 10.37% These unmetered flows were evaluated using the methods above. 100.00%	unmetered 4 yr total	

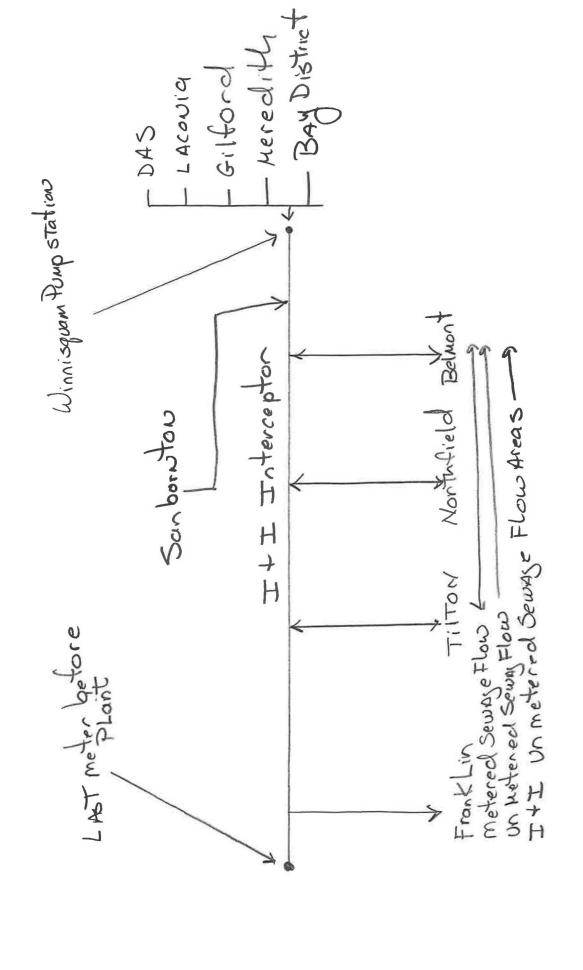
ATTACHMENT 2

ToTal Flow = ToTAl Metered Flow + It intercepter + Flow From unmetered Areas System Flow

MOST Determine =) I + H in interceptor from Windsquam 20mp Station.
To LAST Meter Jostbre Plont

=> Flow from un metered Areas

Flow from Unnetered Areas => Water consumption + HID From Unnetered Areas



Division of H+H in Haterester

factor for flow Assigned To 5 upstram communities Factor for unknown Flow Assigned to Belment X = (1) = + (N) + C(1) + (N) + E(1) = X 0 = Factor for UNKNOWN Flow Assigned To North Pielol = FActor for Unctown Flow Assigned TO Franklin B = FActor For Unknown Flow Assigned To Sanbornton Factor for unknown Flow Masigned To Tilton V = Unknow flow due to H+H in Hintercepton

Item#7

Escrow Account

Rath, Young & Pignatelli Road Map Study

Budget Tracking sheets

Funds Available \$ 51,900.00

Invoice #	Date of Invoice	nvoice Invoice Amount		Funds remaining		
	Road	Map Deve	lopme	nt		
Invoice # 1	5/22/2018		\$	2,858.00	\$	49,042.00
Invoice # 2	6/20/2018		\$	6,890.18	\$	42 ,151.82
Invoice #3	6/30//2018		\$	6,958.00	\$	35,193.82
Invoice #4	8/20/2018		\$	2,656.00	\$	32,537.82
	R	oad Map Pi	nase 1			
Carry Over fro				\$	32,537.82	
Escrow f	or this phase				\$	65,000.00
Total Available					\$	97,537.82
Invoice #1-1	20-Sep-18	79111	\$	800.00	\$	96,737.82
Invoice# 1-2	18-Oct-18	79407	\$	896.00	\$	95,841.82
Invoice #1-3	15-Feb-19	80548	\$	924.00	\$	94,917.82
Invoice #1-4	15-Mar-19	80800	\$	759.00	\$	94,158.82
Invoice #1-5	6/10/2019	81583	\$	396.00	\$	93,762.82
Invoice #1-6	7/18/2019	82002	\$	330.00	\$	93,432.82
Invoice #1-7	8/15/2019	82241	\$	66.00	\$	93,366.82
Invoice #1-8	9/17/2019	82524	\$	1,584.00	\$	91,782.82
Invoice 1-9	10/28/2019	82912	\$	396.00	\$	91,386.82

Invoice #	Date of Invoice	Date of Invoice			Funds remaining		
Invoice 1-10	5/11/2020	84667	\$	1,224.00	\$	90,162.82	
Invoice 1-11	6/19/2020	85172	\$	782.00	\$	89,380.82	
Invoice 1-12	9/23/2020	85982	\$	2,550.00	\$	86,830.82	
Invoice 1-13	10/23/2020	86266	\$	1,394.00	\$	85,436.82	
Invoice 1-14	11/13/2020	86449	\$	525.00	\$	84,911.82	
Invoice 1-15	12/15/2020	86722	\$	1,480.00	\$	83,431.82	