WINNIPESAUKEE RIVER BASIN PROGRAM (WRBP) CAPITAL IMPROVEMENTS PROGRAM (CIP) 2018 UPDATE



The Winnipesaukee River Basin Program (WRBP) is the state-owned sewer system, established in RSA 485-A:45-54, which serves portions of the New Hampshire Lakes Region member communities of Center Harbor, Moultonborough, Gilford, Meredith, Laconia, Belmont, Sanbornton, Northfield, Tilton, Franklin. The WRBP Advisory Board was established in RSA 485:A-52 for the purposes of reviewing matters of mutual concern to the member communities.

WINNIPESAUKEE RIVER BASIN PROGRAM (WRBP) CAPITAL IMPROVEMENTS PROGRAM (CIP)

CAPITAL IMPROVEMENTS PLAN 2018 Edition

November 13, 2018

Prepared by the WRBP Advisory Board on behalf of the Member Communities served by the WRBP Wastewater Treatment and Collection System

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To: Municipal Officials, Winnipesaukee River Basin Program (WRBP) Communities

From: Wesley Anderson, Acting Chairman, WRBP Advisory Board (Director of Public Works, City of Laconia

Re: <u>Capital Improvements Program (CIP) 2018 Edition</u> for the WRBP Regional Sewage Treatment Plant and Wastewater Collection System

Date: November 13, 2018

The Winnipesaukee River Basin Program (WRBP) Advisory Board (AB) is pleased to provide the <u>2018</u> <u>edition</u> of the WRBP Capital Improvements Program (CIP). Attached to this memo is a brief summary including project updates and description of other changes made to the CIP. Please refer to the full CIP document for details.

The Asset Management Program, Phased Collection System Evaluations, and Wastewater and Solids Handling Process Optimization initiatives remain on the CIP. These programmatic priorities will, in part, address some of the MOM Study recommendations and the DES Implementation Plan which was created as a result. On-going wastewater and solids handing process optimization efforts may necessitate operational changes or equipment retrofits. **Two new sub-projects of the wastewater optimization initiative are included in the 2018 CIP. They are expected to incur long term debt if funding is through the State Revolving Fund loan.** This funding methodology provides the WRBP an opportunity to receive partial principal forgiveness thus lowering the Program's cost for the projects and its associated debt.

The objective of the CIP is to produce a comprehensive planning document for the benefit of both the New Hampshire Department of Environmental Services (NHDES) – WRBP Staff (that operate the treatment plant and collection system) and the individual member communities.

The plan ensures compliance with all Federal and State water quality requirements while maintaining equitable sewer rates in each of the communities. The CIP document is reviewed and updated annually by the CIP Subcommittee and the WRBP Staff. This 2018 edition updates the original CIP document prepared for the WRBP in 2012.

The AB is very grateful for the commitment of time and for the expertise of individual members of the CIP Subcommittee and WRBP staff in preparing this document for the benefit of all the WRBP member communities.

Encl.

2018 CIP Summary Update:

Projects Added/Deleted/Deferred

- 1. Two new projects were added to the 10-year CIP as sub-projects of the WWTP Process Optimization effort: Aeration Blower and Aeration system automated valves. See below for a brief description or the CIP worksheets for more details of these two proposed projects.
- 2. All other projects in the CIP were modified as necessary and re-prioritized in order to accomplish the proposed work under realistic timeframes (see the complete CIP document for details).

CIP Project Updates (in order of appearance on the 10-year CIP Summary)

- 1. The Asset Management Program initiative is not a capital project, but included in the CIP since it will augment the CIP in future years by assessing the condition, criticality, and the replacement or rehabilitation costs of the WRBP infrastructure. The task order with Wright-Pierce provided initial support for this initiative and assistance with software and hardware selection and will continue through program implementation, including transition from the exiting, obsolete MP2 work order system. The Wright-Pierce task order assistance is forecast to be completed in FY19. Software and vendor support was purchased in FY18 for \$105K. The software vendor will provide support for the initial development and implementation effort that is expected to take 8-12 months in FY18 and FY19. The CWSRF loan program is expected to provide up to \$90K in principal forgiveness when three specific milestones are reached during the Asset Management Program implementation. This loan will not incur any long term debt and the \$90K is deducted from the estimated project costs in FY19.
- 2. Replacement Emergency Back-up Generator at Franklin WWTP is forecast for FY19 at an estimated \$190K including a new, self-contained diesel generator with integral fuel tank, concrete pad, and interconnection by WRBP staff to the recently upgraded switchgear. An SRF loan application was submitted and \$9,500 is available in principal forgiveness if loan funding is used. The switchgear replacement project completed in FY16 included installation of the conduits and handhole necessary to facilitate the new generator's installation; reducing the overall cost of this project. The existing turbine generators' combined control system has obsolete components that cannot be repaired and so would need to be replaced with a new, custom control system upon its failure. The two turbine generators installed on the second floor of the main building as original equipment at the WWTP over 39 years ago can be replaced with a single, right-sized diesel generator located outside building and above the 100-year flood plain. Estimates to replace just the control system approach the cost of a new diesel generator and would not address the age or increasingly difficult sourcing of parts or lack of qualified technicians available to troubleshoot and repair the turbine generators.
- 3. **Solids Handling Alternatives Analyses** includes the entire solids handling process instead of identifying discrete components throughout the WWTP. This initiative is part of the Implementation Plan and Schedule to be conducted by WRBP staff using as-needed engineering services contracts and NHDES Wastewater Engineering assistance starting in FY19. A comprehensive scope for the master planning effort has been developed with a budget of \$74K.
- 4. Wastewater Process Optimization remains on the CIP. In 2015-2016, an analysis by WRBP and DES Wastewater Engineer staff was conducted to help identify root causes and potential solutions for sporadic septicity and toxicity experienced at the WWTP. One alternative sub-project that is still under consideration is aeration tank diffuser modifications. Data analysis is on-going following the installation of additional sensors in the aeration tanks in FY17-18. SRF loan applications were submitted in FY19 for both a new, smaller aeration blower and automated valves in the aeration system. An estimated \$216,850 in principal forgiveness is available for these two sub-projects given the completion of the planned, prerequisite energy audit in early 2019. After deducting the principal forgiveness, these two projects are estimated to cost \$520K, including contingency. A 10% reduction in electricity (\$26K/year) is estimated to further offset project costs. Estimates for implementing these upgrades are included in the CIP for FY20-21 as an alternatives analysis and retrofit. No final decision has been made to proceed with modifications to the aeration diffusers, which would be considered in

conjunction with the other proposed retrofits, or to pursue other alternatives.

- 5. A multi-year, phased approach to the future **River Street WWTP Access Roadway Phased Rehabilitation** is forecast in the 10-year CIP with potential chip sealing, repaving and drainage rehabilitation and restoration efforts every three years starting in FY19. Alternatives may include addressing deteriorates areas using shim and overlay, removal of cobbles, reclamation, and addressing any future drainage issues as they arise. In this case, the placeholder amount was raised to \$150K in recognition that significant work on different sections of the roadway may be required and this amount reflects a more realistic forecast of probable costs. Previous work includes crack sealing of River Street Access Road completed in FY13 for \$26,250 in order to help prevent further deterioration and the repair and resurfacing of two deteriorated areas performed in FY16 for \$16,953.50. In FY17, overhanging trees were removed that were causing excessive ice build-up and increasing the degradation of the roadway in that area. Additional tree removal along the roadway under a similar logging contract was completed at no cost in FY18. Roadwork on three segments totally approximately 2,566 linear feet was bid and awarded not to exceed \$110,128K with a completion before June 30, 2019.
- 6. **Maintenance of Process Tanks** is part of scheduled O&M at the Franklin WWTP but, at the request of the members, will continue to be forecast in the 10-year CIP. Process tank maintenance schedule and frequency was modified to incorporate recommendations from the MOM Study and WRBP staff and will continue to be evaluated based on inspections of the tanks and related appurtenances.
- 7. The **Phased Collection System Evaluations** are occurring using a multi-year, phased approach. The WRBP has inspected approximately 2/3 of WRBP manholes and other structures; such as siphons which are inspected and cleaned twice a year. Several segments of WRBP gravity sewer lines (approximately 15% of the total gravity sewer system) have been CCTVed by contractors as part of walking rail-trail installations local to the WRBP infrastructure in Belmont, Laconia, and Northfield. Some force mains have also been CCTVed concurrent with other infrastructure repair work. The Asset Management Program implementation is capturing asset condition and criticality for all assets and collection system inspections of subsurface infrastructure will identify other areas to be prioritized for further evaluations or possible corrective measures either by WRBP staff or contractors. To date, inspections have not shown any areas needing capital project repairs or further evaluations. The \$50K placeholder amount is used in the CIP until such time as a more comprehensive scope and budget are developed for any identified capital project needs.
- 8. Pump Stations PLC and Telemetry Alternative Analysis and Retrofits is forecast for FY20. Existing PLCs installed during the SCADA implementation in 2000 in the 14 WRBP pump stations are nearing the end of their useful life and will not be supported by the manufacturer or software vendors. Updating all the pump station PLCs needs to occur at the same time and concurrently with radio telemetry interface updates and other software programs communicating and controlling the stations. Engineering support will be necessary to determine the most appropriate PLCs, software, communications protocols, and sequencing of retrofits to maintain complaint operations. Current estimates range from \$15-\$16K per pump station to replace the PLCs with radio telemetry upgrades that would be necessary at the same time. \$60K is included for engineering evaluations, design, and construction oversight. The estimated amount of \$284K total is used in the CIP until such time as a more comprehensive scope and budget are developed.
- 9. The **Winnisquam Pump Station Emergency Power Alternative Analysis** is forecast for FY21. The \$50K placeholder amount is used in the CIP until such time as a more comprehensive scope and budget are developed. This pump station will be included in the energy audit to be performed in early 2019.
- 10. The **Winnisquam Pump Station Compound Rehabilitation** remains forecast for FY21. The \$50K placeholder amount is used in the CIP until such time as a more comprehensive scope and budget are developed.

Other 10-year CIP Planning Document Changes (changes in funding source, etc.)

1. No other changes.

EXECUTIVE SUMMARY – CAPITAL IMPROVEMENTS PROGRAM - 2018 EDITION

Winnipesaukee River Basin Program Wastewater Collection and Treatment System

The Winnipesaukee River Basin Program (WRBP) is a regional wastewater system serving portions of the New Hampshire Lakes Region communities of Center Harbor, Moultonborough, Gilford, Meredith, Laconia, Belmont, Sanbornton, Northfield, Tilton, and Franklin, as well as the state-owned Lakes Region Facility. Wastewater is collected in the respective communities and discharged to the regional wastewater treatment facility located in Franklin, New Hampshire. The respective communities, sewer commissions, private or public entities own, operate and maintain their own wastewater assets (pump stations, force mains, gravity sewers). The wastewater treatment facility, interceptors and related pumping facilities are owned by the State of New Hampshire through the New Hampshire Department of Environmental Services (NHDES) and are operated and maintained by NHDES' WRBP staff. As per federal statute, the regional system must operate in a manner that meets all requirements as specified under the facility's National Pollutant Discharge Elimination System (NDPES) Permit. All member communities, except Sanbornton, are listed under the NDPES Permit as co-permittees.

The WRBP was established under the provisions of RSA 149-G (now RSA 485-A:45-54) adopted through the special legislative session of 1972. RSA 485-A:45-54 established governance for the WRBP. Key elements of the legislation include:

- Member communities are represented by an Advisory Board. The Advisory Board meets at least quarterly with NHDES' WRBP staff to discuss operations, administration and capital expenditures and to conduct other business as required to manage, maintain and operate the regional system.
- Member communities pay all the expenses of operating, maintaining, and upgrading the WRBP infrastructure; there is no state general funding for the WRBP. Costs are allocated between members based upon their proportional share of WRBP facilities as per the legislation.

WRBP Capital Improvements Program

The purpose of the WRBP Capital Improvements Program (CIP) is to clearly articulate the state-owned wastewater treatment facility and collection system infrastructure repair, replacement and rehabilitation needs, ascertain current costs, and project future capital costs. The goals of the CIP are to:

- Meet regulatory requirements as specified in the National Pollutant Discharge Elimination System (NPDES) Permit.
- Protect the health and safety of WRBP staff and the general public.
- Protect the environment and provide sewerage services commensurate with the needs of WRBP members.
- Maintain assets at a level adequate to protect the WRBP's capital investment, maintain the desired level service, provide cost-effective operation and ensure permit compliance.
- Prioritize those projects with the highest potential for reducing operation and maintenance costs, for improving the operational efficiency and effectiveness of facilities and operations staff, for obtaining the greatest long-term return on investment, and for achieving the lowest life cycle cost.
- Project total project costs (engineering, construction, legal, administration, etc.) and cumulative annual costs for the 10-year planning period so that member communities can better assess potential sewer rate impacts.
- Seek outside (state/federal) funding that could be available to offset capital expenditures by the WRBP communities.
- Educate community officials, ratepayers and the community at large on each project contained in the CIP. Clearly articulate not only what must be done, but why.
- Provide a consistent and objective mechanism so that clear determinations can be made on the importance of one project relative to another to ensure that the most important projects get completed.

• Provide a vehicle, endorsed by the member communities, for gaining consensus from ratepayers on how best to meet the needs of the regional system.

The WRBP Capital Improvements Program (CIP) is developed through the Advisory Board in collaboration with NHDES' WRBP staff. Key elements of the CIP process include:

- Establishment of the CIP Subcommittee. The Subcommittee is tasked with evaluating the details of proposed capital improvements and making recommendations to the larger Advisory Board for their review and concurrence, prior to their making recommendations to the member communities. The Subcommittee is comprised of 3-5 members of the Advisory Board and the WRBP Administrator and Superintendent.
- Development of a decision matrix, prioritization criteria and planning tools to assist in project ranking.
- Development of procedures and documents to effectively communicate with the Advisory Board, member communities' governing officials, and the public.

Use of this CIP Document

This CIP Document includes a compilation of discussions, analysis and evaluations by the Subcommittee and Advisory Board and is presented as the Advisory Board's recommendations for prioritization and proposed scheduling over the 10 year planning period for identified capital improvements exceeding a threshold dollar amount of \$50,000 for the wastewater treatment facility and collection system owned and operated by the NHDES WRBP. It does not include an assessment of capital needs for infrastructure owned and operated by WRBP member communities or other entities. It is the responsibility of the communities and these other entities to develop capital improvements programs for their own assets. This CIP document includes the following key elements:

- <u>WRBP Capital Improvements Program Summary:</u> This is a summary of anticipated capital improvement projects forecast on an annual basis over the 10 year planning period for projects in excess of \$50K. The Summary differentiates between projects proposed for the wastewater treatment facility located in Franklin and those proposed for the collection system. Costs are estimated total project costs (construction, engineering, etc.) at present worth. Cost estimates do not include costs associated with debt retirement or inflation. Cost estimates are preliminary and are intended for planning purposes only. Costs are entered for the State fiscal year in which a funding commitment is anticipated and does not necessarily reflect when actual costs will impact rate payers, as this is determined by funding mechanism or completion date of the project. The construction costs are based on capital costs which include all major items of construction and a 10% construction contingency. Refer to the notes in the Summary for additional information.
- <u>WRBP Capital Improvements Worksheet:</u> This is a detailed analysis of each CIP project. The Worksheet includes: project identification; project description and justification; project scoring; and project cost breakdown and potential funding sources.
- <u>WRBP Criteria Prioritization</u>: This document defines the criteria used to score each project on the WRBP Capital Improvements Worksheet. The project score is determined from criteria that are consistent with the goals established for the CIP, the relative weighting of importance of the criteria, and the project's priority within the context of each criterion. The project score is the sum total of the multiple of the weighting and priority for each criterion. The project score is measured against the scores of other projects to establish the prioritization ranking of all projects in the CIP. Projects are listed in order of priority in the Summary for the wastewater treatment facility and collection system, respectively. Those projects identified as the most immediate priority are in bold.

The proposed project implementation schedule included in the Summary and Worksheet uses the prioritization and ranking of each project, together with a need to phase in projected costs over the planning and implementation period, with the goal of forecasting and maintaining sustainable sewer rates. Note that the project prioritization, schedule, and selection of projects to be implemented are subject to change and may need to be revised to address unforeseen circumstances. The CIP will be revisited each year by the Subcommittee and an updated CIP Document submitted to the Advisory Board to be reviewed and approved by October of each year.

WRBP CAPITAL IMPROVEMENTS PROGRAM 10-YEAR SUMMARY PER STATE FISCAL YEAR ¹

PPO JECT	FUNDING	TOTAL 10-VEAP COST	EV10	EV20	EV21	EV22	EV22	EV24	EV25	EV26	EV27	EV28	
<u>Programmatic</u>	TONDING	TOTAL INFILAR COST	1113	1120	1121	1122	1123	1124	1125	1120	1121	1120	<u>FROJECT DESCRIPTION</u>
Programmatic		¢32.000											Development and implementation of an assot management program par the
Asset Management Program	O&M/CWSRF	\$33,000											Development and implementation of an asset management program per the
													assessments of the WWTP, shop, and pump stations, replacement of
													existing MP2 work order and maintenance archive system with information
													from the collection system evaluations and GIS mapping incorporated as it
		•											and support, plus completion of consulting assistance in FY19.
	O&M CWSRE	\$ 123,000 \$ (90,000)	\$ 123,000.00 \$ (90,000,00)										
Wastewater Treatment Facility	OWOR	\$ (30,000)	\$ (50,000.00)										
Replacement Emergency Back-up Generator at Franklin WWTP	CWSRF	\$180,500											New diesel generator to replace the 30+ year old turbine generators that
······································		+,											provides emergency back-up power to the WWTP. SRF principal forgiveness
		¢ 400.000	¢ 400.000										is available.
		\$ 190,000	\$ 190,000										
Solids Handling Alternatives Analyses		\$74,000	φ (0,000)										\$74K task order scope and budget for solids handling master plan.
Digesters, sludge thickening, mixing, dewatering, septage receiving, heat	O&M	\$ 74,000	\$ 74,000										Solids processing evaluations at the Franklin WWTP using as-needed
exchangers, gas piping, nandling & utilization, sludge/biosolids disposal, etc													engineering and DES-wastewater engineering support services .
Wastewater Process Optimization	O&M/CWSRF	\$584,650											Wastewater process improvements and evaluations are on-going at the Franklin WW/TP
	014055												
Aeration System Automated Valves	CWSRF	\$ 320,150 \$ 337,000		\$ 137.000 \$	200.000								Automated valves for the aeration system to effectively deliver dissolved
		\$ (16,850)		<u> </u>	(16,850)								incentives are available.
Aeration Blower - smaller unit	CWSRF	\$ 200,000											Smaller aeration blower to effectively deliver dissolved oxygen when reduced
		\$ 400,000 \$ (200,000)		\$ 200,000 \$	200,000								demand; reducing power costs. SRF principal forgiveness and utility
Aeration Tank Diffuser Modifications - alternatives analysis & retrofit	O&M	\$ (200,000)		\$ 21.500 \$	(200,000)								One alternative under consideration to help resolve elevated SVI levels is
· · · · · · · · · · · · · · · · · · ·		+			,								reconfiguring the aeration tank diffusers.
River Street WWTP Access Roadway Phased Rehabilitation		\$410,128											Phased rehabilitation of sections of the 2.5+/- access road to the Franklin
	0.014	*	A 110 100			^ 150.000			A 450,000				WWIP. FY19 roadwork awarded for three segments.
River Street - phased repaying and drainage renabilitation and restoration	O&M	\$ 410,128	\$ 110,128			\$ 150,000			\$ 150,000				and the annual and total costs will be developed but may include shim, and
													overlay, chip sealing, repaving and repair or reclamations of different
													segments of the roadway every few years.
Maintenance of Process Tanks		\$918,560											Rehab and on-going maintenance of tanks at the WWTP. Annual estimates
Tank cleaning, painting, rehab at WWTP	O&M	\$ 918,560	\$ 94,760	\$ 94,760 \$	74,000	\$ 49,000	\$ 52,000	\$ 94,760	\$ 94,760	\$ 143,760	\$ 143,760	\$ 77,00	are provided based on cost of previous work and projected schedule of work
													addressed each year.
Total 10-year WWTP Project Costs		\$2,167,838	\$459.388	\$453,260	\$300,150	\$199,000	\$52.000	\$94,760	\$244,760	\$143,760	\$143,760	\$77.000	
		<i> </i>	\$ 100,000	¢ 100,200	\$000,100	\$100,000	<i>\$01,000</i>	¢¢ i,i ee	¢,. cc	\$110,100	<i>\$</i>	<i>\$11,000</i>	
Collection System													
Phased Collection System Evaluations (See Note 6)		\$50,000											\$50K used as minimum for CIP evaluations (See Note 6). A phased
													sewer CCTV inspections is being conducted using in-house staff and
													contracotrs, if needed. The WRBP has performed manhole, wetwell,
													pipeline, and CCTV inspections. Cost/benefit analysis for rehabilitation
													results if they reveal a need for repairs or replacement. Inspections to date
													have not identified any necessary capital projects.
Collection System Phased evaluations - camera, testing, 1/1, etc.	O&M	\$ 50,000		\$	50,000								
Pump Stations PLC and Telemetry - Alternative Analyses and Retrofits		\$284,000											PLCs at the 14 WRBP pump stations will need to be retrofit with supported
													PLCs and radio telemetry will need to be updated and reconfigured to be
													evaluations and preliminary design prior to retrofits. Design, construction
Alternatives evaluation - engineering	O&M	\$ 20.000		\$ 20,000									oversight, equipment procurement with contractor installation in order to
PLC and Radio Retrofits, design and construction oversight	O&M	\$ 264,000		\$	264,000								maintain operations.
Winnisquam Pump Station Emergency Power Alternatives Analysis (See Note 6) O&M	\$50,000		\$	50,000								\$50K used as minimum for CIP evaluations. (See Note 6) Replacement
													generator set & enclosure vs modify existing pad, enclosure and controls.
Winnisquam Pump Station Compound Rehabilitation (See Note 6)	RF	\$50,000		s	50,000								\$50K used as minimum for CIP evaluations. (See Note 6) Critical PS with
													no margin for failure. Evaluations will focus primarily on the subsurface
Total 10-year Collection System Project Cost		\$434,000	\$0	\$20,000	\$414.000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	configurations related to the PS.
		\$434,000		\$20,000	\$414,000	φU				30	\$U		
TOTAL ESTIMATED 10-YEAR EXPENDITURES	:	\$2,634,838	\$492,388	\$473,260	\$714,150	\$199,000	\$52,000	\$94,760	\$244,760	\$143,760	\$143,760	\$77,000	
FUNDING SUMMARY		TOTAL 10-YEAR	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	
Funding Allocations													
State Revolving Fund (SRF) Loan		\$927,000	\$190,000	\$337,000	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
General Obligation Bonds		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
WRBP Replacement Fund (RF) - See Note 3		\$50,000	\$0	\$0	\$50,000 \$481,000	\$0	\$0	\$0	\$0	\$0 \$143.760	\$0	\$0 \$77.000	
Capital Reserve Account - See Note 4		\$0	\$401,888	\$136,200	\$481,000	\$199,000	\$52,000	\$94,760	\$244,760	\$143,760	\$0	\$77,000	
	Totals:	\$2,951,188	\$591,888	\$473,260	\$931,000	\$199,000	\$52,000	\$94,760	\$244,760	\$143,760	\$143,760	\$77,000	
Other Funding Sources													
Grants		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Insurance/FEMA Rebates/Incentives	-	<u>\$0</u> \$0	\$0 \$0	<u>\$0</u> \$0	\$0 \$0	<u>\$0</u> \$0	\$0 \$0	<u>\$0</u> \$0	\$0 \$0	\$0 \$0	<u>\$0</u> \$0	\$0 \$0	
Other (specify below):		-\$316,350	-\$99,500	\$0	-\$216,850	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Principal forgiveness from CWSRF	T-1-1-5%	6 040 070	****		****	*-				A -	*-		
	I otal Offsets:	-\$316,350	-\$99,500	\$0	-\$216,850	\$0	\$0	\$0	\$0	\$0 \$143.760	\$0	\$0 \$77,000	
		φ ∠, 034,030	φ + 3∠,300	φ+13,200	φr 14,130	φ133,000	ψ 5 2,000	φ 34,10 0	φ 244,10 0	φ143,70U	φ143,10U	φ//,000	
													· · · · · · · · · · · · · · · · · · ·

NOTES: 1. The State Fiscal year is from July 1st to June 30th. State budgeting is done biennially. 2. All dollar amount entries are presented in current year dollars (reflected by year provided in column #4). The annual rate impact to communities associated with committee debts will be presented to members in a separate document that will be updated when the commitment is formalized.

3. The WRBP Replacement Fund (RF) established at RSA 485-A:51 collects funds from members based upon the replacement cost of depreciable WRBP assets. This fund is for projects leading to, or involving, repairs and replacement of major equipment and infrastructure.

There is currently no Capital Reserve Account established for the WRBP.
 CIP Program Summary to be updated by the Advisory Board CIP Workgroup annually and presented to the full board. Previous Summaries shall be archived in order to provide information on completed projects and

6. The CIP Subcommittee has chosen a value of \$50K as a placeholder for potential projects to be included in the CIP. As such projects are evaluated further or prioritized for actual implementation, a more comprehensive cost estimate will be incorporated into the CIP.

CIP SUBCOMMITTEE MEMBERS: WRBP REPRESENTATIVES: ADVISORY BOARD CHAIRMAN:

Wesley Anderson (Laconia, Subcommittee Chairman) Sharon McMillin (WRBP Administrator) Brian Sullivan (Franklin)

Ray Korber (KVP, LLC. Consultant for Bay District)

Steve Dolloff (Meredith)

WRBP Capital Improvements Project Worksheet Asset Management Program

Project Name:	Asset Management Program		•					
Original Replacement Date:								
Revised Replacement Date:								
Location:	Franklin WWTP, Pump Stations	s, Maintenance	Shop, and Collection system					Mandatory
Importance of Project:	Mandatory		H	ligh	Х	Low	1	NPDES Comp
	Committed		Mec	lium		On the Radar		Health & Safe
Project or Equipment Description:	The Program incorporates existin	ng historical info	ormation (ex. MP2 and malfunction	database	es), an asset inven	tory of vertical and ho	rizontal	Environmenta
assets with associated attributes eva	luation (e.g. age, condition, life cy	cle costs, rema	aining useful life, asset value, replac	ement co	ost, risk, and critica	lity), an identified expe	ected level	Maintenance
of service and potential alternative fu	nding sources. The Program has	the capability to	generate maintenance/inspection	work ord	ers, collect and ma	anage data with report	generation,	Maintain, Repa
track/report malfunctions and repair/r	replacement history, forecast repa	irs/retrofit, mor	nitor and forecast life cycle and repa	ir/rehab/	replacement exper	nses as they relate to c	capital and	O&M Cost & Ef
O&M costs. During the initial phase	of the program a c GIS map of the	WRBP collect	tion system with linked WRBP plans	s was cre	ated and access to	o community information	on, when	O&M Cost
available. The asset management so	ftware platform replaces the obso	lete MP2 work	order software program. Procedure	es, trainin	g, schedules, and	policies to update and	maintain	Efficiency
the data, interfaces and reporting cap	pabilities are being implemented.	Consulting ass	istance for incorporating asset cond	dition and	l criticality into the	platform will by comple	eted in	
FY19.								Project Delive
Multi-phased Project: Yes/No	Yes - The initial development ar	nd population o	f an Asset Management platform w	ith contin	ued programmatic	implementation		Expected Usef
Expected Useful Life:	N/A for evaluation							Expected Use
Justification: The collection system	and WWTP condition assessmen	nts and asset in	formation will be integrated into this	s program	n initiative to assist	the WRBP in develop	ing an	Availability of F
enhanced multi-year CIP, further ider	ntify areas for improvement and qu	uantify system	assets for potential cost allocation b	between o	communities. The	goal is to reduce costs	by	Availability of I
forecasting and targeting funds for ne	ecessary repairs, upgrades and in	spections to m	aintain a sustainable, cost effective	, complai	nt operation. The o	bsolete MP2 work ord	er software	
needs to be replaced since it is no lo	nger supported and does not prov	ide necessary	reporting or forecasting functions. F	unding th	nrough principal for	giveness is currently a	available	
from the CWSRF program for three p	phases of implementation. Each p	bhase is eligible	e for \$30K; making the implementat	ion of thi	s necessary initiativ	ve at this time more co	st effective	
for rate payers.								
Impact of Cancelled or Delayed Pr	oject: Without documentation an	d a systematic	approach to asset management, th	ere can b	pe insufficient detai	led information availat	ole to	
validate cost/benefit decisions on car	bital or O&M expenditures. Collec	tion system ma	apping will improve communications	with cor	tractors, member	communities, regulator	rs, and	
other stakeholders and provide a fran	nework and nomenclature for ass	et identification	h. The MP2 work order system is of	osolete a	nd no longer suppo	orted so a new platforn	n with work	
order and other asset management r	eporting and information archiving	g capabilities is	needed.		0 11	•		Total Com
Project Driver	s and Operating Impacts		F	unding S	Sources		Picture(s)	
Is project currently part of the CIP?		YES	Source	0	Amount	%		
Is this project due to regulatory comp	liance?	NO	Member Assessments					
Is this project due to wastewater trea	tment capacity issues?	NO	Loan (vr @ %)			0%		
Is this project due to other operationa	al issues?	NO	Bond (vr @ %)			0%		
Is this a repair or replacement project	t?	NO	WRBP Replacement Fund			0%		
Is this a new infrastructure project?		NO	WRBP 0&M Budget	\$	123 000	0,0		
Annual Estimated (Operating Costs	Amount	Other Funding Sources	Ψ	120,000			
Personnel		\$ -	Grants (SRE loan forgiveness)	\$	(90,000)			
Maintenance		φ - \$		Ψ	(30,000)	0%		
Expenses		Ψ - 2	Rebates			0%		
Expenses	Total Projected Appual Cost	<u>Ψ</u> ΦΩ	7	otal \$	33,000	070		
Broject Cost	Summary	Amount	Projo		ding Noods			
Project Cost assumes:	Summary	Amount	Eiscal Voar		Amount	Commonts		
Acost management support from	Dianning/Eng ourport	¢ 00.000	Fiscal Teal	¢	22 000			
Asset management support from		φ 80,000	FY 19 Request w/ credits	Φ	33,000	in FY19 dollars		
wright-Pierce.	Design		FY 20 Request			in FY19 dollars		
	Didulity Construction Admin		FT 21 Request			III F T 19 UUIIAIS		
			FY 22 Request			in FY10 dollars		
	Resident Eng.		FT 23 Request			III F T 19 UUIIAIS		
	Construction		FT 24 Request			IN FILE COURTS		
	Droguroment/Licensing	¢ 42.000	FT 23 Request			in FT19 dollars		
		φ 43,000 ¢ (00,000)	EV 27 Dequest			III FIII UUIIUIS		
	SKE INCENTIVE	φ (90,000)	FT 27 Request			in FV10 dollars		
	Total Desiration (O set	¢ 00.000			00.000	III FTT9 UUIIdIS		
					33,000			
REVISION DATE:	10/17/2016			CIP	Subcommittee to	Advisory Board		

Criteria	Weighting	Priority (3-0)	Score
iance	12	1	12
y	12	1	12
	12	0	0
iir, Replace	7	2	14
iciency			
	10	2	20
	5	2	10
y	2	3	6
Il Life			
ul Life	5	2	10
unding			
unding	5	0	0
arative Project Score			84



Original Replacement Date: Revised Replacement Date: Location: Franklin WWTP Mar Importance of Project: Mandatory High X Low Ni Project or Equipment Description: The two turbine generators installed on the second floor of the main building as original equipment at the WWTP over 39 years ago can be replaced with a single, right-sized dised generator tracted to provide sufficient power to the WWTP so critical facility operations: can be maintained during power outages. A Mark contracte pad and interconnection to the recently upgraded main electrical switchgear will be performed by WRBP staff and contractors. The switchgear replacement project completed in FY16 included installation of the conduits and handhole necessary to facilitate the new generator's installation; reducing the overall cost and complexity of this project. Figure 30 + years for upgrade Oat Multi-phased Project: Yes/No No - Sizing and location of new generator already determined so installation can proceed. Expected Useful Life: 30 + years for upgrade Ava Justification: Adequate back-up power is required by the WRBP's NPDES permit. The existing turbine generators' combined control system would need to be replaced with a new, custom control system has obsolete components that controls both generators. Ava Impact of Cancelled or Delayed Project: Tailure of the combined control system would need to be replaced with a new, custom control system has obsolete components that controls both generators. Ava Impact of Cancelled or Delayed Project: Tailure of the combined control system	C andatory NPDES Compl lealth & Safety nvironmental aintenance Maintain, Repa M Cost & Eff D&M Cost Efficiency Project Delivery pected Usefu ailability of Fu vailability of Fu	
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Is this project due to wastewater treatment capacity issues? NO Loan (yr @%) 0% Is this project due to other operational issues? YES Bond (yr @%) 0% Is this a repair or replacement project? YES WRBP Replacement Fund 0% Is this a new infrastructure project? NO WRBP O&M Budget \$ 190,000		
Is this project due to other operational issues? YES Bond (yr @%) 0% Is this a repair or replacement project? YES WRBP Replacement Fund 0% Is this a new infrastructure project? NO WRBP O&M Budget \$ 190,000 Annual Estimated Operating Costs Amount Other Funding Sources	. //	
Is this a repair or replacement project? YES WRBP Replacement Fund 0% Is this a new infrastructure project? NO WRBP O&M Budget \$ 190,000 Annual Estimated Operating Costs Amount Other Funding Sources		
Is this a new infrastructure project? NO WRBP 0&M Budget \$ 190,000 Annual Estimated Operating Costs Amount Other Funding Sources		
Annual Estimated Operating Costs Amount Other Funding Sources		
Personnel 5 - Grants 0%		
Maintenance \$ - Insurance/FEMA 0%		
Expenses <u>\$ -</u> Rebates <u>\$ (9,500)</u>	10-0	
Total Projected Annual Cost \$0 Total \$ 180,500		
Project Cost Summary Amount Projected Funding Needs	Solar [™] Turb	
Project Cost assumes: Fiscal Year Amount Comments		
Planning FY 19 Request w/ credits \$ 180,500 in FY19 dollars	13	
Design (review) \$ 5,000 FY 20 Request in FY19 dollars	m 💿 🖬	
Bidding FY 21 Request in FY19 dollars		
Construction Admin FY 22 Request in FY19 dollars	iste	
Resident Eng. FY 23 Request in FY19 dollars		
Construction \$ 185,000 FY 24 Request in FY19 dollars	1 1	
Contingency FY 25 Request in FY19 dollars	HSOLA	
SRF incentive \$ (9,500) FY 26 Request in FY19 dollars	R	
FY 27 Request in FY19 dollars		
FY 28 Request in FY19 dollars		
Total Project Costs \$ 180,500 Total estimated 10-year costs \$ 180,500		
REVISION DATE: 10/4/2018 SUBMITTED BY: CIP Subcommittee to Advisory Board	Control pane	

Proj	ect Score		
Criteria	Weighting	Priority (3-0)	Score
iance	12	2	24
/	12	1	12
	12	0	0
ir, Replace	7	3	21
iciency			
	10	3	30
	5	3	15
ļ	2	2	4
l Life			
ul Life	5	3	15
unding			
unding	5	0	0
arative Project Score			121
			121







I for generators



Custom Controller Wiring



Stepper switch

Project Name:	Solids Handling Optimization						ŀ	roject Score		
Original Replacement Date:										
Revised Replacement Date:							Criteria	Weighting	Priority (3-0)	Score
Location:	Franklin WWTP						Mandatory			
Importance of Project:	Mandatory			High	Х	Low	NPDES Compliance	12	0	0
. ,	Committed		Me	dium		On the Radar	Health & Safety	12	0	0
Project or Equipment Description	: Optimization of the solids handlin	a processes at	the WWTP is recommended to ev	aluate the	e diaesters, sluda	e thickening and dewatering.	eat Environmental	12	0	0
exchangers, gas handling and utiliza	ation. Retrofit of anaerobic digeste	rs' das pipind t	hat had deteriorated occurred over	the last se	everal vears, as n	eeded. A Solids Handling Ma	ster Maintenance		-	
Plan is under development to outline	the necessary upgrades, process	modifications.	and state of good repair projects the	hat the WF	RBP may need to	undertake over the course of	the Maintain, Repair, Replace	7	2	14
next 20-year planning period. focuse	ed evaluation of long-term alternation	ves that consid	ers appropriate options given site-	specific op	eration, location,	and history. Options consider	ed O&M Cost & Efficiency		_	
will make the best use of existing res	sources, minimize reactive mainter	nance, and imp	rove operational efficiency. Opport	unities for	improvements to	sludge thickening, digester	O&M Cost	10	2	20
mixing, dewatering stability, and dige	estate withdrawal have been identi	fied. These, an	d other optimization scenarios, will	be assess	sed for their poter	ntial to improve process efficie	ncy Efficiency	5	2	10
and analyzed within the context of or	verall capital needs and projects no	ecessary to ma	intain a state of good repair.		·		Project Delivery	2	3	6
Multi-phased Project: Yes/No	Yes - Optimizations and addition	nal evaluations	will determine need cost effective	ness and	priority of potenti	al future upgrades	Expected Useful Life			-
Expected Useful Life:	N/A for evaluation			nooo, ana	phoney of potona		Expected Useful Life	5	3	15
Lustification Improved colide hand	ling and processing at the WW/TD	may halp to rac	luce operating costs increase dige	otor oopo		officiancy, and raduce the nee	d for Availability of Euroding		5	10
future expension of digestion facilitie	ing and processing at the wwwire	litu waa idaatifi	d as and notantial area of improve	sier capa	city by increased	eniciency, and reduce the nee			0	45
Finding of the contracting in 2000. The COM 2000	S. Opgrade of this septage capabi	ny was identified	ind arous for improvement in the s	elido bond	le Seplage Sludy	the M/M/TD Additional	Availability of Funding	<u> </u>	3	15
Engineering in 2009. The CDM 2008	Preliminary Design Summary Re	port also identil	ied areas for improvement in the s	olius nanu	ing processes at	the wwwip. Additional				
recommendations in the MOM Study	y completed in 2014 are under con	isideration.								
Impact of Cancelled or Delayed P	roject: Evaluation and implementa	ation of recomn	nendations and optimized process	ses may in	crease cost effec	tiveness of operations without				
significant capital expenditures. Fut	ure projects may be identified and	prioritized base	ed upon these optimization evaluation	ions.						
							Total Comparative Project Sc	ore		80
Project Drive	rs and Operating Impacts		F	Funding S	ources	Pictu	re(s)			
Is project currently part of the CIP?		YES	Source		Amount	%				
Is this project due to regulatory com	pliance?	NO	Member Assessments				and the second sec			
Is this project due to wastewater trea	atment capacity issues?	NO	Loan (yr @ %)			0%		28 1		
Is this project due to other operation	al issues?	YES	Bond (yr @%)			0%	and the second			
Is this a repair or replacement project	ct?	NO	WRBP Replacement Fund			0%				
Is this a new infrastructure project?		NO	WRBP O&M Budget	\$	74,000	100%		Septic Receivir	ng Area and Thicke	ner
Annual Estimated	Operating Costs	Amount	Other Funding Sources						-	
Personnel		\$ -	Grants			0%				
Maintenance		\$-	Insurance/FFMA			0%				
Expenses		\$-	Rebates			0%				
	Total Projected Annual Cost	<u>+</u> 02		Total \$	74 000	0,0	Sector Se	1		
Broject Cost	Summary	Amount	Broic		ding Noods		- Contraction of the local data			
Project Cost	. Summary	Amount		cieu run		Commente				
Project Cost assumes:	Discolar	* 7 4.000		^	Amount				and le	
Solids Handling Master Plan	Planning	\$ 74,000	FY 19 Request w/ credits	\$	74,000	in FY19 dollars			A Real	
preliminary scope and no-to-excee	ed Design		FY 20 Request			in FY19 dollars			1	
budget developed with Brown and	Bidding		FY 21 Request			in FY19 dollars				
Caldwell.	Construction Admin		FY 22 Request			in FY19 dollars		n n		The second
	Resident Eng.		FY 23 Request			in FY19 dollars	Digester Heat Exchanger #1		E Stan	1
	Construction		FY 24 Request			in FY19 dollars			The states	i .
	Contingency		FY 25 Request			in FY19 dollars			CHE CAN	1-1-1
			FY 26 Request			in FY19 dollars		- Tele		
			FY 27 Request			in FY19 dollars		NEW !!		
			FY 28 Request			in FY19 dollars		1 - I	AND DECEMBER OF	a series
	Total Project Costs	\$ 74,000	Total estimated 10-year o	costs \$	74,000			and the second s	Star 1	and the second
REVISION DATE:	10/4/2018		SUBMITTED BY:	CIP	Subcommittee t	o Advisory Board	_			





Project Name:	Wastewater Process Optin	nization						Project Score			
Original Replacement Date:							a 1. 1				
Revised Replacement Date:								Criteria	Weighting	Priority (3-0)	Score
Location:	Franklin WWTP							Mandatory			
Importance of Project:	Manda	atory		High X		Low		NPDES Compliance	12	3	36
	Comm	itted	Me	dium		On the Radar		Health & Safety	12	0	0
Project or Equipment Description	: Optimization of the wastewa	ter processes a	the WWTP is recommended in the M	laintenance Operat	tions and Ma	anagement (MOM) Stu	ıdy	Environmental	12	1	12
completed in 2014 and is part of the	subsequent Implementation	Plan. Data anal	sis is on-going following the installatio	on of additional sen	sors in the a	eration tanks in FY17	. Retrofit	Maintenance			
of aeration tank diffusers is one opti	on being explored to redistrib	ute dissolved ox	ygen (DO) to augment biologic activity	v, reduce SVI levels	s and septici	ty. Three potential sul	o-projects	Maintain, Repair, Replace	7	1	7
have been identified and SRF applic	cations for energy incentive fu	nding have bee	approved, contingent upon completic	on of an energy auc	dit in 2019 a	nd development of a s	cope and	O&M Cost & Efficiency			
budget for any or all sub-projects. T	he sub-projects include the p	reviously identif	ed retrofit of the aeration tank diffusers	s, plus installation of	of a smaller	aeration blower and a	utomated	O&M Cost	10	1	10
valves to better distribute the air to f	he aeration tanks. No final de	cision has beer	made to proceed with the modification	ns to the aeration ta	anks or to p	ursue other alternative	s. This is	Efficiency	5	1	5
an on-going initiative.								Project Delivery	2	1	2
Multi-phased Project: Yes/No	Yes - Optimizations and ac	ditional evaluat	ons will determine need, cost effective	eness, and priority	of potential	uture upgrades.		Expected Useful Life			
Expected Useful Life:	N/A for evaluation							Expected Useful Life	5	1	5
Justification: Wastewater process	optimization at the WWTP wi	ll help reduce o	erating costs, improve efficiency, docu	ument procedures,	maintain co	mpliance, and potenti	ally	Availability of Funding			
reduce operating costs. The goal is	to undertake systematic eval	uations and ide	tify projects to minimize potential futur	re capital projects.		• • •		Availability of Funding	5	0	0
luuraat of Osmaallad on Dalamad D											
Impact of Cancelled or Delayed P significant capital expenditures. The	roject: Evaluation and implei	nentation of rec	ommendations and optimized process	ses may increase c	ost effective	eness of operations wi	nout				
significant capital expenditures. The	e potential sub-projects as we		projects may be identified and prioriti			valuations.					
								Total Comparative Project Score			77
Project Drive	rs and Operating Impacts			Funding Sources		1	Picturo(s)				
Is project currently part of the CIP?		YES	Source		nt	%	101010(3)				
Is this project due to regulatory com	nliance?	VES	Member Assessments	Anou		70					
Is this project due to regulatory com	atmont capacity issues?	NO	l_{oon} ($yr @ %$)			0%					
Is this project due to wastewater the		VES	Bond ($yr @ %)$			0%		/			
Is this a repair or replacement proje	ct2	VES	WRBP Replacement Fund			0%					
ls this a repair of replacement project?		NO	WIND Replacement Fund	¢ o	01 500	1270/				20 45 -	
	Operating Costs	NO	Other Funding Sources	φΟ	01,500	137 /0			111		No.
Annual Estimated	Operating Costs	Amour				00/			and the second	Allerander	and the second se
Personnel		\$ •	Grants			0%				1 4	
Maintenance		\$	Insurance/FEMA	^ (0)	40.050	0%			The		and a state of the
Expenses		\$	Repates	\$ (2)	16,850)	-31%					2.00
	Total Projected Annual	Cost \$0		Total \$ 58	84,650				1	THE REAL PROPERTY AND	1000
Project Cost	Summary	Amour	t Proje	ected Funding Ne	eds			Wastewater Clarifier	and the second s	and the second	A DE THE OWNER
Project Cost assumes:			Fiscal Year	Amour	nt	Comments			and the second	the second of	
Aeration tank diffuser retrofit option	Planning	\$ 40,	00 FY 19 Request			in FY19 dollars			E. S. C.	And and and	
estimate is based on 2005 escalate	d Design	\$55,	00 FY 20 Request	\$ 3	58,500	in FY19 dollars	DIT.				
costs for similar work. Installation of	a Bidding		FY 21 Request w/ credits	\$ 22	26,150	in FY19 dollars			1-2	- ap - Contra	2 2
smaller aeration blower and	Construction Admin		FY 22 Request			in FY19 dollars	N -		Contrast of		Salar.
automated valves is based on FY19	Resident Eng.	\$ 45,	00 FY 23 Request			in FY19 dollars			1 and the second s	A STATE	1
SRF application estimates including	Construction	\$611,	00 FY 24 Request			in FY19 dollars			Sec. 1		
contingency. All sub-projects	Contingency	\$ 50,	00 FY 25 Request			in FY19 dollars					
combined.	SRF incentive	\$ (216,	50) FY 26 Request			in FY19 dollars	-			Aeration Tank with	
		•	FY 27 Request			in FY19 dollars			F	Fine Bubble Diffuse	rs
			FY 28 Request			in FY19 dollars					
	Total Proiect C	osts \$ 584.	50 Total estimated 10-vear of	costs \$ 5	84,650			"Turbo" Aeration Blowers			
REVISION DATE:	10/16/2018	1	SUBMITTED BY:	CIP Subcom	nmittee to A	dvisory Board					
						-					







Original Replacement Date: Pranklin WVTP Access Road: Mandatory Meridence Comming Low NPDES Comming Mandatory Mippriation of Project: Comming Mandatory NPDES Comming NPDES C	Project Name:	River Street W\	NTP Access Ro	adway Phased	Rehabilitation				
Roylesci Replacement Date: Prinklin WUTP Access Read Mandatory High Committee Namitation Importance of Project: Mandatory Mandatory High Committee NPDES Com Project of Equipment Description: These of rehabilistion of the main access road to the WUTP including inspection and restruction of drainage nutreents, drainage improvements is a completed in 2013 in order to prevent further deteoration. Spot restands and Access and additional singuage should be rokes and or the bability that restands of the prevent further deteoration in access use inspected and no collaboration in the case and is a prevent of the solution for the collaboration and restands in access use inspected and no oddite mecks dual disclose in 2015. Itere removal in FY12 and The road was completed in 2013 in order to prevent further deteoration. Spot restands of the posted use of the collaboration of the collaboration in the case and is a prevent of the collaboration of the collaboration in the case and is a prevent of the collaboration of the collaboration in the case and is a prevent of the collaboration of the collaboration in the case and is a prevent of the collaboration of the collaboration in the case and is a prevent of the collaboration of the collaboration in the case and is a prevent of the collaboration of the collaboration in the case and in the collaboration in the case and in the collaboration in the case and in the collaboration in the case and is a prevent of the collaboration in the case and is a prevent of the collaboration of the collaboration in the case and in the collaboration in the case and is a collaboration in the case and in the collaboration in the case and in the collaboration in the casetandin the collaboration in the case and in thecolabora	Original Replacement Date:			•					
Location: Franklin WVTP Access Read Mandatory Importance of Project: Mandatory High Committed Mandatory Project or Equipment Description: Mandatory Media and additional signage clubresh (additional signage clubresh (additional signage should be investigated. Crack data to additional signage to additind signage to additionad sind additional since additi	Revised Replacement Date:								
Importance of Project: Mendatory High Low MPDES comparison Project or Equipment Description: Dank 16 Statt 3 S	Location:	Franklin WWTF	Access Road						Mandatory
Commend Median On the Rading A Health & S Project or Equipment Description: Phead rehabilitation of the main access road to the WVTF including inprovement of dranage provide and access road by the WVTF including inprovement of dranage provide the investigated. Crack distances in provide and the investigated in 2013 in order deformation. Such access readware an expansion and excellate and a definitional signage should be investigated. Crack distances in provide in 2015 in order to prevent turber deformation. Such access readware an expansion and excellate and a definitional signage should be investigated. Crack distances in the set and access area were insegret and access and in the deterioration of the road one complexity. Set Binner etc. Investigate and a definitione from Live access readware insegret and access and intra-expansion and excellences from Live access include single of outbook city seat the complexity. Accel International the road was complexible intervent turber of the set and the deterioration of the road was complexible in the set and access and	Importance of Project:		Mandatory		-	liah		ow	NPDES Com
Project or Equipment Description: Phased inhabilitation of the main access tool to the WWTP including inspection and indicinal signage suffers, drainage improvements to indicate and the including indicates and the including inspection and or drainage suffers, drainage improvements to additional signage suffers, drainage improvements and indicates and the including interaced harandoxy sensitient at 13:00 inair error. Vir 3:00 incertees, additional signage suffers, drainage improvements totally 2:08 linear foot, including the iso build private created harandoxy sensitient at 15:00 incertees in protein and no deficiencies out to locations in 2015. tree removal in FY12 and the read-Maxandox conditions and exceeded the detection of the road. FY12 social includes single or double chip seal and crass and the other portions. Restaration including this seal, shoulder work and drainage structures is planned in a phased approach to prevent utther adjusted totation. What and and access read-way at a 11 the orad of 18 expected useful life. Heavy loads and lack of appropriate drainage have created itro wear depressions along sections of the 2:4 mill cong access read-way at at 16 the of 16 te opaction of the access read-way and associated drainage and higher future depressions along sections of the rad-two, parpendicular creaks span the enter will be continued deterioration of the access read-way and associated drainage and higher future is project. Water and excess loing continues are access from adverses of watabbard*, poor drainage and higher future is project due to water water internet contaction or cost reverting to grave. No Loan (<u></u>			Committed		Med	ium	On the Ra	dar X	Health & Safe
(gitches, grading, etc.), and pavement redination or restoration (previously estimated at 13.00 linear feel). Clancific increasing and the previous of theprevious of the previous of the previous of the previ	Project or Equipment Description: Pha	ased rehabilitation	of the main acc	cess road to the	WWTP including inspection and re	storation of drainag	e culverts, drainage impro	vements	Environmenta
seal to similarity of the road was completed in 2015. In order to prevent further deterioration. Spot restoration and re-park was done at two locations in 2015. There are more an in PTV1 and PTV1 and how how how how and the loc building that created hazarobus conditions and escalated the deterioration of the road. PTV19 scope includes restoration of three same same inspected and no deficiences during for a phased approach to prevent further same same inspected and no deficiences of the same same areas the prevent further is a phased approach to prevent further is a prevent deterioration. The prevent further is a phased approach to prevent further is approach to prevent and excess stands was and action approach approach approach approach approach approach approach approach aprevent approach aprevent aphased approach apprevent approach	(ditches, grading, etc.), and pavement re	clamation or resto	pration (previous	ly estimated at	13,300 linear feet). Guardrail remov	al and additional sig	gnage should be investigat	ed. Crack	Maintenance
FY18 along the road has prevented the loc buildup that created hazardous conditions and escalated the deterioration of the road. FY19 scope includes restoration in three segments said of some portions, with drag and shim of other portions. Restoration including chip seal, shoulder work and drainage structures is planned in a phased approach to prevent further significant deterioration. Obs. Cost & E. Wulti-phased Project: Yes/No Yes Expected Use: Expected Use: Expected Use: Synthesis the and of lise expected used using infrastructure. Expected Use: Justificant eterioration. Synthesis the and of lise expected used using infrastructure. Expected Use: Justificant eterioration of the 2.4 mile long access readway are at the end of lise expected used used. Restause access (readway, perpendicular cracks gan the terim with of the readway: created fue access, pant the end of lise expected used used. Availability of Availability of Availability of Availabaird', poor drainage creating auditions in some areas. Total Comp Impact of Cancelled or Delayed Project: If this project is delayed or cancelled there will be continued deterioration of the access readway and associated drainage and higher turture. Total Comp Is indicate the indication (records gan and the continued deterioration of the access readway and associated drainage and higher turture. No Sources Amaintability of Availability of Availability of Sources Is indicate the indication (records gan and the readway) the access readway and associated drainage and higher turture.	seal to stabilize the road was completed	in 2013 in order to	o prevent furthe	deterioration.	Spot restoration and re-paving was	done at two locatior	ns in 2015. tree removal in	FY17 and	Maintain, Re
thally 2.560 linear feet, including the "washboard" section. Culverts in those areas were inspected and no deficiences found. Future options, include single or double chip seal and crack and seal of some portions, with drag and shim of other portions. Restoration including drip seal, shoulder work and drainage structures is planned in a phased approach to prevent further significant deterioration. Within the prevent further the the section of the secti	FY18 along the road has prevented the i	ce buildup that cre	eated hazardous	s conditions and	d escalated the deterioration of the	oad. FY19 scope ii	ncludes restoration of three	e segments	O&M Cost & E
sal of some portions, with drag and shim of other portions. Restoration including chip seal, shoulder work and drainage structures is planned in a phased approach to prevent furth Integration of the 24 mile forget 2 wars, to preserve existing infrastructure. Inspected Use: Integration of the 24 mile forget 2 wars, to preserve existing infrastructure. Integration of the 24 mile forget 2 wars, to preserve existing infrastructure. Integration of the 24 mile forget 2 wars, to preserve existing infrastructure. Integration of the 24 mile forget 2 wars, to preserve existing infrastructure. Integration of the 24 mile forget 2 wars, to preserve existing infrastructure. Integration of the 24 mile forget 2 wars, to preserve existing infrastructure. Integration of the access roadway and associated drainage have created the war address of the access roadway and associated drainage and higher future automation or road reventing to grave! Integrating the other will be continued deterioration of the access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the other access roadway and associated drainage and higher future Integrating the oth	totally 2,566 linear feet, including the "wa	ashboard" section.	. Culverts in thos	se areas were i	nspected and no deficiencies found	. Future options incl	ude single or double chip :	seal and crac	k O&M Cost
significant deterioration. Project Deriver Soft Soft Soft Soft Soft Soft Soft Soft	seal of some portions, with drag and shir	m of other portions	s. Restoration in	cluding chip se	al, shoulder work and drainage stru	ctures is planned in	a phased approach to pre-	vent further	Efficiency
Multi-plased Project: Ves Expected Use: Expected Vest Justification: Significant portions of the 2.4 mile long access roadway are the end of its expected useful life. Heavy loads and lack of appropriate drainage have created tire war depressions along access of "weshboard", poor drainage creating subsidence (depressions) with standing water and excess icing conditions in some areas. This project will preserve existing infrastructure. Availability of Subsections) with standing water and excess icing conditions in some areas. This project will preserve existing infrastructure. Impact of Cancelled or Delayed Project: If this project is delayed or cancelled there will be continued deterioration of the access roadway and associated drainage and higher future Impact of Cancelled or Delayed Project: If this project is delayed or cancelled there will be continued deterioration of the access roadway and associated drainage and higher future Impact of Cancelled or Delayed Project: If this project is delayed or cancelled there will be continued deterioration of the access roadway and associated drainage and higher future Impact of Cancelled or Delayed Project: If this project is delayed or cancelled there will be continued deterioration of the access roadway and associated drainage and higher future Impact of Cancelled or Delayed Project: If this project is delayed or cancelled there will be continued deterioration of the access roadway and associated drainage and higher future Impact of Cancelled drainage and higher future Is in project during that for the roadway perposition of the access roadway and associated drainage and higher future <	significant deterioration.								Project Delive
Expected Useful Life: 15-29 years, to preserve existing infrastructure. Expected Useful Life: Colspan="2">Expected Useful Life: Expected Useful Life: Aution provide: Aution Life: Aution Life: Aution Life: Colspan="2">Expected Useful Iffe: Colspan= Expected Useful Iffe: Aution Iffe: Aution Iffe: Aution	Multi-phased Project: Yes/No	Yes							Expected Use
Justification: Significant portions of the 2.4 mile long access roadway are at the end of its expected useful life. Heavy loads and lack of appropriate drainage have created the wear depressions along sections of the roadway, perpendicular cracks so and the entire with of the roadway, cracking around manholes, areas of 'washboard', poor drainage creating aubicidence (depressions) with standing water and excess icing conditions in some areas. This project will preserve existing infrastructure. Availability of	Expected Useful Life:	15-29 years, to	preserve existin	g infrastructure	.				Expected Us
depressions along sections of the roadway, propendicular cracks span the entire width of the roadway, cracking around manholes, areas of "washboard", poor drainage creating subsidence (depressions) with standing water and excess icing conditions in some areas. This project will preserve existing infrastructure. Availability of availability of availability of available arc a	Justification: Significant portions of the	e 2.4 mile long ac	cess roadway ar	e at the end of	its expected useful life. Heavy load	s and lack of approp	priate drainage have create	ed tire wear	Availability of
subsidence (depressions) with standing water and excess icing conditions in some areas. This project will preserve existing infrastructure. Impact of Cancelled or Delayed Project: If this project is delayed or cancelled there will be continued deterioration of the access roadway and associated drainage and higher future control or for an eventing to gravel. Total Common 7 Project Drivers and Operating Impacts Sproject currently part of the CIP? Sproject currently part of the CIP? Sproject currently part of the CIP? NO Load (Y @%) Montpart of the CIP? NO Load (Y @%) Substitution replacement reatment capacity issues? NO Load (Y @%) Substitution replacement project? Project Cost summary Cost	depressions along sections of the roadw	ay, perpendicular	cracks span the	entire width of	the roadway, cracking around man	noles, areas of "was	hboard", poor drainage cre	eating	Availability of
Impact of Cancelled or Delayed Project: If this project is delayed or cancelled there will be continued deterioration of the access roadway and associated drainage and higher future cost for rehabilitation/reconstruction or road reverting to gravel. Total Complement of the CIP? Project Drivers and Operating Impacts Funding Source Amount % Is this project due to regulatory compliance? NO Dour (Yr @%) \$ - 0% S - 0% Is this project due to wastewater treatment capacity issues? NO Don (Yr @%) \$ - 0% S - 0% Is this project due to wastewater treatment capacity issues? NO Don (Yr @%) \$ - 0% S - 0% Is this aroget or replacement project? NO WRBP Replacement Fund 0% 0% S - 0% Personnel Gramits S - 0% S - 0% S - 0% Project Cost Summary Amount Fiscal Year Amount Comments No	subsidence (depressions) with standing	water and excess	icing conditions	in some areas	. This project will preserve existing	nfrastructure.		-	
Impact of Cancelled or Delayed Project: If this project is delayed or cancelled there will be continued deterioration of the access roadway and associated drainage and higher future of the construction or road reverting to gravel. Total Compliance? YES Funding Sources Picture(s) Total Compliance? NO Loan (yr @%) \$ - O% Is this project due to regulatory compliance? NO Loan (yr @%) \$ - O% Is this project due to regulatory compliance? NO Loan (yr @%) \$ - O% Is this arepair or replacement project? NO NO MBRP Po&MB Budget \$ 410,128 O% Personnel Grants Complex Complex Complex Fisal Year Mount Comments Project Cost Summary Amount Complex Complex Complex Complex Complex Fisal Year Complex			-						
Impact of Cancelled or Delayed Project: If this project is delayed or cancelled there will be continued deterioration of the access roadway and associated drainage and higher future cost for rehabilitation/reconstruction or road reverting to gravel. Total Comparison of the CIP? YES Source Amount % Is project currently part of the CIP? YES Source Amount % Is project currently part of the CIP? YES Mo Configure Amount % Configure Amount Configure A									
Total Comp Total Comp Total Comp Project Drivers and Operating Impacts Funding Sources Project Drivers and Operating Impacts Funding Sources Project Drivers and Operating Impacts Funding Sources Project Correct Amount % B ribis project due to regulatory compliance? NO Member Assessments Image: Colspan="2">Control of the CIP? YES Source Amount % Member Assessments Image: Colspan="2">Control of the CIP? YES NO Member Assessments Image: Colspan="2">Control of the CIP? YES NO Member Assessments Image: Colspan="2">Control of the CIP? YES NO Member Assessments Image: Colspan="2">Control of the CIP? YES NO Member Assessments Image: Colspan="2">Control of the CIP? YES NO Member Assessments Image: Colspan="2">Control of the CIP? YES NO Member Assessments Image: Colspan="2">Control of the CIP? YES NO Member Assessments Image: Colspan="2">Control of the CIP? YES NO Member Assessments Image: Colspan="2">Control of the CIP? YES NO Member Assessments Image: Colspan="2">Control of the CIP? <th>Impact of Cancelled or Delayed Project</th> <th>ct: If this project is</th> <th>s delayed or car</th> <th>celled there wi</th> <th>Il be continued deterioration of the a</th> <th>ccess roadway and</th> <th>associated drainage and</th> <th>nigher future</th> <th></th>	Impact of Cancelled or Delayed Project	ct: If this project is	s delayed or car	celled there wi	Il be continued deterioration of the a	ccess roadway and	associated drainage and	nigher future	
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Is this a repair or replacement project? Is this a new infrastructure project? Annual Estimated Operating Costs Amount Other Funding Sources Grants Grant	Is this project due to other operational is	sues?		NO	Bond (yr @%)	\$	- 0%		A STATISTICS
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and awarded below this budget. Construction Admin Resident Eng. Construction Markin Resident Eng. Construction \$ 410,128 Contingency Total Project \$ 410,128 BEVISION DATE: 10/4/2018 Contingency FY 22 Request FY 23 Request FY 23 Request FY 24 Request FY 25 Request FY 25 Request FY 25 Request FY 26 Request FY 27 Request FY 27 Request FY 28 Reques	and scope of work. FY19 work was bid	Design			FY 21 Request		in FY19 dollars	River	St. drainage strue
Resident Eng. FY 23 Request in FY19 dollars Construction \$ 410,128 FY 24 Request in FY19 dollars Contingency FY 25 Request \$150,000.00 in FY19 dollars FY 26 Request in FY19 dollars in FY19 dollars FY 27 Request in FY19 dollars in FY19 dollars FY 28 Request in FY19 dollars in FY19 dollars FY 28 Request in FY19 dollars in FY19 dollars FY 28 Request in FY19 dollars in FY19 dollars FY 28 Request in FY19 dollars in FY19 dollars FY 28 Request in FY19 dollars in FY19 dollars FY 28 Request in FY19 dollars in FY19 dollars FY 28 Request in FY19 dollars in FY19 dollars FY 28 Request in FY19 dollars in FY19 dollars FY 28 Request in FY19 dollars in FY19 dollars FY 28 Request SUBMITTED BY: CIP Subcommittee to Advisory Board	and awarded below this budget.	Construction Ac	dmin		FY 22 Request	\$150,00	0.00 in FY19 dollars		Ũ
Construction \$ 410,128 FY 24 Request in FY19 dollars Contingency FY 25 Request \$150,000.00 in FY19 dollars FY 26 Request in FY19 dollars in FY19 dollars FY 27 Request in FY19 dollars FY 28 Request SUBMITTED BY: CIP Subcommittee to Advisory Board SUBMITTED BY:		Resident Eng.			FY 23 Request	. ,	in FY19 dollars		
Contingency FY 25 Request \$150,000.00 in FY19 dollars FY 26 Request in FY19 dollars in FY19 dollars FY 27 Request in FY19 dollars FY 28 Request in FY19 dollars Total Project \$ 410,128 REVISION DATE: 10/4/2018		Construction		\$ 410,128	FY 24 Request		in FY19 dollars		
FY 26 Request in FY19 dollars FY 27 Request in FY19 dollars FY 28 Request in FY19 dollars Total Project \$ 410,128 SUBMITTED BY: CIP Subcommittee to Advisory Board		Contingency		. , -	FY 25 Request	\$150.00	0.00 in FY19 dollars		
FY 27 Request in FY19 dollars FY 28 Request in FY19 dollars Total Project \$ 410,128 Total Project \$ 410,128 CIP Subcommittee to Advisory Board		57			FY 26 Request	÷,	in FY19 dollars		
FY 28 Request in FY19 dollars Total Project \$ 410,128 Total estimated 10-year costs \$ 410,128 REVISION DATE: CIP Subcommittee to Advisory Board					FY 27 Request		in FY19 dollars		
Total Project \$ 410,128 Total estimated 10-year costs \$ 410,128 REVISION DATE: 10/4/2018 SUBMITTED BY: CIP Subcommittee to Advisory Board					FY 28 Request		in FY19 dollars		
REVISION DATE: 10/4/2018 SUBMITTED BY: CIP Subcommittee to Advisory Board			Total Proiect	\$ 410.128	Total estimated 10-vear co	sts \$ 410	,128		
	REVISION DATE:	10/4/2018	-,	-,	SUBMITTED BY:	CIP Subcomm	ittee to Advisorv Board	-1	

Proj	ect Score		
Criteria	Weighting	Priority (3-0)	Score
pliance	12	0	0
ety	12	0	0
al	12	0	0
oair, Replace	7	2	14
fficiency			
	10	1	10
	5	2	10
ery	2	0	0
ul Life			
eful Life	5	2	10
Funding			
Funding	5	0	0
parative Project Score			44



ictures



Project Name:	Maintenance of Process Tanks						
Original Replacement Date:							
Revised Replacement Date:							
Location:	Franklin W/WTP					Mandator	rv
Importance of Project:	Mandatory		High				Com
	Committed		Medium	X	On the Rada	ar Health &	& Safe
Project or Equipment Description:	Provides for maintenance (cleaning	n material disi	needun	turntable retrofite et) of steel and concrete	a tanks at Environ	monte
the WWTP typically on a six to sever	n vear rotation in order to preserve	infrastructure	important to the function of the facility.	otal of 10 tanks with	1 or 2 tanks typically ac	dressed Maintena	nce
each vear	rycal rotation, in order to preserve					Maintair	n Rer
						O&M Cos	st & E
						O&M Co	ost
						Efficience	
						Project	Delive
Multi-phased Project: Yes/No	Yes					Expected	l Usef
Expected Useful Life:	5-14 years, to preserve existing in	ofrastructure				Expecte	ed Use
Justification: Preserves infrastructur	re important to the function of the fa	acility and allow	s scheduling to meet the operational rec	ouirements of the WV	VTP. Tank cleaning, su	urface Availabili	ity of
preparation and painting is outside th	e current capabilities of the WRBP	so competitive	elv bid service contracts are utilized.		i i i i i i i i i i i i i i i i i i i	Availabi	ility of
		, co component				/ Wallabi	ity of
Impact of Cancelled or Delayed Pro	piect: Since the tank maintenance	is incorporated	into the O&M schedule and budget del	av or cancellation for	a long term could lead	to disruption	
of operations when maintenance is u	nscheduled or potentially more cos	tly emergency	repairs if there is significant deterioration	of the infrastructure.			
						Total	Com
Project Drive	rs and Operating Impacts		Fundi	ing Sources		Picture(s)	
Is project currently part of the CIP?		YES	Source	Amount	%		
Is this project due to regulatory comp	liance?	NO	Member Assessments				
Is this project due to wastewater treat	tment capacity issues?	NO	Loan (yr @ %)		0%		A GAR
Is this project due to other operational	Il issues?	NO	Bond (yr @%)		0%	The second	
Is this a repair or replacement project	?	YES	WRBP Replacement Fund		0%		
Is this a new infrastructure project?		NO	WRBP O&M Budget (annual average)	\$ 91,856	100%		
Annual Estimated	Operating Costs	Amount	Other Funding Sources				
Personnel			Grants		0%	A Starting	New Y
Maintenance			Insurance/FEMA		0%		Sel.
Expenses			Rebates		0%		28
	Total Projected Annual Cost	\$0	Totals	\$ 91,856			2
Project Cost	Summary	Amount	Projected	Funding Needs			
Project Cost assumes:			Fiscal Year	Amount	Comments		
Incorporated into annual O&M costs	Planning		FY 19 Request	\$ 94,760	in FY19 dollars		
	Design		FY 20 Request	\$ 94 760	in FY19 dollars	ELSE A	A R
	Bidding		FY 21 Request	\$ 74,000	in FY19 dollars		
	Construction Admin		FY 22 Request	\$ 49.000	in FY19 dollars		The second
	Resident Eng.		FY 23 Request	\$ 52.000	in FY19 dollars		
	Construction	\$ 918.560	FY 24 Request	\$ 94,760	in FY19 dollars		
	Contingency		FY 25 Request	\$ 94.760	in FY19 dollars	and the second second	A ASSEM
			FY 26 Request	\$ 143.760	in FY19 dollars	and the second	
			FY 27 Request	\$ 143.760	in FY19 dollars		
			FY 28 Request	\$ 77.000	in FY19 dollars		Aerial
	Total Proiect		Total estimated 10-vear costs	\$ 918.560	-	1	
REVISION DATE:	10/4/2018		SUBMITTED BY:	CIP Subcommittee	to Advisory Board	-	
					to Autiony Bound		

Proj	ect Score		
Criteria	Weighting	Priority (3-0)	Score
liance	12	0	0
.y	12	0	0
	12	0	0
air, Replace	7	2	14
liciency			
	10	0	0
	5	2	10
у У	2	2	4
I Life			
ul Life	5	1	5
unding			
unding	5	0	0
arative Project Score			33



Photo of Franklin WWTP showing Multiple Tanks

Project Name:	Phased Collection System Evalu	uations						Project Score				
Original Replacement Date:												
Revised Replacement Date:								Criteria	Weighting	Priority (3-0)	Score	
Location:	WRBP Collection System							Mandatory				
Importance of Project:	Mandatory	Х	Hig	gh	Х	Low		NPDES Compliance	12	2	24	
	Committed		Mediu	um		On the Radar		Health & Safety	12	2	24	
Project or Equipment Description:	On-going phased collection syst	em evaluation	s of interceptor piping, manholes, and	d appurtenai	nces to deterr	nine condition of the sub	surfacce	Environmental	12	2	24	
infrastructure, identify locations with p	potentially excessive Infiltration/Infi	low (I/I), develo	op a repair/maintenance program whe	en needed, (confirm conne	ction (tap) locations and		Maintenance				
condition, update plans accordingly,	and report such studies and evalua	ations to the E	PA and the NHDES. This work includ	des camera	surveys, testi	ng, inspections, etc. Insp	pection	Maintain, Repair, Replace	7	2	14	
results will help develop cost/benefits	of removing extraneous flows to t	the collection s	system versus capacity expansion. Hi	listorically, fa	ailures in the c	ollection system have or	curred in	O&M Cost & Efficiency				
force mains due to corrosion from the	e exterior. Information from the co	ellection systen	n condition assessments will be incor	porated into	the Asset Ma	nagement Program. To	date,	O&M Cost	10	1	10	
inspections have not shown any area	is needing capital project repairs o	or further evalu	ations. The \$50K placeholder amount	t is used in t	the CIP until s	uch time as a more		Efficiency	5	2	10	
comprehensive scope and budget are	e developed for any identified capi	tal project nee	ds.					Project Delivery	2	2	4	
Multi-phased Project: Yes/No	Yes							Expected Useful Life				
Expected Useful Life:	15-29 years							Expected Useful Life	5	2	10	
Instification: The NPDES permit re-	quires "an inspection program to id	dentify notentia	al and actual unauthorized discharges	" into the co	lection system	n The WRBP member		Availability of Funding	Ŭ	_		
communities are assessed their appr	ortioned share of costs in part ha	sed on collection	on system flows attributable to their s		Therefore I/	Linto the WRBP intercer	tore may		5	0	0	
erroneously be attributed disproportic	nately Controlling I/I will reduce t	the need for fu	ture capital projects to expand capaci	ity of nump	stations or the	M/M/TP The Asset Mar	agement		5	0	0	
Program implementation is capturing	asset condition and criticality for a	all assets and (collection system inspections of subsi	urface infras	structure will ic	lentify other grass to be	nrioritized					
for further evaluations or possible co	rective measures either by WRRE	P staff or contra	actors. Condition assessment of the c		stam assats in	corporated into the Asse	prioritizeu st					
Management Program and CIP will b	elp identify and prioritize future in	estigations an	d rehabilitation work	Sollection Sys	Stern 255615 II	icolporated into the Asso	51					
Impact of Cancelled or Delayed Br	niect: Sewer overflows stemping	from excessiv	a I/I or other events are a violation of		permit The V		ic 30+/-					
wears old and this project will help ide	optify areas where maintenance or	ropair of the o	e 1/1 of other events are a violation of	tain the criti	ical infractruct	ure This project will ide	ntify and					
decument the condition of existing int	fractructure and mitigate potential	futuro bighor o	contection system is necessary to main	nam me chu		a or ovpond wostowator						
at pump stations and the W/W/TP	mastructure and miligate potential	iuture nigher c		benonn eine	ergency repair	s, or expand wastewater	capacity				120	
at pump stations and the WWTF.			Г			Īr	N - (-)	Total Comparative Project Score	9		120	
Froject Driver	s and Operating impacts	VES	Fui	nuing Sour		0/	ficture(s)					
Is project currently part of the CIF?	lianaa?	VES	Source Member Assessments	All	nount	/0						
Is this project due to regulatory comp		TES NO		¢		00/		Winnipesaukee River Basin Program Service Area Map	in the	×.		
Is this project due to wastewater trea		NO	Loan (yr @ %)	Ф Ф	-	0%		Provent and the second	1, 7025	1		
Is this project due to other operational		NO	DUIU (%)	Φ	-	0%			Moultonborough	1 de la compañía de la		
is this a repair of replacement project	11	NO		·) •	50.000	0%		Center Harbor	Bay Christin Christian			
is this a new infrastructure project?		NO	WRBP O&M Budget (annual averag	je) \$	50,000	100%						
Annual Estimated C	Operating Costs	Amount	Other Funding Sources							A		
Personnel			Grants	\$	-	0%						
Maintenance (integrated into existing	O&M budget)		Insurance/FEMA	\$	-	0%			eredith	~		
Expenses	-		Rebates	\$	-	0%			Nester Laty Cove Prop Staten December Scient	R		
	Total Projected Annual Cost	\$0	Tot	tal \$	50,000				Lake Winniposauke Ontour Rive			
Project Cost	Summary	Amount	Project	ted Funding	g Needs			NR A Lacona	Com 5 and	no standa		
Project Cost assumes:			Fiscal Year	An	nount	Comments		BUCHTER PROVIDENT	Page Inter			
The \$50K placeholder amount is	Planning	\$ 50,000	FY 19 Request			in FY19 dollars		the show	Moress Prov Meter Gilford	Annye In Editor		
used in the CIP until such time as a	Desian		FY 20 Request			in FY19 dollars		Ny -> heread	alline R. A			
more comprehensive scope and	Bidding		FY 21 Request	ç	\$50.000.00	in FY19 dollars		Sanbornton Sanbornton	Those ILA.Time			
budget are developed for any	Construction Admin		FY 22 Request		+,	in FY19 dollars		Average and Avera	Anno Anno Anno Anno Anno Anno Anno Anno	2-		
identified capital project needs. To	Resident Eng.		FY 23 Request			in FY19 dollars		The second second	Read Stores	5		
date, inspections have not shown any	V Construction		FY 24 Request			in FY19 dollars		Franklin	Contract A			
areas needing capital project repairs	Contingency		FY 25 Request			in FY19 dollars		Art Titlen Beine Beine Beine Briter Bruterender Beine				
or further evaluations.			FY 26 Request			in FY19 dollars		The second	Franklin Was Treatment Fa	wwitter Jitty Y		
			FY 27 Request			in FY19 dollars		and the second s	New Billing S	0 10		
			FY 28 Request			in FY19 dollars		The first Advertised Party Northfield	Existing Billing	Site Site		
	Total Project Costs	\$ 50.000	Total estimated 10-year cos	sts \$	50 000			A fill for the second s	Local Server			
REVISION DATE:	10/17/2018	÷ 00,000	SUBMITTED BY:		committee to	Advisory Board						
				J. 000		. arisery bound						



Project Name:	Pump Station PLC and Teleme	trv - Alternative	s Analyses and Retrofits			
Original Replacement Date:						
Povised Penlacement Date:						
Location:	Franklin W/W/TP					Mandatory
Importance of Project:	Mandatory	Y	High	Y	Low	
importance of Project.	Committed	~	Medium	~	On the Padar	Health & Safety
Project or Equipment Description:	Lindating all 14 pump station's E	l Programmable l	agic Controllors (PLCs) poods to accur	during the same proje		at radio Environmental
telemetry equipment and interface up	dates and other software program		ting and controlling the stations. Enginee	ring support will be ne	cessary to determine the	e most Maintenance
appropriate PLCs software commun	ications protocols and sequenci	ng of retrofits to	maintain complaint operations. A radio	nath study has already	/ been completed for mo	st Maintain Rena
locations but further analysis is neces	sarv to select the most feasible a	and cost-effectiv	ve option for frequency and pathways. C	urrent estimates range	from \$15-\$16K per pur	np station O&M Cost & Eff
to replace the PLCs with the radio tele	emetry upgrades that would be n	ecessarv. \$60K	is included for engineering evaluations.	design, and construct	ion oversight. The estim	ated O&M Cost
amount of \$284K total is used in the 0	CIP until such time as a more co	mprehensive sc	cope and budget are developed.	5 /	5	Efficiency
		•				Project Delivery
Multi-phased Project: Yes/No	Yes - coordination of work at al	l locations will b	be required to maintain SCADA and com	munications systems		Expected Useful
Expected Useful Life:	15-29 vears		•	,		Expected Usefu
Justification: Existing PLCs installed	d during the SCADA implementat	ion in 2000 in tł	ne 14 WRBP pump stations are nearing	the end of their useful	life and will not be supp	orted by Availability of Fu
the manufacturer or software vendors	s. The telemetry systems will nee	d to be updated	to interface with the new PLCs and alle	viate current connectiv	/ity issues.	Availability of F
					,	
Impact of Cancelled or Delayed Pro	pject: If failures occur, existing S	CADA and radi	o telemetry systems will be jeopardized,	necessitating repairs t	o outdated equipment s	ince
newer equipment will not interface wit	th existing PLCs or radio module	s. If telemetry i	s lost other options for monitoring and co	ontrol would be needed	d, including increased st	affing or
alternative communications methods	such as real-time telephone, cell	ular or satellite	services that would require additional eq	uipment, programming	g, and significant added	cost.
Loss of monitoring and control could I	lead to discharges to the environ	ment or damag	e to equipment.			Total Compa
Project Drivers	s and Operating Impacts		Fundi	ng Sources		Picture(s)
Is project currently part of the CIP?		YES	Source	Amount	%	
Is this project due to regulatory comp	liance?	YES	Member Assessments			
Is this project due to wastewater treat	ment capacity issues?	NO	Loan (yr. @ %)	\$-	0%	
Is this project due to other operationa	l issues?	NO	Bond (yr. @%)	\$-	0%	
Is this a repair or replacement project	?	NO	WRBP Replacement Fund		0%	Winnipesaukee River Basin Program
Is this a new infrastructure project?		NO	WRBP O&M Budget (annual average)	\$ 284,000	100%	Collection System
Annual Estimated O	perating Costs	Amount	Other Funding Sources			
Personnel			Grants	\$-	0%	CENTER HARBOR
Maintenance (integrated into existing	O&M budget)		Insurance/FEMA	\$-	0%	MERE
Expenses			Rebates	\$ -	0%	1
	Total Projected Annual Cost	\$0	Total	\$ 284,000		
Project Cost S	Summary	Amount	Projected	Funding Needs		LACONIA
Project Cost assumes:			Fiscal Year	Amount	Comments	A Contraction
Estimates are based on preliminary	Planning	\$ 20,000	FY 19 Request		in FY19 dollars	Lewron 3
budget. Final project costs will	Design		FY 20 Request	\$20,000.00	in FY19 dollars	SANU
depend on final scope and schedule.	Bidding		FY 21 Request	\$264,000.00	in FY19 dollars	BLIN THEON
	Construction Admin	\$ 40,000	FY 22 Request	. ,	in FY19 dollars	FRANK
	Resident Eng.	•	FY 23 Request		in FY19 dollars	NORTHFIELD
	Construction	\$ 224,000	FY 24 Request		in FY19 dollars	7 Destar
	Contingency		FY 25 Request		in FY19 dollars	
			FY 26 Request		in FY19 dollars	
			FY 27 Request		in FY19 dollars	
			FY 28 Request		in FY19 dollars	PLCs at 14 pum
	Total Project Costs	\$ 284,000	Total estimated 10-year costs	\$ 284,000		
REVISION DATE:	10/4/2018		SUBMITTED BY:	CIP Subcommittee to	o Advisory Board	

Project Score							
Criteria	Weighting	Priority (3-0)	Score				
iance	12	1	12				
y	12	1	12				
	12	2	24				
ir, Replace	7	3	21				
iciency							
	10	1	10				
	5	2	10				
у	2	2	4				
I Life							
ul Life	5	2	10				
unding							
unding	5	0	0				
arative Project Score			103				





Radio telemetry schematic

p stations

		_					
Project Name:	Winnisquam Pump Station Em	ergency Power	Alternative Analysis				
Original Replacement Date:							
Revised Replacement Date:							C
Location:	Winnisquam Pump Station, La	conia					Mandatory
Importance of Project:	Mandatory	/	ŀ	High	Low	Х	NPDES Compli
	Committee		Med	lium	On the Radar		Health & Safety
Project or Equipment Description:	An alternative analysis for the W	innisquam Pur	np Station emergency generator wh	nich supplies power to the	pump station and mainte	enance	Environmental
shop is housed in an enclose that is	too small, lacking adequate space	e for routine O8	M, and does not provide sufficient p	power output to run the fa	cility during higher flow p	eriods (it	Maintenance
fails if the conditions call for 3 pumps	to be run simultaneously). Addit	tional PLC prog	ramming may alleviate some of the	power failure conditions.	The Maintenance Shop (and its	Maintain, Repai
associated electrical connections suc	ch as exterior lighting) are powere	ed from the pur	p station MCC (configuration does	not meet current NEC reg	gulations) adding unnece	ssary load	O&M Cost & Effi
to the emergency generator, causing	it to fail when additional pumps a	are called to run	. Options under consideration inclu	de replacement of existin	g generator with an encl	osed	O&M Cost
system sized to provide sufficient po	wer to the compound or retrofit of	the existing ge	nerator's enclose and concrete pad	to allow adequate space	for O&M with a second g	generator	Efficiency
installed to augment power output so	facility operation can be maintain	ned under all co	onditions. These options will require	modifications to the powe	er distribution on the site.	An energy	Project Delivery
audit is scheduled in 2019 to facilitate	e this project.						Expected Useful
Multi-phased Project: Yes/No	Yes - Evaluation needs to be p	erformed in ord	er to determine need and priority of	future upgrades.			Expected Usefu
Expected Useful Life:	30 + years for upgrade						Availability of Fu
Justification: This pump station, loc	ated immediately adjacent to Lak	e Winnisquam.	handles approximately 60% of the	WRBP wastewater flows	from the collection syste	em. Failure	Availability of Fu
of this pump station may quickly lead	I to sewer overflow into the enviro	onment, adverse	ely impacting the water quality of the	Lake. The pump station	electrical systems and ex	xisting	
emergency generator configuration h	ave been identified as one signifi	cant point of po	tential failure which would lead to th	ne pump station failing to	adequately operate. A pr	eliminary	
plan was described in the Master Pla	in of Improvements for the Lacon	ia Compound p	repared in 2001 by CDM			,	
Impact of Cancelled or Delayed Pr	oject: The risk of pump station fa	ailure increases	with the age of installed equipment	and more frequent power	r outage events. Pump s	station	1
failure, especially for this high volume	e station located next to the Lake	, could quickly l	ead to discharge to the environment	t, impact to the water qua	lity of Lake Winnisquam,	and	
impact to the economic welfare of the	e area due to the proximity to the	public boat ram	p and the recreational uses of the L	_ake.	, , , , , , , , , , , , , , , , , , ,		
							Total Compa
Project Driver	s and Operating Impacts		F	unding Sources		Picture(s)	
Is project currently part of the CIP?	· · ·	YES	Source	Amount	%		
Is this project due to regulatory comp	bliance?	NO	Member Assessments				
Is this project due to wastewater trea	tment capacity issues?	NO	Loan (vr @%)		0%		
Is this project due to other operationa	al issues?	YES	Bond (vr @ %)		0%	25.	-5
Is this a repair or replacement project	t?	YES	WRBP Replacement Fund		0%		
Is this a new infrastructure project?		NO	WRBP Q&M Budget	\$ 50.000	100%		
Annual Estimated (Operating Costs	Amount	Other Funding Sources	+			
Personnel		\$ -	Grants		0%		
Maintenance		φ \$-	Insurance/FEMA		0%	1. Section	
Expenses		\$-	Rebates		0%	1000	
	Total Projected Annual Cost	<u>\$0</u>	T	otal \$ 50,000			
Project Cost	Summary	Δmount	Projec	cted Funding Needs		and the second	
Project Cost assumes:	Caminary	Amount	Eiscal Vear	Amount	Comments	and the	A CONTRACTOR OF
\$50K used as minimum for CIP	Planning	\$ 50,000	EV 10 Request	Anount	in EV19 dollars		and the second second
evaluation	Design	φ 50,000	EV 20 Request		in FV19 dollars		
evaluation	Bidding		EV 21 Poquest	¢50.000	in EV10 dollars		
	Construction Admin		EV 22 Poquest	φ30,000	in FV10 dollars		
	Posident Eng		EV 23 Poquest		in FV19 dollars		Winnisquam Con
	Construction		EV 24 Poquest		in FV10 dollars		Winnisquam Gen
	Contingency		FV 25 Request		in FV10 dollars		
	Contingency		FV 26 Request		in FV10 dollars		
			EV 27 Paguest		in FV10 dollars		
			FV 28 Request		in FV10 dollars		
	Total Project Costs	¢ 50.000	Total aptimated 10 year of	ooto ¢ 50.000	111113 UUIIa15		
		φ 50,000		JSIS φ 50,000	to Advisory Deard		
REVISION DATE:	10/16/2018		SORMITTED RI:	CIP Subcommittee	to Advisory Board		

Project Score								
Weighting	Priority (3-0)	Score						
12	0	0						
12	0	0						
12	0	0						
7	2	14						
10	1	10						
5	2	10						
2	0	0						
5	3	15						
5	0	0						
		49						
	Weighting 12 12 12 12 12 5 5	Weighting Priority (3-0) 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0 5 2 2 0 5 3 5 0						



Project Name:	Winnisquam Pump Station Com	pound Rehab	ilitation				
Original Replacement Date:							
Revised Replacement Date:							с
Location:	Winnisguam Pump Station, Lac	onia					Mandatory
Importance of Project:	Mandatory			Hiah	Low	X	NPDES Compli
	Committed		Me	dium	On the Radar		Health & Safety
Project or Equipment Description:	Re-routing subsurface conveyand	ce structures (s	sewers and electrical as necessary) to better serve the existing	pump station. Access	to some of	Environmental
these areas is via entry through dete	riorating former Laconia treatment	t plant building	s and a tunnel. A preliminary plan	was described in the Maste	r Plan of Improvements	s for the	Maintenance
Laconia Compound prepared in 200	1 by CDM and a preliminary design	n prepared in t	he mid 1990s by Rist-Frost. This w	vill facilitate removal of dete	riorated buildings, if dee	emed	Maintain, Repa
necessary, and re-routing the sewers	s on site.				0		O&M Cost & Effi
							O&M Cost
							Efficiency
							Project Delivery
Multi-phased Project: Yes/No	Yes						Expected Useful
Expected Useful Life:	N/A for evaluation						Expected Usefu
Justification: This pump station, loc	ated immediately adjacent to Lake	e Winnisquam.	handles approximately 60% of the	e WRBP wastewater flows	from the collection syste	em. Failure	Availability of Fu
of this pump station may quickly lead	to sewer overflow into the enviror	nment, adverse	ely impacting the water quality of the	e Lake.	,		Availability of F
		·					, ,
Impact of Cancelled or Delaved Pr	oiect: The risk of pump station fai	ilure increases	with the age of installed equipment	t. Pump station failure. esc	ecially for this high volu	ume station	
located next to the Lake, could lead	to discharge to the environment, in	npact to the wa	ater quality of Lake Winnisquam, ar	nd impact to the economic	welfare of the area due	to the	
proximity to the public boat ramp and	the recreational uses of the Lake	· •		·			
							Total Compa
Project Drive	rs and Operating Impacts		F	Funding Sources		Picture(s)	
Is project currently part of the CIP?		YES	Source	Amount	%		
Is this project due to regulatory comp	bliance?	NO	Member Assessments				
Is this project due to wastewater trea	tment capacity issues?	NO	Loan (yr @ %)		0%		
Is this project due to other operation	al issues?	YES	Bond (yr @%)		0%		
Is this a repair or replacement project	rt?	YES	WRBP Replacement Fund	\$ 50,000	100%		
Is this a new infrastructure project?		NO	WRBP O&M Budget		0%		WA
Annual Estimated	Operating Costs	Amount	Other Funding Sources				
Personnel	· · · ·	\$-	Grants		0%		*
Maintenance		\$-	Insurance/FEMA		0%		
Expenses		\$-	Rebates		0%		
	Total Proiected Annual Cost	\$0	-	Total \$ 50.000) /24"OUTFALL
Project Cost	Summarv	Amount	Proje	ected Funding Needs			×
Proiect Cost assumes:			Fiscal Year	Amount	Comments		son
\$50K used as minimum for CIP	Planning	\$ 50.000	FY 19 Request		in FY19 dollars		
evaluation	Design	¢ 00,000	FY 20 Request		in FY19 dollars		× // ↓
	Bidding		FY 21 Request	\$50,000,00	in FY19 dollars		\$ // Og
	Construction Admin		FY 22 Request	\$00,000.00	in FY19 dollars		
	Resident Eng.		FY 23 Request		in FY19 dollars		
	Construction		FY 24 Request		in FY19 dollars		ji o m
	Contingency		FY 25 Request		in FY19 dollars		/i ~ //i
			FY 26 Request		in FY19 dollars		
			FY 27 Request		in FY19 dollars		
			FY 28 Request		in FY19 dollars		
	Total Proiect Costs	\$ 50.000	Total estimated 10-vear d	costs \$ 50.000		1	Notici
REVISION DATE:	10/4/2018		SUBMITTED BY:	CIP Subcommittee t	o Advisorv Board	1	

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WRBP Capital Improvements Program Criteria Prioritization

	Prioritization	3	2	1	0	Weighting	
	Mandatory						
	Mandatory - NPDES Compliance	Project needed to alleviate existing compliance issues.	Project needed to alleviate potential compliance issues.	Project would promote or maintain compliance.	No compliance impact associated with project.	12	Polic
	Mandatory - Health & Safety	Project needed to alleviate existing health or safety hazard.	Project needed to alleviate potential health or safety hazard.	Project would promote or maintain health/safety.	No health or safety impact associated with project.	12	NPE publ the i
	Mandatory - Environmental	Project needed to alleviate existing environmental hazard.	Project needed to alleviate potential environmental hazard.	Project will improve environment quality of the Basin.	No direct environmental impact associated with project.	12	
	Maintenance						
	Maintain, Repair, Replace	Project is critical to save structural integrity of existing facility, repair significant structural deterioration, or replace obsolete equipment.	Project will repair/replace systems important to facility operation.	Project will improve facility appearance or deter future expenditure.	No existing facility involved.	7	Polic the mair
	O&M Cost & Efficiency						
Criteria	O&M Costs	Project will result in significant (> 8%) decrease in O&M costs of unit operation.	Project will have minimal (1-8%) reduction of O&M costs of unit operation.	Project will have no effect on O&M costs and/or personnel additions.	Project will require increased O&M costs and/or personnel additions.	10	
	Efficiency	Alternative technology/equipment will reduce energy/water consumed and/or < 5 years payback period.	Project will require no increase in energy/water consumption and/or 5-10 years payback period.	Alternative technology/equipment will require minimal increase in energy/water consumption and/or 10-20 year payback period.	Project will require substantial increases in energy/water consumption and/or payback period > 20 years or longer than anticipated equipment life.	5	Polio redu effic
	Project Delivery	Project requires completion before implementation of related project.	Project implementation will minimize program construction costs and disruption to operations.	Project may effectively be completed during implementation of related project.	Project has no prerequisites.	2	
	Expected Useful Life						
	Expected Useful Life	Meets the needs of the WRBP for the next 30 years or more.	Meets the needs of the WRBP for the next 15-29 years.	Meets needs of the WRBP for next 5-14 years.	Meets needs of the WRBP for less than 5 years.	5	Polio inve
	Availability of Funding						
	Outside Funding Availability	Project will receive grant funding >/= 20% of total project cost	Project will receive grant funding < 20% of total project cost.	Project will receive low (below commercial rate) interest rate loan applicable to entire project cost.	No funding arrangements currently exist.	5	Polic and com

REVISION DATE: 3/10/2011 - Approved by CIP Subcommittee

Policy Statement

cy Statement: The WRBP shall meet all regulatory requirements as specified in the DES Permit and will protect the health and safety of operations personnel and the lic. The WRBP will seek to protect the environment and enhance the economy of region.

cy Statement: The WRBP will maintain all its assets at a level adequate to protect WRBP's capital investment, maintain the desired level service and minimize future ntenance and replacement costs.

cy Statement: The WRBP will prioritize those projects with the highest potential for ucing operation and maintenance costs and that will improve the operational ciency and effectiveness of facilities and operations staff.

cy Statement: The WRBP will prioritize those projects with the greatest long-term stment potential.

cy Statement: The WRBP will determine the least costly method to fund all projects will seek outside (state/federal) funding to offset capital expenditures to the WRBP imunities.

Project Name:							
Original Replacement Date:							
Revised Replacement Date:							c
Location:							Mandatory
Importance of Project:	Mandatory		High		Lov	v	NPDES Compli
	Committed		Medium	1	On the Rada	r	Health & Safety
Project or Equipment Description:				1			Environmental
· · · / ·······························							Maintenance
							Maintain, Repa
							O&M Cost & Eff
							O&M Cost
							Efficiency
							Project Delivery
Multi-phased Project: Yes/No							Expected Usefu
Expected Useful Life:							Expected Usef
Justification:							Availability of Fi
							Availability of F
Impact of Cancelled or Delayed Pro	oject:						
							Total Compa
Project Drivers	s and Operating Impacts		Fund	ling Sources		Picture(s)	
Is project currently part of the CIP?			Source	Amount	%		
Is this project due to regulatory comp	liance?		Member Assessments				
Is this project due to wastewater treat	ment capacity issues?		Loan (yr @ %)				
Is this project due to other operationa	lissues?		Bond (yr @%)				
Is this a repair or replacement project	?		WRBP Replacement Fund				
Is this a new infrastructure project?			WRBP O&M Budget				
Annual Estimated O	perating Costs	Amount	Other Funding Sources				
Personnel			Grants				
Maintenance			Insurance/FEMA				
Expenses			Rebates				
	Total Projected Annual Cost	\$0	Total	- \$			
Project Cost S	Summary	Amount	Projected	d Funding Needs			
Project Cost assumes:			Fiscal Year	Amount	Comments		
	Planning		FY 12 Request		in FY12 dollars		
	Design		FY 13 Request		in FY12 dollars		
	Bidding		FY 14 Request		in FY12 dollars		
	Construction Admin		FY 15 Request		in FY12 dollars		
	Resident Eng.		FY 16 Request		in FY12 dollars		
	Construction		FY 17 Request		in FY12 dollars		
	Contingency		FY 18 Request		IN FY12 dollars		
			FY 19 Request		IN FY12 dollars		
			FY 20 Request		IN FY12 dollars		
			Total active to 1.10 and 1.1	<u> </u>	IN FY12 dollars		
	I Otal Project Costs \$	-	i otal estimated 10-year costs	\$0.00		_	
REVISION DATE:	approved form format)						

Proj	ect Score		
Criteria	Weighting	Priority (3-0)	Score
iance	12		0
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ul Life	5		0
unding			
unding	5		0
arative Project Score			0

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WRBP ESTIMATED DEBT SERVICE SCHEDULE FY2019-FY2028

Project	Years								
Name	Remaining	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26
Bond N196	1	\$12.07							
SRE L 0ap-203-03	11	\$8,078,37	\$7 864 80	\$7 651 22	\$7 437 64	\$7 224 06	\$7 010 48	\$6 796 91	\$6 583 33
Bond N204	2	\$278.50	\$278 /1	ψ1,001.22	Ψ1,+01.04	ψι,224.00	ψ7,010.40	φ0,7 50.5 Γ	φ0,000.00
SRE L 020-203-06	1	\$210.00 \$2123.32	ψ270.41						
SRE Loop-203-07	18	ΨZ, 120.02 \$6 080 35	\$6,876,16	\$6 771 08	\$6 667 80	\$6 563 61	\$6 150 13	¢6 355 24	\$6 251 06
SRF Loan 203 08	10	\$0,900.33 \$529.60	\$0,070.10 \$520.67	\$0,771.90 \$522.75	φ0,007.00 ¢517.92	\$0,505.01 \$506.01	φ0,459.45 ¢409.00	\$0,333.24 \$401.07	φ0,201.00 \$492.15
SRF LUAII-203-00	10	Φ000.00 Φ0 116 70	\$330.07 \$2,096,75	\$3022.75 \$3056.70	φ014.03	\$300.9T	\$ 4 90.99	φ491.0 <i>1</i>	φ 4 03.13
	3	ອວ,110.72 ຕ່ວ1 100 00	φ3,000.75 ¢19,626,70	\$3,000.79 ¢19,000.79	¢14 600 07	¢11 201 59	¢12.069.00	¢12 642 22	¢12 217 51
BAT DISTRICT		ΦΖΙ,ΙΖΟ.Ο Ο	\$10,030.79	\$10,002.74	\$14,020.27	\$14,294.30	\$13,900.90	\$13,043.22	\$13,317.34
Rond N106	1	¢21.97							
SPEL oop 202 02	11	¢10.950.22	¢10 224 20	¢10 000 01	¢10 201 20	¢17 750 15	¢17 024 11	\$16 700 06	¢16 194 02
Bond N204	2	\$19,009.00 \$694.66	¢694.29	φ10,009.24	φ10,204.20	φ17,759.15	φ17,234.11	φ10,709.00	φ10,104.0Z
SPEL oop 202.06	2	Φ004.00 ¢5 010 00	Φ 004.43						
SRF L001-203-00	10	€47,460,00	¢16 002 00	¢16 647 70	¢16 201 66	¢10 105 54	¢15 070 40	¢15 600 00	¢15 267 10
SRF Loan-203-07	18	\$17,160.02	\$16,903.90	\$16,647.78	\$16,391.66	\$10,135.54	\$15,879.42	\$15,623.30	\$15,367.19
SRF Loan-203-08	18	\$1,324.05	\$1,304.58	\$1,285.10	\$1,265.63	\$1,246.16	\$1,226.69	\$1,207.22	\$1,187.75
SRF Loan-203-09	3	\$7,661.93	\$7,588.27	\$7,514.60			****	* *** 5 ** 5 *	* ~~ ~ ~~ ~
BELMONI		\$51,941.69	\$45,815.47	\$44,256.72	\$35,941.49	\$35,140.85	\$34,340.22	\$33,539.58	\$32,738.96
Rond N106	1	¢129.94							
	11	φ130.04 Φρο δοδ ορ	¢04 040 04	¢01 001 70	¢70 644 74	¢77 257 65		¢70 700 F0	¢70 406 47
SRF LUan-203-03	11	φο0,000.90 Φο 000.00	\$04,∠10.04 ¢0.004.04	\$01,931.70	\$79,044.71	\$77,357.05	\$75,070.59	\$72,763.53	\$70,496.47
	2	\$Z,98Z.3Z	\$2,981.34						
SRF Loan-203-06	1	\$ZZ,737.24 \$74,747.00	ФТ О СОО ОС	ФТО ГАС СА	Ф Т 4 400 0 7	Ф 70 ООГ ОО	¢co 4co co	ФСО ОГ 4 ОГ	#CC 000 44
SRF Loan-203-07	18	\$74,747.89	\$73,632.26	\$72,516.61	\$71,400.97	\$70,285.33	\$69,169.69	\$68,054.05	\$66,938.41
SRF Loan-203-08	18	\$5,767.46	\$5,682.64	\$5,597.83	\$5,513.01	\$5,428.20	\$5,343.38	\$5,258.57	\$5,173.75
SRF Loan-203-09	3	\$33,374.86	\$33,053.98	\$32,733.09		A450 074 40	A440 500 00	A4 40 000 45	* 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FRANKLIN		\$226,254.51	\$199,569.06	\$192,779.31	\$156,558.69	\$153,071.18	\$149,583.66	\$146,096.15	\$142,608.63
Bond N196	1	\$66.99							
SPE L 020-203-03	11	\$00.33 \$41 738 26	\$40 634 77	\$30 531 20	\$38 127 80	\$37 324 31	\$36 220 83	¢35 117 3/	\$34,013,86
Bond N204	1 I 2	φ41,730.20 ¢1 /29 0/	¢40,034.77 ¢1 /29 /7	\$39,551.29	¢30,427.00	φ37,324.31	\$30,220.03	φ 3 5,117.34	φ 3 4,013.00
SPEL oop 202.06	2	\$1,430.94 \$10.070.50	φ1,430.47						
SRF L001-203-00	10	\$10,970.00 \$26.065.12	¢25 526 95	¢24 000 56	¢24 450 20	¢22.011.00	¢00 070 70	¢22 025 12	¢22 207 12
SRF L0an-203-07	10	\$30,000.13 \$0,700.74	\$30,020.00 €0,744,00	\$34,900.00 \$2,700.00	\$34,430.28 \$2,650.07	\$33,911.99 \$2,040.05	\$33,373.70 \$2,579.40	\$32,033.42 \$2,033.42	\$32,297.13 \$2,400.00
SRF Loan-203-08	18	\$2,782.74	\$2,741.82	\$2,700.90	\$2,659.97	\$2,619.05	\$2,578.13	\$2,537.21	\$2,496.28
SRF Loan-203-09	3	\$16,103.05	\$15,948.22	\$15,793.40			¢70.470.00	* 70 400 07	* ~~ ~~ ~~ ~~
GILFORD		\$109,165.61	\$96,290.13	\$93,014.15	\$75,538.05	\$73,855.35	\$72,172.66	\$70,489.97	\$68,807.27
Bond N196	1	¢252.83							
SPEL oop 202 02	11	¢157 529 25	¢152 262 /9	¢1/0 109 72	¢145.022.05	¢140.960.10	¢126 704 42	¢122 520 66	¢100 274 00
Bond N204	2	φ137,320.23 ¢5 /20 9/	¢5 420 05	φ149,190.7Z	ψ140,000.90	ψ140,009.19	ψ130,70 4.4 2	ψ152,559.00	φ120,374.0 3
SPEL con 202 06	2	\$0,400.04 \$44 404 70	¢0,429.00						
SRF LUan-203-00	10	Φ41,404.70 Φ420,440,70	¢404.005.00	¢400.050.00	¢400.000.04	¢407.000.44	¢405 050 00	¢400.007.00	¢404.005.00
SRF L0an-203-07	10	\$130,110.79 \$40,500,04	\$134,065.20	\$132,033.00	\$130,022.01	ΦO 004 01	\$120,900.0Z	\$123,927.22 \$0.575.04	\$121,695.03
SRF Loan-203-08	18	\$10,502.61	\$10,348.16	\$10,193.71	\$10,039.26	\$9,884.81	\$9,730.36	\$9,575.91	\$9,421.40
SRF Loan-203-09	3	\$60,776.01	\$60,191.69	\$59,607.35			*		A050 004 00
LACONIA		\$412,012.11	\$363,417.58	\$351,053.38	\$285,095.22	\$278,744.41	\$272,393.60	\$266,042.79	\$259,691.98
Bond N196	1	\$42.14							
SRF Loan-203-03	11	\$26.254.71	\$25,560.58	\$24,866.45	\$24,172.33	\$23,478.20	\$22,784.07	\$22,089.94	\$21.395.82
Bond N204	2	\$905.14	\$904.84	. ,	. ,	,	. ,	. ,	. ,
SRF Loan-203-06	1	\$6.900.80	·····						
SRF Loan-203-07	18	\$22,686 13	\$22,347.53	\$22,008,93	\$21,670,34	\$21,331,74	\$20,993 14	\$20.654 54	\$20,315,94
SRF Loan-203-08	18	\$1,750.43	\$1,724.69	\$1,698,95	\$1,673,21	\$1,647 47	\$1.621.73	\$1,595,98	\$1,570.24
SRF Loan-203-09	3	\$10.129.34	\$10.031.95	\$9.934.56	\$.,c. 012 1	+.,	÷.,•=•	+.,000100	\$.,
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FY26	FY27	FY28
\$6,583.33	\$6,369.75	\$6,156.17
\$6,251.06 \$483.15	\$6,146.87 \$475.23	\$6,042.69 \$467.31
\$13,317.54	\$12,991.85	\$12,666.17
\$16,184.02	\$15,658.97	\$15,133.92
\$15,367.19 \$1,187.75	\$15,111.07 \$1,168.28	\$14,854.95 \$1,148.81
\$32,738.96	\$31,938.32	\$31,137.68
\$70,496.47	\$68,209.41	\$65,922.34
\$66,938.41 \$5,173.75	\$65,822.77 \$5,088.93	\$64,707.13 \$5,004.12
\$142,608.63	\$139,121.11	\$135,633.59
\$34,013.86	\$32,910.37	\$31,806.89
\$32,297.13 \$2,496.28	\$31,758.85 \$2,455.36	\$31,220.56 \$2,414.44
\$68,807.27	\$67,124.58	\$65,441.89
\$128,374.89	\$124,210.12	\$120,045.36
\$121,895.63 \$9.421.46	\$119,864.04 \$9.267.01	\$117,832.44 \$9,112.56
\$9,421.40 \$259,691.98	\$9,207.01 \$253,341.17	\$9,112.30 \$246,990.36
\$21,395.82	\$20,701.69	\$20,007.56
\$20,315.94 \$1,570.24	\$19,977.34 \$1,544.50	\$19,638.74 \$1,518.76

WRBP ESTIMATED DEBT SERVICE SCHEDULE FY2019-FY2028

Project Name	Years Remaining	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26
Nume	Konnannig		1 1 20			1120	1124	1120	1120
Bond N196	1	\$26.47							
SRF Loan-203-03 Bond N204	11 2	\$16,493.34 \$568.61	\$16,057.29 \$568.43	\$15,621.24	\$15,185.18	\$14,749.13	\$14,313.07	\$13,877.02	\$13,440.96
SRF Loan-203-06 SRF Loan-203-07	1 18	\$4,335.12 \$14.251.55	\$14.038.84	\$13.826.13	\$13.613.42	\$13.400.71	\$13.188.00	\$12.975.29	\$12.762.58
SRF Loan-203-08	18	\$1,099.63	\$1,083.46	\$1,067.29	\$1,051.12	\$1,034.95	\$1,018.78	\$1,002.61	\$986.43
SRF Loan-203-09	3	\$6,363.30	\$6,302.12	\$6,240.94					
Bond N196	1	\$9.18							
SRF Loan-203-03	11	\$5,722.18	\$5,570.90	\$5,419.61	\$5,268.33	\$5,117.04	\$4,965.76	\$4,814.47	\$4,663.19
Bond N204	2	\$197.27	\$197.21						
SRF Loan-203-06	1	\$1,504.02	• • • • • • • •	• ·	•	• · · · · · · · ·	• • • • • • •	• · · · · · · ·	• • • • • • • •
SRF Loan-203-07	18	\$4,944.41	\$4,870.62	\$4,796.82	\$4,723.02	\$4,649.22	\$4,575.43	\$4,501.63	\$4,427.83
SRF Loan-203-08 SRF Loan-203-09	18 3	\$381.51 \$2,207.68	\$375.89 \$2,186.45	\$370.28 \$2,165.22	\$364.67	\$359.06	\$353.45	\$347.84	\$342.23
Bond N196	1	\$29.17							
SRF Loan-203-03	11	\$18,176.34	\$17,695.79	\$17,215.24	\$16,734.69	\$16,254.14	\$15,773.59	\$15,293.04	\$14,812.49
Bond N204	2	\$626.64 ¢4 777 47	\$626.43						
SRF Loan-203-07	18	\$15,705,78	\$15,471,37	\$15,236,95	\$15,002,54	\$14,768,12	\$14,533,71	\$14,299,29	\$14,064,88
SRF Loan-203-08	18	\$1,211.84	\$1,194.02	\$1,176.20	\$1,158.38	\$1,140.55	\$1,122.73	\$1,104.91	\$1,087.09
SRF Loan-203-09	3	\$7,012.62	\$6,945.19	\$6,877.77					
Bond N196	1	\$12.97							
SRF Loan-203-03	11	\$8,078.37	\$7,864.80	\$7,651.22	\$7,437.64	\$7,224.06	\$7,010.48	\$6,796.91	\$6,583.33
Bond N204	2	\$278.50	\$278.41						
SRF L0an-203-06 SRF Loan-203-07	1	\$2,123.32 \$6.980.35	\$6 876 16	\$6 771 98	\$6 667 80	\$6 563 61	\$6 159 13	\$6 355 24	\$6 251 06
SRF Loan-203-08	18	\$538.60	\$530.67	\$522.75	\$514.83	\$506.91	\$498.99	\$491.07	\$483.15
SRF Loan-203-09	3	\$3,116.72	\$3,086.75	\$3,056.79		·			
DAS		\$21,128.83	\$18,636.79	\$18,002.74	\$14,620.27	\$14,294.58	\$13,968.90	\$13,643.22	\$13,317.54
TOTAL		\$1,015,944.40	\$896,119.42	\$865,631.62	\$702,991.22	\$687,331.28	\$671,671.40	\$656,011.49	\$640,351.60
TOTALS PER LOAN									
Bond N196	1	\$623.43							
SRF Loan-203-03	11	\$388,435.05	\$378,165.54	\$367,896.01	\$357,626.47	\$347,356.93	\$337,087.40	\$326,817.88	\$316,548.36
Bond N204	2	\$13,391.42	\$13,387.02						
SRF Loan-203-06	1	\$102,096.40	¢000.000.00	¢205 040 04	¢200.000.04	¢245 000 00	¢040 500 77	¢205 504 00	¢000 574 74
SKF LOAN-203-07	18 19	\$335,638.40 \$25,907,47	\$330,628.89 \$25,546,60	\$325,619.34 \$25,125,75	\$320,609.84 \$24,754.04	\$315,600.28 \$24,274,07	\$310,590.77 \$32,002,32	\$305,581.22 \$32,612,20	\$300,571.71 \$32,004 E2
SRF Loan-203-09	3	\$149,862.23	\$148,421.37	\$146,980.51	φ∠ 4 ,704.91	φ ∠ 4,314.01	\$ 20,990.20	φ 23,012.3 9	φ20,201.00
TOTAL		\$1,015,944.40	\$896,119.42	\$865,631.62	\$702,991.22	\$687,331.28	\$671,671.40	\$656,011.49	\$640,351.60

FY27	FY28				
\$13,004.91	\$12,568.85				
¢12 540 97	¢10 227 16				
\$970.26	\$954.09				
\$4,511,91	\$4,360,62				
¢ ,,	¢ .,000.02				
\$4.354.04	\$4.280.24				
\$336.62	\$331.01				
\$14,331.94	\$13,851.39				
÷)	¥ -,				
\$13,830.47	\$13,596.05				
\$1,009.27	\$1,051.45				
\$6,369.75	\$6,156.17				
\$6 1 <i>4</i> 6 87	\$6.042.60				
\$475.23	\$467.31				
\$12,991.85	\$12,666.17				
\$624,691.70	\$609,031.78				
¢200 070 00	¢000 000 07				
⊅3∪0,278.8 2	\$296,009.27				
\$295,562.19	\$290,552.65				
\$22,850.69	\$22,469.86				
\$624,691 70	\$609.031 78				
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