ID	Description	Estimated Cost	Listed Priority	Relative Priority	Notes/Comments
CIP-01	Northwest Transmission Main	\$ 8,950,000.00	1		
CIP-02	Bitterroot Loop Across Highway 312	\$ 3,470,000.00	3		
CIP-03	Bitterroot from Barrett to Mary	\$ 1,560,000.00	3		
CIP-04	Reservoir Management System	\$ 1,220,000.00	3		
CIP-05	Assess Condition of Existing Pipelines	\$ 185,000.00	2		
CIP-06	Aging Watermain Replacement Program	\$ 3,500,000.00	3		
CIP-07	Dedicated Fill Line for Lanier Reservoir	\$ 580,000.00	4		
CIP-08	Ultrasonic Meters at Hilltop & Lanier	\$ 110,000.00	4		
CIP-09	Update GIS Attributes	\$ 130,000.00	4		
CIP-10	GIS: Digital Workflows	\$ 130,000.00	4		
CIP-11	GIS Support/Data Workflow Maintenances	\$ 550,000.00	4		
CIP-12	Emergency Generation	\$ 65,000.00	4		

ID	Description	Estimated Cost	Listed Priority	Relative Priority	Notes/Comments
CIP-13	Equipment Storage Building	\$ 750,000.00	4		
CIP-14	Cold-Storage Yard at Ox Bow Tank Site	\$ 60,000.00	3		
CIP-15	Shop Addition with 2-Ton Bridge Crane	\$ 300,000.00	4		
CIP-16	5 Year Update to CIP	\$ 75,000.00	4		
CIP-17	Rate Study	\$ 120,000.00	3		
CIP-18	Comprehensive Water System PER	\$ 180,000.00	1		
CIP-19	Billings Bypass Planning Area Study	\$ 70,000.00	3		
CIP-20	Intake and WTP Due-Diligence Study	\$ 75,000.00	1		
CIP-21	4MG Ox Bow II Reservoir	\$ 6,320,000.00	5		

Overview								
		Number of Projects Identified	Estimated Project Costs					
	Total	21	\$	28,400,000.00				
ry	New Construction	14	\$	24,195,000.00				
Category	Replacement	1	\$	3,500,000.00				
Са	Report or Study	6	\$	705,000.00				

	"New Const	truction" Pr	oje	ects
		Number of Projects Identified	E	stimated Project Costs
	Total	14	\$	24,195,000.00
ry	Pipelines	5	\$	14,670,000.00
Category	Facilities	6	\$	8,715,000.00
Са	Administration	3	\$	810,000.00

	Projects by Priority								
		Number of Projects Identified	E	stimated Project Costs					
	Total	21	\$	28,400,000.00					
	1	3	\$	9,205,000.00					
evel	2	1	\$	185,000.00					
Priority Level	3	7	\$	10,000,000.00					
Prior	4	9	\$	2,690,000.00					
ł	5	1	\$	6,320,000.00					

		Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
ID	Priority	Description	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
CIP-01	1	Northwest Transmission Main	\$650,000.00	\$8,300,000.00								
CIP-02	3	Bitterroot Loop Across Highway 312						\$280,000.00	\$3,190,000.00			
CIP-03	3	Bitterroot from Barrett to Mary				\$130,000.00	\$1,430,000.00					
CIP-04	3	Reservoir Management System			\$100,000.00	\$1,120,000.00						
CIP-05	2	Assess Condition of Existing Pipelines			\$185,000.00							
CIP-06	3	Aging Watermain Replacement Program						\$700,000.00	\$700,000.00	\$700,000.00	\$700,000.00	\$700,000.00
CIP-07	4	Dedicated Fill Line for Lanier Reservoir					\$580,000.00					
CIP-08	4	Ultrasonic Meters at Hilltop & Lanier							\$110,000.00			
CIP-09	4	Update GIS Attributes					\$130,000.00					
CIP-10	4	GIS: Digital Workflows							\$130,000.00			
CIP-11	4	GIS Support/Data Workflow Maintenances									\$550,000.00	
CIP-12	4	Emergency Generation						\$65,000.00				
CIP-13	4	Equipment Storage Building					\$750,000.00					
CIP-14	3	Cold-Storage Yard at Ox Bow Tank Site			\$60,000.00							
CIP-15	4	Shop Addition with 2-Ton Bridge Crane								\$300,000.00		
CIP-16	4	5 Year Update to CIP						\$75,000.00				
CIP-17	3	Rate Study					\$120,000.00					
CIP-18	1	Comprehensive Water System PER	\$180,000.00									
CIP-19	3	Billings Bypass Planning Area Study			\$70,000.00							
CIP-20	1	Intake and WTP Due-Diligence Study		\$75,000.00								
CIP-21	5	4MG Ox Bow II Reservoir									\$270,000.00	\$6,050,000.00
		Totals	\$830,000.00	\$8,375,000.00	\$415,000.00	\$1,250,000.00	\$3,010,000.00	\$1,120,000.00	\$4,130,000.00	\$1,000,000.00	\$1,520,000.00	\$6,750,000.00

Priority Level	Priority Indicators
1	Project is needed now (Years 0-2) <b>AND</b> Project is necessary to eliminate a hazard to public health or safety <b>AND/OR</b> Project is necessary to meet state/federal requirements <b>AND/OR</b> Project is necessary to meet existing domestic demands or fire flows within current service area.
2	Project is needed now (Years 1-4) <b>AND/OR</b> Project is necessary to mitigate risk due to potential emergency situations or aging infrastructure <b>AND/OR</b> Project is necessary accommodate growth within the existing <u>service</u> area <b>AND/OR</b> Project is necessary to define priority or schedule of other potential Priority 1 or 2 projects.
3	Project is needed in the near future. (Years 3-7) Project is necessary to accommodate growth within the existing service <u>planning</u> area <b>AND/OR</b> Project is highly beneficial towards increasing system reliability or operability <b>AND/OR</b> Project is highly beneficial towards increasing operational efficiency and productivity.
4	Project will be needed in the foreseeable future. (Years 5-9) Project is proactive towards facilitating long-term growth of the District <b>AND/OR</b> Project is contingent upon results or implementation of preceding project <b>AND/OR</b> Project is highly desirable, but does not address an urgent need.
5	Project may be needed in the foreseeable future. (Years 8-10+) Project forecasted need is near the end of the 10-year planning horizon of this CIP <b>AND/OR</b> Project is proactive towards improving operational efficiency and productivity <b>AND/OR</b> Project priority should be revisited during subsequent update of CIP based on observed growth and/or aging infrastructure.

Project Title	Northwest Transm	nission Main		Project Catego	ากง	Pipelines			
Project ID	CIP-01			Subcategory	Jiy	Transmission			
Estimated Total Proj		\$8,950,000		Project Type		New Constru			
-		<i>48,930,000</i>		rioject type		New Constru	ction		
Project Description		- : : : : :	<b>.</b>	at a three and the later of			and lase 2.5		
		ain that will connect i		-					
		/ pressure zone. The	existing 24	4 <sup>°°</sup> transmission	n main was ins	talled to reed	the 12" main		
that gravity feeds the	e NW zone.								
Why this project nee	•		A K	12 The las	Stat and		712)		
Low pressure readin	-				Ci dala David	X To	de la d		
corner of the Lake H	-		El marti		Sindelar Road	Alex	ander Road		
the NE and St. Andre					Carlos 1		A State		
nearing capacity to s	upply the pressure :	zone.	the state	1 123	1 30 1		9		
			24.	CIP	1	4.50	ake Elmo Drive		
How this project will	benefit the District	:	ge -	. [		and	Elmo		
Completion of the N	W transmission mai	n loop will allow the	4	1	STATION IN	Arr.	ake		
Ox Bow tank to gravi	ty feed this area wi	th adequate			o le	~ 16"	- And - Land		
pressure. Fire flow se	cenarios will be met	. Pump stations		Participal )	al to	in at inte	and the second		
located in this area o	an be decommissio	ned due to adequate		C. Carrier Strengt		Carlos .	北口本西南		
gravity supply.			La Colora				663		
Consequences of del	aving or eliminating	this project:	See La						
Will require continue									
require activation of	-		Sieneagles Blvd						
, continue to see inad			eagl	the second s	CINCLE STR				
prohibit growth in th			Glen	THE	THE N		dil a		
supply and fire flow							And A		
Impact on annual op	· · ·			3-10			A Real		
Minimal impact; gen		f nineline and	1		JAN TON	XI 3-/1			
appurtenances. Com		• •							
nearly nullify the nee				Estir	nated Proje	ect Costs			
which will lead to rea		• •					Π		
which whilead to rea			FY	Engineering, Planning, Design	Construction	Other	Total		
Additional Comment	S:		2023	\$650,000			\$650,000		
Residential growth in		o exceed water	2023	\$800,000	\$7,500,000				
e e	•		2024	<b>2000,000</b>	<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>		58 300 000		
supply infrastructure	supply infrastructure capacity by 2024.						\$8,300,000		
supply infrastructure			2026				\$8,300,000		
supply infrastructure			2026				\$8,300,000		
supply infrastructure			2027				\$8,300,000		
		Driority Lough	2027 2028				\$8,300,000		
Potential Funding So	urces:	Priority Level:	2027 2028 2029				\$8,300,000		
Potential Funding So Drinking Water State	urces:	Priority Level:	2027 2028 2029 2030				\$8,300,000		
Potential Funding So	urces:	Priority Level:	2027 2028 2029 2030 2031				\$8,300,000		
Potential Funding So Drinking Water State (DWSRF)	urces: Revolving Fund	Priority Level:	2027 2028 2029 2030				\$8,300,000		
Potential Funding So Drinking Water State	urces: Revolving Fund	Priority Level:	2027 2028 2029 2030 2031	\$1,450,000	\$7,500,000		\$8,300,000 \$8,950,000		

Project Title	Bitterroot Loo	p Across Highway 312		Project Catego	ory	Pipelines	
Project ID	CIP-02			Subcategory		Transmission	
Estimated Total Pro		\$3,470,000		Project Type		New Construc	ction
Project Description				, ,,			
-	"/18" grid main t	o connect Bitterroot Driv	e to Grelo	k Lane across ł	Highway 312 a	long Bitterroo	t Drive and
	-	loop within the system.				-	
Why this project ne	eds to be comple	atad	15 and the second	+ · · OI 19.		and as the second	1 100 100
		complete a major loop	-	difference	- A.G. 1.		600
within the system.			No Di Ant				Dover Road
How this project wi	ll benefit the Dis	trict:	1	A data a fait		and the second	1.1.1
Better overall syste	m operability, wa	ater quality, and increase	DAL			Sector Al	A TA
capability for growt	h near the future	e Billings Bypass corridor.		Independent Road	76 30	MIL	1.50
Loop will also provi	de nearby existin	ng neighborhoods a			diaments -	CIP-12	
direct opportunity t	o be annexed int	to the CWDBH.			L THE	29 20	
			k Lan	AS S WOY 3		A D	Drive
Consequences of de	• •		Greick Lan	High		A sea	oot D
	-	ar new Billings Bypass	200	6 30.6	1 1	Sec.	tterr
corridor. Continued	dead-end of ma	jor grid main in	No.	C I I I	in the second	5.0	Bi
Bitterroot Drive.			//	the form	the state	-Tive states	E THE
			2				Sec. Pha
			- <u>S</u>	and all	and share the		
Impact on annual o			2	A Pas	1400		ARE STO
Minimal impact; ge	neral maintenan	ce of pipeline and				「新教」 新知 一部の	A CONTRACTOR
appurtenances.				Estir	nated Proje	ct Costs	
							1
			FY	Engineering, Planning, Design	Construction	Other	Total
Additional Commer	nts:		2023				
N/A			2024				
			2025				
			2026				
			2027				
			2028	\$280,000			\$280,000
Potential Funding S	ources:	Priority Level:	2029	\$290,000	\$2,900,000		\$3,190,000
Drinking Water Stat	e Revolving Fund	b	2030				
(DWSRF)			2031				
		3	2032				
			Total	\$570,000	\$2,900,000		\$3,470,000

Project Title Bitterroot from Bar	rett to Mary		Project Catego	ory	Pipelines	
Project ID CIP-03			Subcategory		Transmission	
Estimated Total Project Cost	\$1,560,000		Project Type		New Construe	ction
Project Description						
Construct a new 12" grid main along Bitte system.	erroot Drive betwee	n Barrett	Road and Mary	<sup>,</sup> Street, formii	ng a major loo	p within the
Why this project needs to be completed:		· 19-19-19-19-19-19-19-19-19-19-19-19-19-1	A STREET	A Part	and the second	SAMURY -
Project will remove dead ends and compl	ete a major loop			Mary St	reet	
within the system.						
How this project will benefit the District:						
Better overall system operability, water o				目的に不	CIP-19	
capability for growth near the future Billin						2
Loop will also provide nearby existing nei	-				Kara an	
direct opportunity to be annexed into the	e CWDBH.			the Barren	1 12	Drive
			计 一 一 一	同時 新聞 林林		Bitterroot Drive
Consequences of delaying or eliminating Lack of preparedness for growth near new		E PAR	The sector of	在是古法	and the second	Bitter
corridor. Continued dead-ends of grid ma Impact on annual operating budget:	ins in system.			Barrett	Road	
Minimal impact; general maintenance of	pipeline and	1000				
appurtenances.			Estir	nated Proje	ect Costs	
				-		Π
		FY	Engineering, Planning, Design	Construction	Other	Total
Additional Comments:		2023				
N/A		2024				
		2025				
		2026	\$130,000			\$130,000
		2027	\$130,000	\$1,300,000		\$1,430,000
		2028				
Potential Funding Sources:	Priority Level:	2029				
Drinking Water State Revolving Fund		2030				
(DWSRF)		2031				
	3	2032				
		Total	\$260,000	\$1,300,000		\$1,560,000

Project Title	Reservoir Mar	nagement System		Project Catego	orv	Facilities			
Project ID	CIP-04			Subcategory	,	Monitoring E	auinment		
Estimated Total Pro		\$1,220,000		Project Type		New Constru			
Project Description	-			, ,,					
Install a means to r and Hilltop).	emotely and auto	omatically monitor and b	oost chlor	ine levels in the	e existing wat	er storage rese	ervoirs (Lanier		
Why this project ne	eds to be comple	eted:			1 CV				
		ervoir will provide the				1 Ant			
system with addition		•	mar			the second second			
residuals, increased									
flexibility in periods		stem, operational							
nexionity in period:	s of low usage.		-				4 .		
How this project w	ill hanafit tha Dist	trict.				IAV			
How this project wi Reduce the risk of r			PL H	Same Contraction	Fo Fo Fo				
	•	manual chlorination	A PROPERTY				10		
			-						
procedures if low re	esiduais are deter	cted.			10 he				
			1A						
-				Carlos Carlos					
Consequences of d			51.0		I SER				
		als during low usage	and the second second						
-		jection failure in the	199	71	I diffe				
supplied water fror	n the City of Billir	igs.							
			/	1 1	-06	16			
			1			· ····································	1		
Impact on annual o	perating budget:		1	1.	· ·				
Power consumption	n will increase at	the reservoir facilities to	State and	and the second			A CONTRACTOR		
power the equipme	ent. Regular deliv	eries of bulk sodium		Ectin	nated Proje	act Costs			
hypochlorite will be	e required for inje	ection, as necessary.		LSUI	nateu Proje	Project Costs         uction       Other         Total			
			FY	Engineering, Planning, Design	Construction	Other	Total		
Additional Comme	nts		2023	<u> </u>					
This project is an ex		e existing recervoir	2023						
THIS PROIECUIS ALLE?	spansion upon th	C CAISCING I ESEI VUII		<u> </u>					
	m nrogram ac init	tiated at the Ox Row	2025				¢100.000		
management syste		tiated at the Ox Bow	2025	\$100,000	¢000.000	¢220.000	\$100,000		
management syste reservoir. A similar	configuration wil	l be used at the Hilltop	2026	\$100,000 \$100,000	\$800,000	\$220,000	\$100,000 \$1,120,000		
management syste reservoir. A similar and Lanier. This ma	configuration wil ay be completed a	l be used at the Hilltop as a single project, or	2026 2027		\$800,000	\$220,000			
management syste reservoir. A similar and Lanier. This ma broken up to instal	configuration wil ay be completed a l at Hilltop first, th	l be used at the Hilltop as a single project, or nen Lanier.	2026 2027 2028		\$800,000	\$220,000			
management syste reservoir. A similar and Lanier. This ma broken up to instal Potential Funding S	configuration wil ay be completed a l at Hilltop first, th Sources:	l be used at the Hilltop as a single project, or nen Lanier. Priority Level:	2026 2027 2028 2029		\$800,000	\$220,000			
management syste reservoir. A similar and Lanier. This ma broken up to instal Potential Funding S Drinking Water Sta	configuration wil ay be completed a l at Hilltop first, th Sources:	l be used at the Hilltop as a single project, or nen Lanier. Priority Level:	2026 2027 2028 2029 2030		\$800,000	\$220,000			
management syste reservoir. A similar and Lanier. This ma broken up to instal Potential Funding S	configuration wil ay be completed a l at Hilltop first, th Sources:	l be used at the Hilltop as a single project, or nen Lanier. Priority Level:	2026 2027 2028 2029 2030 2031		\$800,000	\$220,000			
management syste reservoir. A similar and Lanier. This ma broken up to instal Potential Funding S Drinking Water Sta	configuration wil ay be completed a l at Hilltop first, th Sources:	l be used at the Hilltop as a single project, or nen Lanier. Priority Level:	2026 2027 2028 2029 2030		\$800,000	\$220,000			

Project Title	Assess Condition o	f Existing Pipelines		Project Catego	orv	Pipelines	
Project ID	CIP-05	0 1		Subcategory	•	Distribution	
Estimated Total Proj	ect Cost	\$185,000		Project Type		Report or Stu	dy
Project Description							
Perform a targeted,	preliminary study of	a sampling of the Di	strict's ex	isting pipeline i	infrastructure t	to determine p	ootential
problem areas to gu	ide future improvem	ent scopes, schedule	es, and bu	dgets. Utlizatio	on of acoustic s	sensor technol	ogy (such as
	provide pipeline wal						
	s cement and metall						
	determine if specifi	c areas require addit	ional inve	estigation and/o	or results will a	aid in the deve	lopment of
an effective replace							
	eds to be completed:			1. 11. 11. 11. 11	APT ALL R		
	ughout the District h ent potential issues ir				A CONTRACTOR OF	New York	
How this project wil	l benefit the District:		27 1	MARY P			
	ine condition will pro	vide basis for	1				IN W
	y for replacement to		55021		at the state		序很
funds slated for ann	ual replacement.		Sector State		Se ( )-a	A Constant	
				1 Black		1006	VIN
Consequences of de	laying or eliminating	this project.	1 Shad A	NAMES OF A DESCRIPTION			1.47.5
-	conditions assessme			3	and a state of the		
	nes being replaced be	•	1			A Real	THE A
their useful life.			24	A CONTRACTOR			E MAR
					The Contraction		
				- London Long			Mar Land
Impact on annual op	erating budget:			() · · · ·		15 1 11	Mar and
No direct impact. Re	sults-driven pipe rep	lacement may	法律家		「「「ない」	Catholic Allen	
reduce future maint	enance costs.			Estin	nated Proje	oct Costs	
				LSUI			
			FY	Engineering, Planning, Design	Construction	Other	Total
Additional Commen	ts:		2023				
	ost is based on testin	g approximately	2024				
	hroughout the Distri		2025	\$55,000	\$130,000		\$185,000
			2026				
			2027				
			2028				
Potential Funding Sc	ources:	Priority Level:	2029				
Drinking Water State	e Revolving Fund		2030				
(DWSRF)		2	2031				
			2032				

Project TitleAging Watermain Replacement ProgramProject IDCIP-06		Replacement Program	Project Category	Pipelines
Project ID	CIP-06		Subcategory	Distribution
Estimated Total Proje	ct Cost	\$3,500,000	Project Type	Replacement
Project Description				

Implement a scheduled replacement program for asbestos-cement pipe throughout the District. The District's current GIS information depicts approximately 77,000 LF of AC pipe throughout the system; additional AC pipe length may be identified through a Atlas and GIS update. This project summary (and associated cost) assumes a 50-year program duration. This equates to 2-percent of the AC pipe to be replaced year-to-year.

### Why this project needs to be completed:

Aging asbestos-cement pipe located within the District is approaching the end of its useful life. Replacement of all AC pipe throughout the District will likely be required within the next 50 years.

### How this project will benefit the District:

By implementing a proactive replacement program, problematic pipe can be replaced gradually prior to major issues surfacing throughout the District.

Consequences of delaying or eliminating this project: Delaying implementation of this program will result in additional lengths of pipe that need to be replaced year to year prior to the end of the useful life. Future regulations for the replacement of AC pipe may become more restrictive; resulting in significant additional costs.

Impact on annual operating budget:

Due to the size and nature of this project, a yearly budget allocation should be assigned to this program.



# **Estimated Project Costs**

		FY	Engineering, Planning, Design	Construction	Other	Total
Additional Comments:		2023				
A yearly budget allocation will allow for q	uick action if	2024				
road/street construction presents an opp	ortunity for	2025				
concurrent replacement.		2026				
Note: The total estimated cost represents	5 years of	2027				
amortized replacement costs at ~1,500 LF	/year.	2028	\$100,000	\$600,000		\$700,000
Potential Funding Sources:	Priority Level:	2029	\$100,000	\$600,000		\$700,000
Drinking Water State Revolving Fund		2030	\$100,000	\$600,000		\$700,000
(DWSRF)		2031	\$100,000	\$600,000		\$700,000
	3	2032	\$100,000	\$600,000		\$700,000
	3	Total	\$500,000	\$3,000,000		\$3,500,000

Project Title	Dedicated Fill	Line for Lanier Reservoir		Project Catego	orv	Pipelines	
Project ID	CIP-07			Subcategory	,	Transmission	
Estimated Total Proj		\$580,000		Project Type		New Construe	ction
Project Description		+					
•	e. and check valv	e to the existing inlet line	e to the La	anier reservoir	to configure d	edicated fill a	nd discharge
		tion line from the Lanier I					
ensure water turnov	-						
Why this project nee	ds to be comple	eted:					
	•	turnover in the tank			LANII RESER		
and reduce issues as	sociated with wa	ater aging.			2M0		$\succ$
				New Dedicated			
				Fill Line and Riser		New 24" Ga	ate Valve
			(2) 24" B		- Ia		
How this project will	benefit the Dist	rict:	12" GA IN \	TE VALVE ALVE PIT		Ne	w Pump Station Suction Line
Project will help mai	ntain chlorine re	esiduals and reduce	PE EXITS VAL 75	VE PIT +48.62	PRESE		
water aging issues by	y ensuring prope	er flow through the tank.	" TAPPING TE			2" PVC_DRA	N N N
			BEND	75+39	Net		ăi Si
			24	x12" TEE			
			VC -	105+37	<b>12"</b> New 24	" Check Valve	
Consequences of del	aying or elimina	ting this project:	*			12"x 4	
Potential water aging	g and low chlorii	ne residuals if water in			24"x6" TE	BEND	SOLID SL
tank is not turned ov	ver adequately.		24" W 24" D.I.		HYDRANT 75+24	10"	-
			0.1.		24. W_	24" PVC 12"x 45" BEND	1-4-5
			$\setminus$		24"×90" B	END. 40" ASL DEND	
			\24"x11 ½ 74+05	BEND,	74+96.5 24" BF VALVE	12 x 45 BEND 106+45	
Impact on annual op	erating budget:				105+43	24"x24"SOLID SLEEV 106+5	51 /
Minimal impact; gen	eral maintenand	ce of additional valves		24	x12" TAPPING TEE W GATE VALVE *CLOSE	/ 12"x 6 <u>D*</u> 2~12" GATE V/	
and power consump	tion associated v	with heat tracing of		Ectin	nated Proje	oct Costs	
external fill line.				LSUI			
				Engineering,	Construction	Other	Total
			FY	Planning, Design			
Additional Comment	IS:		2023				
N/A			2024				
			2025				
			2026				
			2027	\$120,000	\$460,000		\$580,000
			2028				
Potential Funding So		Priority Level:	2029				
Drinking Water State	e Revolving Fund		2030				
		Л	2031				
		4	2032				
			Total	\$120,000	\$460,000		\$580,000

Project Title Ultrasonic Meters a Project ID CIP-08			Project Catego Subcategory	ory	Pipelines Monitoring Ed	
Estimated Total Project Cost	\$110,000		Project Type		New Construc	tion
Project Description		·				
Install non-invasive, ultrasonic flow mete	rs on the discharge i	ines for tr	ie Hilltop and l	anier reservoi	rs.	
Why this project needs to be completed:						and the second
Addition of flow meters will provide bette	er system	No.				
monitoring of outflows from the District's	existing reservoirs.		1 F			E/a
How this project will benefit the District:		and.				
Constant flow monitoring will provide val			Sec. 192		-	18
tracking information for future distributio					Per Mille	
improvements and verify system operation	JIIS.					
Consequences of delaying or eliminating	this project:				Banger W	** TFX-5000
Continued lack of meaningful data usage		1 Price				896.92 DALMIN
tanks.						V > +
Impact on annual operating budget:			ß			
Minimal impact; general maintenance of	system		1	1	and the second second	
components.			Estir	nated Proje	ect Costs	
		FY	Engineering, Planning, Design	Construction	Other	Total
Additional Comments:		2023				
N/A		2024				
		2025				
		2026				
		2027 2028				
Potential Funding Sources:	Priority Level:	2028	\$20,000	\$90,000		\$110,000
N/A		2020	+ = 0,000	÷20,000		<i>+</i> = <b>1</b> 0,000
		2031				
	4	2032				
		Total	\$20,000	\$90,000		\$110,000

Project Title			Project Category	Administration
Project ID	CIP-09		Subcategory	GIS
Estimated Total Proje	ect Cost	\$130,000	Project Type	New Construction
Project Description				

Add and update current infrastructure attributes in existing Geographical Information System (GIS) database. Information collected from as-built files and record drawing information as well as field observations should be collected and added to the GIS database. The current GIS as of 2021, is functioning using ArcGIS Online, (AGOL), a cloud-based Software as a Service, (SaaS) made by a software company named ESRI. The District is managing their GIS on their own AGOL organizational account.

Why this project needs to be completed:

Most of the attribute fields in the GIS database have no information in them. It is recommended the District gets the present attribute information fully completed and updated.

How this project will benefit the District:

Impact on annual operating budget:

likely be superseded by the efficiency savings.

Significantly increase the effectiveness of the existing GIS database into which the District has already dedicated substantial time and resources. Useful as a tool to manage the Districts' assets by tracking maintenance and inspection histories.

Consequences of delaying or eliminating this project: Only 50% of the effectiveness of the GIS will be realized.

Any estimated annual cost increases would be minimal and



# **Estimated Project Costs**

	FY
Additional Comments:	2023
Ongoing efforts are being made to update the spatial and attribute	2024
information of the infrastructure the District owns and manages using	2025
their SaaS solution coupled with an EOS Arrow Gold GPS. With these two	2026
technologies the District field operations staff can update, add, and	2020
remove data with high accuracy while the District's management staff can	
see the updates in real time on their desktop application.	2028

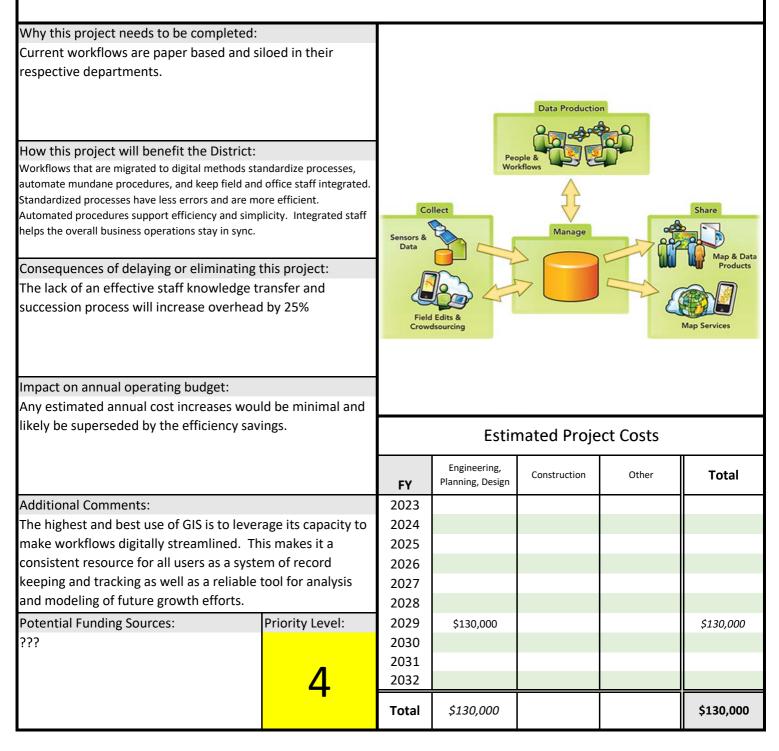
Potential Funding Sources:	Priority Level:
???	4

FY	Engineering, Planning, Design	Construction	Other	Total
2023				
2024				
2025				
2026				
2027	\$130,000			\$130,000
2028				
2029				
2030				
2031				
2032				
Total	\$130,000			\$130,000

					_
Estimated To	otal Project Cost	\$130,000	Project Type	New Construction	
Project ID	CIP-10		Subcategory	GIS	
Project Title	GIS: Digital V	Vorkflows	Project Category	Administration	

### **Project Description**

Identify, outline, and document current workflows and processes which support the District's existing asset management functions. Once compiled and verified the "paper" methods can become conceptual "digital" systems for asset management that can be then built using available AGOL application tools and functions in conjunction with the present GIS infrastructure, creating an Asset Management System, (AMS). Assets can begin to be managed with digital processes, maintenances or repairs can be tracked with task-based workflows, and inspections done with online forms.



Project Title GIS Support/Data V	Vorkflow Maintenand	ces	Project Catego	ory	Administratio	n
Project ID CIP-11			Subcategory		GIS	
Estimated Total Project Cost	\$550,000		Project Type		New Construc	tion
Project Description						
The District should have a long-term data	•					
GIS remains. Continuous data updates, te	echnical software sup	port, and	d workflow ma	intenances wo	ould be the foc	us.
Why this project needs to be completed:						
A long-term data maintenance solution de	pesn't currently					
exist.	ocsine currently					
			tems Go!			
How this project will benefit the District:			e Capabilities of ArcGl	s		
Having reliable support and maintenance	ensures the day-to-					
day operations of the District continue to	move consistently				iii <sup>i</sup> i 📷	
and dependably. The District can rely on	having skilled		System of Record Data Management and Integration		System of	Ingagement
professionals to keep them running smoo	thly and				and Dissen	nination
resourcefully.				- 744		
Consequences of delaying or eliminating				System of Insight		
The lack of long-term data maintenances				Analytics, Models, and Data Exploration		
undermine current investments and sabo	tage long-term					
success.						
Impact on annual operating budget: An estimated annual cost increases would	he minimal					
An estimated annual cost increases would	i be minimal.					
			Estin	nated Proje	ect Costs	
			Engineering,	Construction	Other	Total
		FY	Planning, Design	construction	other	TOtal
Additional Comments:		2023				
From daily routines to long-term planning a mature District the tools and information needed to operat	-	2024				
capacity. Looking to the future based on present d		2025				
recommended that the District take a comprehensi		2026				
approach to an intended goal of getting their work architected.	lows digitally	2027				
	Priority Level:	2028 2029				
Potential Funding Sources: ???		2029				
		2030	\$550,000			\$550,000
	Λ	2031	<i>2330,000</i>			<i>\$330,000</i>
	-+	Total	\$550,000			\$550,000
			,,			

Project Title	Emergency Ge	eneration		Project Catego	orv	Facilities	
Project ID	CIP-12			Subcategory	5. y	Equipment	
Estimated Total Pro		\$65,000		Project Type		New Construc	tion
Project Description		<i>\(\)</i>					
		ator capable of powering	the iocke	v pump at Haw	/thorne pump	station or Hillt	op booster
		event of grid power failu					
Why this project ne	•						
		oughout the District are					
necessary to maint							
-		A wide-sweeping and					
•	-	t in low pressures in the					
system in such an e				GENERAC	2		
How this project w				GENER			
Supplementing the					•		
		st extented power			P		
-		entially preventing		25			
		ow pressures in the	P		er sus		Λ
distribution system						à =0.0	
Consequences of d						All and and	200
	•	arios in the event of a				of Constant	L
large-scale power of	outage.						
Impact on annual o	pherating hudget:		-				
Impact on annual o Minimal impact. Re							
Minimal impact. Re	egular maintenan	ce on the equipment will	 				
	egular maintenan	ce on the equipment will		Estir	nated Proje	ect Costs	
Minimal impact. Re	egular maintenan	ce on the equipment will	FY	Estir Engineering, Planning, Design	nated Proje	Other	Total
Minimal impact. Re	egular maintenan additional fuel co	ce on the equipment will		Engineering,	-		Total
Minimal impact. Re be required. Minor	egular maintenan additional fuel co	ce on the equipment will	FY	Engineering,	-		Total
Minimal impact. Re be required. Minor Additional Comme	egular maintenan additional fuel co	ce on the equipment will	<b>FY</b> 2023	Engineering,	-		Total
Minimal impact. Re be required. Minor Additional Comme	egular maintenan additional fuel co	ce on the equipment will	<b>FY</b> 2023 2024 2025 2026	Engineering,	-		Total
Minimal impact. Re be required. Minor Additional Comme	egular maintenan additional fuel co	ce on the equipment will	<b>FY</b> 2023 2024 2025 2026 2027	Engineering,	-		Total
Minimal impact. Re be required. Minor Additional Comme N/A	egular maintenan additional fuel co nts:	ce on the equipment will osts.	<b>FY</b> 2023 2024 2025 2026 2027 2028	Engineering,	-		<b>Total</b>
Minimal impact. Re be required. Minor Additional Comme N/A Potential Funding S	egular maintenan additional fuel co nts: Sources:	ce on the equipment will osts. Priority Level:	<b>FY</b> 2023 2024 2025 2026 2027 2028 2029	Engineering,	-	Other	
Minimal impact. Re be required. Minor Additional Comme N/A	egular maintenan additional fuel co nts: Sources:	ce on the equipment will osts. Priority Level:	<b>FY</b> 2023 2024 2025 2026 2027 2028 2029 2030	Engineering,	-	Other	
Minimal impact. Re be required. Minor Additional Comme N/A Potential Funding S	egular maintenan additional fuel co nts: Sources:	ce on the equipment will osts. Priority Level:	<b>FY</b> 2023 2024 2025 2026 2027 2028 2029 2030 2031	Engineering,	-	Other	
Minimal impact. Re be required. Minor Additional Comme N/A Potential Funding S	egular maintenan additional fuel co nts: Sources:	ce on the equipment will osts. Priority Level:	<b>FY</b> 2023 2024 2025 2026 2027 2028 2029 2030	Engineering,	-	Other	

Project Title	Equipment Sto	orage Building		Project Catego	orv	Facilities	
Project ID	CIP-13	0 0		Subcategory	,	Buildings	
Estimated Total Pro		\$750,000		Project Type		New Constru	ction
Project Description	-	. ,		, ,,			
		t and material storage b	uilding on	the District's of	ffice property.	This will also	require
relocation of store	d materials to a n	ew offsite cold-storage a	rea.				
Why this project ne	eeds to be comple	eted:	-	AND STREET		Total Contraction	
Due to a limited nu facility, several veh the elements. As th	nicles are required	to be stored outside in	- FE			T.	
enclosed storage w	/ill be required fo	r diesel equipment and		Nr. Ma	0		
other materials.				- Vi Her	1		And the second
How this project w	ill benefit the Dist	trict:	3.5	A president	El	1 a	
Additional enclose	d storage will pro	vide additional security			7		
for the District's ve	hicles and stored	materials.			6		
Consequences of d	elaving or elimina	ating this project:		標		And the	121
Continued exposur faster degradation		o weather leading to of diesel engines.			CIP-14 Proposed Building Location		
Impact on annual c	operating budget:		1 SCiamona		PATHA TON	a colore to a second	and the
		and power consumption	200-				APPENDER.
costs for the additi	onal building.			Estir	nated Proje	ect Costs	
			FY	Engineering, Planning, Design	Construction	Other	Total
Additional Comme			2023				
Reference CIP-14 f	or information re	garding new cold-	2024				
storage location.			2025				
			2026				
			2027	\$100,000	\$650,000		\$750,000
			2028				
Potential Funding S	Sources:	Priority Level:	2029				
N/A			2030				
		Λ	2031 2032				
		4	Total	\$100,000	\$650,000		\$750,000

Project Title	Cold-Storage	Yard at Ox Bow Tank Site		Project Catego	orv	Facilities	
Project ID	CIP-14			Subcategory	,	Buildings	
Estimated Total Pr		\$60,000		Project Type		New Constru	iction
Project Description	-			, ,,			
		ound approximately 0.5 a	cres of th	ne existing Ox E	Bow Reservoir	site as a cold	-storage vard
for materials and e	equipment.						
Why this project n	eeds to be comple	eted:	2	The state of the second	and the set	ter an an an an an an an	and that a set
		cation will allow for		-	P		and the second second
		nain shop yard and free	Ten.		12 2 2	C. D. C.M.	No in the same
up area for additio	nal improvement	s at that location.			2	Hawthorne Pu	mp Station
How this project w	/ill benefit the Dis	trict:					8.
Moving long-term	stored materials f	to a secure, offsite	A State			Contraction of the second	
location will free u	p space and allow	for more productive	A AND				An and
use of the of main	facility property.					CIP-12 Prog	and a second
						Cold-Storag	
			E.S.				States 1
Consequences of c	lelaying or elimina	ating this project:		Ox Bow	Reservoir		
Continued storage	of materials at m	ain facility location					17 4
resulting in less sp	ace for improvem	ents.	4 100		-		
			State of		and the second s	and the second	
				and the second	mont		
			S.C.C.				
Impact on annual of	operating budget:		C. C.			And a second	and the second second
•		. Maintenance of yard	Site and			Carling and the second	and the second second
surfacing may be r	equired periodica	lly.	Estimated Project Costs				
			FY	Engineering, Planning, Design	Construction	Other	Total
Additional Comme	ents:		2023				
N/A			2024				
			2025	\$15,000	\$45,000		\$60,000
			2026				
			2027				
			2028				
Potential Funding	Sources:	Priority Level:	2028 2029				
Potential Funding : N/A	Sources:	Priority Level:	2028 2029 2030				
_	Sources:	Priority Level:	2028 2029				

	2-Ton Bridge Crane		Project Catego	bry	Facilities	
Project ID CIP-15			Subcategory		Buildings	
Estimated Total Project Cost	\$300,000		Project Type		New Construc	ction
Project Description						
Construct an addition onto the rear bay o	of the existing shop b	uilding ar	nd install an int	egral 2-ton br	idge crane for	material
handling purposes.						
Why this project needs to be completed:		_				-
The current final bay in the existing shop	building is nearly					
unusable for equipment or material store						
partition wall that separates the rest of the	-					
additional space to that bay will create a						
space for protected storage.					T	1 Martin Contractor
How this project will benefit the District:		1 to make				
Increased interior storage space will prote	ong the life of	-	A REAL			
equipment and materials, keep equipment	-	3		ELA		
winter months, and add a level of securit	-		0.2.0			
of vandalism and theft. Addition of a brid		1000				
to greater productivity.	ge cruite will lead					
Consequences of delaying or eliminating	this project:					
Continued sub-optimal use of interior spa						
existing shop.						
existing shop.		- dation		a la	11	la la
		and in case of	and the second		- All	
		5 4 M		· · · · · · · · · · · · · · · · · · ·	-	
		the sale	also the state		STREET, SUP	
Impact on annual operating budget:	o oroo may recult in	-				and the second
Minimal impact; increased heated storag slightly higher heating bills at the main fa	•	10000				
signity figher fleating bins at the filan fa	cinty.		Estir	nated Proje	ect Costs	
			Engineering,			
		FY	Planning, Design	Construction	Other	Total
Additional Comments:		2023				
N/A		2024				
		2025				
		2026				
		2027				
		2028				
Potential Funding Sources:	Priority Level:	2029				
N/A		2030	\$40,000	\$260,000		\$300,000
		2031				
	Δ	2032				
		Total	\$40,000	\$260,000		\$300,000

Project Title	5 Year Update	e to CIP		Project Catego	ory	Administratio	on
Project ID	CIP-16			Subcategory		CIP	
Estimated Total Pro		\$75,000		Project Type		Report or Stu	ıdv
Project Description	-	+					
		ital Improvements Plan (	CIP) to inc	orporate comp	leted projects	, priority adjus	stments,
budgetary consider	rations, changing	forecasts and growth pa	tterns, and	d evaluate pote	ential future pr	rojects.	
Why this project ne	eeds to be compl	eted:			1000	70-	
		t with regular updates to			ST .	Tr-	
	-	or projections regarding		AL CONTRACT		N/	2
the service area an	0 0			~		~~ ~	
			4	L.			7.
How this project wi	ill benefit the Dis	trict:					TE1
Maintaining a curre	ent and relevant	CIP will provide the					-
District's leadership	o with guidance f	or planning and	2-				
budgeting relative	to the District's g	rowth. A current CIP may					-
also be used, and s	ometimes requir	ed, in grant or loan				-	
funding application	15.			DIC		TOT	
Consequences of d	elaying or elimin	ating this project:		DIN	תוכ		
Consequences of de As CIP's age and du				DI	<b>71</b> 0	RIC'	
As CIP's age and du	ie to changing co		0	DI	210	10.	ŝ
As CIP's age and du potential for projec	ie to changing co cts to require pric	nditions, there is	0	5			L.S.
As CIP's age and du potential for projec become a sub-optii updates will provid	te to changing co cts to require prio mal solution to a le an opportunity	nditions, there is prity status change or	0*	5			HE
As CIP's age and du potential for projec become a sub-optii updates will provid	te to changing co cts to require prio mal solution to a le an opportunity	nditions, there is prity status change or given challenge. Regular	Ut	5			HIS
As CIP's age and du potential for projec become a sub-optii	te to changing co cts to require price mal solution to a le an opportunity d arises.	nditions, there is prity status change or given challenge. Regular to re-evaluate and add	0*	5			HIS
As CIP's age and du potential for projec become a sub-optii updates will provid projects as the nee	te to changing co cts to require price mal solution to a le an opportunity d arises.	nditions, there is prity status change or given challenge. Regular to re-evaluate and add	Ut	5	o i n Ings		HIS
As CIP's age and du potential for projec become a sub-optin updates will provid projects as the nee Impact on annual o	te to changing co cts to require price mal solution to a le an opportunity d arises.	nditions, there is prity status change or given challenge. Regular to re-evaluate and add		BILL		HEIG	HIS
As CIP's age and du potential for projec become a sub-optin updates will provid projects as the nee Impact on annual o	te to changing co cts to require price mal solution to a le an opportunity d arises.	nditions, there is prity status change or given challenge. Regular to re-evaluate and add	FY	BILL	INGS	HEIG	Total
As CIP's age and du potential for projec become a sub-optin updates will provid projects as the nee Impact on annual o No impact.	te to changing co cts to require prio mal solution to a le an opportunity d arises. operating budget:	nditions, there is prity status change or given challenge. Regular to re-evaluate and add	FY	Estin	MGS nated Proje	HTEIL ect Costs	HIP
As CIP's age and du potential for projec become a sub-optin updates will provid projects as the nee Impact on annual o No impact. Additional Commen	te to changing co cts to require prio mal solution to a le an opportunity d arises. operating budget:	nditions, there is prity status change or given challenge. Regular to re-evaluate and add	<b>FY</b> 2023	Estin	MGS nated Proje	HTEIL ect Costs	HIP
As CIP's age and du potential for projec become a sub-optin updates will provid projects as the nee Impact on annual o No impact. Additional Commen	te to changing co cts to require prio mal solution to a le an opportunity d arises. operating budget:	nditions, there is prity status change or given challenge. Regular to re-evaluate and add	<b>FY</b> 2023 2024	Estin	MGS nated Proje	HTEIL ect Costs	HIP
As CIP's age and du potential for projec become a sub-optin updates will provid projects as the nee Impact on annual o	te to changing co cts to require prio mal solution to a le an opportunity d arises. operating budget:	nditions, there is prity status change or given challenge. Regular to re-evaluate and add	<b>FY</b> 2023 2024 2025	Estin	MGS nated Proje	HTEIL ect Costs	HIP
As CIP's age and du potential for projec become a sub-optin updates will provid projects as the nee Impact on annual o No impact. Additional Commen	te to changing co cts to require prio mal solution to a le an opportunity d arises. operating budget:	nditions, there is prity status change or given challenge. Regular to re-evaluate and add	<b>FY</b> 2023 2024 2025 2026	Estin	MGS nated Proje	HTEIL ect Costs	HIP
As CIP's age and du potential for project become a sub-optin updates will provid projects as the nee Impact on annual o No impact.	te to changing co cts to require prio mal solution to a le an opportunity d arises. operating budget:	nditions, there is prity status change or given challenge. Regular to re-evaluate and add	<b>FY</b> 2023 2024 2025 2026 2027	Estir Engineering, Planning, Design	MGS nated Proje	HTEIL ect Costs	Total
As CIP's age and du potential for projec become a sub-optin updates will provid projects as the nee Impact on annual o No impact.	nts:	nditions, there is prity status change or given challenge. Regular to re-evaluate and add	<b>FY</b> 2023 2024 2025 2026 2027 2028	Estin	MGS nated Proje	HTEIL ect Costs	HIS
As CIP's age and du potential for project become a sub-optin updates will provid projects as the nee Impact on annual o No impact. Additional Commen N/A	te to changing co cts to require prio mal solution to a le an opportunity d arises. operating budget: nts:	nditions, there is prity status change or given challenge. Regular to re-evaluate and add : Priority Level:	<b>FY</b> 2023 2024 2025 2026 2027 2028 2029	Estir Engineering, Planning, Design	MGS nated Proje	HTEIL ect Costs	Total
As CIP's age and du potential for project become a sub-optin updates will provid projects as the nee Impact on annual o No impact. Additional Commen N/A	te to changing co cts to require prio mal solution to a le an opportunity d arises. operating budget: nts:	nditions, there is prity status change or given challenge. Regular to re-evaluate and add : Priority Level:	<b>FY</b> 2023 2024 2025 2026 2027 2028 2029 2030	Estir Engineering, Planning, Design	MGS nated Proje	HTEIL ect Costs	Total
As CIP's age and du potential for projec become a sub-optin updates will provid projects as the nee Impact on annual o No impact.	te to changing co cts to require prio mal solution to a le an opportunity d arises. operating budget: nts:	nditions, there is prity status change or given challenge. Regular to re-evaluate and add : Priority Level:	<b>FY</b> 2023 2024 2025 2026 2027 2028 2029	Estir Engineering, Planning, Design	MGS nated Proje	HTEIL ect Costs	Total

Project Title Rate St Project ID CIP-17	udy			Project Catego Subcategory	ory	Administration Rate Study	on
Estimated Total Project Cost		\$120,000		Project Type		Report or Stu	idv
Project Description		\$120,000		Floject Type		Report of Stu	uuy
Perform a comprehensive rat	e study and	evaluation as a 10-v	ear unda	te to the water	rate schedule	to address th	he true cost of
supplying water to the Distric		•	cai upua		Tate selicule		
Why this project needs to be	completed:					S.	
Aging water and service rates	without reg	gular evaluation or		-	V.	12-	
updates can result in operatir	ng at a finano	cial deficit due to		· U.		$\mathcal{N}$	
costs associated with purchas	sing water, n	naintaining the				~ ~ A	~
District's assets, and many ot	her consider	rations.		12			n
How this project will benefit t	he District:						TEL
Regular evaluation and updat	es to the wa	ater and service					-
rates will ensure that the Dist	rict's cost ba	asis for operation is	27				
covered and mitigate the risk	of required	major rate hikes					-
from year to year.				_		-	_
					U U D		1
Consequences of delaying or	eliminating	this project:		DIS	STR	LU'.	r
Consequences of delaying or The greater the time interval	-			DIS	STR	LU'.	Ľ
	between rat	te studies increases	0	DI	STR	LC'.	ľ
The greater the time interval the risk that operating costs a prevent potential growth and	between rat	te studies increases g covered and can	Ut	1			r A
The greater the time interval the risk that operating costs a	between rat	te studies increases g covered and can	0*	1			r His
The greater the time interval the risk that operating costs a prevent potential growth and	between rat	te studies increases g covered and can	Ut	1			I'
The greater the time interval the risk that operating costs a prevent potential growth and	between rat are not being lead to inac	te studies increases g covered and can	0*	1			HIS
The greater the time interval the risk that operating costs a prevent potential growth and existing residents.	between rat are not being lead to inac	te studies increases g covered and can	Ut	1	S'I'R Mgs		I'
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b	between rat are not being lead to inac	te studies increases g covered and can	0*	BILL		HEIG	HIS
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b	between rat are not being lead to inac	te studies increases g covered and can	EV	BILL	INGS	HEIG	Total
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b No impact.	between rat are not being lead to inac	te studies increases g covered and can	FY 2023	Estin	MGS nated Proje	HTEIN ect Costs	HIP
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b No impact. Additional Comments:	between rat are not being lead to inac	te studies increases g covered and can	2023	Estin	MGS nated Proje	HTEIN ect Costs	HIP
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b No impact.	between rat are not being lead to inac	te studies increases g covered and can	2023 2024	Estin	MGS nated Proje	HTEIN ect Costs	HIP
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b No impact. Additional Comments:	between rat are not being lead to inac	te studies increases g covered and can	2023 2024 2025	Estin	MGS nated Proje	HTEIN ect Costs	HIP
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b No impact. Additional Comments:	between rat are not being lead to inac	te studies increases g covered and can	2023 2024 2025 2026	Estir Engineering, Planning, Design	MGS nated Proje	HTEIN ect Costs	Total
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b No impact. Additional Comments:	between rat are not being lead to inac	te studies increases g covered and can	2023 2024 2025 2026 2027	Estin	MGS nated Proje	HTEIN ect Costs	HIP
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b No impact. Additional Comments: N/A	between rat are not being lead to inac	te studies increases g covered and can dequate service to	2023 2024 2025 2026 2027 2028	Estir Engineering, Planning, Design	MGS nated Proje	HTEIN ect Costs	Total
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b No impact. Additional Comments: N/A Potential Funding Sources:	between rat are not being lead to inac	te studies increases g covered and can	2023 2024 2025 2026 2027 2028 2029	Estir Engineering, Planning, Design	MGS nated Proje	HTEIN ect Costs	Total
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b No impact. Additional Comments: N/A	between rat are not being lead to inac	te studies increases g covered and can dequate service to	2023 2024 2025 2026 2027 2028 2029 2030	Estir Engineering, Planning, Design	MGS nated Proje	HTEIN ect Costs	Total
The greater the time interval the risk that operating costs a prevent potential growth and existing residents. Impact on annual operating b No impact. Additional Comments: N/A Potential Funding Sources:	between rat are not being lead to inac	te studies increases g covered and can dequate service to	2023 2024 2025 2026 2027 2028 2029	Estir Engineering, Planning, Design	MGS nated Proje	HTEIN ect Costs	Total

Project Title	Comprehen	sive Water System PER	Project Category	Administration				
Project ID	CIP-18		Subcategory	Overall System				
Estimated Total P	Project Cost	\$180,000	Project Type	Report or Study				
Project Description	on							
Complete a comp	orehensive Water	<sup>-</sup> System Preliminary Engineeri	ng Report (PER) that will mee	t the standards of the "Uniform				
Preliminary Engir	eering Report fo	r Montana Public Facility Proje	ects". The PER will be submitt	ed to the Montana Department of				
Natural Resources and Conservation (DNRC) water bureau and the Montana Department of Environmental Equality (DEQ)								
program for revie	w following com	pletion. The PER will identify p	projects to alleviate deficienci	es and maintenance needs for the				
aging infrastructu	ire within the CW	/DBH system. The document w	ill further evaluate the existing	ng system's capacity to				

accommodate future expansion/ongoing growth.

Why this project needs to be completed:

The previous comprehensive PER is outdated (completed in 2008). The 2008 document is no longer recognized by applicable grant/loan funding agencies and DEQ reviewing authority including the Municipal Facilities Exclusion (MFE) process.

How this project will benefit the District:

The PER will be used as a supporting document for each upcoming design project subject to DEQ and/or MFE review. The PER will also fulfill the requirements of applicable funding agencies (including SRF) that issue project grants and loans.

Consequences of delaying or eliminating this project: Possibility for reactive (instead of proactive) installations of necessary infrastructure and would have the potential to inflate the price of these installations due to reduced time to budget, plan, and/or take advantage of market situations or concurrent projects (e.g., street rehabs).

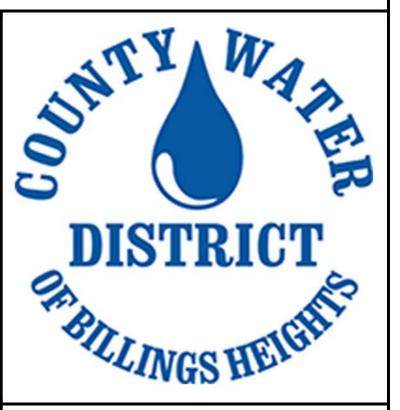
Impact on annual operating budget:

Without the completion of an updated PER, the District could be ineligible for preferred funding sources including grants, loan forgiveness and/or low interest loan options. Increased project borrowing costs and/or delays for upcoming projects could occur without the completed PER.

Additional Comments:

Additional supporting PER information will become necessary for agency review on upcoming projects.

Potential Funding Sources:	Priority Level:
???	1



## **Estimated Project Costs**

FY	Engineering, Planning, Design	Construction	Other	Total
2023	\$180,000			\$180,000
2024				
2025				
2026				
2027				
2028				
2029				
2030				
2031				
2032				
Total	\$180,000			\$180,000

Project Title	Billings Bypas	s Planning Area Study		Project Catego	ory	Administratio	on
Project ID	CIP-19			Subcategory		Overall Syste	m
Estimated Total Pro	ject Cost	\$70,000		Project Type		Report or Stu	dy
Project Description							
Perform a compreh	ensive study reg	arding the potential impa	ict of the i	new Billings By	pass corridor a	and projected	areas of
development on the	e planning area o	of the District including ex	kisting and	l future infrasti	ructure.		
·			-				
Why this project ne	eds to be compl	eted:	N. F.			· ·	AN TON
With the upcoming	completion of th	ne Billings Bypass	D. W.C.	MAN TONIO	A Start		A Are
connector between	the Heights and	Lockwood, this corridor	TAS			No real	AN AND
		wth in the near future.	The second		the state		R. K. A
		th will be necessary to			× C	ER	1.1.02
ensure adequate wa	ater service is pr	ovided.	13 22	- ml	and the first	p 1	SI
How this project wi	ll benefit the Dis	trict:		一個個	2. 2.	K. Confine	7
Preparedness for th	-		-	ANTERNA LES DE CARACTERIA		2/12	NO
impacts will allow tl	he District to pro	perly budget and plan	A CANADA		N. 1. 6)	as A	
required installation	ns to accommod	ate expansion along the	A SHEAT TOWN	A STATE OF STATE	The		
corridor and play ar	n integral part in	promoting growth in the	STATES IN		PRINTING ANTINA	and making	D is /
area.					Contraction of the second s		
Consequences of de	elaying or elimination	ating this project:					Star Sthe
Failure to properly p	olan for growth r	may lead to budgetary		STATISTICS.	Tom Car I		010/1-15
constraints and limi	t or delay servic	e to potential residential	THE REAL	and the second			I SISTAL
		ay inhibit growth of the					
corridor due to lack	of water service	25.			E PERSON	Loek	west
					E Carlos		
Impact on annual o	perating budget:	:	in sta	0	TRA-		ATT. N
No direct impact; he	owever, study re	sults and associated	And all family				A PRISE DECK BUTTON
		ures are likely to result in		Fctir	nated Proje	ort Costs	
long-term cost savir				LJUI			
infrastructure and a				Engineering,	Construction	Other	Total
accommodate futur			FY	Planning, Design			
Additional Commen	its:		2023				
N/A			2024				
			2025	\$70,000			\$70,000
			2026				
			2027				
			2028				
Potential Funding So	ources:	Priority Level:	2029				
???			2030				
			2031				
		3	2032				
			Total	\$70,000			\$70,000

Project Title Intake and V	WTP Due-Diligence Study		Project Catego	ory	Facilities	
Project ID CIP-20			Subcategory		WTP	
Estimated Total Project Cost	\$75,000		Project Type		Report or Stu	dy
Project Description						
Perform a due-diligence research	study to determine prelimi	nary feasi	blility of the Di	strict (or a dev	eloped Regior	nal Authority)
to construct a Yellowstone River i	ntake and water treatment	facility as	an alternate so	ource of potab	le water to su	pply the
District. This preliminary study wo	ould evaluate potential wate	er rights is	sues, potential	intake locatio	ons relative to	existing
WWTP discharge locations on the	Yellowstone, permitting real	quiremen	ts, etc. If deter	mined feasible	e, this project v	would
represent a precursor to a formal	Preliminary Engineering Re	port (PER)	) for the Water	Intake and Tr	eatment Facili	ty.
Why this project needs to be com	pleted:	and the second of			MARCH I	AT HARDY
Front-end research and planning i					See Ol	A MARCH
appropriate steps are taken and p	•	And I	省国家	Ser 15	1	2000
spending if project reaches a poin		Se alle		la Part	- C	
			The grade			1.10
			The second		A De	S.S.
How this project will benefit the D	District:	- Canal			L MAL	- Aller
This project represents the first st	ep towards the District	1			T AN	1 All Carles
augmenting its current water supp	oly or establishing				a solution	1.00
independence regarding its source	e of potable water.	In the second second			1.2.4.1/	Star D
		1		DARK		1 AN
		A Barrie		1 s		and the first
	and the second			1 all and a	antur.	
Consequences of delaying or elim		- H		0	2 Sul	
Continued reliance on City of Billin						
Continued reliance on City of Billin		B				
		A AN				
Continued reliance on City of Billin						
Continued reliance on City of Billin for the foreseeable future.	ngs supplied potable water	A N				
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge	ngs supplied potable water	L. L				
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr	ngs supplied potable water et: oject will not have an					
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge	ngs supplied potable water et: oject will not have an		Estin	nated Proje	ect Costs	
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr	ngs supplied potable water et: oject will not have an		Engineering,	inated Projet	et Costs	Total
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr impact on the annual operating bu	ngs supplied potable water et: oject will not have an	<b>FY</b> 2022		-		Total
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr impact on the annual operating bu Additional Comments:	ngs supplied potable water et: oject will not have an	2023	Engineering, Planning, Design	-		
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr impact on the annual operating bu	ngs supplied potable water et: oject will not have an	2023 2024	Engineering,	-		Тоtal \$75,000
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr impact on the annual operating budge Additional Comments:	ngs supplied potable water et: oject will not have an	2023 2024 2025	Engineering, Planning, Design	-		
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr impact on the annual operating budge Additional Comments:	ngs supplied potable water et: oject will not have an	2023 2024 2025 2026	Engineering, Planning, Design	-		
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr impact on the annual operating budge Additional Comments:	ngs supplied potable water et: oject will not have an	2023 2024 2025 2026 2027	Engineering, Planning, Design	-		
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr impact on the annual operating budge Additional Comments: N/A	ngs supplied potable water et: oject will not have an udget.	2023 2024 2025 2026 2027 2028	Engineering, Planning, Design	-		
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr impact on the annual operating budge Additional Comments:	ngs supplied potable water et: oject will not have an	2023 2024 2025 2026 2027	Engineering, Planning, Design	-		
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr impact on the annual operating budge Additional Comments: N/A	ngs supplied potable water et: oject will not have an udget.	2023 2024 2025 2026 2027 2028 2029	Engineering, Planning, Design	-		
Continued reliance on City of Billin for the foreseeable future. Impact on annual operating budge This portion of the overarching pr impact on the annual operating budge Additional Comments: N/A	ngs supplied potable water et: oject will not have an udget.	2023 2024 2025 2026 2027 2028 2029 2030	Engineering, Planning, Design	-		

Project Title 4MG Ox Bow II Res	ervoir		Project Catego	ory	Facilities	
Project ID CIP-21			Subcategory		Reservoirs	
Estimated Total Project Cost	\$6,320,000		Project Type		New Construc	ction
Project Description						
Installation of a new 4MG storage reserve system.	oir near the existing	Ox Bow r	eservoir to sup	plement stora	ge capacity th	roughout the
Why this project needs to be completed:		1000				
Experienced and continued growth in the of the District will require additional stora maintain domestic demand, fire flow, and pressures.	age capacity to					
How this project will benefit the District:		-	Contraction of the local division of the loc			and the second
Additional and redundant storage will acc	commodate	-			Bar /	
demand growth, provide adequate fire flo	ow/emergency				11/1-	
storage, and increase reliability of the sys	tem overall.					
Consequences of delaying or eliminating	this project:				and an of the second	
Will prohibit growth within the District du	e to insufficient	-				J.
supply and ability to meet domestic dema	ands, fire flow, and	and	The states	and the second second		
emergency storage capacity.		and a service	No. Contraction	and the second	Constant of the second	and the second
		The same			President A	Paramatin
				Service State	the second second	A PARTY SALE
Impact on annual operating budget:	s and gaparal	111	A NEW YORK		ATTACK.	
Minimal impact; periodic tank inspection maintenance will be required.	s and general			A CONTRACTOR OF A DESCRIPTION OF A DESCRIPANTE A DESCRIPANTE A DESCRIPANTE A DESCRIPTION OF A DESCRIPTION OF	and an and the second	and the first of the second
maintenance win be required.			Estir	nated Proje	ect Costs	
		FY	Engineering, Planning, Design	Construction	Other	Total
Additional Comments:		2023				
N/A		2024				
		2025				
		2026				
		2027				
Detected Funding Courses	Dui author Laura I.	2028				
Potential Funding Sources: Drinking Water State Revolving Fund	Priority Level:	2029 2030				
(DWSRF)		2030	\$270,000			\$270,000
()	<mark>ب</mark>	2031	\$550,000	\$5,500,000		\$6,050,000
	5	Total	\$820,000	\$5,500,000		\$6,320,000