CITY OF LINCOLN - WASTEWATER COLLECTION SYSTEM MASTER PLAN

Appendix F Public Facilities Element (PFE), 2006 Wastewater Constraints Analysis, and Fiscal Year 2017 – 2018 Wastewater CIPS May 16, 2018

Appendix F PUBLIC FACILITIES ELEMENT (PFE), 2006 **WASTEWATER CONSTRAINTS ANALYSIS, AND** FISCAL YEAR 2017 - 2018 WASTEWATER CIPS

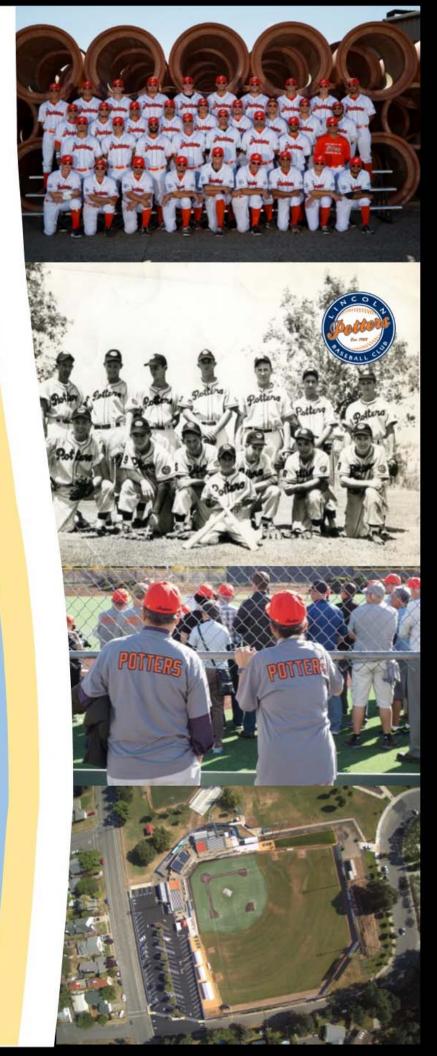
(Included on CD)



FY 2017-2018 BUDGET







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No. 1984		General Fund						Landscape & Lighting													Federal Aviation Grants
1	Total Projected Cash balance FYE 2016/17	\$831,004	Ш	44		Ш			Ш		170,949		Ш		Ш	\$6,048,889	++		++	6 (\$5,678,256)	\$47,585
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The control of the co	Total CIP Available Funds	-		\perp			0,	\$3,646,920	-		-	_		\perp		\$7,182,288		+	_	4 (\$5,736,659)	\$247,785
The control of the co	TOTAL 2017/18 CIP REQUESTS			\perp			0,	\$82,000								\$1,405,000					\rightarrow
Figure 19	Projected Ending Fund Balance FYE 2017/18				+		•	\$3,564,920			118,949					\$5,777,288	-			(\$5,757,959	\$47,585
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Particular Par		511,000																			
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1	Chief Jimenez Park Phase 3	1																	000/01		
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1	Auburn Rav Bridge Repl. @ McBean Park Dr	1					32,116			247,884											
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Fine the particular and the part	Street Resurfacing - Pilot: HDMB	1	704,400																		
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A Mode Rd Adverser Rd Intelligence Rd I	PGE R20A Alley between 5th and 6th St Ininer Parkway Bridge Landscaning	1		45,000																	
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The placement of	East Joiner Parkway Widening Project	1																			
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Aviater 1 Aviater 1 <	PCWA Ophir WTP Phase 1 - Source Water	1			5,000,000																
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Upgrades telephoto adultation to the properties telephoto adultation telephoto adultation telephoto adultation telephoto adultation tel	NID RWSP Phase 1 - Source Water	1																			
1 Degrades 2 Degra	WASTEWATER																				
Upgrades Publication 135,000 Stem Rehab 1 250,000 At Starton 1 400,000 At Starton 1 400,000 At Starton 2 6,000 At Starton 2 6,000	WWTRF Expansion Phase 1	1															000 000	1,540,000			
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1 2 2 2 2 2 2 2 2 2	Existing Sewer Collection System Rehab	1															and form				
1 40,000 1 400,0	WWTRF Solar Project	1																			
Elebrab 1	Silver Spur Sanitary Sewer Lift Station WMATRE Reclaimed Water Storage																400,000	1 280 000			
	orage ne Rehab	1 1															62,000	1,200,000			
		2																305,000			

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TOTAL	18,265,000	405,000	540,000	160,000	35,000	400,000	2,830,000	637,000	305,000	13,000,000	96,577,000
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FUTURE YEARS		1	1	40,000	•	1	1	•	1	11,500,000 \$	815,000 \$ 4,022,000 \$ 8,115,000 \$ 11,295,000 \$ 790,000 \$ 11,540,000 \$ 36,577,000
	\$	\$	\$	\$	\$	\$	\$	\$	\$	❖	↔
SCAL YEAR 20/21	·	'	•	40,000	·	•	•	'	•	750,000 \$	790,000
Y FIS	\$	δ.	\$	\$		❖	❖			\$	\$
FISCAL YEAR FISCAL YEAR FISCAL YEAR 19/20 20/21	5,950,000 \$ 10,505,000	10	10	\$ 40,000	10	10	10	10		\$ 750,000	3 11,295,000
R	00	1	1		1	1	00	\$ 00	1	1	30
SCAL YEA	5,950,00			40,000			1,280,000 \$ 1,550,000	575,000			8,115,00
FE FE	\$	\$	\$ (- ج	٠ -	\$ (\$	\$	\$	δ.	\$
CAL YEAF 17/18	270,000 \$ 1,540,000	185,000	250,000			400,000	1,280,000	62,000	305,000		4,022,000
FIS	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	Ş
PRIOR YEAR	270,000	220,000	290,000	'	35,000	•	•	'	•	•	815,000
PRI	\$	Ş	\$	\$	\$	\$	\$	\$	\$	\$	Ş
PROJECT TITLE	WWTRF Expansion Phase 1	Nicolaus Road Pump Station Upgrades	Markham Ravine Sewer Rehabilitation	Existing Sewer Collection System Rehab	WWTRF Solar Project	Silver Spur Sanitary Sewer Lift Station	WWTRF Reclaimed Water Storage	Aviation & Venture Sewer Line Rehab	Phase 2 Reclamation	WWTRF Expansion Phase 2	TOTAL
СІЬ#	411	395	396	302	407	425	426	427	300	TBD	
CbbC K ^{gu} k	1	2	3	4	2	9	7	8	6	10	



	Prioriti			
Project Title:	Depart. Score	Final Rank		Project No.
WWTRF Expansion Phase 1	92	1		411
Department/Division/Contact		Relevant Grap	hic Detail	
City Engineer / Ray Leftwich		Relevant Grap	ilic Detail	A STATE OF THE PARTY OF THE PAR
only Engineer / may zeromon				
Project Duration		100		100
Fiscal Year Start = 17/18				TAX A
Fiscal Year End = 19/20				
		4-27		
Project Location or Request	厦 信念			
WWTRF	3	601	HIRE!	A STATE OF THE STA
	i i i		DE LOS	
Strategic Goal Relevance			T	VI-DER
Infrastructure, Economic Development			EL C	
	Ti-	. 79		M. C. L.
		300	1	
Legislative/Regulatory; Health & Safety; Council Priority		DESTRUCTION SAID	-	The same
Plant requires immediate expansion in order to facilitate continued			(1)	WEST.
development.		202	Section 1	
		n and	- OF	
				and districtions
Project Description/Business Justification				
Expand WWTRF capacity by 1.2mgd with addition of Oxidation Ditch	and related components. Next expa	nsion will include addi	tion of a Clari	fier and related
components for additional 0.9mgd of capacity. WWTRF is nearing fac				
				•
Ducinatia Datum on Investment				
Project's Return on Investment				
Operating Cost Impacts of Project/Request				
Operation of WWTRF is funded through monthly utility bills of rate pa	ayers. Capital cost of project will be	funded through payme	ent of Connec	tion Fees from
builders and developers as a requirement of Building Permits and Fin	al Maps.			
Project's Impact on Other Departments				
Project Linkages/Synergies				

☐ Bid Numbers ✓ E	ngineer's	Estimate		Quote		Best Judg	geme	ent	☐ Gu	esstimate/#ers	Rolled Forward		
CADITAL COSTS													
CAPITAL COSTS Expenditures		Prior Year		FY17/18		FY18/19		FY19/20		FY20/21	Future Years		Total
Project/Const. Managemen		noi reai	\$	140,000	\$	750,000	\$	1,400,000		120/21	Tuture rears	\$	2,290,000
Design/Engineering	Ś	270,000	\$	1,400,000	\$	200,000	\$	105,000				\$	1,975,000
Permitting		· ·				,		,				\$	· · · · -
Land/ROW/Acquisition												\$	-
Construction					\$	5,000,000	\$	9,000,000				\$	14,000,000
Equipment												\$	-
Other (Specify)												\$	-
Total Expenditu	res \$	270,000	\$	1,540,000	\$	5,950,000	\$	10,505,000	\$	-	\$ -	\$	18,265,000
Funding Sources	F	Prior Year		FY17/18		FY18/19		FY19/20		FY20/21	Future Years		Total
Fund: 725 Waste Water PFE	_	270,000	\$	1,540,000	\$	200,000	\$	105,000		,		\$	2,115,000
Fund: SRF or Muni Bond					\$	5,750,000	\$	10,400,000				\$	16,150,000
Fund:												\$	-
Fund:												\$	-
Fund:												\$	-
Total Funding Sour	ces \$	270,000	\$	1,540,000	\$	5,950,000	\$	10,505,000	\$	-	\$ -	\$	18,265,000
ODERATING COSTS													
OPERATING COSTS													
Expenditures		Prior Year		FY17/18		FY18/19		FY19/20		FY20/21	Future Years		Total
On-Going Operations		nor rear		1117/10		1110/15		1113/110		120,21	Tuture rears	\$	-
Maintenance												\$	_
Personnel Costs												\$	-
Other (Specify)												\$	-
												\$	-
Total Expenditu	res \$	-	\$	-	\$	-	\$	-	\$	-	\$ -	\$	-
Funding Sources	F	Prior Year		FY17/18		FY18/19		FY19/20		FY20/21	Future Years	۲.	Total
Fund:												\$	-
Fund: Fund:												\$	-
Total Funding Sour	cos ¢		\$		\$		\$		\$	_	\$ -	\$	
Total Funding Sour	-cs >		Ş	-	Ş	-	ş	-	Ş		-	ş	-
Capital &/or Operating Costs D	etail (ıғ	Necessary)											
	1												



Project Title:	Depart. Score Final Rank	Project No.
Nicolaus Road Pump Station Upgrades	2	395
Department/Division/Contact	Relevant Graphic Detail	
City Engineer/Ray Leftwich	Relevant Graphic Detail	
Project Duration	100 100 100 100 100 100 100 100 100 100	
Fiscal Year Start = 16/17		
Fiscal Year End = 17/18		
Project Location or Request		S STEEL
Nicolaus Road Sanitary Sewer Pump Station		
Strategic Goal Relevance		
Infrastructure		
Lastidation (Danislatorius Haalib O. C. C. C. 1121 11		
Legislative/Regulatory; Health & Safety; Council Priority		
Sewer System Management Plan (SSMP)		1
	The same of the sa	
run continuously, at risk without redundancy. This project will provid	nd operates at maximum capacity during rain events, causing the currer le a redundant 60 hp pump within the existing large wet well with asso eliability in the event the existing 60hp duty pump should fail. Additior	ciated piping and
Project's Return on Investment		
·	eate significant sewer demands, and reduce potential of pump station	ailure.
Operating Cost Impacts of Project/Request Increase pump life with improved telemetry and reduce Public Service	res emergency call outs. Potential annual savings of \$25,000/year	
interease pump me with improved telemetry and reduce rubble service	ness emergency can outs. I occitate annual savings of \$25,000/year.	
Project's Impact on Other Departments		
	aus Road Sanitary Sewer Pump Station and improve the ability of Econ	omic Development to
recruit businesses to the Air Center.		
Project Linkages/Synergies		
Markham Ravine Sewer Rehabilitation.		

Strength of Projection(s) & Detail				
Bid Numbers	Engineer's Estimate	Quote	✓ Best Judgement	Guesstimate/#ers Rolled Forward
Project budget is based on best jud	lgement and approximate	costs associated v	with similar projects.	

Ex	enditures	Pr	ior Year	FY17/18	FY18/19		FY19/20	FY20/21	Future Y	ears	Total
	Project/Const Management	\$	10,000	\$ 10,000							\$ 20,000
	Design/Engineering	\$	60,000	\$ 25,000							\$ 85,000
	Permitting										\$ -
	Land/ROW/Acquisition										\$ -
	Construction	\$	150,000	\$ 150,000							\$ 300,000
	Equipment										\$ -
	Other (Specify)										\$ -
	Total Expenditures	\$	220,000	\$ 185,000	\$ -	\Box	\$ -	\$ -	\$	-	\$ 405,000

Fun	ding Sources	Pr	ior Year	FY17/18	FY18/	/19	FY	19/20	FY20	/21	Futu	re Years	Total
F	und: 721 WW Capital Rep.	\$	220,000	\$ 185,000									\$ 405,000
F	-und:												\$ -
F	und:												\$ -
F	-und:												\$ -
F	⁻ und:												\$ -
	Total Funding Sources	\$	220,000	\$ 185,000	\$	-	\$	-	\$	-	\$	-	\$ 405,000

OPERATING COSTS

Expenditures	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
On-Going Operations							\$ -
Maintenance							\$ -
Personnel Costs							\$ -
Other (Specify)							\$ -
							\$ -
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Fund:							\$ -
Fund:							
Fund:							
Total Funding Sources	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Capital &/or Operating Costs Detail (If Necessary)

Operating costs for the Nicolaus Road Sanitary Sewer Pump Station will be lowered by improving system reliability, which reduces emergency call-outs, and with improved cycle times of pump operation that results in improved pump life.



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	Lino	ال	ш

Project Title:

Markham Ravine Sewer Rehabilitation

Department/Division/Contact

City Engineer/Ray Leftwich

Project Duration

Fiscal Year Start = 16/17 Fiscal Year End = 17/18

Project Location or Request

Investigate, evaluate and repair I&I (inflow and infiltration) in the Markham Ravine Sewer area.

Strategic Goal Relevance

Infrastructure and Economic Development

Legislative/Regulatory; Health & Safety; Council Priority

Prioritization

Depart. Score	Final Rank
	3

Project No.

396



Project Description/Business Justification

During storm events, the Nicolaus Road Sanitary Sewer Pump Station operates at full capacity, which leaves little availability for commercial and industrial connection capacity in the Lincoln Air Center Business Park. It is known by Public Services that there is an I&I problem in the Markham Ravine Trunk Sewer collection system that serves the Lincoln Air Center, Teal Hollow and Lakeside area. This project will investigate, through closed circuit television inspection service (CCTV), exact location and nature of the I&I. The project will establish provisional access to the ravine areas and specific manhole and pipeline rehabilitation for known system deficiencies identified to date. The CCTV investigations will enable extended improvements upon their discovery. Additional capacity within both the collection system and RWWTF through reduction of I&I.

Project's Return on Investment

Ability to recruit commercial/industrial uses to the Air Center that create significant sewer demands.

Operating Cost Impacts of Project/Request

Reduced the operating costs for both the Nicolaus Road Sanitary Sewer Pump Station and RWWTF by reducing the volume of water processed and treated. Prolonged service life of equipment and pumps and reduced power and chemical costs.

Project's Impact on Other Departments

This project will reduce the costs associated with operating the Nicolaus Road Sanitary Sewer Pump Station and improve the ability of Economic Development to recruit businesses to the Air Center.

Project Linkages/Synergies

Nicolaus Road Pump Station Improvements

Strength of Projection(s) & Detail										
Bid Numbers	Engineer's	Quote	✓ Best Judgement	Guesstimate/#ers Rolled						
Project budget is based on best judget be refined.	gement. The nature a	nd extent of I&I is no	ot currently known. As better	information is developed, project cost estimates will						

Expenditures	Pı	ior Year	FY17/18	FY18/19		FY19/20	FY20/	21	Futur	e Years	Total
Project/Const Management	\$	10,000	\$ 10,000								\$ 20,000
Design/Engineering	\$	80,000	\$ 40,000								\$ 120,000
Permitting											\$ -
Land/ROW/Acquisition											\$ -
Construction	\$	200,000	\$ 200,000								\$ 400,000
Equipment											\$ -
Other (Specify)											\$ -
Total Expenditures	\$	290,000	\$ 250,000	\$	-	\$ -	\$	-	\$	-	\$ 540,000

Fu	nding Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
	Fund: 720 WW Operations	\$ 90,000						\$ 90,000
	Fund: 721 WW Capital Rep.	\$ 200,000	\$ 250,000					\$ 450,000
								\$ -
								\$ -
	Fund:							\$ -
	Total Funding Sources	\$ 290,000	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 540,000

OPERATING COSTS

Expenditures	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
On-Going Operations							\$ -
Maintenance							\$ -
Personnel Costs							\$ -
Other (Specify)							\$ -
							\$ -
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Fund:							\$ -
Fund:							
Fund:							
Total Funding Source	s \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Capital &/or Operating Costs Detail (If Necessary)

Operating costs for the Nicolaus Road Sanitary Sewer Pump Station will be lowered by reducing the amount of I&I in the collection system that flows to the pump station and RWWTF. Annual savings of \$10,000/year are anticipated.



Project Linkages/Synergies

	Prioritization	
Project Title:	Depart. Score Final Rank	Project No.
Existing Sewer Collection System Rehab	4	302
Department/Division/Contact	Relevant Graphic Detail	
City Engineer/Araceli Cazarez		
Project Duration Fiscal Year Start = 7/1/17 Fiscal Year End = 7/1/18 Project Location or Request	topload tap at 12oloc	K_
Replace old and deteriorated sewer mains, manholes and other		
related appurtenances.		
Strategic Goal Relevance		
Infrastructure		
Legislative/Regulatory; Health & Safety; Council Priority		1/4255
Project Description/Business Justification Improvements include manhole rehabilitation and pipeline repairs.	These repairs would be based on condition assessments and CCTV inspec	tions performed as
	Sewer Master Plan. Elimination of inflow and infiltration (I&I) is a primal TRF and allow the City to meet all the State and Federal statues related to	
For Fiscal Year 2017/18 the sewer rehab projects will be included as Upgrades and Markham Ravine Sewer Rehab.	s part of the following CIP projects currently under wastewater: Nicolaus	Road Pump Station
Project's Return on Investment The return on the investment will depend on the location of the project.	ject and the condition of the sewer appurtenances. Factors that will imp	act the calculation
include the number of service calls to the project area and the reduc	•	uct the calculation
, , , , , , , , , , , , , , , , , , ,		
Operating Cost Impacts of Project/Request		
Operating cost would decrease with the new assets installed.		
Project's Impact on Other Departments		
It is anticipated the project will provide a benefit to the operators in provide a benefit to safety of the public by reducing the number of p	the Public Services department with a decrease in maintenance/repair to potential sanitary sewer overflows.	me. It will also

Project is linked to the Water Master Plan, Sewer Master Plan and the Sewer System Management Plan in order to address utility deficiencies.

Strength of Projection(s) 8	k Detail				
Bid Numbers	Engineer's Estimate	Quote	Best Judgement	✓ Guesstimate/#ers Rolled Forward	
Costs are shown within each	ch sewer project respectively	. E. 9th & E. 5th s	street projects		

Ex	enditures	Prior Year	FY17/18	F	Y18/19	FY19/20	FY20/21	F	uture Years	Total
	Project/Const Management									
	Design/Engineering			\$	5,000	\$ 5,000	\$ 5,000	\$	5,000	\$ 20,000
	Permitting									
	Land/ROW/Acquisition									
	Construction			\$	35,000	\$ 35,000	\$ 35,000	\$	35,000	\$ 140,000
	Equipment									
	Other (Specify)									
	Total Expenditures	\$ -		\$	40,000	\$ 40,000	\$ 40,000	\$	40,000	\$ 160,000

Fundi	ng Sources	Prior Year	F	Y17/18	FY18/19	FY19/20	FY20/21	F	uture Years	Total
Fu	nd: 721 WW Capital Rep.		\$	-	\$ 40,000	\$ 40,000	\$ 40,000	\$	40,000	\$ 160,000
Fu	nd:									\$ -
Fu	nd:									\$ -
Fu	nd:									\$ -
Fu	nd:									\$ -
	Total Funding Sources	\$ -	\$	-	\$ 40,000	\$ 40,000	\$ 40,000	\$	40,000	\$ 160,000

OPERATING COSTS

Expenditures	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
On-Going Operations							\$ -
Maintenance							\$ -
Personnel Costs							\$ -
Other (Specify)							\$ -
							\$ -
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Fund:							\$ -
Fund:							\$ -
Fund:							\$ -
Total Funding Sources	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

	,		
Capital &	/or Operating	Costs Detail	lit Necessarv

Operating costs will be reduced depending on the severity of the existing sewer appurtenances to be replaced.	



Project Title:	_	Depart. Score	Final Rank		Project No.
WWTRF Solar Project			5		407
Department/Division/Contact	1	,	Relevant	Graphic Detail	
Public Services / WWTRF / Jennifer Hanson		:			
Project Duration		!			
Fiscal Year Start =		i			
Fiscal Year End =		!			
		<u> </u>			
Project Location or Request		i			
WWTRF		!			
		<u> </u>			
		i			
		:			
Strategic Goal Relevance	1	!			
Infrastructure		i			
		:			
		<u> </u>			
Legislative/Regulatory; Health & Safety; Council Priority		i			
regulatory, reduct a surety, council rionty		:			
		!			
		i			
	•				
Project Description/Business Justification					
Construct Solar Farm under PG&Es Option R Program to offset energy			ould be a ground	mounted tracking s	system. Starr is
evaluating financing options for the project and the options for com	pieting a design bi	ulia.			
Project's Return on Investment					
The simple payback for this project is 10.0 years.					
					_
Operating Cost Impacts of Project/Request					
Maintenance of the panels will be required.					
Project's Impact on Other Departments					
Project Linkages/Synergies					
Froject Linkages/ Synergies					

Strength of Projection(s) & Detail

Bid Numbers	✓ Engineer's Estimate	Quote	Best Judgment	Guesstimate/#ers Rolled Forward	

CAPITAL COSTS

Ехр	enditures	Pric	or Year	FΥ	/17/18	F	Y18/19	F	Y19/20	F	Y20/21	Fu	iture Years	Total
	Project/Const Management													\$ -
	Design/Engineering	\$	35,000											\$ 35,000
	Permitting													\$ -
	Land/ROW/Acquisition													\$ -
	Construction													\$ -
	Equipment													\$ -
	Debt Service			\$	624,705	\$	624,705	\$	624,705	\$	624,705	\$	8,121,165	\$ 10,619,985
	Total Expenditures	\$	35,000	\$	624,705	\$	624,705	\$	624,705	\$	624,705	\$	8,121,165	\$ 10,654,985

Fund	ing Sources	Pri	or Year	FY17/18	FY18/19	FY19/20	FY20/21	F	uture Years	Total
Fu	ınd: 720 WW Operations	\$	35,000	\$ 624,705	\$ 624,705	\$ 624,705	\$ 624,705	\$	8,121,165	\$ 10,654,985
Fι	ınd:									\$ -
Fu	ınd:									\$ -
Fι	ınd:									\$ -
Fu	ınd:									\$ -
	Total Funding Sources	\$	35,000	\$ 624,705	\$ 624,705	\$ 624,705	\$ 624,705	\$	8,121,165	\$ 10,654,985

OPERATING COSTS

Expenditures	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
On-Going Operations		\$ (624,705)	\$ (624,705)	\$ (624,705)	\$ (624,705)	\$ (8,121,165)	\$ (10,619,985)
Maintenance							\$ -
Personnel Costs							\$ -
Utility Reduction							\$ -
							\$ -
Total Expenditures	\$ -	\$ (624,705)	\$ (624,705)	\$ (624,705)	\$ (624,705)	\$ (8,121,165)	\$ (10,619,985)

Funding Sources	Prior Year	FY17/18		FY18/19	FY19/20	FY20/21	F	uture Years	Total
Fund: 720 WW Operations		\$ (624,7	05) \$	(624,705)	\$ (624,705)	\$ (624,705)	\$	(8,121,165)	\$ (10,619,985)
Fund:									
Fund:									
Total Funding Sources	\$ -	\$ (624,	05) \$	(624,705)	\$ (624,705)	\$ (624,705)	\$	(8,121,165)	\$ (10,619,985)

Capital &/or Operating Costs Detail (If Necessary)

The most efficient proposal is that the estimated construction costs of \$7.3 million would be financed with a 17-year term. The net result after payment of the debt service and the reduction in utility costs is a savings for each year.



	Priori	itization	
Project Title:	Depart. Score	Final Rank	Project No.
Silver Spur Sanitary Sewer Lift Station	72	6	425
Department/Division/Contact		Relevant Graphic De	tail
City Engineer / Roland Neufeld			
Project Duration			
Fiscal Year Start = 17/18			77
Fiscal Year End = 17/18			74
<u> </u>			1355 A
Project Location or Request			TELL
Silver Spur Circle			1
Strategic Goal Relevance			
Infrastructure, and Health & Safety	156,480		
initiastructure, una riculti a surcey		A STATE OF THE STA	
Legislative/Regulatory; Health & Safety; Council Priority			
Health & Safety		Text of the second	
Project Description/Business Justification			
The existing sanitary sewer lift station that services the residents alon	g Silver Spur Circle is old, requires	constant maintenance and th	e wet well is in imminent
threat of collapsing. The entire sanitary sewer lift station including we	t well, pump, electrical cabinet, p	ipes and valves need to be rep	laced to ensure the safe
functionality of the neighborhood sewer system.			
Project's Return on Investment			
A decrease in maintenance costs and the elimination of the need for e	emergency repairs to fix a wet wel	ll collapse that is likely in the n	ear future.
Operating Cost Impacts of Project/Request			
Decrease in maintenance costs.			
Decrease in maintenance costs.			
Project's Impact on Other Departments			
Decrease in maintenance costs.			
Project Linkages/Synergies			
N/A			

Strength of Projection(s) & Deta	il						
Bid Numbers	Engineer's Estimate	Quote	✓ Best	Judgment	Guesstima	te/#ers Rolled Forward	
Quote for equipment provided by	designer/manuf	acturer Romtec.					
CAPITAL COSTS							
Expenditures	Prior Year	FY17/18	FY18/19	FY19/20	FY19/21	Future Years	Total
Project/Const. Management		\$ 50,000					\$ 50,000
Design/Engineering							\$ -
Permitting							\$ -
Land/ROW/Acquisition							\$ -
Construction		\$ 200,000					\$ 200,000
Equipment		\$ 150,000					\$ 150,000
Other (Specify)							\$ -
Total Expenditure	s \$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000
						*	
Funding Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY19/21	Future Years	 Total
Fund: 721 WW Non-Oper		\$ 400,000	\$ -				\$ 400,000
Fund:							\$ -
Fund:							\$ -
Fund:							\$ -
Fund:							\$ -
Total Funding Source	s \$ -	\$ 400,000	\$ -	\$ -	\$ -	\$ -	\$ 400,000
OPERATING COSTS							
Expenditures	Prior Year	FY17/18	FY18/19	FY19/20	FY19/21	Future Years	Total
On-Going Operations							\$ -
Maintenance							\$ -
Personnel Costs							\$ -
Other (Specify)							\$ -
							\$ -
Total Expenditure	s \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Funding Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY19/21	Future Years	Total
Fund:	THO Team		10/15	1.12/20	1.13/21	Tutare rears	\$ - Total
Fund:							\$
Fund:							\$ -
Total Funding Source	s \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	- <u>_ </u>	ı '		1.	1.	1 '	

Capital &/or Operating Costs Detail (If Necessary)



Project Title:		Depart. Score	Final Rank	_	Project No.
WWTRF Reclaimed Water Storage			7		426
Department/Division/Contact			Relevant C	Graphic Detail	
Public Services/WWTRF/Jennifer Hansen					
Project Duration					
Fiscal Year Start =					
Fiscal Year End =					
Project Location or Request					
Wastewater Treatment and Reclamation Facility (WWTRF) - 1245					
Fiddyment Road					
·		i			
Strategic Goal Relevance					
Infrastructure					
Lastination (Danislation Hamilton Conference Constitution					
Legislative/Regulatory; Health & Safety; Council Priority					
Regulatory					
Project Description/Business Justification					
Once flows from the Regional Sewer project are started, there will be	a reclaimed wat	er storage deficien	cy at the WWTRF.	The current WWT	RF NPDES permit
includes temperature limitations for the Auburn Ravine, which can lin	nit our ability to o	lischarge to the ra	vine during specific	times of the year	. During periods
when the effluent is too warm to discharge, we are required to either	r transmit the rec	laimed water to a	permitted user or	store the reclaime	d water in storage
ponds. In order to maximize the sale of reclaimed water and to aid in	the operation of	the plant it is nece	ssary to increase r	eclaimed water st	orage at the
WWTRF. Estimated basin volume is 100 million gallons.					
Project's Return on Investment					
It is anticipated that the return on investment will \$14,150 per year (2	10% per vear ove	r a 20 year period)			
	, ,	, , ,			
Operating Cost Impacts of Project/Request					
There will be monthly maintenance cost associated with the software	and hardware.				
Project's Impact on Other Departments					
Project Linkages/Synergies					
The project is consistent with improving and protecting the City's infr	actructuro				
The project is consistent with improving and protecting the City's init	astructul E.				

Strengt	h of	Pro	iection	s	1 & D	etail
Jucingo		FIU	IECTIOIII	١э.	, & ,	ctan

Bid Numbers	Engineer's Estimate	Quote	✓ Best Judgement	Guesstimate/#ers Rolled Forward

Expendit	tures	Prior Year	FY17/18	FY18/19	FY19/20	F	Y20/21	Future Years	Total
Proje	ect/Const Management		\$ 30,000	\$ 50,000					\$ 80,000
Desig	gn/Engineering		\$ 250,000						\$ 250,000
Perm	nitting								\$ -
Land,	/ROW/Acquisition								\$ -
Cons	truction		\$ 1,000,000	\$ 1,500,000					\$ 2,500,000
Equip	oment								\$ -
Othe	r (Specify)								\$ -
	Total Expenditures	\$ -	\$ 1,280,000	\$ 1,550,000	\$ -	\$	-	\$ -	\$ 2,830,000

Funding	g Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Fut	ure Years	Total
Fun	d: 725 Wastewater PFE		\$ 1,280,000	\$ 1,550,000	\$ -	\$ -			\$ 2,830,000
Fun	d:					\$ -			\$ -
Fun	d:								\$ -
Fun	d:								\$ -
Fun	d:								\$ -
	Total Funding Sources	\$ -	\$ 1,280,000	\$ 1,550,000	\$ -	\$ -	\$	-	\$ 2,830,000

OPERATING COSTS

Expenditures	Prior Year	FY17/18	FY18/19	FY	19/20	-	FY20/21	Future Years	Total
On-Going Operations				\$	10,000	\$	10,000		\$ 20,000
Maintenance						\$	5,000	\$ 60,000	\$ 65,000
Personnel Costs									\$ -
Other (Specify)									\$ -
									\$ -
Total Expenditures	\$ -	\$ -	\$ -	\$	10,000	\$	15,000	\$ 60,000	\$ 85,000

Funding Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Fund: 720 WW Operations			\$ -	\$ 10,000	\$ 15,000	\$ 60,000	\$ 85,000
Fund:	 						
Fund:							
Total Funding Sources	\$ -	\$ -	\$ -	\$ 10,000	\$ 15,000	\$ 60,000	\$ 85,000

Capital &/or Operating Costs Detail (If Necessary)

Future operating costs could be reduced if the WWTRF implements solar. Future year cost is based on anticipation of replacing the basins pump on a 15 year life cycle.



Project Title:	Depart. Score Final Rank	Project No.
Aviation & Venture Sewer Line Rehab	65 8	427
Department/Division/Contact	Relevant Graphic Detail	
City Engineer / Araceli Cazarez		
Project Duration Fiscal Year Start = 17/18 Fiscal Year End = 18/19		
Project Location or Request	TO THE PARTY OF TH	
Replacement of approximately 400 Linear feet of sewer line near the Aviation Blvd. and Venture Dr. intersection.		
Strategic Goal Relevance Infrastructure		a la
Legislative/Regulatory; Health & Safety; Council Priority		
Council Priority and Health & Safety	A PART OF THE PART	
	ently City operators go the the site and pump out sewage that is remain ty and surrounding area to establish potential solutions to the non-pro	
Project's Return on Investment		
	nping the system at \$1,100/hour (includes 2 operators plus equipment be significantly reduced if the impact from the economic development prations severely limits the amount of flows that can be served.	
Operating Cost Impacts of Project/Request		
Project's Impact on Other Departments		
	is project reducing the workload for the operators and respective equ	pment.
Project Linkages/Synergies		

Stre	Strength of Projection(s) & Detail												
	Bid Numbers	Engineer's Estimate	Quote	✓ Best Judgement	Guesstimate/#ers Rolled Forward								

Expenditures	Prior Year	F	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Project/Const. Mgmt		\$	12,000	\$ 75,000				
Design/Engineering		\$	50,000					
Permitting								
Land/ROW/Acquisition								
Construction				\$ 500,000				
Equipment								
Other (Specify)								
Total Expenditures	\$ -	\$	62,000	\$ 575,000	\$ -	\$ -	\$ -	\$ -

Fund	ng Sources	Prior Year	F	FY17/18	FY18/19	FY19/2	0	FY20/21	Future Years	Total
Fu	ınd: 721 WW Capital Rep.		\$	62,000	\$ 575,000					\$ 637,000
Fι	ınd:									\$ -
Fu	ınd:									\$ -
Fι	ınd:									\$ -
Fu	ınd:									\$ -
	Total Funding Sources	\$ -	\$	62,000	\$ 575,000	\$	-	\$.	\$ -	\$ 637,000

OPERATING COSTS

Expenditures	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
On-Going Operations							\$ -
Maintenance							\$ -
Personnel Costs							\$ -
Other (Specify)							\$ -
							\$ -
Total Expenditures	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Fund:							\$ -
Fund:							\$ -
Fund:							\$ -
Total Funding Sources	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Capital &	/or O	perating	Costs	Detail	(If Necessary

Capital &/ Of Operating Costs Detail (if Necessary)
The project is not expected to create additional operating cost to public services.



		Prioriti	ization		
Project Title:		Depart. Score	Final Rank	_	Project No.
Phase 2 Reclamation		55	9	[300
Department/Division/Contact	Ì		Relevant	Graphic Detail	
City Engineer/Ray Leftwich		4	1000	是 经	
Project Duration			1 Marin	Joiner Park	三克克 1
Fiscal Year Start = 17/18		THE PARTY	一个		· · · · · · · · · · · · · · · · · · ·
Fiscal Year End = 17/18		ET TELEVISION	一种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种种	THE STATE OF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
<u> </u>			THE RESERVE		Part of the
Project Location or Request			A STATE OF	THE PROPERTY OF	PARTY L
Extend reclaimed water for irrigation to Pete Singer Park and Joiner			经现代的		TO PARKETO AND
Park.					STREET, STREET
		THE REAL PROPERTY.	THE RESERVE	新沙里	
0 0		137		理、自然	多智力
Strategic Goal Relevance		State Control		· 14 / 14 / 14 / 14 / 14 / 14 / 14 / 14	2. 自2010
Infrastructure				The state of	
		THE LOCAL PROPERTY OF THE PARTY		The same	
			Machad	o Park	The state of the s
Legislative/Regulatory; Health & Safety; Council Priority				() 体化上出	
				AT PARTY	El la company
			S. C. See	A PORTE	
				Peter Si	nger Park
		11		ALL SHAPE OF THE S	TAIDCA
Project Description/Business Justification				(0)	
Installation of (1) approximately 510 LF of 6" reclaimed water main o		_	_		
reclaimed water main on Downing Circle to serve Machado Park irrig Joiner Park irrigation. By irrigating these three parks with reclaimed v					
This reduction offsets 0.8% of the City's total domestic water use, and	-		-		· · · · · · · · · · · · · · · · · · ·
This reduction onsets 6.6% of the city's total domestic water use, and	a assists in meeti	ing the city 5 water	reduction godis i	nanaatea by the st	atc.
Project's Return on Investment	20.000 71	1.0			1 625 000 6
20 million gallons of domestic irrigation use costs approximately \$10	00,000. The cost to	o deliver reclaimed	water for public	use is anticipated t	o be \$35,000, for an
annual savings of \$65,000 to the Water Operations Fund.					
Operating Cost Impacts of Project/Request					
2,290 LF of reclaimed main will depreciate at a rate of approximately	\$5,000/yr.				
Project's Impact on Other Departments					
The project will create additional pipe infrastructure for Public Servic	es to maintain an	d increased regula	tory reporting re	quirements.	
Project Linkages/Synergies					
The project assists the City in meeting its mandated reduction of dom	nestic water.				
, , ,					

Strength of Projection	(s) & Detail				
✓ Bid Numbers	Engineer's Estimate	Quote	Best Judgment	Guesstimate/#ers Rolled Forward	
Project budget was det	ermined by median bid pric	es the cost to instal	l similar reclaimed water pip	pe for the Phase 1 Reclamation Project in April 2015.	

Ex	penditures	Prior Year	- 1	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
	Project/Const Management		\$	10,000					\$ 10,000
	Design/Engineering		\$	30,000					\$ 30,000
	Permitting								\$ -
	Land/ROW/Acquisition								\$ -
	Construction		\$	265,000					\$ 265,000
	Equipment								\$ -
	Other (Specify)								\$ -
	Total Expenditures	\$ -	\$	305,000	\$ -	\$ -	\$ -	\$ -	\$ 305,000

Funding Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	Future Years	Total
Fund: 725 Wastewater PFE		\$ 305,000					\$ 305,000
Fund:							\$ -
							\$ -
Fund:							\$ -
Fund:							\$ -
Total Funding Source	s \$ -	\$ 305,000	\$ -	\$ -	\$ -	\$ -	\$ 305,000

OPERATING COSTS

Expenditures	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	F	uture Years	Total
On-Going Operations								\$ -
Maintenance		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$	5,000	\$ 25,000
Personnel Costs								\$ -
Other (Specify)								\$ -
								\$ -
Total Expenditures	\$ -	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$	5,000	\$ 25,000

Funding Sources	Prior Year	FY17/18	FY18/19	FY19/20	FY20/21	F	uture Years	Total
Fund: 720 WW Operations		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$	5,000	\$ 25,000
Fund:								
Fund:								
Total Funding Sources	\$ -	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$	5,000	\$ 25,000

Canital	2. In	Operating	Cocte	Detail	(If Necessary	١.

Pipeline requires minimal maintenance during its service life, but will depreciate at approximately \$5,000/year.	
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	Prioritization		
Project Title:	Depart. Score Fin	al Rank	Project No.
WWTRF Expansion Phase 2	92	10	TBD
Development (Division (Contest		Referent Combin Retail	
Department/Division/Contact		Relevant Graphic Detail	
City Engineer / Ray Leftwich			
Project Duration	13	100000	A STATE OF THE STA
Fiscal Year Start = 19/20			DAY T
Fiscal Year End = 21/22			1
			2000年
Project Location or Request		O	The Park
WWTRF			A STATE OF THE STA
	操 医	O WHEN !	1000
	· · · · · · · · · · · · · · · · · · ·		
Stratogic Coal Polavance	5		
Strategic Goal Relevance Infrastructure, Economic Development			
initiastructure, Economic Development			1 点之人
	-	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS N	
		100	
Legislative/Regulatory; Health & Safety; Council Priority		CONTRACT OF THE PARTY OF THE PA	
Plant requires immediate expansion in order to facilitate continued		一种	THE SE
development.		No. 1	
			AND SHOULD BE
Project Description/Business Justification			
Expand WWTRF capacity by 0.9mgd with addition of Clarifier and related compor		· ·	
added by the Phase 1 expansion could be used up within one year after completi 0.3mgd of the Phase 2 Expansion Project, leaving 0.6mgd available for City of Linc	-	oject. Placer County anticipa	ates participating for
U.Singu of the Phase 2 Expansion Project, leaving U.Singu available for City of Line	com bevelopment.		
Project's Return on Investment			
Operating Cost Impacts of Project/Request			
Operating cost impacts of Project/Request Operation of WWTRF is funded through monthly utility bills of rate payers. Capita	al cost of project will be funder	through payment of Connec	ction Fees from
builders and developers as a requirement of Building Permits and Final Maps.	oost or project will be ruited	z timough puyment or comiet	200111 000 110111
8			
Project's Impact on Other Departments			
Project is necessary in order to facilitate continued development of the City of lin	coln.		
Duniont Linkagon /Companies			
Project Linkages/Synergies			

Bid Numbers	✓ Engineer's Estimate	Quote	Best Jud	dgeme	ent	☐ Gu	uesstimate/#ers	Rolled	Forward		
APITAL COSTS											
penditures	Prior Year	FY17/18	FY18/19		FY19/20		FY20/21	Fu	iture Years		Total
Project/Const. Managen	nent			\$	100,000	\$	100,000	\$	1,500,000	\$	1,700,00
Design/Engineering				\$	650,000	\$	650,000			\$	1,300,00
Permitting										\$	-
Land/ROW/Acquisition										\$	-
Construction								\$	10,000,000	\$	10,000,00
Equipment										\$	-
Other (Specify)										\$	-
Total Expend	litures \$ -	\$ -	\$ -	\$	750,000	\$	750,000	\$	11,500,000	\$	13,000,00
unding Sources	Prior Year	FY17/18	FY18/19		FY19/20		FY20/21	Fu	iture Years		Total
Fund: 725 Wastewater P	PFE			\$	750,000	\$	750,000			\$	1,500,00
Fund: SRF or Muni Bond								\$	11,500,000	\$	11,500,00
Fund:										\$	-
Fund:										\$	-
Fund:										\$	-
Total Funding So	ources \$ -	\$ -	\$ -	\$	750,000	\$	750,000	\$	11,500,000	\$	13,000,00
PERATING COSTS	Prior Year	FY17/18	FY18/19		FY19/20		FY20/21	F .	utuwa Vaava		Total
Expenditures	Prior rear	LIT//TO	L110/13				F12U/21	FU	iture Years		TOTAL -
On-Going Operations	the state of the s				,					S .	
On-Going Operations		•								\$	
Maintenance										\$	-
Maintenance Personnel Costs										\$	-
Maintenance										\$ \$ \$	-
Maintenance Personnel Costs Other (Specify)	Nituras C		ė .	Ċ		ė		Ċ		\$ \$ \$ \$	- - -
Maintenance Personnel Costs	ditures \$ -	\$ -	\$ -	\$	-	\$	-	\$	-	\$ \$ \$	- - -
Maintenance Personnel Costs Other (Specify) Total Expend	ditures \$ -		\$ - FY18/19	\$			- FY20/21		- iture Years	\$ \$ \$ \$	- - -
Maintenance Personnel Costs Other (Specify) Total Expend Funding Sources Fund:		\$ -		\$	-					\$ \$ \$ \$	- - - - - Total
Maintenance Personnel Costs Other (Specify) Total Expend Funding Sources Fund: Fund:		\$ -		\$	-					\$ \$ \$ \$ \$	- - - - - Total
Maintenance Personnel Costs Other (Specify) Total Expend Funding Sources Fund:		\$ -		\$	-					\$ \$ \$ \$	
Maintenance Personnel Costs Other (Specify) Total Expend Funding Sources Fund: Fund:	Prior Year	\$ -		\$	-					\$ \$ \$ \$ \$	
Maintenance Personnel Costs Other (Specify) Total Expend Funding Sources Fund: Fund: Fund:	Prior Year	FY17/18	FY18/19		FY19/20		FY20/21	Fi	iture Years	\$ \$ \$ \$ \$	