SCHEDULE A.10

WASTEWATER FACILITY IMPROVEMENT DESCRIPTION

A.10.1 PURPOSE

The Parties acknowledge that the Concessionaire has subcontracted its responsibilities set forth in the Concession Agreement with respect to the sewage collection system services of the Wastewater Facility to the Contractor pursuant to the O&M Subcontract. The purpose of this Schedule is to identify the Wastewater Facility Improvements that Concessionaire anticipates that Contractor will proceed to design and construct in accordance with the O&M Subcontract and the Final Work Authorization. Contractor agrees that, following the Effective Date, it will diligently pursue the completion of the Wastewater Facility Improvements in accordance with Article 6 of the O&M Subcontract. Concessionaire shall have the discretion, exercised in accordance with Prudent Industry Practices, to determine the precise order and schedule for the design and construction of the Wastewater Facility Improvements.

A.10.2 DESCRIPTION OF WASTEWATER FACILITY IMPROVEMENTS

The description of the Wastewater Facility Improvements set forth in this Schedule is preliminary in nature and requires further refinement and development as to the scope, design, cost and construction of such Wastewater Facility Improvements. The preliminary Cost Estimate set forth in this Schedule for each Wastewater Facility Improvement is only an estimate of the costs to design and construct each of the Wastewater Facility Improvements. The preliminary Cost Estimates are not fixed or guaranteed prices and Concessionaire acknowledges that Contractor has made no representation or warranty that the Wastewater Facility Improvements can be designed and/or constructed for the amounts set forth in the Cost Estimates. The preliminary Cost Estimate on the remaining pages of this Schedule does not include any inflation adjustment.

City of Rialto - Proposed Capital Improvement Projects (CIP)

ALL COSTS ESCALATED PER YEAR BY 3.0%	TIME PERIODS ARE FISCAL YEARS (JULY 1 TO JUNE 30)	ASSUMED FINANCIAL CLOSE DATE = SEPTEMBER 1, 2012	ASSUMED INITIATION OF IN PROGRESS OR EMERGENCY RECURRING CIP = SEPTEMBER 1, 2012	ASSUMED INITIATION OF INVESTMENT CIP = OCTOBER 1, 2012 (PER SCHEDULE BELOW)	ASSUMED INITIATION OF NEW RECURRING CIP = JULY 1, 2013
NOTE 1:	NOTE 2:	NOTE 3:	NOTE 4:	NOTE 5:	NOTE 6:

, , ,	<u>Iotal Cost</u> \$17,799,000	\$2,153,000	\$1,506,000	\$869,000	\$530,000	\$544,000	\$865,000	\$24,266,000		S567,000	\$2,609,000	\$624,000	53,800,000	\$28,066,000
	2016/2017 S0 S	80	0\$	80	80	80		0\$	1	\$122,000	\$681,000	\$312,000	\$1,115,000	\$1,115,000
6	\$015/2016 \$0	80	\$0	80	80	80	08	80		\$119,000	\$662,000	\$104,000	8885,000	\$885,000
	<u>2014/2015</u> \$5,615,000	80	80	\$791,000	\$519,000	\$544,000	\$844,000	\$8,313,000		\$115,000	\$642,000	\$104,000	\$861,000	\$9,174,000
4	$\frac{2013/2014}{\$11,089,000}$	\$1,962,000	\$1,441,000	\$78,000	\$11,000	0\$	\$21,000	\$14,602,000		\$112,000	\$624,000	\$104,000	\$840,000	\$15,442,000
!	$\frac{2012/2013}{\$1,095,000}$	\$191,000	\$65,000	80	80	80	\$0	\$1,351,000		\$99,000	\$0	9	899,000	\$1,450,000
*	ority Project Name Wastewater Treatment Plant Improvements (including SCADA at plant and six lift stations)						Wastewater Treatment Plant FOG Modi	Wastewater Investment Sub-Total	WASTEWATER RECURRING	Project Name (quantities are estimates) Manhole Rehahilitation (50 ner year)	Main Cleaning and Lining (1 mile per year)	Engineering Studies (Master Plan and Regulatory Related)	Wastewater Recurring Sub-Total	WASTEWATER SUB-TOTAL
WAST	Priority S1	S2	S3	S4	SS	S6	S7		WAST	8 8 8	SB	SC		

Project No. / Ranking:

S1

Name of Project:

Wastewater Treatment Plant Improvements (including SCADA at the

plant and six lift stations)

Problem or Opportunity:

The existing treatment plant consists of 5 separate plants with a total rated capacity of 11.7 MGD. Plant 1, which is out of service and expected to remain out of service in the future, is 1.0 MGD of this capacity resulting in a net rated capacity of 10.7 MGD. Although the rated capacity is adequate based on current average flows of 7.2 MGD and potential development growth of 3.0 MGD (Foothill Boulevard, Downtown Rialto, Renaissance, and Lytle Creek), process bottlenecks and deteriorating infrastructure increase the risk of emergency failure and could ultimately lead to loss of rated capacity.

Recommended Solution:

Upgrade Plants 2, 3, and 4 to address aging infrastructure and process bottlenecks. This will maintain the current rated capacity of these plants

at 2.0 MGD each (6.0 MGD total). The improvements include replacement of aeration equipment and clarifier refurbishment to increase reliability. In order to address potential TDS concerns in the plant effluent, chlorine disinfection will be discontinued, and new UV equipment will be installed to replace the existing first generation UV equipment which is very inefficient. If discussions with the Regional Water Quality Control Board (RWQCB) result in the continued use of chlorine for disinfection, reliability improvements will need to be made to that chemical feed system. New cloth filters will replace the existing sand filters due to concerns of the RWQCB with UV disinfection and sand filters. The existing belt filter press is currently at capacity and there is no redundancy, thus a second belt filter press will be installed. This lack of residuals dewatering redundancy is one of the more significant concerns at the plant. The existing SCADA system at the plant, which consists of 5 individual systems running different platforms, will be replaced with one system that is also integrated with the water SCADA. A re-rating of Plant 5 from 4.7 MGD to 6.0 MGD

will also be requested of the RWOCB.

Measurable Benefits:

Total plant rate capacity of 12.0 MGD (Trains 2-4 2.0 MGD each, Train 5 6.0 MGD). Adequate redundancy to assure that the plant can meet demands with the largest process units out of service. Compliance with all RWOCB regulations.

Basis of Recommendation:

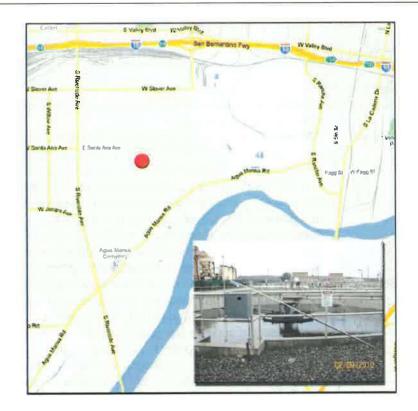
Field investigations and extensive analysis performed by Contractor and RW Beck, discussions with local operations staff and the RWQCB. Additionally, flow testing was performed to confirm accuracy of meters at the plant. The result, 72 gpcd, was in between the plant influent and effluent flow readings.

Assumptions / Risks:

Normal construction risks associated with retrofit projects exist.

Primary Driver:

Asset Renewal



Engineer's Probable Opinion of Cost (based on conventional Design-Bid-Build)

S1	Wastewater Treatment Plant Improvements (including SCADA at pl	lant and six	lift stat	tions)	
<u> </u>	Description	Qty	Unit	Unit Cost	Tota
1	Mobilization/General Conditions	1	LS	\$21,000.00	\$21,000
2	Upgrades to Influent Flow Diversion Box and Influent Flow Meter				
	Submersible Pumps	2	EA	\$71,500.00	\$143,000
	Mixers or Aerators	2	EA	\$30,000.00	\$60,000
	Installation	1	LS	\$95,000.00	\$95,000
	Process Mechanical	1	LS	\$51,000.00	\$51,000
	Electrical	1	LS	\$72,000.00	\$72,000
3	Installation of Grit Classifier at the East Headworks		LU	\$72,000.00	\$72,000
	Grit Classifier and Grit Pumps	1	LS	\$95,000.00	\$95,000
	Installation	1	LS	\$95,000.00	\$95,000
-	Electrical	1	LS	\$33,000.00	\$33,000
4	Upgrades to the Aeration System and Clarifier for Plant 2	1	LS	\$33,000.00	\$33,000
-	Painting	1	LS	\$119,000.00	\$110,000
-	Concrete Repair	1	$\overline{}$		\$119,000
-	Air Pipe	600	LS LF	\$119,000.00 \$178.00	\$119,000
\dashv	Diffusers				\$107,000
-		1	LS	\$119,000.00	\$119,000
-	DO probe	2	EA	\$12,000.00	\$24,000
-	Mixers RAS pumps	4	EA	\$14,250.00	\$57,000
-		2	EA	\$20,500.00	\$41,000
\dashv	WAS pumps	2	EA	\$9,500.00	\$19,000
_	Scum pumps	2	EA	\$9,500.00	\$19,000
_	Clarifier mechanism	1	EA	\$161,000.00	\$161,000
_	Switchgears	1	LS	\$203,000.00	\$203,000
_	Process Mechanical	1	LS	\$274,000.00	\$274,000
	Electrical	1	LS	\$376,000.00	\$376,000
5	Upgrades to the Aeration System for Plants 3 and 4				
	Air Piping	800	LF	\$178.00	\$143,000
	Diffusers	1	LS	\$477,000.00	\$477,000
	DO Control System	1	LS	\$238,000.00	\$238,000
	Blowers	1	LS	\$179,000.00	\$179,000
	HVAC at Blower Building	1	LS	\$43,000.00	\$43,000
	Gates	1	LS	\$302,000.00	\$302,000
	Valves	1	LS	\$657,000.00	\$657,000
	Switchgears	1	LS	\$806,000.00	\$806,000
	Process Mechanical	1	LS	\$1,020,000.00	\$1,020,000
П	Electrical	1	LS	\$1,423,000.00	\$1,423,000
6	Installation of New Belt Filter Press				
	BFP	1	EA	\$334,000.00	\$334,000
1	Installation	1	LS	\$95,000.00	\$95,000
	Process Mechanical	1	LS	\$83,000.00	\$83,000
	Electrical	1	LS	\$117,000.00	\$117,000
	Replacement of one Gravity Belt Thickener			. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,000
	GBT	1	EA	\$191,000.00	\$191,000
	Installation	1	LS	\$95,000.00	\$95,000
_	Process Mechanical	1	LS	\$48,000.00	\$48,000

	Electrical	1	LS	\$67,000.00	\$67,000
8	Upgrade of Existing UV and Dechlorination Systems	1	LS	\$750,000.00	\$750,000
9	Upgrade of Existing DynaSand Filters	1	LS	\$2,365,000.00	\$2,365,000
0	Installation of Aeration System at Sludge Holding Tanks				
	Tank Cleaning	1	LS	\$6,000.00	\$6,000
	Blowers	1	LS	\$89,000.00	\$89,000
	Diffusers	1	LS	\$119,000.00	\$119,000
	Air Pipe	500	LF	\$178.00	\$89,000
	Process Mechanical	1	LS	\$149,000.00	\$149,000
	Electrical	1	LS	\$32,000.00	\$32,000
1	SCADA (at plant and six lift stations)				
	Software\Drivers	1	LS	\$34,000.00	\$34,000
	Fiber Optic Testing\Evaluation	1	LS	\$15,000.00	\$15,000
	Central Redundant ControlLogix PLC	1	LS	\$37,000.00	\$37,000
	Opto 22 Replacement Panel Components	27	EA	\$12,000.00	\$324,000
	Chemical System Communication Replacement	1	LS	\$4,000.00	\$4,000
	Filter PLC Upgrade and Communication	1	LS	\$23,000.00	\$23,000
	Lift Station Upgrade and Communications	6	EA	\$7,000.00	\$42,000
	Lift Station Instrumentation (Level Controls)	6	EA	\$2,000.00	\$12,000
	Instrumentation (Influent Sampler)	2	EA	\$10,000.00	\$20,000
_	Instrumentation (Plant Flowmeters)	1	LS	\$188,000.00	\$188,000
	Instrumentation (Plant Level Controls)	1	LS	\$10,000.00	\$10,000
	Instrumentation (Plant Pressure Controls)	1	LS	\$27,000.00	\$27,000
	Instrumentation (Plant Analytical)	1	LS	\$24,000.00	\$24,000
	Internet\VPN Firewalls	1	LS	\$4,300.00	\$5,000
	Miscellaneous Drivers	1	LS	\$8,000.00	\$8,000
	Miscellaneous New Instruments and Programming	1	LS	\$200,000.00	\$200,000
_	Subtotal				\$13,193,000
	Contingency	10.0%			\$1,320,000
	O&M Project Development	1.0%			\$132,000
	Detailed Design and Permitting/Bidding Support	6.0%			\$792,000
_	Construction Phase Engineering Services	5.0%			\$660,000
	O&M Project Management Services	8.0%			\$1,056,000
	Total	2.070			\$17,153,000
-	Potential Operational Cost Changes				, ,
=	To Be Determined				

Anticipated Schedule (based on conventional Design-Bid-Build)

						2012/	2013					
Activity	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Project Development												
Detailed Design and Permitting												
Bidding and Contract Award												
Construction and Commissioning												
Project Closeout												
						2013/	2014					
Activity	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Project Development												
Detailed Design and Permitting												
Bidding and Contract Award												
Construction and Commissioning												
Project Closeout												
						2014/	2015					
Activity	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Project Development												
Detailed Design and Permitting												
Bidding and Contract Award												
Construction and Commissioning												
Project Closeout												

Project No. / Ranking:

S2

Name of Project:

Sewer Main Replacement on S. Acacia, E. Merrill, and S. Sycamore

(6,860 feet total)

Problem or Opportunity:

Sewers are surcharged and/or could overflow under current

conditions.

Recommended Solution:

Replace 1,410' of 12" with 18", 340' of 10" with 18", and 1,150' of 18" with 21" on S. Acacia; 220' of 15" with 21", 240' of 18" with 24", and 490' of 18" with 21" on E. Merrill; and 640' of 18" with 21",

and 2,370' of 15" with 21" on S. Sycamore.

Measurable Benefits:

No surcharge or overflow under current conditions.

Basis of Recommendation:

RW Beck hydraulic modeling.

Assumptions / Risks:

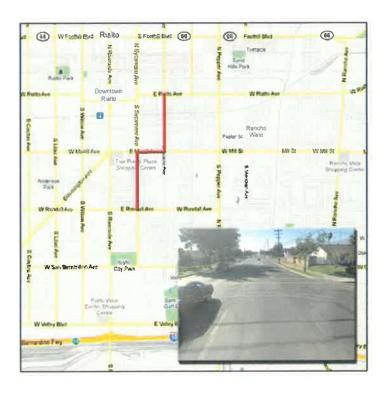
The proposed improvements reflect internal growth but not external growth such as the proposed Lytle Creek development. Normal

construction risks associated with unknown underground conditions

exist.

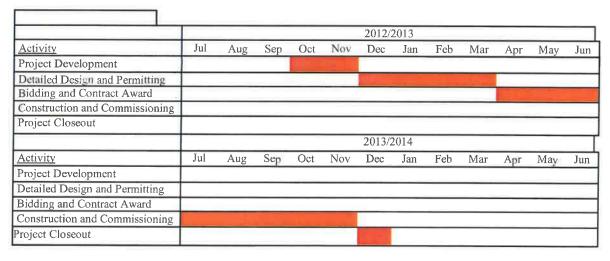
Primary Driver:

Reliability and Quality of Service



S2	Sewer Main Replacement on S. Acacia, E. Merrill, at	nd S. Sycamore (6,860) feet to	otal)	
No.	<u>Description</u>	Qty	Unit	Unit Cost	Tota
1	Mobilization/Demobilization/Bonds/Insurance/Permits/Misc.	1	LS	\$58,000	\$58,000
2	Traffic Control and Safety	1	LS	\$58,000.00	\$58,000
3	Utility Verification (Potholing)	1	LS	\$33,000.00	\$33,000
4	Trench Protection (Sheeting, Shoring and Bracing)	1	LS	\$47,000.00	\$47,000
5	SWPPP and BMPs	1	LS	\$16,000.00	\$16,000
6	Construct Extra Strength VCP-18-inch S. Acacia	1,750	LF	\$140.00	\$245,000
7	Construct Extra Strength VCP-21-inch S. Acacia	1,150	LF	\$155.00	\$179,000
8	Construct Extra Strength VCP-21-inch E. Merrill	710	LF	\$155.00	\$111,000
9	Construct Extra Strength VCP-24-inch E. Merrill	240	LF	\$170.00	\$41,000
10	Construct Extra Strength VCP- 21-inch S. Sycamore	3,010	LF	\$155.00	\$467,000
11	Construct 60" Manhole	18	EA	\$8,000.00	\$144,000
12	Utility Supports	1	LS	\$27,000.00	\$27,000
13	Video Inspection	I	LS	\$16,000.00	\$16,000
14	Construct AC	1,198	Tons	\$100.00	\$120,000
15	Construct Crushed Aggregate Base	407	CY	\$55.00	\$23,000
16	Replace Striping, Markings, Markers and Signs	1	LS	\$14,000.00	\$14,000
17	Record Drawings (As-Builts)	1	LS	\$11,000.00	\$11,000
	Subtotal				\$1,610,000
	Contingency	10.0%			\$161,000
	O&M Project Development	1.0%			\$17,000
	Detailed Design and Permitting/Bidding Support	6.0%			\$97,000
	Construction Phase Engineering Services	5.0%			\$81,000
	O&M Project Management Services	8.0%			\$129,000
	Total				\$2,095,000
	Potential Operational Cost Changes				
	None Expected				\$0

Anticipated Schedule (based on conventional Design-Bid-Build)



Project No. / Ranking: S3

Name of Project: Sewer Main Replacement on N. Sycamore, E. Etiwanda, and N.

Acacia (8,308 feet total)

Problem or Opportunity: Sewers are surcharged and/or could overflow under current

conditions.

Recommended Solution: Replace 2,400' of 8" with 12" on N. Sycamore; 1,320' of 8"

with 10" on E. Etiwanda; and 1,648' of 8" with 12", and 2,940'

of 10" with 12" on N. Acacia.

Measurable Benefits: No surcharge or overflow under current conditions.

Basis of Recommendation: RW Beck hydraulic modeling.

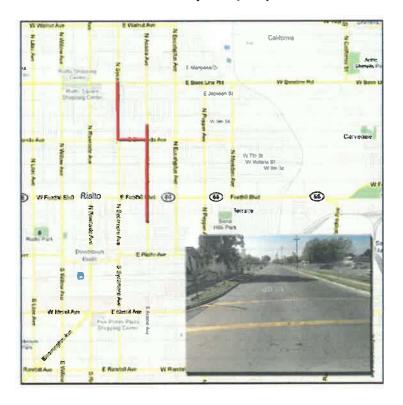
Assumptions / Risks: The proposed improvements reflect internal growth but not

external growth such as the proposed Lytle Creek development.

Normal construction risks associated with unknown

underground conditions exist.

Primary Driver: Reliability and Quality of Service



S3	Sewer Main Replacement on N. Sycamore, E. Etiwanda, and N	I. Acacia (8,308	feet to	tal)	
<u>No.</u>	Description	Qty	Unit	Unit Cost	Tota
1	Mobilization/Demobilization/Bonds/Insurance/Permits/Misc.	1	LS	\$39,000.00	\$39,000
2	Traffic Control and Safety	11	LS	\$39,000.00	\$39,000
3	Utility Verification (Potholing)	1	LS	\$21,000.00	\$21,000
4	Trench Protection (Sheeting, Shoring and Bracing)	1	LS	\$30,000.00	\$30,000
5	SWPPP and BMPs	1	LS	\$15,500.00	\$16,000
6	Construct Extra Strength VCP- 12-inch N. Sycamore	2,400	LF	\$80.00	\$192,000
7	Construct Extra Strength VCP- 10-inch E. Etiwanda	1,320	LF	\$70.00	\$93,000
8	Construct Extra Strength VCP- 12-inch N. Acacia	4,588	LF	\$80.00	\$368,000
9	Construct 48" Manhole	21	EA	\$5,000.00	\$105,000
10	Utility Supports	1	LS	\$16,500.00	\$17,000
11	Video Inspection	1	LS	\$15,000.00	\$15,000
12	Construct AC	1,380	Tons	\$100.00	\$138,000
13	Construct Crushed Aggregate Base	476	CY	\$55.00	\$27,000
14	Replace Striping, Markings, Markers and Signs	1	LS	\$12,500.00	\$13,000
15	Record Drawings (As-Builts)	1	LS	\$11,000.00	\$11,000
	Subtotal				\$1,124,000
	Contingency	10.0%			\$113,000
	O&M Project Development	1.0%			\$12,000
	Detailed Design and Permitting/Bidding Support	6.0%			\$68,000
	Construction Phase Engineering Services	5.0%			\$57,000
	O&M Project Management Services	8.0%		1	\$90,000
	Total				\$1,464,000
	Potential Operational Cost Changes				
	None Expected				\$0

Anticipated Schedule (based on conventional Design-Bid-Build)

S3 - Sewer Main Replacement on	N. Sycar	nore, E.	Etiwar	ıda, and	d N. Aca	icia (8,3	08 feet	total)				
						2012	/2013					
Activity	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Project Development												
Detailed Design and Permitting			14.55									
Bidding and Contract Award												
Construction and Commissioning												
Project Closeout												
						2013	/2014					
Activity	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Project Development												
Detailed Design and Permitting												
Bidding and Contract Award												
Construction and Commissioning												
Project Closeout												

Project No. / Ranking:

S4

Name of Project:

Sewer Main Replacement on N. Willow and W. Foothill (3,950 feet

on W. Foothill.

Problem or Opportunity: Recommended Solution:

Sewers are surcharged and/or could overflow under current conditions. Replace 2,630' of 8" with 12" on N. Willow; and 1,320' of 8" with 12"

Measurable Benefits:

No surcharge or overflow under current conditions.

Basis of

RW Beck hydraulic modeling. Surcharging confirmed on N.

Recommendation:

Willow with Veolia operator.

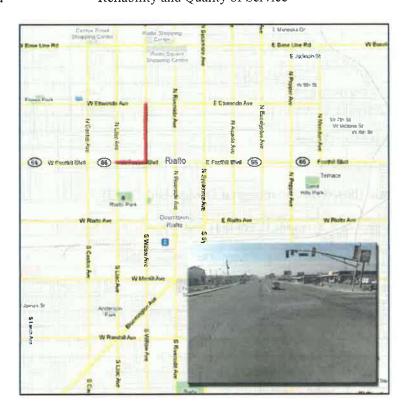
Assumptions / Risks:

The proposed improvements reflect internal growth but not external growth such as the proposed Lytle Creek development. Normal construction risks associated with unknown underground conditions

exist.

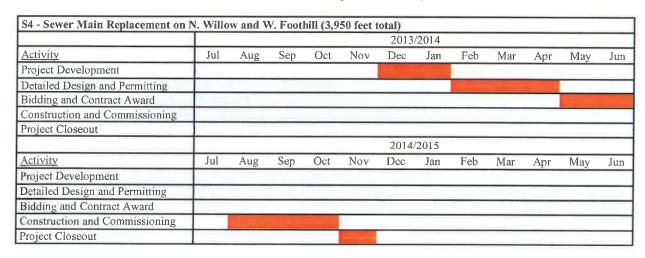
Primary Driver:

Reliability and Quality of Service



S4	Sewer Main Replacement on N. Willow and W. Foothill (3,950 feet				
<u>No.</u>	Description	Qty	Unit	Unit Cost	<u>Total</u>
1	Mobilization/Demobilization/Bonds/Insurance/Permits/Misc.	1	LS	\$21,000.00	\$21,000
2	Traffic Control and Safety	1	LS	\$21,000.00	\$21,000
3	Utility Verification (Potholing)	1	LS	\$12,000.00	\$12,000
4	Trench Protection (Sheeting, Shoring and Bracing)	1	LS	\$18,000.00	\$18,000
5	SWPPP and BMPs	1	LS	\$12,000.00	\$12,000
6	Construct Extra Strength VCP- 12-inch N. Willow	2,630	LF	\$80.00	\$211,000
7	Construct Extra Strength VCP- 12-inch W. Foothill	1,320	LF	\$80.00	\$106,000
8	Construct 48" Manhole	13	EA	\$8,000.00	\$104,000
9	Utility Supports	1	LS	\$13,000.00	\$13,000
10	Video Inspection	11	LS	\$10,000.00	\$10,000
11	Construct AC	714	Tons	\$100.00	\$72,000
12	Construct Crushed Aggregate Base	255	CY	\$55.00	\$15,000
13	Replace Striping, Markings, Markers and Signs	1	LS	\$8,000.00	\$8,000
14	Record Drawings (As-Builts)	1	LS	\$6,000.00	\$6,000
	Subtotal				\$629,000
	Contingency	10.0%			\$63,000
	O&M Project Development	1.0%			\$7,000
	Detailed Design and Permitting/Bidding Support	6.0%			\$38,000
	Construction Phase Engineering Services	5.0%			\$32,000
	O&M Project Management Services	8.0%			\$51,000
	Total				\$820,000
	Potential Operational Cost Changes				
	None Expected				\$0

Anticipated Schedule (based on conventional Design-Bid-Build)



Project No. / Ranking: S5

Name of Project: Sewer Main Replacement on W. Rialto (2,650 feet total)

Problem or Opportunity: Sewers are surcharged and/or could overflow under current

conditions.

Recommended Solution: Replace 2,650' of 10" with 12" on W. Rialto. **Measurable Benefits:** No surcharge or overflow under current conditions.

Basis of Recommendation: RW Beck hydraulic modeling. Surcharging on W. Rialto confirmed

with Veolia operator.

Assumptions / Risks: The proposed improvements reflect internal growth but not external

growth such as the proposed Lytle Creek development. Normal construction risks associated with unknown underground conditions

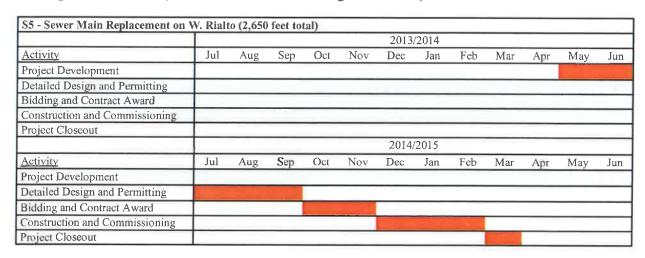
exist.

Primary Driver: Reliability and Quality of Service



S5	Sewer Main Replacement on W. Rialto (2,650 feet total)				
No.	Description	Qty	<u>Unit</u>	Unit Cost	<u>Total</u>
1	Mobilization/Demobilization/Bonds/Insurance/Permits/Misc.	1	LS	\$11,000.00	\$11,000
2	Traffic Control and Safety	1	LS	\$11,000.00	\$11,000
3	Utility Verification (Potholing)	1	LS	\$8,000.00	\$8,000
4	Trench Protection (Sheeting, Shoring and Bracing)	1	LS	\$9,000.00	\$9,000
5	SWPPP and BMPs	1	LS	\$6,000.00	\$6,000
6	Construct Extra Strength VCP- 12-inch	2,650	LF	\$80.00	\$212,000
7	Construct 48" Manhole	9	EA	\$5,000.00	\$45,000
8	Utility Supports	1	LS	\$6,000.00	\$6,000
9	Video Inspection	1	LS	\$4,000.00	\$4,000
10	Construct AC	524	Tons	\$100.00	\$53,000
11	Construct Crushed Aggregate Base	173	CY	\$55.00	\$10,000
12	Replace Striping, Markings, Markers and Signs	1	LS	\$4,000.00	\$4,000
13	Record Drawings (As-Builts)	1	LS	\$3,000.00	\$3,000
	Subtotal				\$382,000
	Contingency	10.0%			\$39,000
	O&M Project Development	1.0%			\$4,000
	Detailed Design and Permitting/Bidding Support	6.0%			\$23,000
	Construction Phase Engineering Services	5.0%			\$20,000
	O&M Project Management Services	8.0%			\$31,000
	Total				\$499,000
	Potential Operational Cost Changes				
	None Expected				\$0

Anticipated Schedule (based on conventional Design-Bid-Build)



Project No. / Ranking: S6

Name of Project: Short Sewer Main Replacements on W. Randall, AT&SF RR, E. 1st, N.

Willow, N. Riverside, and N. Pepper (2,410 feet total)

Problem or Opportunity: Recommended Solution:

Sewers are surcharged and/or could overflow under current conditions. Replace 330' of 10" with 15" on W. Randall; 570' of 8" with 12" on AT&SF RR; 300' of 8" with 12" on E. 1st, 210' of 8" with 10" on N. Willow; 180' of 8" with 10" on N. Riverside; and 820' of 8" with 10"

on N. Pepper.

Measurable Benefits: Basis of Recommendation: No surcharge or overflow under current conditions.

RW Beck hydraulic modeling. Surcharging on AT&SF RR, E. 1st, N. Willow, N. Riverside, and N. Pepper confirmed with Veolia operator.

Assumptions / Risks:

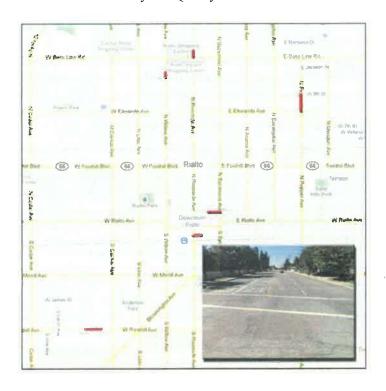
The proposed improvements reflect internal growth but not external growth such as the proposed Lytle Creek development. Normal

construction risks associated with unknown underground conditions

exist.

Primary Driver:

Reliability and Quality of Service



S6	Short Sewer Main Repl on W. Randall, AT&SF RR, E. 1st, N. Willow	w, N. Riversid	e, and N	l. Pepper (2,41	0 feet total)
No.	Description	Qty	Unit	Unit Cost	Total
1	Mobilization/Demobilization/Bonds/Insurance/Permits/Misc.	1	LS	\$13,000.00	\$13,000
2	Traffic Control and Safety	1	LS	\$13,000.00	\$13,000
3	Utility Verification (Potholing)	1	LS	\$12,500.00	\$13,000
4	Trench Protection (Sheeting, Shoring and Bracing)	1	LS	\$13,500.00	\$14,000
5	SWPPP and BMPs	1	LS	\$8,500.00	\$9,000
6	Construct Extra Strength VCP- 15-inch W. Randall	330	LF	\$100.00	\$33,000
7	Construct Extra Strength VCP- 12-inch AT&SF RR	570	LF	\$80.00	\$46,000
8	Construct Extra Strength VCP- 12-inch E. 1st	300	LF	\$80.00	\$24,000
9	Construct Extra Strength VCP- 10-inch N. Willow	210	LF	\$70.00	\$15,000
10	Construct Extra Strength VCP- 10-inch N. Riverside	180	LF	\$70.00	\$13,000
11	Construct Extra Strength VCP- 10-inch N. Pepper	820	LF	\$70.00	\$58,000
12	Construct 48" Manhole	9	EA	\$5,000.00	\$45,000
13	Utility Supports	1	LS	\$10,500.00	\$11,000
14	Video Inspection	1	LS	\$10,500.00	\$11,000
15	Construct AC	448	Tons	\$100.00	\$45,000
16	Construct Crushed Aggregate Base	147	CY	\$55.00	\$9,000
17	Replace Striping, Markings, Markers and Signs	1	LS	\$13,000.00	\$13,000
18	Record Drawings (As-Builts)	1	LS	\$7,000.00	\$7,000
	Subtotal				\$392,000
	Contingency	10.0%			\$40,000
	O&M Project Development	1.0%			\$4,000
	Detailed Design and Permitting/Bidding Support	6.0%			\$24,000
	Construction Phase Engineering Services	5.0%			\$20,000
	O&M Project Management Services	8.0%			\$32,000
	Total				\$512,000
	Potential Operational Cost Changes				
	None Expected				\$0

Anticipated Schedule (based on conventional Design-Bid-Build)

	2014/2015											
<u>Activity</u>	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Project Development												
Detailed Design and Permitting												
Bidding and Contract Award												
Construction and Commissioning												
Project Closeout												
						201	5/2016					
Activity	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Project Development												
Detailed Design and Permitting												
Bidding and Contract Award												
Construction and Commissioning												
Project Closeout	7											

Project No. / Ranking: **S7**

Name of Project: Wastewater Treatment Plant FOG Modifications

Problem or Opportunity: The FOG receiving station has inadequate capacity to allow the

digesters to generate sufficient biogas to meet the capacity of the fuel

cells. The biogas cleaning system is also deficient.

Recommended Provide a second FOG receiving tank, improve the heating Solution:

capabilities, and upgrade the biogas cleaning and monitoring

system.

A FOG/digester/fuel cell system that can meet the system design Measurable Benefits:

capacity without the need for natural gas.

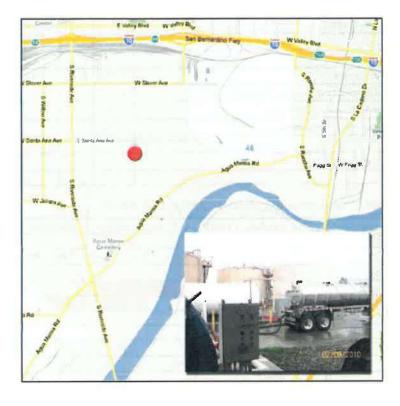
Field investigations and analysis performed by Contractor. **Basis of Recommendation:**

The original work is completed and all legal issues are resolved by the **Assumptions / Risks:**

City. Contractor has ample opportunity to operate the facility for a

period of time before implementing improvements. Normal construction risks associated with retrofit projects exist.

Reliability and Quality of Service **Primary Driver:**



S7	Wastewater Treatment Plant FOG Modifications				
No.	Description	Qty	<u>Unit</u>	Unit Cost	Total
1	Mobilization/General Conditions	5.0%	of const	\$595,000.00	\$30,000
2	Piping	11	LS	\$15,000.00	\$15,000
3	Pumps	2	EA	\$10,000.00	\$20,000
4	Tanks	2	EA	\$75,000.00	\$150,000
5	Heating	1	LS	\$20,000.00	\$20,000
6	Valves and others	1	LS	\$65,000.00	\$65,000
7	Upgrades to Biogas Cleaning and Monitoring	1	EA	\$100,000.00	\$100,000
8	Installation	50.0%	of eqpt	\$285,000.00	\$143,000
9	Process Mechanical	25.0%	of eqpt	\$135,000.00	\$34,000
10	Electrical	35.0%	of eqpt	\$135,000.00	\$48,000
	Subtotal				\$625,000
	Contingency	10.0%			\$63,000
	O&M Project Development	1.0%			\$7,000
	Detailed Design and Permitting/Bidding Support	6.0%			\$38,000
	Construction Phase Engineering Services	5.0%			\$32,000
	O&M Project Management Services	8.0%			\$50,000
	Total				\$815,000
	Potential Operational Cost Changes				
	To Be Determined				N/A

City of Rialto Proposed Capital Recurring Project

Project No. SA

Name of Project: Manhole Rehabilitation

Problem or Opportunity: Manhole deterioration can occur resulting in infiltration/inflow.

Recommended Solution: Identify and rehabilitate manholes as necessary. **Measurable Benefits:** No infiltration/inflow at rehabilitated manholes.

Basis of Recommendation: Requested by the City of Rialto. In line with typical industry practice. **Assumptions / Risks:** Extent of scope currently unknown. Contractor to assume program in

second half of 2012 to maintain continuity.

Primary Driver: Asset Renewal

Potential Delivery Method: Utilize contracted labor, similar to investment main replacement work.

Engineer's Probable Opinion of Cost

SA	Manhole Rehabilitation (per year)				
No.	Description	<u>Oty</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total</u>
1	Materials, labor, and installation	50	EA	\$2,000.00	\$100,000
	O&M Project Management Services	8.0%			\$8,000
	Total				\$108,000
	Potential Operational Cost Changes				
	None				\$0

City of Rialto Proposed Capital Recurring Project

Project No.

SB

Name of Project:

Main Cleaning and Lining

Problem or Opportunity:

Main deterioration can occur resulting in infiltration/inflow.

Recommended Solution: Measurable Benefits: Identify and line mains as necessary. No infiltration/inflow at lined mains.

Basis of Recommendation:

Requested by the City of Rialto. In line with typical industry practice. Extent of scope currently unknown. Contractor to initiate program in

Assumptions / Risks:

second half of 2013 after identification and evaluation of program scope.

Primary Driver:

Asset Renewal

Potential Delivery Method:

Utilize contracted labor, similar to investment main replacement work.

Engineer's Probable Opinion of Cost

SB	Main Cleaning and Lining (per year)				
<u>No.</u>	Description	<u>Oty</u>	<u>Unit</u>	Unit Cost	<u>Total</u>
1	Materials, labor, and installation	5,280	FT	\$106.00	\$560,000
	O&M Project Management Services	8.0%			\$45,000
	Total				\$605,000
	Potential Operational Cost Changes				
	None				\$0.

City of Rialto Proposed Capital Recurring Project

Project No. SC

Name of Project: Engineering Studies (Master Plan and Regulatory Related)

Problem or Opportunity: Master planning should be performed every 5 years. Other types of

engineering studies related to regulatory requirements could be

expected to occur over a 5 year period.

Recommended Solution: Provide funding for both Master Planning and as a placeholder for

currently unidentified studies.

Measurable Benefits: None

Basis of Recommendation: Recommended by Contractor (not identified in the RFP).

Assumptions / Risks: Funding not provided for growth related studies. Since scope is

unknown, proposed funding is a placeholder.

Primary Driver: Reliability and Quality of Service.

Potential Delivery Method: Performed by Contractor, a consultant, or a combination.

Engineer's Probable Opinion of Cost

SC	Engineering Studies (Master Plan and Regulatory Related)				
No.	Description	<u>Oty</u>	<u>Unit</u>	Unit Cost	<u>Total</u>
1	Miscellaneous Engineering Studies (5 year total)	1	LS	\$300,000.00	\$300,000
	Master Plan Update (year 5)	1	LS	\$300,000.00	\$300,000
	Subtotal				\$600,000
	O&M Project Management Services	4.0%			\$24,000
	Total				\$624,000
	Potential Operational Cost Changes				
	None				\$0