

AN ORDINANCE AMENDING THE CITY SEWER IMPACT FEE FACILITIES PLAN AND SEWER IMPACT FEE ANALYSIS; ADOPTING SEWER IMPACT FEES; ADOPTING CERTAIN POLICIES RELATED TO IMPACT FEES; AND ESTABLISHING A SERVICE AREA FOR PURPOSES OF IMPACT FEES.

WHEREAS, Santaquin City (the "City") is a political subdivision of the State of Utah, authorized and organized under applicable provisions of Utah law; and

WHEREAS, the City has legal authority, pursuant to Title 11, Chapter 36a of the Utah Code Annotated, as amended ("*Impact Fees Act*" or "*Act*"), to impose development impact fees as a condition of development approval, which impact fees are used to defray capital infrastructure costs attributable to new development activity; and

WHEREAS, the City has previously enacted and imposed impact fees for public facilities, as defined in Utah Law, Title 11 Chapter 36a, Section 102, and as more particularly set forth in the Santaquin City Fee Schedule; and

WHEREAS, the City desires to amend its previously adopted Sewer Impact Fees in accordance with applicable provisions of the Impact Fees Act in order to appropriately assign capital infrastructure costs to development in an equitable and proportionate manner as more particularly provided herein; and

WHEREAS, the City properly noticed its intent to amend the Sewer Impact Fees Facilities Plan and the Sewer Impact Fee Analysis as required by law and the City has, through its consultants, completed the Sewer Impact Fee Facilities Plan and Impact Fee Analysis in accordance with applicable provisions of the Impact Fees Act, which Sewer Impact Fee Facilities Plan and Impact Fee Analysis are more particularly described and adopted herein; and

WHEREAS, the City has provided the required notice and held a public hearing before the City Council regarding the proposed Sewer Impact Fees, Sewer Impact Fee Facilities Plan and Sewer Impact Fee Analysis in accordance with applicable provisions of the Impact Fees Act; and

NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF Santaquin CITY, STATE OF UTAH, AS FOLLOWS:

SECTION I. PURPOSE

This Sewer Impact Fees Ordinance establishes the City's Sewer Impact Fees policies and procedures and is promulgated pursuant to Title 11, Chapter 36a, Part 4, Enactment of Impact Fees, and other requirements of the Impact Fees Act. This Ordinance adopts Sewer Impact Fees for wastewater related facilities within the City Service Area as defined herein, provides a schedule of Sewer Impact Fees for development activity, and sets forth direction for challenging, modifying and appealing Sewer Impact Fees. This Ordinance does not replace, supersede, or modify any ordinance regarding impact fees unrelated to Sewer facilities and improvements. This Ordinance may be referred to and cited as the "Sewer Impact Fees Ordinance."

SECTION II. STATUTORY AUTHORITY AND RESTRICTIONS

1. *Impact Fees Act Authority.* The City is authorized to impose impact fees subject to and in accordance with applicable provisions of the Impact Fees Act. Impact fees may only be established for public facilities as defined in Section 11-36a-102 that have a life expectancy of 10 or more years and are owned or operated by or on behalf of a local political subdivision. Public facilities for which impact fees may be imposed includes public sewer facilities.
2. *Impact Fees Act Restrictions.* Pursuant to Section 11-36a-202 of the Impact Fees Act, the City may not impose an impact fee to: (1) cure deficiencies in public facilities serving existing development; (2) raise the established level of service of a public facility serving existing development; (3) recoup more than the local political subdivision's costs actually incurred for excess capacity in an existing system improvement; or (4) include an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with generally accepted cost accounting practices and the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursement.

SECTION III. SERVICE AREA

The Impact Fees Act requires the City to establish one or more service areas within which the City will calculate and impose a particular impact fee. The service area within which the proposed Sewer Impact Fees will be imposed is described in Santaquin City Code (S.C.C.) §9-2-4.

SECTION IV. IMPACT FEE FACILITIES PLAN (IFFP)

1. *Impact Fee Facilities Plan Required.* Pursuant to Section 11-36a-301 of the Impact Fees Act, before imposing or amending an impact fee, the City is required to prepare an impact fee facilities plan to determine the public facilities required to serve development resulting from new development activity. The impact fee facilities plan shall identify the demands placed upon existing public facilities by new development activity and the proposed means by which the City will meet those demands.
2. *Sewer Impact Fee Facilities Plan.* The City has, through its consultants, researched and analyzed the factors set forth in Section 11-36a-302 of the Impact Fees Act and has caused to be prepared a Sewer Impact Fee Facilities Plan ("IFFP"), as more particularly set forth in **Exhibit A**, attached hereto and incorporated herein by this reference. The Sewer IFFP has been prepared based on reasonable growth assumptions for the City and general demand characteristics of current and future users of sewer facilities within the City. The Sewer IFFP identifies the impact on system improvements created by development activity and estimates the proportionate share of the costs of impacts on system improvements that are reasonably related to new development activity. As shown in the Sewer IFFP, the City has considered all revenue sources to finance the impacts on system improvements, including grants, bonds, interfund loans, impact fees, and anticipated or accepted dedications of system improvements. The Sewer IFFP establishes that impact fees are necessary to maintain a proposed level of service that complies with applicable provisions of Section 11-36a-302 of the Impact Fees Act.

3. *Plan Certification.* The Sewer IFFP includes a written certification in accordance with Section 11-36a-306 of the Impact Fees Act.
4. *Adoption of Sewer Impact Fee Facilities Plan.* The Sewer IFFP as set forth in **Exhibit A**, is hereby adopted in its entirety by the City in accordance with applicable provisions of the Impact Fees Act.

SECTION V. WRITTEN IMPACT FEE ANALYSIS (IFA)

1. *Written Impact Fee Analysis Required.* Pursuant to Section 11-36a-303 of the Impact Fees Act, each local political subdivision intending to impose an impact fee shall prepare a written analysis of each impact fee to be imposed and a summary of the impact fee analysis designed to be understood by a lay person. The impact fee analysis shall identify the anticipated impact on or consumption of any existing capacity of a public facility by the anticipated development activity; identify the anticipated impact on system improvements required by the anticipated development activity to maintain the established level of service for each public facility; demonstrate how the anticipated impacts are reasonably related to the anticipated development activity; estimate the proportionate share of the costs for existing capacity that will be recouped and the costs of impacts on system improvements that are reasonably related to the new development activity; and identify how the impact fee is calculated.
2. *Sewer Impact Fee Analysis.* The City has, through its consultants, researched and analyzed the factors set forth in Section 11-36a-304 of the Impact Fees Act, including the proportionate share analysis required therein, and has caused to be prepared a Sewer Impact Fee Analysis ("IFA"), as more particularly set forth in **Exhibit B**, attached hereto and incorporated herein by this reference. The Sewer IFA identifies the impacts upon public facilities required by the development activity and demonstrates how those impacts on system improvements are reasonably related to the development activity, estimates the proportionate share of the costs of impacts on system improvements that are reasonably related to the development activity, and identify how the Sewer Impact Fees are calculated.
3. *Analysis Certification.* The Sewer IFA includes a written certification in accordance with Section 11-36a-306 of the Impact Fees Act.
4. *Adoption of Sewer Impact Fee Analysis.* The Sewer IFA as set forth in **Exhibit B**, is hereby adopted in its entirety by the City in accordance with applicable provisions of the Impact Fees Act.

SECTION VI. IMPACT FEE SCHEDULE AND FORMULA

1. *Impact Fee Schedule or Formula Required.* Pursuant to Section 11-36a-402 of the Impact Fees Act, the City is required to provide a schedule of impact fees for each type of development activity that specifies the amount of the impact fee to be imposed for each type of system improvement or the formula that the City will use to calculate each impact fee.

- 2 *Maximum Sewer Impact Fee Schedule.* Based on the Sewer IFA, the maximum Sewer Impact Fees which the City may impose on development activity within the defined Service Area is based on the following formula and specified fees:

**Non-Standard Users Impact Fee = (Average Gallons per Day/200)
x \$4416**

Single Family Residential Fee = \$4416 Max per unit

**Multi-Family / Non-Residential Fee = \$4416 per 16 Fixture Units
based on the 2015 International
Residential Code.**

In accordance with Section 11-36a-402 of the Impact Fees Act, the City is authorized to adjust the standard impact fee at the time the fee is charged to respond to (i) an unusual circumstance found in specific cases, (ii) a request is made for a prompt and individualized impact fee review for the development activity of the state, a school district, or a charter school and an offset or credit for a public facility for which an impact fee has been or will be collected, or (iii) a developer provides studies and data which how specific adjustments of the fee are applicable to the intended use(s).

3. *Developer Credits.* In accordance with Section 11-36a-402 of the Impact Fees Act, a developer may be allowed a credit against Sewer Impact Fees or proportionate reimbursement of Sewer Impact Fees if the developer dedicates land for a system improvement, builds and dedicates some or all of a system improvement; or dedicates a public facility that the City and the developer agree will reduce the need for a system improvement; *provided* that the system improvement is: (i) identified in the City's Sewer IFFP; and (ii) is required by the City as a condition of approving the development activity. To the extent required in Section 11-36a-402, the City shall provide a credit against Sewer Impact Fees for any dedication of land for, improvement to, or new construction of, any system improvements provided by the developer if the facilities are system improvements, as defined herein and included in the Sewer IFFP; or are dedicated to the public and offset the need for an identified system improvement.

SECTION VII. CALCULATION OF IMPACT FEES

1. *Impact Fee Calculations.* Pursuant to Section 11-36a-305, in calculating the proposed Sewer Impact Fees, the City has based such amounts calculated on realistic estimates and the assumptions underlying such estimates are more particularly disclosed in the Sewer IFA set forth in **Exhibit B**.
2. *Previously Incurred Costs.* To the extent that new growth and development will be served by previously constructed improvements, the City's Sewer Impact Fees may include public facility costs and outstanding bond costs related to the Sewer improvements previously incurred by the City. These costs may include all projects included in the Sewer IFFP which are under construction or completed but have not been utilized to their capacity, as evidenced by outstanding debt obligations. Any

future debt obligations determined to be necessitated by growth activity will also be included to offset the costs of future capital projects.

SECTION VIII. NOTICE AND HEARING

1. *Notice.* All noticing requirements set forth in the Impact Fees Act, including, but not limited to, provisions of Title 11, Chapter 36a, Part 501-504, have been provided. Copies of the Sewer IFFP and Sewer IFA, together with a summary designed to be understood by a lay person, and this Impact Fee Ordinance, have been made available to the public by placing said materials, in the Santaquin City Library and the Community Development Offices located in Santaquin City Hall at least ten (10) days before the public hearing. Notice has also been provided in accordance with applicable provisions of *Utah Code Ann.* § 10-9a-205.
2. *Hearing.* The City Council held a public hearing regarding the Sewer IFFP, the Sewer IFA, and this Sewer Impact Fee Ordinance, on January 4, 2017, and a copy of the Ordinance was available in its substantially final form at the City Recorder's Office in the Santaquin City Hall before the date of the hearing, all in conformity with the requirements of *Utah Code Ann.* § 10-9a-205 and applicable noticing provisions of the Impact Fees Act.

Section IX. Miscellaneous Provisions

1. Contrary Provisions Repealed. Any and all other provisions of the Santaquin City Code that are contrary to the provisions of this Ordinance are hereby repealed.
2. Codification, Inclusion in the Code, and Scrivener's Errors. It is the intent of the City Council that the provisions of this ordinance be made part of the Santaquin City Code as adopted, that sections of this ordinance may be re-numbered or re-lettered, that the word ordinance may be changed to section, chapter, or other such appropriate word or phrase in order to accomplish such intent regardless of whether such inclusion in a code is accomplished. Sections of the ordinance may be re-numbered or re-lettered. Typographical errors which do not affect the intent of this ordinance may be authorized by the City without need of public hearing by its filing a corrected or re-codified copy of the same with the City Recorder.
3. Severability. If any section, phrase, sentence, or portion of this ordinance is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such portion shall be deemed a separate, distinct, and independent provision, and such holding shall not affect the validity of the remaining portions thereof.
4. Other Impact Fees Not Repealed. Except as otherwise specifically provided herein, this Sewer Impact Fee Ordinance shall not repeal, modify or affect any impact fee of the City in existence as of the effective date of this Ordinance.

Section X. Effective Date.

The City Recorder shall deposit a copy of this ordinance in the official records of the City on January 4, 2017, and before 5:00 p.m. on that day, shall place a copy of this ordinance in three places within the City. This ordinance shall become effective at 5:00 p.m. on January 5, 2017.

PASSED AND APPROVED this 4th day of January, 2017.

SAN JACINTO CITY
Incorporated
January 4,
1932

By: _____

Mayor Kirk Hunsaker

ATTEST:

STATE OF UTAH

By: _____
Susan Farnsworth, City Recorder

Voting

Council Member Keith Broadhead	Aye
Council Member Marianne Stevenson	Aye
Council Member David Hathaway	Aye
Council Member Mandy Jeffs	Aye
Council Member Nick Miller	Aye

APPENDIX A

SANTAQUIN CITY

2016 SANITARY SEWER SYSTEM IMPACT FEE FACILITIES PLAN



Prepared by:

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240 West Center Street, Suite 200

Orem, Utah 84057

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www.jub.com

Adopted by Santaquin City Council

on _____



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SANITARY SEWER IMPACT FEE FACILITIES PLAN

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I. INTRODUCTION

A. Purpose

The purpose of the Sanitary Sewer Impact Fee Facilities Plan (IFFP) is to fulfill the requirements established in Utah Code Title 11 Chapter 36a, the “Impact Fees Act” relative to impact fee facilities plans. Appendix A contains the Impact Fee Act (Enacted by Chapter 47, 2011 General Session).

B. Background

The Sanitary Sewer Master Plan and Capital Facilities Plan (MP & CFP) is a document that establishes long term plans for Santaquin City’s sanitary sewer infrastructure. It also performs the following functions pertinent to the Impact Fee Facilities Plan:

1. Identifies the level of service
2. Distinguishes between system improvements and project improvements
3. Identifies system improvements that will be required in the future to accommodate future growth and associated costs
4. Identifies cost sharing based on proportional historical, current, and projected future growth.
5. Evaluates available funding sources
6. Recommends a schedule of project construction based on projected growth rates and prioritizes projects

This IFFP document extracts information from the 2016 Sanitary Sewer MP & CFP to provide the information that becomes the foundation for the Sanitary Sewer Impact Fee Analysis (IFA).

Appendix B contains the Sanitary Sewer MP & CFP by reference.

C. Scope

The Sanitary Sewer IFFP takes results and documentation from the MP & CFP and supplements it to provide the basis needed to complete the Sanitary Sewer Impact Fee Analysis. It is the intent that this document comply with the Utah Impact Fee Act as it currently exists.

II. LEVEL OF SERVICE

A. Level of Service from Sanitary Sewer Master Plan and Capital Facilities Plan

The 2016 Sanitary Sewer MP & CFP in Appendix B contains the sanitary sewer system level of service established for Santaquin City.

B. Service Areas

Utah Code requires the impact fee enactment to establish one or more service areas within which impact fees will be imposed. The impact fee related costs identified in this document will be assessed to a single service area encompassing the entire service area of the Santaquin sanitary sewer system.

III. EXISTING AND FUTURE SANITARY SEWER SYSTEM DEMANDS

The Sanitary Sewer MP & CFP contains a detailed description of existing and future demands on the sanitary sewer system. It illustrates the impact of future development on the system. See Appendix B for more information.

IV. EXISTING SYSTEM IMPROVEMENTS WITH RESERVE CAPACITY

Shown on the following pages are system facilities that have reserve capacity available to accommodate future growth, as well as the proportion of the facility capacity that is available for future growth. This existing capacity will gradually be consumed as development occurs.

A. Reserve Capacity of Collection/Transmission System

We evaluated the capacity of all modeled collection and transmission system pipelines that were deemed to be a system improvement according to the definition in the 2016 Sanitary Sewer MP & CFP and the Impact Fee Act. Most of these pipelines are at or over 8 inches in diameter. The process of determining reserve capacity in the collection/transmission system improvements is as follows:

1. Identify existing q/Q_{full} (peak flow divided by the maximum capacity of the pipe) in each existing pipe segment identified as a system improvement.

2. Identify buildout q/Q_{full} in the same existing pipe segments. In most cases the pipe would still have the ability to carry more flow at buildout, but we are only counting that portion of capacity that will actually get consumed for reserve capacity calculations.
3. Calculate the weighted average existing q/Q_{full} and the weighted average buildout q/Q_{full} for all pipes of a given size (weighted based on the length of the segment).
4. Calculate the reserve capacity as the difference between the weighted average of existing flow and the weighted average of buildout flow.

For the purposes of the 2016 Sanitary Sewer MP, CFP & IFFP, buildout demands are estimated to occur in the year 2060. The master plan identifies 2,835 ERUs in 2014, 4730 ERUs in 2024, and 16,289 ERUs at buildout. For this 2016 Impact Fee Facilities Plan, we interpolated the data shown in the 2016 Sanitary Sewer MP & CFP to calculate the demand and ERUs in 2016 and 2026. We estimate there to be 3199 ERUs in 2016, 5238 ERUs in 2026, and 16,289 ERUs at buildout. We therefore anticipate that 13,090 ERUs will be added between now (considered to be 2016) and buildout. We also anticipate that these ERUs of future growth will consume the portions of existing transmission/ distribution system pipe capacity over the next 44 years.

See Table C-1 in Appendix C for a detailed tabulation of each modeled pipe's 2016, 2026, and buildout q/Q_{full} , reserve capacity, capacity to be consumed by 2026, historical costs, as well as its impact fee eligible cost. Table C-2 in Appendix C contains similar data for pipes not modeled, and assume q/Q_{full} flow values match adjacent modeled pipes.

B. Reserve Capacity of the Water Reclamation Facility

The demand, reserve capacity, and capacity to be consumed by 2026 by the WRF is summarized below. These numbers are based on the 2016 Sanitary Sewer Master Plan and Capital Facilities Plan.

Table 1. WRF Reserve Capacity Summary

	Peak Instantaneous Flow (gpm)	Reserve Capacity	% Needed by 2026
2014¹	759	83%	13.25%
2016²	897	80%	
2026²	1,501	67%	
Buildout	4,562	0%	

¹Based on SCADA records

²Estimated by interpolation of 2014, 2024, and buildout data as contained in the master plan

Based on Table 1, the remaining capacity of the WRF in 2016 is 80%, with 13.25% needed by 2026 due to growth.

Similar reserve capacity calculations are performed for other infrastructure with Historic Costs paid for by Santaquin City, and are located in Appendix D.

C. Historic Costs

We used actual historic costs where available. Where they were not available we estimated the year of construction of the facility, we then estimated what it would cost to construct the facility in 2016 (using the same method used to estimate the cost of future system improvements), and calculated an approximate historic cost of construction based on the ratio of the Engineering News Record (ENR) construction cost index (see Table D-9 in Appendix D) between the year of construction and 2016. The reserve capacity to be consumed by 2026 is coupled with the actual or estimated historic cost to determine the impact fee eligible cost.

The total historic costs for modeled transmission/distribution lines eligible for impact fee collection is \$490,663 (see Table C-1 in Appendix C). Historical piping project costs are shown in Appendix D. There were about 32 miles of 6-inch and larger sanitary sewer mains that were not modeled. Santaquin City paid for the installation of part of these pipes. We conservatively estimated their reserve capacity to be the same as the modeled pipe directly downstream. These pipes the City paid for/installed had a total historical cost of \$217,155 (see Table C-2 in Appendix C).

The total construction cost for the WRF was \$18,380,688. The City's portion was \$7,869,642.80 for the WRF plus an additional \$815,045 for the associated piping (see Table D-2 in Appendix D). The percentage of reserve capacity estimated to be used by 2026 is 13.25% (see Table 1). The impact fee eligible cost for the

WRF is \$1,042,864. The associated piping cost that is impact fee eligible is captured as part of the non-modeled sanitary sewer pipe total shown above.

The historical cost paid by Santaquin City for the 126 MG Winter Storage Pond #2 was \$1,247,683. Based on calculations shown in Table D-5 in Appendix D, the impact fee eligible amount is 41.5% of the \$1,247,683, or \$517,369 (see Table D-5).

The total construction cost for the public works facility was \$2,530,000. The City spread the cost between sanitary sewer, pressure irrigation, culinary water, and parks at 25% each. Thus, sanitary sewer was responsible for \$632,500. Based on calculations shown in Table D-6 in Appendix D, the impact fee eligible amount is 15.57% of the \$632,500, or \$98,507 (see Table D-5).

Table D-7 in Appendix D summarizes other City Projects that were paid for by others. Table D-8 in Appendix D calculates the percent of Project 35 in Table 3 that will be used by 2026 for impact fee calculation purposes.

In addition to historic costs, Santaquin also paid for the master plan and capital facilities plan, impact fee facilities plan, and impact fee analysis. These costs totaled about \$76,250 and are impact fee eligible (see Table D-10 in Appendix D).

Table 2. Summary of Historic Project Costs and Engineering Costs Related to Planning that are Eligible for Impact Fee Collection

	Impact Fee Eligible Cost
Modeled Transmission/Distribution Lines	\$ 490,663
Non-Modeled Transmission/Distribution Lines	\$ 217,155
Wastewater Reclamation Facility	\$ 1,042,864
Winter Storage Pond #2	\$ 517,369
Public Works Building	\$ 98,507
MP/CFP, IFFP, IFA	\$ 78,250
Total	\$ 2,444,808

V. FUTURE PROJECTS TO ACCOMMODATE GROWTH

The 2016 Sanitary Sewer MP & CFP identifies which projects will be needed to accommodate future growth and determines at what point they will be needed. Given the growth rate contained in the master plan, it also calculates what year (or range of years, for later projects) Santaquin expects the projects to be needed.

Projects expected to be needed by 2026 to accommodate growth are listed in Table 3. Projects identified in the 2016 Sanitary Sewer MP & CFP that have been completed (e.g. Public Works Facility) were removed from the list of projects.

Table 3. Sanitary Sewer Projects Needed to Accommodate Future Growth

Project No.	Project Name	Estimated Total Cost (Rounded) ¹	Point at Which Project is Needed		Land Developer (Project Improvement)	City Funds	Impact Fee	% Capacity Consumed by 2026
			ERUs	Year				
Collection Projects								
1	Install 8" Sewer Main along Orchard Cove Rd from 770 N to 850 N	\$ 68,800	3,199	2016			\$ 68,800	9%
2	Install 8" Sewer Main along 100 E from 730 N to Canal	\$ 325,500	3,400	2017	\$ 162,750		\$ 162,750	16%
3	Install 18" Sewer Main Along Strawberry Canal Rd from 400 East to 100 East	\$ 314,300	4,081	2020			\$ 314,300	10%
4A	Install 10" Pipe along 400 East from 530 North to Strawberry Canal Rd and Remove Pipe on 530 North	\$ 344,000	4,394	2022			\$ 344,000	5%
4B	Install 8" Sewer Main North of 400 North and East of 400 East for Development	\$ 507,100	4,559	2023	\$ 507,100			3%
5	Install 8" Sewer Main along Strawberry Canal Rd from 4800 W (county) to 400 East	\$ 300,800	4,559	2023	\$ 60,175		\$ 240,625	3%
6	Install 8" Sewer Main along Center St from 100 S to Manhole at 70 South	\$ 18,500	6,422	2030			\$ 18,500	
7	Install Parallel Sewer Main along 400 E from South Side of 400 N to Next Manhole Directly North	\$ 8,600	6,987	2032			\$ 8,600	
8	Install 8" Sewer Main along 400 E from 200 S to 140 S	\$ 28,000	7,600	2034			\$ 28,000	
9	Install 8" Sewer Main along 4800 W (county) from 400 North to Strawberry Canal Rd	\$ 146,100	9,784	2040	\$ 146,100			
10	Install 8" Sewer Main along Strawberry Canal Rd from SR198 to 4800 W	\$ 348,900	10,479	2042			\$ 348,900	
11	Install 4" Force Main with Sewer Lift Station on 4800 W (county) and 12400 S (county)	\$ 697,500	11,349	2045			\$ 697,500	
12	Install 8" Sewer Main from SR198 and 13200 S (county) to 12400 S and 4800 W (county)	\$ 739,900	11,349	2045			\$ 739,900	
13	Install 8" Sewer Main Along 4800 W from 12800 S to 12400 S	\$ 257,900	11,654	2046			\$ 257,900	
14	Install 8" & 10" Sewer Main on Strawberry Canal Rd from 6250 West to Center Street Lift Station	\$ 536,200	11,654	2046			\$ 536,200	
15	Install 4" Force Main with Sewer Lift Station Northwest of Storage Ponds near Hwy 6	\$ 515,400	12,290	2048			\$ 515,400	
16	Install 8" Sewer Main West of Storage Ponds to Hwy 6 Lift Station (Project 15)	\$ 511,400	12,290	2048			\$ 511,400	
17	Install 8" Sewer Main from west to 14400 S (county) and Summit Ridge Pkwy	\$ 661,800	12,961	2050			\$ 661,800	
18	Install 4" Force Main with Sewer Lift Station south of Genola near Hwy 6	\$ 943,000	14,560	2055			\$ 943,000	
19	Install 8" Sewer Main Along Summit Ridge Pkwy from Frontage Rd to East side of I-15	\$ 262,100	15,574	2058			\$ 262,100	
20	Install 8" Sewer Main Along 1000 S from Pole Canyon Road to 300 W	\$ 131,500	16,289	2060	\$ 131,500			
Subtotal		\$ 7,667,300			\$ 1,007,625	\$ -	\$ 6,659,675	

Table 3. Sanitary Sewer Projects Needed to Accommodate Future Growth (cont'd)

Project No.	Project Name	Estimated Total Cost (Rounded) ¹	Point at Which Project is Needed		Land Developer (Project Improvement)	City Funds	Impact Fee	% Capacity Consumed by 2026
			ERUs	Year				
Treatment Projects								
21	Install 2nd Screw Press	\$ 578,000	2,957	2016/2017	\$ -	\$ -	\$ 578,000	77%
22	Activation of Membrane Tank #4	\$ 1,246,000	3,181	2016/2017	\$ -	\$ -	\$ 1,246,000	100%
23	Remove Baffle Wall in UV Channel and Install Additional Lamps	\$ 288,000	3,400	2017	\$ -	\$ -	\$ 288,000	54%
24	Install 4th Reclaimed Water Pump	\$ 125,000	3,412	2017	\$ -	\$ -	\$ 125,000	100%
25	10" Parallel Reclaimed Water Force Main	\$ 485,000	4,339	2022	\$ -	\$ -	\$ 485,000	72%
26	Center Street Lift Station Upgrades	\$ 239,000	4,370	2022	\$ -	\$ -	\$ 239,000	40%
27	Activation of Membrane Tank #5	\$ 1,246,000	4,772	2024	\$ -	\$ -	\$ 1,246,000	15%
28	Upsize Reclaimed Water Pumps	\$ 353,000	5,579	2027	\$ -	\$ -	\$ 353,000	
29	Upsize Screw Presses	\$ 1,725,000	5,913	2028	\$ -	\$ -	\$ 1,725,000	
30	Biological Process (3rd Train)	\$ 398,000	6,191	2029	\$ -	\$ -	\$ 398,000	
31	Biosolids Holding Tank	\$ 627,000	6,191	2029	\$ -	\$ -	\$ 627,000	
32	12" Parallel Sewer Force Main (RR to WRF)	\$ 51,000	6,555	2030	\$ -	\$ -	\$ 51,000	
33	Populate 2nd UV Channel	\$ 840,000	6,800	2031	\$ -	\$ -	\$ 840,000	
33	Activation of Membrane Tank #6 (Change backpulse to membrane tank)	\$ 1,230,000	7,953	2035	\$ -	\$ -	\$ 1,230,000	
33	Expand Headworks Building and Add Additional Drum Screen	\$ 840,000	8,609	2037	\$ -	\$ -	\$ 840,000	
Subtotal		\$10,271,000			\$ -	\$ -	\$10,271,000	
Storage Projects								
34	Construct Additional North 106 MG Winter Storage Pond	\$ 3,180,000	4,348	2022	\$ -	\$ -	\$ 3,180,000	30%
Subtotal		\$ 3,180,000			\$ -	\$ -	\$ 3,180,000	
Total		\$21,118,300			\$ 1,007,625	\$ -	\$20,110,675	

¹Costs are in 2014 dollars

We have chosen the commonly accepted period of 10 years, which is supported by the following reasoning. Current legislation requires that impact fees collected must be spent within 6 years. Impact fees will be collected as calculated in an IFA based on this IFFP until the IFFP is updated, which should happen no less frequently than every 5 years. So impact fees based on this IFFP may be collected 4 years after its adoption. Those fees would need to be spent within 6 years thereafter, which would be 10 years from the date of IFFP adoption. Thus projects as far as 10 years into the future are included in this IFFP.

VI. FUNDING FUTURE PROJECTS

D. Consideration of Funding Sources

Section 302 (2) of the Impact Fee Act requires the City to “generally consider all revenue sources, including impact fees and anticipated dedication of system improvements, to finance the impacts on system improvements.” By doing so,

the City ensures fair and equitable treatment among users and concludes whether impact fees are the most appropriate method to fund the growth.

The Sanitary Sewer MP & CFP considered multiple revenue sources, including impact fees and anticipated dedication of system improvements. It establishes that impact fees are necessary to achieve an equitable allocation to the costs borne in the past and to be borne in the future, in comparison to the benefits already received and yet to be received.

E. Impact Fee Credit

The Impact Fee Act allows a "...credit against impact fees for any dedication of land for, improvement to, or new construction of, any system improvements provided by the developer if the facilities: are system improvements; or are dedicated to the public; and offset the need for an identified system improvement." The improvements do not necessarily need to be made in the proposed development. This plan does not contemplate a credit owed, and any credits given in the future would be negotiated between the developer and the City on a case by case basis as they arise.

APPENDIX A - UTAH IMPACT FEE ACT

Chapter 36a Impact Fees Act

Part 1 General Provisions

11-36a-101 Title.

This chapter is known as the "Impact Fees Act."

Enacted by Chapter 47, 2011 General Session

11-36a-102 Definitions.

As used in this chapter:

- (1)
 - (a) "Affected entity" means each county, municipality, local district under Title 17B, Limited Purpose Local Government Entities - Local Districts, special service district under Title 17D, Chapter 1, Special Service District Act, school district, interlocal cooperation entity established under Chapter 13, Interlocal Cooperation Act, and specified public utility:
 - (i) whose services or facilities are likely to require expansion or significant modification because of the facilities proposed in the proposed impact fee facilities plan; or
 - (ii) that has filed with the local political subdivision or private entity a copy of the general or long-range plan of the county, municipality, local district, special service district, school district, interlocal cooperation entity, or specified public utility.
 - (b) "Affected entity" does not include the local political subdivision or private entity that is required under Section 11-36a-501 to provide notice.
- (2) "Charter school" includes:
 - (a) an operating charter school;
 - (b) an applicant for a charter school whose application has been approved by a charter school authorizer as provided in Title 53A, Chapter 1a, Part 5, The Utah Charter Schools Act; and
 - (c) an entity that is working on behalf of a charter school or approved charter applicant to develop or construct a charter school building.
- (3) "Development activity" means any construction or expansion of a building, structure, or use, any change in use of a building or structure, or any changes in the use of land that creates additional demand and need for public facilities.
- (4) "Development approval" means:
 - (a) except as provided in Subsection (4)(b), any written authorization from a local political subdivision that authorizes the commencement of development activity;
 - (b) development activity, for a public entity that may develop without written authorization from a local political subdivision;
 - (c) a written authorization from a public water supplier, as defined in Section 73-1-4, or a private water company:
 - (i) to reserve or provide:
 - (A) a water right;
 - (B) a system capacity; or
 - (C) a distribution facility; or
 - (ii) to deliver for a development activity:
 - (A) culinary water; or

- (B) irrigation water; or
- (d) a written authorization from a sanitary sewer authority, as defined in Section 10-9a-103:
 - (i) to reserve or provide:
 - (A) sewer collection capacity; or
 - (B) treatment capacity; or
 - (ii) to provide sewer service for a development activity.
- (5) "Enactment" means:
 - (a) a municipal ordinance, for a municipality;
 - (b) a county ordinance, for a county; and
 - (c) a governing board resolution, for a local district, special service district, or private entity.
- (6) "Encumber" means:
 - (a) a pledge to retire a debt; or
 - (b) an allocation to a current purchase order or contract.
- (7) "Hookup fee" means a fee for the installation and inspection of any pipe, line, meter, or appurtenance to connect to a gas, water, sewer, storm water, power, or other utility system of a municipality, county, local district, special service district, or private entity.
- (8)
 - (a) "Impact fee" means a payment of money imposed upon new development activity as a condition of development approval to mitigate the impact of the new development on public infrastructure.
 - (b) "Impact fee" does not mean a tax, a special assessment, a building permit fee, a hookup fee, a fee for project improvements, or other reasonable permit or application fee.
- (9) "Impact fee analysis" means the written analysis of each impact fee required by Section 11-36a-303.
- (10) "Impact fee facilities plan" means the plan required by Section 11-36a-301.
- (11) "Level of service" means the defined performance standard or unit of demand for each capital component of a public facility within a service area.
- (12)
 - (a) "Local political subdivision" means a county, a municipality, a local district under Title 17B, Limited Purpose Local Government Entities - Local Districts, or a special service district under Title 17D, Chapter 1, Special Service District Act.
 - (b) "Local political subdivision" does not mean a school district, whose impact fee activity is governed by Section 53A-20-100.5.
- (13) "Private entity" means an entity in private ownership with at least 100 individual shareholders, customers, or connections, that is located in a first, second, third, or fourth class county and provides water to an applicant for development approval who is required to obtain water from the private entity either as a:
 - (a) specific condition of development approval by a local political subdivision acting pursuant to a prior agreement, whether written or unwritten, with the private entity; or
 - (b) functional condition of development approval because the private entity:
 - (i) has no reasonably equivalent competition in the immediate market; and
 - (ii) is the only realistic source of water for the applicant's development.
- (14)
 - (a) "Project improvements" means site improvements and facilities that are:
 - (i) planned and designed to provide service for development resulting from a development activity;
 - (ii) necessary for the use and convenience of the occupants or users of development resulting from a development activity; and

- (iii) not identified or reimbursed as a system improvement.
- (b) "Project improvements" does not mean system improvements.
- (15) "Proportionate share" means the cost of public facility improvements that are roughly proportionate and reasonably related to the service demands and needs of any development activity.
- (16) "Public facilities" means only the following impact fee facilities that have a life expectancy of 10 or more years and are owned or operated by or on behalf of a local political subdivision or private entity:
 - (a) water rights and water supply, treatment, storage, and distribution facilities;
 - (b) wastewater collection and treatment facilities;
 - (c) storm water, drainage, and flood control facilities;
 - (d) municipal power facilities;
 - (e) roadway facilities;
 - (f) parks, recreation facilities, open space, and trails;
 - (g) public safety facilities; or
 - (h) environmental mitigation as provided in Section 11-36a-205.
- (17)
 - (a) "Public safety facility" means:
 - (i) a building constructed or leased to house police, fire, or other public safety entities; or
 - (ii) a fire suppression vehicle costing in excess of \$500,000.
 - (b) "Public safety facility" does not mean a jail, prison, or other place of involuntary incarceration.
- (18)
 - (a) "Roadway facilities" means a street or road that has been designated on an officially adopted subdivision plat, roadway plan, or general plan of a political subdivision, together with all necessary appurtenances.
 - (b) "Roadway facilities" includes associated improvements to a federal or state roadway only when the associated improvements:
 - (i) are necessitated by the new development; and
 - (ii) are not funded by the state or federal government.
 - (c) "Roadway facilities" does not mean federal or state roadways.
- (19)
 - (a) "Service area" means a geographic area designated by an entity that imposes an impact fee on the basis of sound planning or engineering principles in which a public facility, or a defined set of public facilities, provides service within the area.
 - (b) "Service area" may include the entire local political subdivision or an entire area served by a private entity.
- (20) "Specified public agency" means:
 - (a) the state;
 - (b) a school district; or
 - (c) a charter school.
- (21)
 - (a) "System improvements" means:
 - (i) existing public facilities that are:
 - (A) identified in the impact fee analysis under Section 11-36a-304; and
 - (B) designed to provide services to service areas within the community at large; and
 - (ii) future public facilities identified in the impact fee analysis under Section 11-36a-304 that are intended to provide services to service areas within the community at large.
 - (b) "System improvements" does not mean project improvements.

Amended by Chapter 363, 2014 General Session

Part 2 Impact Fees

11-36a-201 Impact fees.

- (1) A local political subdivision or private entity shall ensure that any imposed impact fees comply with the requirements of this chapter.
- (2) A local political subdivision and private entity may establish impact fees only for those public facilities defined in Section 11-36a-102.
- (3) Nothing in this chapter may be construed to repeal or otherwise eliminate an impact fee in effect on the effective date of this chapter that is pledged as a source of revenues to pay bonded indebtedness that was incurred before the effective date of this chapter.

Enacted by Chapter 47, 2011 General Session

11-36a-202 Prohibitions on impact fees.

- (1) A local political subdivision or private entity may not:
 - (a) impose an impact fee to:
 - (i) cure deficiencies in a public facility serving existing development;
 - (ii) raise the established level of service of a public facility serving existing development;
 - (iii) recoup more than the local political subdivision's or private entity's costs actually incurred for excess capacity in an existing system improvement; or
 - (iv) include an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with:
 - (A) generally accepted cost accounting practices; and
 - (B) the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursement;
 - (b) delay the construction of a school or charter school because of a dispute with the school or charter school over impact fees; or
 - (c) impose or charge any other fees as a condition of development approval unless those fees are a reasonable charge for the service provided.
- (2)
 - (a) Notwithstanding any other provision of this chapter, a political subdivision or private entity may not impose an impact fee:
 - (i) on residential components of development to pay for a public safety facility that is a fire suppression vehicle;
 - (ii) on a school district or charter school for a park, recreation facility, open space, or trail;
 - (iii) on a school district or charter school unless:
 - (A) the development resulting from the school district's or charter school's development activity directly results in a need for additional system improvements for which the impact fee is imposed; and
 - (B) the impact fee is calculated to cover only the school district's or charter school's proportionate share of the cost of those additional system improvements; or

- (iv) to the extent that the impact fee includes a component for a law enforcement facility, on development activity for:
 - (A) the Utah National Guard;
 - (B) the Utah Highway Patrol; or
 - (C) a state institution of higher education that has its own police force.
- (b)
 - (i) Notwithstanding any other provision of this chapter, a political subdivision or private entity may not impose an impact fee on development activity that consists of the construction of a school, whether by a school district or a charter school, if:
 - (A) the school is intended to replace another school, whether on the same or a different parcel;
 - (B) the new school creates no greater demand or need for public facilities than the school or school facilities, including any portable or modular classrooms that are on the site of the replaced school at the time that the new school is proposed; and
 - (C) the new school and the school being replaced are both within the boundary of the local political subdivision or the jurisdiction of the private entity.
 - (ii) If the imposition of an impact fee on a new school is not prohibited under Subsection (2)(b)
 - (i) because the new school creates a greater demand or need for public facilities than the school being replaced, the impact fee shall be based only on the demand or need that the new school creates for public facilities that exceeds the demand or need that the school being replaced creates for those public facilities.
- (c) Notwithstanding any other provision of this chapter, a political subdivision or private entity may impose an impact fee for a road facility on the state only if and to the extent that:
 - (i) the state's development causes an impact on the road facility; and
 - (ii) the portion of the road facility related to an impact fee is not funded by the state or by the federal government.
- (3) Notwithstanding any other provision of this chapter, a local political subdivision may impose and collect impact fees on behalf of a school district if authorized by Section 53A-20-100.5.

Enacted by Chapter 47, 2011 General Session

11-36a-203 Private entity assessment of impact fees -- Charges for water rights, physical infrastructure -- Notice -- Audit.

- (1) A private entity:
 - (a) shall comply with the requirements of this chapter before imposing an impact fee; and
 - (b) except as otherwise specified in this chapter, is subject to the same requirements of this chapter as a local political subdivision.
- (2) A private entity may only impose a charge for water rights or physical infrastructure necessary to provide water or sewer facilities by imposing an impact fee.
- (3) Where notice and hearing requirements are specified, a private entity shall comply with the notice and hearing requirements for local districts.
- (4) A private entity that assesses an impact fee under this chapter is subject to the audit requirements of Title 51, Chapter 2a, Accounting Reports from Political Subdivisions, Interlocal Organizations, and Other Local Entities Act.

Enacted by Chapter 47, 2011 General Session

11-36a-204 Other names for impact fees.

- (1) A fee that meets the definition of impact fee under Section 11-36a-102 is an impact fee subject to this chapter, regardless of what term the local political subdivision or private entity uses to refer to the fee.
- (2) A local political subdivision or private entity may not avoid application of this chapter to a fee that meets the definition of an impact fee under Section 11-36a-102 by referring to the fee by another name.

Enacted by Chapter 47, 2011 General Session

11-36a-205 Environmental mitigation impact fees.

Notwithstanding the requirements and prohibitions of this chapter, a local political subdivision may impose and assess an impact fee for environmental mitigation when:

- (1) the local political subdivision has formally agreed to fund a Habitat Conservation Plan to resolve conflicts with the Endangered Species Act of 1973, 16 U.S.C. Sec. 1531, et seq. or other state or federal environmental law or regulation;
- (2) the impact fee bears a reasonable relationship to the environmental mitigation required by the Habitat Conservation Plan; and
- (3) the legislative body of the local political subdivision adopts an ordinance or resolution:
 - (a) declaring that an impact fee is required to finance the Habitat Conservation Plan;
 - (b) establishing periodic sunset dates for the impact fee; and
 - (c) requiring the legislative body to:
 - (i) review the impact fee on those sunset dates;
 - (ii) determine whether or not the impact fee is still required to finance the Habitat Conservation Plan; and
 - (iii) affirmatively reauthorize the impact fee if the legislative body finds that the impact fee must remain in effect.

Enacted by Chapter 47, 2011 General Session

Part 3
Establishing an Impact Fee

11-36a-301 Impact fee facilities plan.

- (1) Before imposing an impact fee, each local political subdivision or private entity shall, except as provided in Subsection (3), prepare an impact fee facilities plan to determine the public facilities required to serve development resulting from new development activity.
- (2) A municipality or county need not prepare a separate impact fee facilities plan if the general plan required by Section 10-9a-401 or 17-27a-401, respectively, contains the elements required by Section 11-36a-302.
- (3) A local political subdivision or a private entity with a population, or serving a population, of less than 5,000 as of the last federal census that charges impact fees of less than \$250,000 annually need not comply with the impact fee facilities plan requirements of this part, but shall ensure that:
 - (a) the impact fees that the local political subdivision or private entity imposes are based upon a reasonable plan that otherwise complies with the common law and this chapter; and
 - (b) each applicable notice required by this chapter is given.

Amended by Chapter 200, 2013 General Session

11-36a-302 Impact fee facilities plan requirements -- Limitations -- School district or charter school.

- (1)
 - (a) An impact fee facilities plan shall:
 - (i) identify the existing level of service;
 - (ii) subject to Subsection (1)(c), establish a proposed level of service;
 - (iii) identify any excess capacity to accommodate future growth at the proposed level of service;
 - (iv) identify demands placed upon existing public facilities by new development activity at the proposed level of service; and
 - (v) identify the means by which the political subdivision or private entity will meet those growth demands.
 - (b) A proposed level of service may diminish or equal the existing level of service.
 - (c) A proposed level of service may:
 - (i) exceed the existing level of service if, independent of the use of impact fees, the political subdivision or private entity provides, implements, and maintains the means to increase the existing level of service for existing demand within six years of the date on which new growth is charged for the proposed level of service; or
 - (ii) establish a new public facility if, independent of the use of impact fees, the political subdivision or private entity provides, implements, and maintains the means to increase the existing level of service for existing demand within six years of the date on which new growth is charged for the proposed level of service.
- (2) In preparing an impact fee facilities plan, each local political subdivision shall generally consider all revenue sources to finance the impacts on system improvements, including:
 - (a) grants;
 - (b) bonds;
 - (c) interfund loans;
 - (d) impact fees; and
 - (e) anticipated or accepted dedications of system improvements.
- (3) A local political subdivision or private entity may only impose impact fees on development activities when the local political subdivision's or private entity's plan for financing system improvements establishes that impact fees are necessary to maintain a proposed level of service that complies with Subsection (1)(b) or (c).
- (4)
 - (a) Subject to Subsection (4)(c), the impact fee facilities plan shall include a public facility for which an impact fee may be charged or required for a school district or charter school if the local political subdivision is aware of the planned location of the school district facility or charter school:
 - (i) through the planning process; or
 - (ii) after receiving a written request from a school district or charter school that the public facility be included in the impact fee facilities plan.
 - (b) If necessary, a local political subdivision or private entity shall amend the impact fee facilities plan to reflect a public facility described in Subsection (4)(a).
 - (c)

- (i) In accordance with Subsections 10-9a-305(3) and 17-27a-305(3), a local political subdivision may not require a school district or charter school to participate in the cost of any roadway or sidewalk.
- (ii) Notwithstanding Subsection (4)(c)(i), if a school district or charter school agrees to build a roadway or sidewalk, the roadway or sidewalk shall be included in the impact fee facilities plan if the local jurisdiction has an impact fee facilities plan for roads and sidewalks.

Amended by Chapter 200, 2013 General Session

11-36a-303 Impact fee analysis.

- (1) Subject to the notice requirements of Section 11-36a-504, each local political subdivision or private entity intending to impose an impact fee shall prepare a written analysis of each impact fee.
- (2) Each local political subdivision or private entity that prepares an impact fee analysis under Subsection (1) shall also prepare a summary of the impact fee analysis designed to be understood by a lay person.

Enacted by Chapter 47, 2011 General Session

11-36a-304 Impact fee analysis requirements.

- (1) An impact fee analysis shall:
 - (a) identify the anticipated impact on or consumption of any existing capacity of a public facility by the anticipated development activity;
 - (b) identify the anticipated impact on system improvements required by the anticipated development activity to maintain the established level of service for each public facility;
 - (c) subject to Subsection (2), demonstrate how the anticipated impacts described in Subsections (1)(a) and (b) are reasonably related to the anticipated development activity;
 - (d) estimate the proportionate share of:
 - (i) the costs for existing capacity that will be recouped; and
 - (ii) the costs of impacts on system improvements that are reasonably related to the new development activity; and
 - (e) based on the requirements of this chapter, identify how the impact fee was calculated.
- (2) In analyzing whether or not the proportionate share of the costs of public facilities are reasonably related to the new development activity, the local political subdivision or private entity, as the case may be, shall identify, if applicable:
 - (a) the cost of each existing public facility that has excess capacity to serve the anticipated development resulting from the new development activity;
 - (b) the cost of system improvements for each public facility;
 - (c) other than impact fees, the manner of financing for each public facility, such as user charges, special assessments, bonded indebtedness, general taxes, or federal grants;
 - (d) the relative extent to which development activity will contribute to financing the excess capacity of and system improvements for each existing public facility, by such means as user charges, special assessments, or payment from the proceeds of general taxes;
 - (e) the relative extent to which development activity will contribute to the cost of existing public facilities and system improvements in the future;
 - (f) the extent to which the development activity is entitled to a credit against impact fees because the development activity will dedicate system improvements or public facilities that will offset the demand for system improvements, inside or outside the proposed development;

- (g) extraordinary costs, if any, in servicing the newly developed properties; and
- (h) the time-price differential inherent in fair comparisons of amounts paid at different times.

Enacted by Chapter 47, 2011 General Session

11-36a-305 Calculating impact fees.

- (1) In calculating an impact fee, a local political subdivision or private entity may include:
 - (a) the construction contract price;
 - (b) the cost of acquiring land, improvements, materials, and fixtures;
 - (c) the cost for planning, surveying, and engineering fees for services provided for and directly related to the construction of the system improvements; and
 - (d) for a political subdivision, debt service charges, if the political subdivision might use impact fees as a revenue stream to pay the principal and interest on bonds, notes, or other obligations issued to finance the costs of the system improvements.
- (2) In calculating an impact fee, each local political subdivision or private entity shall base amounts calculated under Subsection (1) on realistic estimates, and the assumptions underlying those estimates shall be disclosed in the impact fee analysis.

Enacted by Chapter 47, 2011 General Session

11-36a-306 Certification of impact fee analysis.

- (1) An impact fee facilities plan shall include a written certification from the person or entity that prepares the impact fee facilities plan that states the following: "I certify that the attached impact fee facilities plan:
 - 1. includes only the costs of public facilities that are:
 - a. allowed under the Impact Fees Act; and
 - b. actually incurred; or
 - c. projected to be incurred or encumbered within six years after the day on which each impact fee is paid;
 - 2. does not include:
 - a. costs of operation and maintenance of public facilities;
 - b. costs for qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents; or
 - c. an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with generally accepted cost accounting practices and the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursement; and
 - 3. complies in each and every relevant respect with the Impact Fees Act."
- (2) An impact fee analysis shall include a written certification from the person or entity that prepares the impact fee analysis which states as follows: "I certify that the attached impact fee analysis:
 - 1. includes only the costs of public facilities that are:
 - a. allowed under the Impact Fees Act; and
 - b. actually incurred; or
 - c. projected to be incurred or encumbered within six years after the day on which each impact fee is paid;
 - 2. does not include:
 - a. costs of operation and maintenance of public facilities;

- b. costs for qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents; or
 - c. an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with generally accepted cost accounting practices and the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursement;
- 3. offsets costs with grants or other alternate sources of payment; and
 - 4. complies in each and every relevant respect with the Impact Fees Act."

Amended by Chapter 278, 2013 General Session

Part 4 Enactment of Impact Fees

11-36a-401 Impact fee enactment.

- (1)
 - (a) A local political subdivision or private entity wishing to impose impact fees shall pass an impact fee enactment in accordance with Section 11-36a-402.
 - (b) An impact fee imposed by an impact fee enactment may not exceed the highest fee justified by the impact fee analysis.
- (2) An impact fee enactment may not take effect until 90 days after the day on which the impact fee enactment is approved.

Enacted by Chapter 47, 2011 General Session

11-36a-402 Required provisions of impact fee enactment.

- (1) A local political subdivision or private entity shall ensure, in addition to the requirements described in Subsections (2) and (3), that an impact fee enactment contains:
 - (a) a provision establishing one or more service areas within which the local political subdivision or private entity calculates and imposes impact fees for various land use categories;
 - (b)
 - (i) a schedule of impact fees for each type of development activity that specifies the amount of the impact fee to be imposed for each type of system improvement; or
 - (ii) the formula that the local political subdivision or private entity, as the case may be, will use to calculate each impact fee;
 - (c) a provision authorizing the local political subdivision or private entity, as the case may be, to adjust the standard impact fee at the time the fee is charged to:
 - (i) respond to:
 - (A) unusual circumstances in specific cases; or
 - (B) a request for a prompt and individualized impact fee review for the development activity of the state, a school district, or a charter school and an offset or credit for a public facility for which an impact fee has been or will be collected; and
 - (ii) ensure that the impact fees are imposed fairly; and
 - (d) a provision governing calculation of the amount of the impact fee to be imposed on a particular development that permits adjustment of the amount of the impact fee based upon studies and data submitted by the developer.

- (2) A local political subdivision or private entity shall ensure that an impact fee enactment allows a developer, including a school district or a charter school, to receive a credit against or proportionate reimbursement of an impact fee if the developer:
 - (a) dedicates land for a system improvement;
 - (b) builds and dedicates some or all of a system improvement; or
 - (c) dedicates a public facility that the local political subdivision or private entity and the developer agree will reduce the need for a system improvement.
- (3) A local political subdivision or private entity shall include a provision in an impact fee enactment that requires a credit against impact fees for any dedication of land for, improvement to, or new construction of, any system improvements provided by the developer if the facilities:
 - (a) are system improvements; or
 - (b)
 - (i) are dedicated to the public; and
 - (ii) offset the need for an identified system improvement.

Enacted by Chapter 47, 2011 General Session

11-36a-403 Other provisions of impact fee enactment.

- (1) A local political subdivision or private entity may include a provision in an impact fee enactment that:
 - (a) provides an impact fee exemption for:
 - (i) development activity attributable to:
 - (A) low income housing;
 - (B) the state;
 - (C) subject to Subsection (2), a school district; or
 - (D) subject to Subsection (2), a charter school; or
 - (ii) other development activity with a broad public purpose; and
 - (b) except for an exemption under Subsection (1)(a)(i)(A), establishes one or more sources of funds other than impact fees to pay for that development activity.
- (2) An impact fee enactment that provides an impact fee exemption for development activity attributable to a school district or charter school shall allow either a school district or a charter school to qualify for the exemption on the same basis.
- (3) An impact fee enactment that repeals or suspends the collection of impact fees is exempt from the notice requirements of Section 11-36a-504.

Enacted by Chapter 47, 2011 General Session

**Part 5
Notice**

11-36a-501 Notice of intent to prepare an impact fee facilities plan.

- (1) Before preparing or amending an impact fee facilities plan, a local political subdivision or private entity shall provide written notice of its intent to prepare or amend an impact fee facilities plan.
- (2) A notice required under Subsection (1) shall:
 - (a) indicate that the local political subdivision or private entity intends to prepare or amend an impact fee facilities plan;

- (b) describe or provide a map of the geographic area where the proposed impact fee facilities will be located; and
 - (c) subject to Subsection (3), be posted on the Utah Public Notice Website created under Section 63F-1-701.
- (3) For a private entity required to post notice on the Utah Public Notice Website under Subsection (2)(c):
- (a) the private entity shall give notice to the general purpose local government in which the private entity's private business office is located; and
 - (b) the general purpose local government described in Subsection (3)(a) shall post the notice on the Utah Public Notice Website.

Enacted by Chapter 47, 2011 General Session

11-36a-502 Notice to adopt or amend an impact fee facilities plan.

- (1) If a local political subdivision chooses to prepare an independent impact fee facilities plan rather than include an impact fee facilities element in the general plan in accordance with Section 11-36a-301, the local political subdivision shall, before adopting or amending the impact fee facilities plan:
- (a) give public notice, in accordance with Subsection (2), of the plan or amendment at least 10 days before the day on which the public hearing described in Subsection (1)(d) is scheduled;
 - (b) make a copy of the plan or amendment, together with a summary designed to be understood by a lay person, available to the public;
 - (c) place a copy of the plan or amendment and summary in each public library within the local political subdivision; and
 - (d) hold a public hearing to hear public comment on the plan or amendment.
- (2) With respect to the public notice required under Subsection (1)(a):
- (a) each municipality shall comply with the notice and hearing requirements of, and, except as provided in Subsection 11-36a-701(3)(b)(ii), receive the protections of Sections 10-9a-205 and 10-9a-801 and Subsection 10-9a-502(2);
 - (b) each county shall comply with the notice and hearing requirements of, and, except as provided in Subsection 11-36a-701(3)(b)(ii), receive the protections of Sections 17-27a-205 and 17-27a-801 and Subsection 17-27a-502(2); and
 - (c) each local district, special service district, and private entity shall comply with the notice and hearing requirements of, and receive the protections of, Section 17B-1-111.
- (3) Nothing contained in this section or Section 11-36a-503 may be construed to require involvement by a planning commission in the impact fee facilities planning process.

Enacted by Chapter 47, 2011 General Session

11-36a-503 Notice of preparation of an impact fee analysis.

- (1) Before preparing or contracting to prepare an impact fee analysis, each local political subdivision or, subject to Subsection (2), private entity shall post a public notice on the Utah Public Notice Website created under Section 63F-1-701.
- (2) For a private entity required to post notice on the Utah Public Notice Website under Subsection (1):
- (a) the private entity shall give notice to the general purpose local government in which the private entity's primary business is located; and

- (b) the general purpose local government described in Subsection (2)(a) shall post the notice on the Utah Public Notice Website.

Enacted by Chapter 47, 2011 General Session

11-36a-504 Notice of intent to adopt impact fee enactment -- Hearing -- Protections.

- (1) Before adopting an impact fee enactment:
 - (a) a municipality legislative body shall:
 - (i) comply with the notice requirements of Section 10-9a-205 as if the impact fee enactment were a land use ordinance;
 - (ii) hold a hearing in accordance with Section 10-9a-502 as if the impact fee enactment were a land use ordinance; and
 - (iii) except as provided in Subsection 11-36a-701(3)(b)(ii), receive the protections of Section 10-9a-801 as if the impact fee were a land use ordinance;
 - (b) a county legislative body shall:
 - (i) comply with the notice requirements of Section 17-27a-205 as if the impact fee enactment were a land use ordinance;
 - (ii) hold a hearing in accordance with Section 17-27a-502 as if the impact fee enactment were a land use ordinance; and
 - (iii) except as provided in Subsection 11-36a-701(3)(b)(ii), receive the protections of Section 17-27a-801 as if the impact fee were a land use ordinance;
 - (c) a local district or special service district shall:
 - (i) comply with the notice and hearing requirements of Section 17B-1-111; and
 - (ii) receive the protections of Section 17B-1-111;
 - (d) a local political subdivision shall at least 10 days before the day on which a public hearing is scheduled in accordance with this section:
 - (i) make a copy of the impact fee enactment available to the public; and
 - (ii) post notice of the local political subdivision's intent to enact or modify the impact fee, specifying the type of impact fee being enacted or modified, on the Utah Public Notice Website created under Section 63F-1-701; and
 - (e) a local political subdivision shall submit a copy of the impact fee analysis and a copy of the summary of the impact fee analysis prepared in accordance with Section 11-36a-303 on its website or to each public library within the local political subdivision.
- (2) Subsection (1)(a) or (b) may not be construed to require involvement by a planning commission in the impact fee enactment process.

Enacted by Chapter 47, 2011 General Session

Part 6
Impact Fee Proceeds

11-36a-601 Accounting of impact fees.

A local political subdivision that collects an impact fee shall:

- (1) establish a separate interest bearing ledger account for each type of public facility for which an impact fee is collected;

- (2) deposit a receipt for an impact fee in the appropriate ledger account established under Subsection (1);
- (3) retain the interest earned on each fund or ledger account in the fund or ledger account;
- (4) at the end of each fiscal year, prepare a report on each fund or ledger account showing:
 - (a) the source and amount of all money collected, earned, and received by the fund or ledger account; and
 - (b) each expenditure from the fund or ledger account; and
- (5) produce a report that:
 - (a) identifies impact fee funds by the year in which they were received, the project from which the funds were collected, the impact fee projects for which the funds were budgeted, and the projected schedule for expenditure;
 - (b) is in a format developed by the state auditor;
 - (c) is certified by the local political subdivision's chief financial officer; and
 - (d) is transmitted annually to the state auditor.

Enacted by Chapter 47, 2011 General Session

11-36a-602 Expenditure of impact fees.

- (1) A local political subdivision may expend impact fees only for a system improvement:
 - (a) identified in the impact fee facilities plan; and
 - (b) for the specific public facility type for which the fee was collected.
- (2)
 - (a) Except as provided in Subsection (2)(b), a local political subdivision shall expend or encumber the impact fees for a permissible use within six years of their receipt.
 - (b) A local political subdivision may hold the fees for longer than six years if it identifies, in writing:
 - (i) an extraordinary and compelling reason why the fees should be held longer than six years; and
 - (ii) an absolute date by which the fees will be expended.

Enacted by Chapter 47, 2011 General Session

11-36a-603 Refunds.

A local political subdivision shall refund any impact fee paid by a developer, plus interest earned, when:

- (1) the developer does not proceed with the development activity and has filed a written request for a refund;
- (2) the fee has not been spent or encumbered; and
- (3) no impact has resulted.

Enacted by Chapter 47, 2011 General Session

**Part 7
Challenges**

11-36a-701 Impact fee challenge.

- (1) A person or an entity residing in or owning property within a service area, or an organization, association, or a corporation representing the interests of persons or entities owning property within a service area, has standing to file a declaratory judgment action challenging the validity of an impact fee.
- (2)
 - (a) A person or an entity required to pay an impact fee who believes the impact fee does not meet the requirements of law may file a written request for information with the local political subdivision who established the impact fee.
 - (b) Within two weeks after the receipt of the request for information under Subsection (2)(a), the local political subdivision shall provide the person or entity with the impact fee analysis, the impact fee facilities plan, and any other relevant information relating to the impact fee.
- (3)
 - (a) Subject to the time limitations described in Section 11-36a-702 and procedures set forth in Section 11-36a-703, a person or an entity that has paid an impact fee that was imposed by a local political subdivision may challenge:
 - (i) if the impact fee enactment was adopted on or after July 1, 2000:
 - (A) subject to Subsection (3)(b)(i) and except as provided in Subsection (3)(b)(ii), whether the local political subdivision complied with the notice requirements of this chapter with respect to the imposition of the impact fee; and
 - (B) whether the local political subdivision complied with other procedural requirements of this chapter for imposing the impact fee; and
 - (ii) except as limited by Subsection (3)(c), the impact fee.
 - (b)
 - (i) The sole remedy for a challenge under Subsection (3)(a)(i)(A) is the equitable remedy of requiring the local political subdivision to correct the defective notice and repeat the process.
 - (ii) The protections given to a municipality under Section 10-9a-801 and to a county under Section 17-27a-801 do not apply in a challenge under Subsection (3)(a)(i)(A).
 - (c) The sole remedy for a challenge under Subsection (3)(a)(ii) is a refund of the difference between what the person or entity paid as an impact fee and the amount the impact fee should have been if it had been correctly calculated.
- (4)
 - (a) Subject to Subsection (4)(d), if an impact fee that is the subject of an advisory opinion under Section 13-43-205 is listed as a cause of action in litigation, and that cause of action is litigated on the same facts and circumstances and is resolved consistent with the advisory opinion:
 - (i) the substantially prevailing party on that cause of action:
 - (A) may collect reasonable attorney fees and court costs pertaining to the development of that cause of action from the date of the delivery of the advisory opinion to the date of the court's resolution; and
 - (B) shall be refunded an impact fee held to be in violation of this chapter, based on the difference between the impact fee paid and what the impact fee should have been if the government entity had correctly calculated the impact fee; and
 - (ii) in accordance with Section 13-43-206, a government entity shall refund an impact fee held to be in violation of this chapter to the person who was in record title of the property on the day on which the impact fee for the property was paid if:

- (A) the impact fee was paid on or after the day on which the advisory opinion on the impact fee was issued but before the day on which the final court ruling on the impact fee is issued; and
 - (B) the person described in Subsection (3)(a)(ii) requests the impact fee refund from the government entity within 30 days after the day on which the court issued the final ruling on the impact fee.
- (b) A government entity subject to Subsection (3)(a)(ii) shall refund the impact fee based on the difference between the impact fee paid and what the impact fee should have been if the government entity had correctly calculated the impact fee.
 - (c) Subsection (4) may not be construed to create a new cause of action under land use law.
 - (d) Subsection (3)(a) does not apply unless the resolution described in Subsection (3)(a) is final.

Enacted by Chapter 47, 2011 General Session

11-36a-702 Time limitations.

- (1) A person or an entity that initiates a challenge under Subsection 11-36a-701(3)(a) may not initiate that challenge unless it is initiated within:
 - (a) for a challenge under Subsection 11-36a-701(3)(a)(i)(A), 30 days after the day on which the person or entity pays the impact fee;
 - (b) for a challenge under Subsection 11-36a-701(3)(a)(i)(B), 180 days after the day on which the person or entity pays the impact fee; or
 - (c) for a challenge under Subsection 11-36a-701(3)(a)(ii), one year after the day on which the person or entity pays the impact fee.
- (2) The deadline to file an action in district court is tolled from the date that a challenge is filed using an administrative appeals procedure described in Section 11-36a-703 until 30 days after the day on which a final decision is rendered in the administrative appeals procedure.

Enacted by Chapter 47, 2011 General Session

11-36a-703 Procedures for challenging an impact fee.

- (1)
 - (a) A local political subdivision may establish, by ordinance or resolution, or a private entity may establish by prior written policy, an administrative appeals procedure to consider and decide a challenge to an impact fee.
 - (b) If the local political subdivision or private entity establishes an administrative appeals procedure, the local political subdivision shall ensure that the procedure includes a requirement that the local political subdivision make its decision no later than 30 days after the day on which the challenge to the impact fee is filed.
- (2) A challenge under Subsection 11-36a-701(3)(a) is initiated by filing:
 - (a) if the local political subdivision or private entity has established an administrative appeals procedure under Subsection (1), the necessary document, under the administrative appeals procedure, for initiating the administrative appeal;
 - (b) a request for arbitration as provided in Section 11-36a-705; or
 - (c) an action in district court.
- (3) The sole remedy for a successful challenge under Subsection 11-36a-701(1), which determines that an impact fee process was invalid, or an impact fee is in excess of the fee allowed under this act, is a declaration that, until the local political subdivision or private entity enacts a new

- impact fee study, from the date of the decision forward, the entity may charge an impact fee only as the court has determined would have been appropriate if it had been properly enacted.
- (4) Subsections (2), (3), 11-36a-701(3), and 11-36a-702(1) may not be construed as requiring a person or an entity to exhaust administrative remedies with the local political subdivision before filing an action in district court under Subsections (2), (3), 11-36a-701(3), and 11-36a-702(1).
 - (5) The judge may award reasonable attorney fees and costs to the prevailing party in an action brought under this section.
 - (6) This chapter may not be construed as restricting or limiting any rights to challenge impact fees that were paid before the effective date of this chapter.

Amended by Chapter 200, 2013 General Session

11-36a-704 Mediation.

- (1) In addition to the methods of challenging an impact fee under Section 11-36a-701, a specified public agency may require a local political subdivision or private entity to participate in mediation of any applicable impact fee.
- (2) To require mediation, the specified public agency shall submit a written request for mediation to the local political subdivision or private entity.
- (3) The specified public agency may submit a request for mediation under this section at any time, but no later than 30 days after the day on which an impact fee is paid.
- (4) Upon the submission of a request for mediation under this section, the local political subdivision or private entity shall:
 - (a) cooperate with the specified public agency to select a mediator; and
 - (b) participate in the mediation process.

Enacted by Chapter 47, 2011 General Session

11-36a-705 Arbitration.

- (1) A person or entity intending to challenge an impact fee under Section 11-36a-703 shall file a written request for arbitration with the local political subdivision within the time limitation described in Section 11-36a-702 for the applicable type of challenge.
- (2) If a person or an entity files a written request for arbitration under Subsection (1), an arbitrator or arbitration panel shall be selected as follows:
 - (a) the local political subdivision and the person or entity filing the request may agree on a single arbitrator within 10 days after the day on which the request for arbitration is filed; or
 - (b) if a single arbitrator is not agreed to in accordance with Subsection (2)(a), an arbitration panel shall be created with the following members:
 - (i) each party shall select an arbitrator within 20 days after the date the request is filed; and
 - (ii) the arbitrators selected under Subsection (2)(b)(i) shall select a third arbitrator.
- (3) The arbitration panel shall hold a hearing on the challenge no later than 30 days after the day on which:
 - (a) the single arbitrator is agreed on under Subsection (2)(a); or
 - (b) the two arbitrators are selected under Subsection (2)(b)(i).
- (4) The arbitrator or arbitration panel shall issue a decision in writing no later than 10 days after the day on which the hearing described in Subsection (3) is completed.
- (5) Except as provided in this section, each arbitration shall be governed by Title 78B, Chapter 11, Utah Uniform Arbitration Act.
- (6) The parties may agree to:

- (a) binding arbitration;
 - (b) formal, nonbinding arbitration; or
 - (c) informal, nonbinding arbitration.
- (7) If the parties agree in writing to binding arbitration:
- (a) the arbitration shall be binding;
 - (b) the decision of the arbitration panel shall be final;
 - (c) neither party may appeal the decision of the arbitration panel; and
 - (d) notwithstanding Subsection (10), the person or entity challenging the impact fee may not also challenge the impact fee under Subsection 11-36a-701(1) or Subsection 11-36a-703(2)(a) or (2)(c).
- (8)
- (a) Except as provided in Subsection (8)(b), if the parties agree to formal, nonbinding arbitration, the arbitration shall be governed by the provisions of Title 63G, Chapter 4, Administrative Procedures Act.
 - (b) For purposes of applying Title 63G, Chapter 4, Administrative Procedures Act, to a formal, nonbinding arbitration under this section, notwithstanding Section 63G-4-502, "agency" means a local political subdivision.
- (9)
- (a) An appeal from a decision in an informal, nonbinding arbitration may be filed with the district court in which the local political subdivision is located.
 - (b) An appeal under Subsection (9)(a) shall be filed within 30 days after the day on which the arbitration panel issues a decision under Subsection (4).
 - (c) The district court shall consider de novo each appeal filed under this Subsection (9).
 - (d) Notwithstanding Subsection (10), a person or entity that files an appeal under this Subsection (9) may not also challenge the impact fee under Subsection 11-36a-701(1) or Subsection 11-36a-703(2)(a) or (2)(c).
- (10)
- (a) Except as provided in Subsections (7)(d) and (9)(d), this section may not be construed to prohibit a person or entity from challenging an impact fee as provided in Subsection 11-36a-701(1) or Subsection 11-36a-703(2)(a) or (2)(c).
 - (b) The filing of a written request for arbitration within the required time in accordance with Subsection (1) tolls all time limitations under Section 11-36a-702 until the day on which the arbitration panel issues a decision.
- (11) The person or entity filing a request for arbitration and the local political subdivision shall equally share all costs of an arbitration proceeding under this section.

Enacted by Chapter 47, 2011 General Session

**APPENDIX B – SANITARY SEWER
MASTER PLAN & CAPITAL FACILITIES PLAN**

The 2014 Santaquin City Sanitary Sewer Master Plan and Capital Facilities Plan is incorporated herein by reference.

APPENDIX C – DETAILS OF PIPES WITH RESERVE CAPACITY

Table C-1. Existing Sanitary Sewer Pipes Reserve Capacity Detail

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Paid for by or Installed as part of:	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost	
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026				
					A	B	C	D	E		F	H				K
FME_1	4	3,043	After 1996	Future or Developer	Future	Future	Future	Future	Future	17%	17%	Future	Future	No	\$ -	\$ -
CDT-179	4	6,652	After 1996	Future or Developer	Future	Future	Future	Future	Future	62%	62%	Future	Future	No	\$ -	\$ -
FML_1	4	3,926	After 1996	Future or Developer	Future	Future	Future	Future	Future	90%	90%	Future	Future	No	\$ -	\$ -
CDT-177	4	4,507	After 1996	Future or Developer	Future	Future	Future	Future	Future	39%	39%	Future	Future	No	\$ -	\$ -
XJ7	8	338	1995	Original System	25%	27%	32%	33%	51%	51%	47%	13%	Yes	\$ 11,112	\$ 1,440	
XJ18	8	148	1995	Original System	15%	16%	19%	20%	31%	31%	50%	14%	Yes	\$ 4,878	\$ 670	
XJ22	8	353	1995	Original System	14%	15%	18%	19%	30%	30%	50%	14%	Yes	\$ 11,588	\$ 1,584	
XJ23	8	203	1995	Original System	17%	19%	23%	24%	38%	38%	52%	14%	Yes	\$ 6,664	\$ 938	
XJ24	8	413	1995	Original System	3%	3%	3%	6%	48%	48%	94%	6%	Yes	\$ 13,567	\$ 810	
XJ30	8	149	1995	Original System	13%	14%	17%	18%	29%	29%	53%	14%	Yes	\$ 4,881	\$ 695	
XJ44	8	184	1995	Original System	18%	20%	25%	26%	42%	42%	53%	14%	Yes	\$ 6,042	\$ 835	
XJ45	8	337	1995	Original System	19%	21%	26%	27%	44%	44%	53%	14%	Yes	\$ 11,073	\$ 1,591	
XJ47	8	267	1995	Original System	6%	6%	6%	6%	10%	10%	41%	5%	Yes	\$ 8,774	\$ 468	
XJ49	8	64	1995	Original System	8%	9%	11%	11%	18%	18%	53%	14%	Yes	\$ 2,102	\$ 293	
XJ57	8	263	1995	Original System	7%	8%	10%	10%	17%	17%	53%	14%	Yes	\$ 8,625	\$ 1,190	
XJ58	8	320	1995	Original System	5%	5%	5%	5%	8%	8%	38%	4%	Yes	\$ 10,498	\$ 421	
XJ65	8	253	1995	Original System	8%	9%	11%	11%	19%	19%	53%	14%	Yes	\$ 8,298	\$ 1,162	
XJ67	8	324	1995	Original System	5%	5%	5%	5%	8%	8%	39%	4%	Yes	\$ 10,630	\$ 437	
XJ75	8	132	After 1996	Developer/IF	1%	1%	1%	1%	2%	2%	44%	20%	No	\$ -	\$ -	
XJ80	8	358	1995	Original System	8%	9%	11%	12%	19%	19%	53%	14%	Yes	\$ 11,763	\$ 1,621	
XJ81	8	296	1995	Original System	7%	7%	8%	8%	16%	16%	54%	6%	Yes	\$ 9,715	\$ 570	
XJ82	8	296	1995	Original System	9%	9%	10%	10%	19%	19%	54%	6%	Yes	\$ 9,726	\$ 631	
XJ83	8	316	1995	Original System	2%	2%	2%	2%	4%	4%	47%	7%	Yes	\$ 10,371	\$ 706	
XJ84	8	306	1995	Original System	2%	2%	2%	2%	4%	4%	46%	6%	Yes	\$ 10,039	\$ 645	
XJ91	8	323	1995	Original System	5%	5%	5%	5%	8%	8%	39%	5%	Yes	\$ 10,597	\$ 524	
XJ92	8	296	1995	Original System	7%	7%	7%	7%	10%	10%	33%	3%	Yes	\$ 9,727	\$ 319	
XJ95	8	72	1995	Original System	5%	5%	6%	7%	11%	11%	53%	15%	Yes	\$ 2,366	\$ 352	
XJ96	8	276	1995	Original System	7%	7%	7%	8%	12%	12%	40%	5%	Yes	\$ 9,065	\$ 487	
XJ97	8	281	1995	Original System	7%	7%	8%	8%	12%	12%	40%	5%	Yes	\$ 9,229	\$ 491	
XJ104	8	193	After 1996	Developer/IF	1%	1%	1%	1%	2%	2%	47%	19%	No	\$ -	\$ -	
XJ105	8	46	After 1996	Developer/IF	1%	1%	2%	2%	3%	3%	45%	21%	No	\$ -	\$ -	
XJ109	8	296	1995	Original System	6%	7%	10%	10%	16%	16%	54%	19%	Yes	\$ 9,726	\$ 1,856	
XJ111	8	301	1995	Original System	1%	1%	1%	1%	2%	2%	46%	6%	Yes	\$ 9,878	\$ 602	
XJ114	8	293	1995	Original System	16%	18%	24%	27%	68%	68%	74%	13%	Yes	\$ 9,611	\$ 1,243	
XJ116	8	303	1995	Original System	3%	3%	3%	3%	5%	5%	44%	5%	Yes	\$ 9,940	\$ 543	
XJ133	8	297	1995	Original System	10%	11%	15%	17%	43%	43%	74%	13%	Yes	\$ 9,759	\$ 1,265	
XJ158	8	275	1995	Original System	17%	19%	26%	28%	73%	73%	74%	13%	Yes	\$ 9,036	\$ 1,170	
XJ186	8	342	1995	Original System	11%	13%	17%	19%	50%	50%	74%	13%	Yes	\$ 11,223	\$ 1,450	
XJ196	8	305	1995	Original System	7%	7%	8%	9%	25%	25%	72%	9%	Yes	\$ 10,006	\$ 907	
XJ210	8	289	1995	Original System	10%	10%	12%	14%	37%	37%	72%	9%	Yes	\$ 9,496	\$ 833	
XJ220	8	12	1995	Original System	7%	7%	8%	9%	27%	27%	74%	9%	Yes	\$ 396	\$ 34	
XJ230	8	276	1995	Original System	5%	5%	6%	7%	20%	20%	74%	9%	Yes	\$ 9,053	\$ 772	
XJ243	8	254	1995	Original System	5%	5%	6%	7%	21%	21%	74%	8%	Yes	\$ 8,347	\$ 707	
XJ244	8	451	1998	City Funds - Main Street	8%	9%	11%	11%	14%	14%	40%	16%	Yes	\$ 17,837	\$ 2,810	
XJ247	8	431	1998	City Funds - Main Street	8%	9%	11%	12%	15%	15%	40%	16%	Yes	\$ 17,059	\$ 2,710	
XJ248	8	402	1998	City Funds - Main Street	10%	11%	14%	14%	19%	19%	39%	16%	Yes	\$ 15,913	\$ 2,482	
XJ250	8	369	1998	City Funds - Main Street	9%	10%	12%	12%	16%	16%	39%	15%	Yes	\$ 14,602	\$ 2,223	

Table C-1. Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Paid for by or Installed as part of	g/Full					Max % Capacity Ever Used F = Max (B, D, and E)	Proportion of Max Capacity Ever Used			Impact Fee Eligible? I	Estimated Project Cost J	Estimated Impact Fee-Eligible Cost K =(H x J) if "Yes"
					2014 A	2016 B	2024 C	2026 D	2060 E		2016 to 2060 G =(F - B) / F	2016 to 2026 H =(D - B) / F				
XJ255	8	87	1995	Original System	2%	2%	2%	2%	15%	15%	89%	5%	No	\$ 2,868	\$ -	
XJ259	8	346	1995	Original System	28%	31%	38%	38%	31%	38%	19%	19%	Yes	\$ 11,370	\$ 2,169	
XJ260	8	490	1995	Original System	27%	30%	37%	37%	30%	37%	19%	19%	Yes	\$ 16,105	\$ 3,070	
XJ261	8	418	1995	Original System	27%	29%	37%	36%	30%	36%	19%	19%	Yes	\$ 13,739	\$ 2,614	
XJ262	8	418	1995	Original System	49%	54%	67%	66%	55%	66%	19%	19%	Yes	\$ 13,727	\$ 2,604	
XJ263	8	111	1995	Original System	28%	31%	38%	38%	31%	38%	19%	19%	Yes	\$ 3,644	\$ 690	
XJ264	8	308	1995	Original System	37%	40%	51%	50%	30%	50%	19%	19%	Yes	\$ 10,134	\$ 1,962	
XJ265	8	417	1995	Original System	34%	37%	47%	46%	39%	46%	19%	19%	Yes	\$ 13,708	\$ 2,596	
XJ268	8	416	1995	Original System	25%	28%	36%	35%	21%	35%	20%	20%	Yes	\$ 13,682	\$ 2,680	
XJ270	8	416	1995	Original System	25%	27%	35%	34%	21%	34%	20%	20%	Yes	\$ 13,682	\$ 2,673	
XJ280	8	288	After 1996	Developer/IF	4%	4%	5%	5%	6%	6%	30%	17%	No	\$ -	\$ -	
XJ281	8	110	After 1996	Developer/IF	3%	3%	4%	4%	4%	4%	31%	16%	No	\$ -	\$ -	
XJ286	8	401	1995	Original System	3%	3%	3%	3%	9%	9%	71%	5%	Yes	\$ 13,162	\$ 655	
XJ289	8	415	1995	Original System	41%	45%	58%	56%	34%	56%	20%	20%	Yes	\$ 13,621	\$ 2,686	
XJ298	8	135	1995	Original System	49%	54%	69%	68%	41%	68%	20%	20%	Yes	\$ 4,435	\$ 870	
XJ299	8	403	1995	Original System	53%	58%	74%	72%	44%	72%	20%	20%	Yes	\$ 13,231	\$ 2,600	
CDT-81	8	308	After 1996	Developer/IF	1%	1%	1%	1%	1%	1%	19%	12%	No	\$ -	\$ 2,057	
XJ300	8	302	1995	Original System	50%	55%	72%	70%	36%	70%	21%	21%	Yes	\$ 9,907	\$ 2,057	
XJ301	8	297	1995	Original System	44%	48%	63%	61%	31%	61%	21%	21%	Yes	\$ 9,747	\$ 2,057	
XJ302	8	342	1995	Original System	32%	34%	41%	40%	24%	40%	15%	15%	Yes	\$ 11,253	\$ 1,705	
XJ303	8	407	After 1996	Developer/IF	4%	4%	5%	5%	6%	6%	31%	16%	No	\$ -	\$ -	
XJ304	8	260	1995	Original System	33%	35%	42%	41%	25%	41%	15%	15%	Yes	\$ 8,553	\$ 1,310	
XJ307	8	278	After 1996	Developer/IF	3%	4%	4%	4%	5%	5%	30%	16%	No	\$ -	\$ -	
XJ308	8	240	1995	Original System	6%	7%	10%	10%	2%	10%	32%	32%	Yes	\$ 7,886	\$ 2,545	
XJ312	8	243	1995	Original System	16%	17%	21%	22%	51%	51%	67%	11%	Yes	\$ 7,985	\$ 853	
XJ319	8	401	1995	Original System	3%	3%	3%	4%	11%	11%	71%	5%	Yes	\$ 13,177	\$ 634	
XJ326	8	308	1995	Original System	4%	5%	8%	8%	2%	8%	32%	32%	Yes	\$ 10,121	\$ 3,205	
XJ327	8	314	1995	Original System	27%	29%	36%	35%	21%	35%	17%	17%	Yes	\$ 10,332	\$ 1,767	
XJ328	8	299	1995	Original System	16%	17%	21%	23%	52%	52%	67%	11%	Yes	\$ 9,826	\$ 1,054	
XJ332	8	267	1995	Original System	28%	31%	38%	37%	22%	37%	17%	17%	Yes	\$ 8,777	\$ 1,507	
XJ335	8	287	1995	Original System	29%	31%	39%	38%	21%	38%	18%	18%	Yes	\$ 9,439	\$ 1,673	
XJ336	8	295	1995	Original System	26%	29%	36%	35%	20%	35%	18%	18%	Yes	\$ 9,697	\$ 1,713	
XJ337	8	244	1995	Original System	19%	21%	26%	25%	14%	25%	18%	18%	Yes	\$ 8,013	\$ 1,450	
XJ338	8	354	1995	Original System	26%	28%	36%	35%	19%	35%	18%	18%	Yes	\$ 11,640	\$ 2,126	
XJ339	8	270	1995	Original System	15%	16%	20%	20%	10%	20%	19%	19%	Yes	\$ 8,876	\$ 1,681	
XJ340	8	296	1995	Original System	14%	16%	20%	19%	10%	19%	19%	19%	Yes	\$ 9,710	\$ 1,844	
XJ349	8	402	1995	Original System	3%	3%	3%	3%	9%	9%	70%	5%	Yes	\$ 13,197	\$ 655	
XJ349	8	483	1995	Original System	13%	15%	19%	19%	32%	32%	54%	16%	Yes	\$ 15,867	\$ 2,485	
XJ350	8	355	1995	Original System	28%	31%	40%	41%	71%	71%	56%	14%	Yes	\$ 11,664	\$ 1,689	
XJ353	8	297	1995	Original System	5%	6%	9%	9%	2%	9%	32%	32%	Yes	\$ 9,760	\$ 3,128	
XJ355	8	295	1995	Original System	1%	1%	1%	3%	30%	30%	97%	6%	No	\$ 9,694	\$ -	
XJ359	8	287	1995	Original System	10%	11%	13%	14%	25%	25%	58%	13%	Yes	\$ 9,433	\$ 1,203	
XJ362	8	297	1995	Original System	5%	6%	10%	9%	2%	9%	32%	32%	Yes	\$ 9,744	\$ 3,164	
XJ371	8	297	1995	Original System	2%	2%	2%	4%	44%	44%	97%	6%	No	\$ 9,759	\$ -	
XJ374	8	401	1995	Original System	2%	2%	2%	3%	8%	8%	71%	5%	Yes	\$ 13,160	\$ 664	
XJ380	8	206	1995	Original System	5%	6%	7%	7%	10%	10%	44%	18%	Yes	\$ 6,769	\$ 1,189	
XJ383	8	394	1995	Original System	1%	1%	1%	1%	4%	4%	80%	5%	No	\$ 12,941	\$ -	
XJ387	8	304	1995	Original System	4%	5%	9%	8%	1%	8%	34%	34%	Yes	\$ 9,989	\$ 3,358	
XJ392	8	351	1995	Original System	2%	2%	3%	3%	5%	5%	50%	6%	Yes	\$ 11,533	\$ 66	
XJ393	8	393	1995	Original System	7%	7%	7%	9%	37%	37%	81%	5%	No	\$ 12,920	\$ -	

Table C-1. Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Paid for by or Installed as part of:	q/Qfull					Max % Capacity Ever Used F = Max(B, D, and E)	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost J	Estimated Impact Fee-Eligible Cost K = (H x J) if I is "Yes"
					2014 A	2016 B	2024 C	2026 D	2060 E		2016 to 2060 G = (F - B) / F	2016 to 2026 H = (D - B) / F			
XJ405	8	378	1995	Original System	1%	1%	1%	1%	3%	3%	82%	5%	No	\$ 12,434	\$ -
XJ417	8	374	1995	Original System	4%	3%	8%	8%	1%	8%	34%	34%	Yes	\$ 12,273	\$ 4,186
XJ418	8	353	1995	Original System	2%	2%	3%	3%	5%	5%	50%	6%	Yes	\$ 11,599	\$ 690
XJ424	8	380	1995	Original System	1%	1%	1%	1%	5%	5%	82%	5%	No	\$ 12,474	\$ -
XJ437	8	347	After 1996	Developer/IF	4%	3%	9%	8%	1%	8%	34%	34%	No	\$ -	\$ -
XJ439	8	344	1995	Original System	7%	7%	7%	7%	10%	10%	30%	5%	Yes	\$ 11,288	\$ 533
XJ445	8	328	After 1996	Developer/IF	1%	1%	1%	1%	3%	3%	82%	5%	No	\$ -	\$ -
XJ455	8	339	After 1996	Developer/IF	7%	9%	16%	15%	0%	15%	0%	0%	No	\$ -	\$ -
XJ456	8	200	After 1996	Developer/IF	7%	10%	16%	15%	0%	15%	0%	0%	No	\$ -	\$ -
XJ457	8	366	After 1996	Developer/IF	5%	6%	9%	9%	1%	9%	34%	34%	No	\$ -	\$ -
XJ469	8	278	1995	Original System	3%	4%	8%	9%	28%	28%	84%	16%	Yes	\$ 9,122	\$ 1,427
XJ486	8	402	1995	Original System	4%	5%	9%	10%	33%	33%	84%	16%	Yes	\$ 13,218	\$ 2,087
XJ512	8	362	1995	Original System	3%	4%	8%	9%	27%	27%	83%	16%	Yes	\$ 11,891	\$ 1,903
XJ519	8	332	After 1996	Developer/IF	2%	2%	2%	2%	3%	3%	25%	4%	No	\$ -	\$ -
XJ528	8	163	After 1996	Developer/IF	8%	10%	16%	16%	20%	20%	48%	32%	No	\$ -	\$ -
XJ529	8	283	After 1996	Developer/IF	3%	3%	6%	6%	7%	7%	48%	31%	No	\$ -	\$ -
XJ544	8	276	After 1996	Original System	5%	6%	8%	8%	13%	13%	55%	19%	Yes	\$ 9,073	\$ 1,756
XJ545	8	398	After 1996	Developer/IF	1%	1%	1%	1%	1%	1%	0%	0%	No	\$ -	\$ -
XJ552	8	188	1995	Original System	15%	16%	20%	21%	34%	34%	53%	14%	Yes	\$ 6,180	\$ 892
XJ555	8	400	After 1996	Developer/IF	1%	1%	1%	1%	1%	1%	0%	0%	No	\$ -	\$ -
XJ557	8	177	After 1996	Developer/IF	0%	1%	1%	1%	1%	1%	0%	0%	No	\$ -	\$ -
XJ558	8	484	After 1996	Developer/IF	0%	0%	2%	2%	2%	2%	75%	75%	No	\$ -	\$ -
XJ561	8	101	1995	Original System	7%	8%	11%	11%	16%	16%	49%	19%	Yes	\$ 3,327	\$ 625
XJ562	8	60	1995	Original System	15%	17%	21%	22%	36%	36%	53%	14%	Yes	\$ 1,976	\$ 269
XJ565	8	167	1995	Original System	6%	7%	10%	10%	15%	15%	55%	19%	Yes	\$ 5,489	\$ 1,069
XJ568	8	158	1995	Original System	18%	19%	24%	25%	41%	41%	53%	14%	Yes	\$ 5,184	\$ 720
XJ577	8	398	1995	Original System	2%	2%	2%	2%	2%	2%	0%	0%	No	\$ 13,084	\$ -
XJ713	8	146	1995	Original System	20%	21%	26%	26%	41%	41%	49%	13%	Yes	\$ 4,795	\$ 635
XJ750	8	331	After 1996	Developer/IF	1%	1%	1%	1%	3%	3%	82%	5%	No	\$ -	\$ -
XJ751	8	62	After 1996	Developer/IF	1%	1%	1%	1%	4%	4%	81%	5%	No	\$ -	\$ -
XJ850	8	447	After 1996	Developer/IF	7%	8%	12%	12%	12%	12%	32%	32%	No	\$ -	\$ -
UN19	8	89	1995	Original System	1%	1%	2%	2%	2%	2%	5%	5%	Yes	\$ 2,925	\$ 146
XJ11	8	191	1995	Original System	15%	16%	19%	19%	30%	30%	47%	13%	Yes	\$ 6,279	\$ 806
XJ712	8	112	1995	Original System	11%	11%	14%	14%	22%	22%	48%	13%	Yes	\$ 3,667	\$ 479
XJ454	8	259	After 1996	Developer/IF	6%	6%	6%	8%	32%	32%	81%	5%	No	\$ -	\$ -
XJ513	8	350	1995	Original System	3%	4%	6%	7%	21%	21%	83%	16%	Yes	\$ 11,507	\$ 1,823
XJ606	8	16	1995	Original System	4%	5%	8%	9%	27%	27%	83%	16%	Yes	\$ 515	\$ 81
N30	8	328	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
N34	8	386	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
N36	8	68	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
N38	8	211	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
N40	8	196	After 1996	Developer/IF	9%	13%	24%	28%	97%	97%	87%	16%	No	\$ -	\$ -
XJ492	8	187	After 1996	Developer/IF	7%	9%	15%	17%	52%	52%	83%	16%	No	\$ -	\$ -
N44	8	116	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
N48	8	256	After 1996	Developer/IF	Future	Future	Future	Future	Future	Future	Future	Future	No	\$ -	\$ -
N50	8	290	After 1996	Developer/IF	Future	Future	Future	Future	Future	Future	Future	Future	No	\$ -	\$ -
N52	8	1,060	After 1996	Developer/IF	Future	Future	Future	Future	Future	Future	Future	Future	No	\$ -	\$ -
N54	8	160	After 1996	Developer/IF	Future	Future	Future	Future	Future	Future	Future	Future	No	\$ -	\$ -
N56	8	108	After 1996	Developer/IF	Future	Future	Future	Future	Future	Future	Future	Future	No	\$ -	\$ -
N58	8	356	After 1996	Developer/IF	Future	Future	Future	Future	Future	Future	Future	Future	No	\$ -	\$ -

Table C-1. Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Paid for by or Installed as part of	q/Qtot					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		G = (F - B) / F	H = (D - B) / F			
N60	8	156	After 1996	Developer/IF	Future	Future	Future	Future	Future	0%	Future	Future	No	\$ -	\$ -
N62	8	185	After 1996	Developer/IF	Future	Future	Future	Future	Future	0%	Future	Future	No	\$ -	\$ -
XI686	8	246	After 1996	Developer/IF	1%	1%	1%	2%	9%	9%	91%	11%	No	\$ -	\$ -
XI687	8	314	After 1996	Developer/IF	1%	1%	1%	2%	9%	9%	91%	11%	No	\$ -	\$ -
N100	8	263	After 1996	Future or Developer	Future	Future	Future	Future	Future	0%	Future	Future	No	\$ -	\$ -
N102	8	375	After 1996	Future or Developer	Future	Future	Future	Future	Future	0%	Future	Future	No	\$ -	\$ -
N104	8	395	After 1996	Future or Developer	Future	Future	Future	Future	Future	0%	Future	Future	No	\$ -	\$ -
N106	8	328	After 1996	Future or Developer	Future	Future	Future	Future	Future	0%	Future	Future	No	\$ -	\$ -
N108	8	352	After 1996	Future or Developer	Future	Future	Future	Future	Future	0%	Future	Future	No	\$ -	\$ -
XI494	8	130	After 1996	Developer/IF	3%	4%	7%	7%	13%	13%	68%	23%	No	\$ -	\$ -
XI495	8	298	After 1996	Developer/IF	1%	2%	3%	3%	9%	9%	81%	16%	No	\$ -	\$ -
XI655	8	226	After 1996	Developer/IF	1%	1%	2%	2%	2%	2%	32%	32%	No	\$ -	\$ -
CDT-83	8	311	After 1996	Developer/IF	4%	4%	5%	5%	5%	5%	21%	11%	No	\$ -	\$ -
CDT-85	8	404	After 1996	Developer/IF	1%	2%	4%	4%	4%	4%	51%	41%	No	\$ -	\$ -
N120	8	185	After 1996	Developer/IF	2%	2%	3%	3%	3%	3%	30%	30%	No	\$ -	\$ -
XI869	8	532	After 1996	Developer/IF	1%	1%	2%	3%	5%	5%	69%	24%	No	\$ -	\$ -
XI755	8	132	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI756	8	82	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI757	8	80	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI758	8	176	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI759	8	200	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI760	8	217	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI761	8	328	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI762	8	350	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI763	8	347	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI764	8	144	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI795	8	149	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI794	8	144	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI766	8	159	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI765	8	159	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
XI60	8	375	1995	Original System	1%	2%	3%	3%	5%	5%	68%	28%	Yes	\$ 12,330	\$ 3,395
XI62	8	23	1995	Original System	1%	1%	2%	3%	4%	4%	68%	28%	Yes	\$ 748	\$ 206
XI66	8	213	1995	Original System	1%	1%	3%	3%	5%	5%	68%	27%	Yes	\$ 7,003	\$ 1,892
XI74	8	270	1995	Original System	1%	1%	2%	2%	4%	4%	68%	27%	Yes	\$ 8,876	\$ 2,385
XI108	8	346	1995	Original System	1%	1%	2%	2%	4%	4%	69%	28%	Yes	\$ 11,372	\$ 3,135
XI121	8	295	1995	Original System	1%	1%	2%	2%	4%	4%	68%	27%	Yes	\$ 9,677	\$ 2,600
XI151	8	268	1995	Original System	1%	1%	2%	2%	3%	3%	68%	27%	Yes	\$ 8,806	\$ 2,365
XI152	8	44	1995	Original System	1%	1%	1%	1%	2%	2%	70%	29%	Yes	\$ 1,446	\$ 414
XI166	8	295	1995	Original System	1%	2%	3%	3%	5%	5%	69%	28%	Yes	\$ 9,677	\$ 2,668
XI46	8	339	1995	Original System	2%	3%	5%	5%	9%	9%	68%	28%	Yes	\$ 11,135	\$ 3,068
N225	8	282	After 1996	Future or Developer	Future	Future	Future	Future	Future	10%	Future	Future	No	\$ -	\$ -
N227	8	159	After 1996	Future or Developer	Future	Future	Future	Future	Future	13%	Future	Future	No	\$ -	\$ -
N229	8	120	After 1996	Future or Developer	Future	Future	Future	Future	Future	12%	Future	Future	No	\$ -	\$ -
N231	8	116	After 1996	Future or Developer	Future	Future	Future	Future	Future	9%	Future	Future	No	\$ -	\$ -
XI31	8	400	1995	Original System	2%	2%	2%	4%	36%	36%	94%	6%	Yes	\$ 13,127	\$ 777
XI56	8	406	1995	Original System	2%	2%	2%	4%	35%	35%	94%	6%	Yes	\$ 13,341	\$ 819
XI64	8	399	1995	Original System	2%	2%	2%	4%	36%	36%	94%	6%	Yes	\$ 13,115	\$ 777
XI86	8	404	1995	Original System	3%	3%	4%	7%	55%	55%	94%	6%	Yes	\$ 13,283	\$ 803
XI112	8	302	1995	Original System	1%	1%	2%	3%	31%	31%	96%	6%	Yes	\$ 9,908	\$ 603
XI122	8	301	1995	Original System	6%	7%	9%	10%	15%	15%	54%	20%	Yes	\$ 9,896	\$ 1,944

Table C-1. Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Paid for by or installed as part of:	q/Qfull				Max % Capacity Ever Used = Max (B, D, and E)	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee = (H x J) if I is "Yes"
					2014		2026			2016 to 2026	2016 to 2026			
					A	B	C	D		E	F			
XI131	8	293	1995	Original System	2%	2%	2%	5%	49%	96%	Yes	\$ 9,613	\$ 582	
XI153	8	311	1995	Original System	3%	3%	5%	5%	9%	61%	Yes	\$ 10,219	\$ 2,148	
XI157	8	310	1995	Original System	1%	1%	2%	4%	37%	96%	Yes	\$ 10,187	\$ 636	
XI167	8	310	1995	Original System	3%	3%	5%	5%	8%	61%	Yes	\$ 10,187	\$ 2,186	
XI175	8	307	1995	Original System	2%	2%	2%	4%	44%	96%	Yes	\$ 10,072	\$ 619	
XI189	8	290	1995	Original System	2%	3%	4%	5%	7%	61%	Yes	\$ 9,514	\$ 2,299	
XI192	8	298	1995	Original System	1%	1%	1%	3%	33%	97%	Yes	\$ 9,792	\$ 624	
XI198	8	289	1995	Original System	4%	5%	8%	8%	13%	61%	Yes	\$ 9,496	\$ 2,309	
XI207	8	299	1995	Original System	1%	1%	1%	3%	38%	97%	Yes	\$ 9,809	\$ 597	
XI234	8	388	1995	Original System	2%	3%	4%	5%	7%	60%	Yes	\$ 12,751	\$ 2,948	
XI235	8	391	1995	Original System	1%	1%	1%	3%	32%	98%	Yes	\$ 12,832	\$ 766	
XI240	8	159	1995	Original System	2%	2%	4%	4%	6%	60%	Yes	\$ 5,209	\$ 1,253	
XI277	8	396	1995	Original System	1%	1%	1%	3%	39%	98%	Yes	\$ 12,996	\$ 795	
XI283	8	226	1995	Original System	0%	0%	0%	1%	23%	100%	No	\$ 7,410	\$ -	
XI285	8	400	1995	Original System	6%	6%	6%	7%	14%	56%	No	\$ 13,132	\$ -	
XI311	8	396	1995	Original System	6%	6%	6%	7%	10%	39%	No	\$ 12,998	\$ -	
NI154	8	207	After 1996	Future or Developer	Future	Future	Future	Future	26%	Future	No	\$ -	\$ -	
NI156	8	309	After 1996	Future or Developer	Future	Future	Future	Future	10%	Future	No	\$ -	\$ -	
NI500	8	398	After 1996	Developer/IF	0%	0%	1%	1%	5%	92%	No	\$ -	\$ -	
543	8	366	After 1996	Developer/IF	2%	2%	4%	4%	4%	52%	No	\$ -	\$ -	
NI160	8	389	After 1996	Future or Developer	Future	Future	Future	Future	6%	Future	No	\$ -	\$ -	
NI162	8	377	After 1996	Future or Developer	Future	Future	Future	Future	10%	Future	No	\$ -	\$ -	
NI164	8	407	After 1996	Future or Developer	Future	Future	Future	Future	9%	Future	No	\$ -	\$ -	
NI166	8	399	After 1996	Future or Developer	Future	Future	Future	Future	9%	Future	No	\$ -	\$ -	
NI168	8	361	After 1996	Future or Developer	Future	Future	Future	Future	9%	Future	No	\$ -	\$ -	
NI170	8	396	After 1996	Future or Developer	Future	Future	Future	Future	9%	Future	No	\$ -	\$ -	
NI172	8	250	After 1996	Future or Developer	Future	Future	3%	4%	8%	Future	No	\$ -	\$ -	
XI188	8	311	1995	Original System	1%	1%	1%	1%	2%	72%	Yes	\$ 10,202	\$ 757	
XI202	8	302	1995	Original System	1%	1%	1%	1%	2%	69%	Yes	\$ 9,924	\$ 752	
XI206	8	316	1995	Original System	1%	1%	1%	1%	2%	70%	Yes	\$ 10,371	\$ 731	
XI224	8	311	1995	Original System	1%	1%	1%	1%	2%	72%	Yes	\$ 10,203	\$ 757	
XI627	8	333	After 1996	Developer/IF	Future	Future	1%	2%	8%	Future	No	\$ -	\$ -	
XI626	8	364	After 1996	Developer/IF	Future	Future	2%	2%	14%	Future	No	\$ -	\$ -	
XI625	8	302	After 1996	Developer/IF	Future	Future	1%	2%	11%	Future	No	\$ -	\$ -	
XI624	8	306	After 1996	Developer/IF	Future	Future	1%	2%	9%	Future	No	\$ -	\$ -	
XI623	8	305	After 1996	Developer/IF	Future	Future	1%	2%	8%	Future	No	\$ -	\$ -	
XI622	8	307	After 1996	Developer/IF	Future	Future	3%	3%	9%	Future	No	\$ -	\$ -	
NI174	8	306	After 1996	Developer/IF	0%	0%	1%	1%	3%	96%	No	\$ -	\$ -	
NI176	8	572	After 1996	Developer/IF	0%	0%	0%	1%	2%	96%	No	\$ -	\$ -	
NI178	8	181	After 1996	Developer/IF	0%	0%	1%	1%	2%	95%	No	\$ -	\$ -	
NI180	8	226	After 1996	Developer/IF	0%	0%	0%	1%	2%	96%	No	\$ -	\$ -	
NI184	8	48	After 1996	Future or Developer	Future	Future	Future	Future	31%	Future	No	\$ -	\$ -	
NI186	8	291	After 1996	Future or Developer	Future	Future	Future	Future	31%	Future	No	\$ -	\$ -	
NI188	8	432	After 1996	Future or Developer	Future	Future	Future	Future	31%	Future	No	\$ -	\$ -	
NI190	8	358	After 1996	Future or Developer	Future	Future	Future	Future	31%	Future	No	\$ -	\$ -	
NI192	8	379	After 1996	Future or Developer	Future	Future	Future	Future	29%	Future	No	\$ -	\$ -	
NI194	8	334	After 1996	Future or Developer	Future	Future	Future	Future	29%	Future	No	\$ -	\$ -	
NI196	8	278	After 1996	Future or Developer	Future	Future	Future	Future	29%	Future	No	\$ -	\$ -	
NI198	8	100	After 1996	Future or Developer	Future	Future	Future	Future	29%	Future	No	\$ -	\$ -	
NI200	8	442	After 1996	Future or Developer	Future	Future	Future	Future	29%	Future	No	\$ -	\$ -	
NI202	8	424	After 1996	Future or Developer	Future	Future	Future	Future	29%	Future	No	\$ -	\$ -	
NI204	8	405	After 1996	Future or Developer	Future	Future	Future	Future	29%	Future	No	\$ -	\$ -	

Table C-1. Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Paid for by or Installed as part of:	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	H			
										= Max (B, D, and E)	= (F - B) / F	= (D - B) / F			= (H x J) if I is "Yes"
N206	8	413	After 1996	Future or Developer	Future	Future	Future	Future	29%	29%	Future	Future	No	\$ -	\$ -
N326	8	2,036	After 1996	Future or Developer	Future	Future	Future	Future	2%	2%	Future	Future	No	\$ -	\$ -
CDT-77	8	86	1995	Original System	14%	15%	18%	19%	29%	29%	48%	13%	Yes	\$ 2,813	\$ 372
CDT-89	8	363	After 1996	Developer/IF	1%	1%	3%	3%	4%	4%	62%	54%	No	\$ -	\$ -
CDT-91	8	285	After 1996	Developer/IF	0%	1%	2%	2%	2%	2%	62%	57%	No	\$ -	\$ -
CDT-93	8	408	After 1996	Developer/IF	0%	1%	2%	2%	2%	2%	63%	58%	No	\$ -	\$ -
CDT-95	8	302	After 1996	Developer/IF	0%	1%	2%	2%	2%	2%	63%	57%	No	\$ -	\$ -
CDT-97	8	277	After 1996	Developer/IF	0%	1%	2%	2%	2%	2%	61%	56%	No	\$ -	\$ -
FME 2	8	4,509	After 1996	Future or Developer	Future	Future	Future	Future	16%	16%	Future	Future	No	\$ -	\$ -
CDT-141	8	786	After 1996	Future or Developer	Future	Future	Future	Future	6%	6%	Future	Future	No	\$ -	\$ -
CDT-143	8	1,927	After 1996	Future or Developer	Future	Future	Future	Future	20%	20%	Future	Future	No	\$ -	\$ -
CDT-147	8	1,281	After 1996	Future or Developer	Future	Future	Future	Future	16%	16%	Future	Future	No	\$ -	\$ -
CDT-149	8	129	After 1996	Future or Developer	Future	Future	Future	Future	6%	6%	Future	Future	No	\$ -	\$ -
CDT-153	8	35	After 1996	Future or Developer	Future	Future	Future	Future	7%	7%	Future	Future	No	\$ -	\$ -
CDT-155	8	2,694	After 1996	Future or Developer	Future	Future	Future	Future	17%	17%	Future	Future	No	\$ -	\$ -
CDT-157	8	1,313	After 1996	Future or Developer	Future	Future	Future	Future	7%	7%	Future	Future	No	\$ -	\$ -
CDT-159	8	220	After 1996	Future or Developer	Future	Future	Future	Future	20%	20%	Future	Future	No	\$ -	\$ -
CDT-161	8	1,434	After 1996	Future or Developer	Future	Future	Future	Future	36%	36%	Future	Future	No	\$ -	\$ -
CDT-163	8	1,469	After 1996	Future or Developer	Future	Future	Future	Future	5%	5%	Future	Future	No	\$ -	\$ -
CDT-165	8	1,064	After 1996	Future or Developer	Future	Future	Future	Future	12%	12%	Future	Future	No	\$ -	\$ -
CDT-167	8	982	After 1996	Future or Developer	Future	Future	Future	Future	17%	17%	Future	Future	No	\$ -	\$ -
N264	8	392	After 1996	Future or Developer	Future	Future	Future	Future	13%	13%	Future	Future	No	\$ -	\$ -
N266	8	409	After 1996	Developer/IF	0%	0%	0%	0%	2%	2%	95%	19%	No	\$ -	\$ -
XJ542	8	371	After 1996	Developer/IF	2%	2%	4%	4%	4%	4%	51%	42%	No	\$ -	\$ -
XJ130	8	296	1995	Original System	1%	1%	1%	1%	2%	2%	49%	6%	Yes	\$ 9,731	\$ 592
XJ156	8	308	1995	Original System	1%	1%	1%	1%	2%	2%	51%	7%	Yes	\$ 10,104	\$ 725
XJ170	8	304	1995	Original System	1%	1%	2%	2%	3%	3%	53%	8%	Yes	\$ 9,989	\$ 800
XJ191	8	292	1995	Original System	1%	1%	1%	1%	2%	2%	54%	9%	Yes	\$ 9,596	\$ 896
XJ201	8	289	1995	Original System	1%	1%	1%	1%	2%	2%	52%	8%	Yes	\$ 9,496	\$ 735
XJ228	8	340	1995	Original System	0%	0%	0%	0%	1%	1%	35%	16%	Yes	\$ 11,173	\$ 1,807
XJ258	8	405	1995	Original System	0%	0%	0%	0%	1%	1%	65%	46%	Yes	\$ 13,308	\$ 6,145
XJ282	8	274	1995	Original System	0%	0%	0%	0%	0%	0%	88%	40%	Yes	\$ 9,004	\$ 3,641
XJ391	8	321	1995	Original System	2%	2%	2%	3%	27%	27%	94%	6%	No	\$ 10,548	\$ -
XJ412	8	322	1995	Original System	2%	2%	2%	3%	29%	29%	95%	6%	No	\$ 10,581	\$ -
XJ430	8	113	After 1996	Developer/IF	Future	Future	Future	Future	41%	41%	Future	Future	No	\$ -	\$ -
XJ452	8	317	After 1996	Developer/IF	Future	Future	Future	Future	23%	23%	Future	Future	No	\$ -	\$ -
XJ538	8	151	1995	Original System	2%	2%	2%	4%	36%	36%	96%	6%	No	\$ 4,946	\$ -
N274	8	118	After 1996	Developer/IF	Future	Future	Future	Future	29%	29%	Future	Future	No	\$ -	\$ -
N280	8	524	After 1996	Future or Developer	Future	Future	Future	Future	14%	14%	Future	Future	No	\$ -	\$ -
N286	8	159	After 1996	Future or Developer	Future	Future	12%	12%	10%	12%	Future	Future	No	\$ -	\$ -
N288	8	111	After 1996	Future or Developer	Future	Future	23%	23%	20%	23%	Future	Future	No	\$ -	\$ -
N290	8	216	After 1996	Future or Developer	Future	Future	17%	17%	15%	17%	Future	Future	No	\$ -	\$ -
N292	8	263	After 1996	Future or Developer	Future	Future	20%	20%	17%	20%	Future	Future	No	\$ -	\$ -
N294	8	154	After 1996	Future or Developer	Future	Future	11%	11%	9%	11%	Future	Future	No	\$ -	\$ -
N296	8	185	After 1996	Future or Developer	Future	Future	8%	8%	7%	8%	Future	Future	No	\$ -	\$ -
N298	8	972	After 1996	Future or Developer	Future	Future	Future	Future	2%	2%	Future	Future	No	\$ -	\$ -
N606	8	681	After 1996	Future or Developer	Future	Future	Future	Future	4%	4%	Future	Future	No	\$ -	\$ -
N608	8	931	After 1996	Future or Developer	Future	Future	Future	Future	7%	7%	Future	Future	No	\$ -	\$ -
N610	8	213	After 1996	Future or Developer	Future	Future	Future	Future	2%	2%	Future	Future	No	\$ -	\$ -
N612	8	261	After 1996	Developer/IF	0%	2%	6%	8%	35%	35%	95%	18%	No	\$ -	\$ -
N614	8	269	After 1996	Developer/IF	0%	2%	6%	8%	34%	34%	95%	18%	No	\$ -	\$ -
N616	8	189	After 1996	Developer/IF	0%	2%	6%	8%	35%	35%	95%	18%	No	\$ -	\$ -
N618	8	103	After 1996	Developer/IF	0%	2%	6%	8%	35%	35%	95%	18%	No	\$ -	\$ -
N620	8	205	After 1996	Developer/IF	0%	2%	8%	10%	45%	45%	95%	18%	No	\$ -	\$ -
N622	8	272	After 1996	Developer/IF	0%	3%	12%	16%	78%	78%	96%	16%	No	\$ -	\$ -

Table C-1. Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Paid for by or Installed as part of:	g/Qfall						Max % Capacity Ever Used F = Max (B, D, and E)	Proportion of Max Capacity Ever Used			Impact Fee Eligible?	Estimated Project Cost J	Estimated Impact Fee- Eligible Cost K = (H x J) if I is "Yes"
					2014 A	2016 B	2024 C	2026 D	2060 E	2016 to 2060 G = (F - B) / F		2016 to 2026 H = (D - B) / F	I				
N624	8	264	After 1996	Developer/IF	0%	3%	12%	16%	77%	77%	96%	16%	No	\$	-	\$	
N626	8	251	After 1996	Developer/IF	0%	2%	7%	9%	46%	46%	96%	16%	No	\$	-	\$	
N628	8	94	After 1996	Future or Developer	Future	Future	9%	12%	74%	74%	Future	Future	No	\$	-	\$	
N630	8	84	After 1996	Future or Developer	Future	Future	7%	10%	59%	59%	Future	Future	No	\$	-	\$	
N632	8	224	After 1996	Future or Developer	Future	Future	3%	5%	28%	28%	Future	Future	No	\$	-	\$	
N634	8	106	After 1996	Future or Developer	Future	Future	4%	6%	33%	33%	Future	Future	No	\$	-	\$	
N636	8	263	After 1996	Future or Developer	Future	Future	2%	3%	22%	22%	Future	Future	No	\$	-	\$	
N638	8	254	After 1996	Future or Developer	Future	Future	18%	18%	16%	18%	Future	Future	No	\$	-	\$	
N640	8	161	After 1996	Future or Developer	Future	Future	29%	29%	25%	29%	Future	Future	No	\$	-	\$	
N642	8	137	After 1996	Future or Developer	Future	Future	26%	25%	22%	25%	Future	Future	No	\$	-	\$	
N644	8	95	After 1996	Future or Developer	Future	Future	26%	26%	22%	26%	Future	Future	No	\$	-	\$	
N646	8	270	After 1996	Future or Developer	Future	Future	13%	12%	11%	12%	Future	Future	No	\$	-	\$	
N648	8	53	After 1996	Future or Developer	Future	Future	10%	10%	9%	10%	Future	Future	No	\$	-	\$	
N686	8	153	After 1996	Developer/IF	2%	2%	3%	3%	3%	3%	31%	31%	No	\$	-	\$	
N688	8	352	After 1996	Developer/IF	2%	2%	3%	3%	3%	3%	31%	31%	No	\$	-	\$	
CDT-169	8	53	After 1996	Future or Developer	Future	Future	Future	Future	15%	15%	Future	Future	No	\$	-	\$	
N690	8	200	After 1996	Developer/IF	1%	2%	2%	2%	2%	2%	29%	29%	No	\$	-	\$	
N692	8	400	After 1996	Developer/IF	1%	1%	2%	2%	2%	2%	31%	31%	No	\$	-	\$	
N694	8	389	After 1996	Developer/IF	1%	2%	2%	2%	2%	2%	31%	31%	No	\$	-	\$	
N698	8	216	After 1996	Developer/IF	37%	30%	9%	10%	23%	30%	0%	0%	No	\$	-	\$	
N704	8	106	After 1996	Developer/IF	33%	26%	7%	8%	19%	26%	0%	0%	No	\$	-	\$	
N706	8	334	After 1996	Developer/IF	69%	55%	16%	18%	42%	55%	0%	0%	No	\$	-	\$	
N708	8	302	After 1996	Developer/IF	82%	67%	21%	23%	52%	67%	0%	0%	No	\$	-	\$	
N750	8	399	After 1996	Future or Developer	Future	Future	Future	Future	81%	81%	Future	Future	No	\$	-	\$	
N752	8	372	After 1996	Future or Developer	Future	Future	Future	Future	78%	78%	Future	Future	No	\$	-	\$	
N754	8	393	After 1996	Future or Developer	Future	Future	Future	Future	80%	80%	Future	Future	No	\$	-	\$	
N758	8	411	After 1996	Future or Developer	Future	Future	Future	Future	65%	65%	Future	Future	No	\$	-	\$	
N760	8	397	After 1996	Future or Developer	Future	Future	Future	Future	37%	37%	Future	Future	No	\$	-	\$	
N762	8	427	After 1996	Future or Developer	Future	Future	Future	Future	65%	65%	Future	Future	No	\$	-	\$	
N764	8	125	After 1996	Future or Developer	Future	Future	Future	Future	25%	25%	Future	Future	No	\$	-	\$	
N766	8	270	After 1996	Future or Developer	Future	Future	Future	Future	51%	51%	Future	Future	No	\$	-	\$	
N768	8	390	After 1996	Future or Developer	Future	Future	Future	Future	62%	62%	Future	Future	No	\$	-	\$	
N770	8	403	After 1996	Future or Developer	Future	Future	Future	Future	63%	63%	Future	Future	No	\$	-	\$	
N772	8	243	After 1996	Future or Developer	Future	Future	6%	10%	80%	80%	Future	Future	No	\$	-	\$	
N774	8	252	After 1996	Future or Developer	Future	Future	6%	10%	82%	82%	Future	Future	No	\$	-	\$	
CDT-183	8	967	After 1996	Future or Developer	Future	Future	Future	Future	32%	32%	Future	Future	No	\$	-	\$	
CDT-185	8	2,912	After 1996	Future or Developer	Future	Future	Future	Future	39%	39%	Future	Future	No	\$	-	\$	
N796	8	158	After 1996	Future or Developer	Future	Future	5%	8%	65%	65%	Future	Future	No	\$	-	\$	
N798	8	295	After 1996	Future or Developer	Future	Future	6%	10%	80%	80%	Future	Future	No	\$	-	\$	
N800	8	107	After 1996	Future or Developer	Future	Future	4%	8%	59%	59%	Future	Future	No	\$	-	\$	
N804	8	798	After 1996	Future or Developer	Future	Future	Future	Future	3%	3%	Future	Future	No	\$	-	\$	
N806	8	883	After 1996	Future or Developer	Future	Future	Future	Future	3%	3%	Future	Future	No	\$	-	\$	
CDT-187	8	2,025	After 1996	Future or Developer	Future	Future	Future	Future	9%	9%	Future	Future	No	\$	-	\$	
CDT-189	8	291	After 1996	Future or Developer	Future	Future	Future	Future	11%	11%	Future	Future	No	\$	-	\$	
X16	10	195	After 1996	Developer/IF	2%	2%	2%	2%	2%	2%	7%	3%	No	\$	-	\$	
X18	10	314	1995	Original System	49%	39%	9%	10%	28%	39%	0%	0%	No	\$	12,276	\$	
X19	10	398	1995	Original System	44%	35%	8%	9%	25%	35%	0%	0%	No	\$	15,570	\$	
X12	10	400	1995	Original System	43%	35%	12%	15%	68%	68%	48%	0%	No	\$	15,648	\$	
X14	10	340	1995	Original System	56%	43%	6%	6%	5%	43%	0%	0%	No	\$	13,294	\$	
X15	10	299	1995	Original System	74%	59%	14%	14%	15%	59%	0%	0%	No	\$	11,689	\$	
X16	10	317	1995	Original System	53%	42%	11%	11%	12%	42%	0%	0%	No	\$	12,377	\$	
X17	10	281	1995	Original System	39%	32%	11%	14%	60%	60%	48%	0%	No	\$	10,988	\$	
X21	10	424	1995	Original System	17%	15%	10%	10%	9%	9%	0%	0%	No	\$	16,582	\$	
X32	10	233	1995	Original System	18%	16%	11%	11%	9%	16%	0%	0%	No	\$	9,111	\$	
X33	10	228	1995	Original System	32%	27%	14%	13%	4%	27%	0%	0%	No	\$	8,903	\$	

Table C-1. Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Paid for by or Installed as part of:	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	H			
										$= \text{Max (B, D, and E)}$	$= (F - B) / F$	$= (D - B) / F$			$= (H \times J) \text{ if I is "Yes"}$
XJ34	10	299	1995	Original System	28%	24%	12%	11%	0%	24%	0%	0%	No	\$ 11,669	\$ -
XJ52	10	290	1995	Original System	28%	24%	12%	12%	0%	24%	0%	0%	No	\$ 11,321	\$ -
XJ53	10	329	1995	Original System	27%	23%	12%	11%	0%	23%	0%	0%	No	\$ 12,862	\$ -
XJ61	10	322	1995	Original System	25%	29%	39%	39%	48%	48%	41%	22%	Yes	\$ 12,587	\$ 2,784
XJ267	10	419	1995	Original System	36%	39%	48%	48%	40%	48%	19%	19%	Yes	\$ 16,360	\$ 3,099
XJ269	10	420	1995	Original System	18%	20%	25%	25%	21%	25%	19%	19%	Yes	\$ 16,398	\$ 3,125
XJ271	10	355	1995	Original System	21%	23%	29%	29%	40%	40%	43%	16%	Yes	\$ 13,872	\$ 2,237
XJ541	10	201	1995	Original System	27%	24%	16%	16%	14%	24%	0%	0%	No	\$ 7,858	\$ -
XJ51	10	355	1995	Original System	29%	25%	13%	12%	0%	25%	0%	0%	No	\$ 13,877	\$ -
XJ628	10	229	After 1996	Summit Ridge	3%	5%	10%	11%	30%	30%	84%	21%	Yes	\$ 14,116	\$ 2,897
XJ629	10	364	After 1996	Summit Ridge	3%	5%	10%	12%	47%	47%	89%	15%	Yes	\$ 22,454	\$ 3,473
XJ630	10	300	After 1996	Summit Ridge	2%	3%	5%	6%	26%	26%	90%	15%	Yes	\$ 18,502	\$ 2,751
XJ631	10	400	After 1996	Summit Ridge	2%	3%	6%	7%	27%	27%	90%	15%	Yes	\$ 24,671	\$ 3,667
XJ632	10	396	After 1996	Summit Ridge	3%	4%	9%	11%	44%	44%	90%	15%	Yes	\$ 24,407	\$ 3,613
XJ633	10	404	After 1996	Summit Ridge	2%	3%	7%	9%	35%	35%	90%	15%	Yes	\$ 24,910	\$ 3,681
XJ634	10	400	After 1996	Summit Ridge	2%	2%	5%	6%	25%	25%	90%	15%	Yes	\$ 24,664	\$ 3,652
XJ675	10	399	After 1996	Summit Ridge	2%	3%	6%	7%	27%	27%	90%	15%	Yes	\$ 24,637	\$ 3,662
XJ685	10	228	After 1996	Summit Ridge	1%	1%	3%	4%	15%	15%	92%	17%	Yes	\$ 14,063	\$ 2,452
N110	10	213	After 1996	Developer/IF	1%	1%	2%	2%	5%	5%	76%	28%	No	\$ -	\$ -
N112	10	406	After 1996	Developer/IF	1%	2%	3%	3%	7%	7%	77%	27%	No	\$ -	\$ -
N114	10	202	After 1996	Developer/IF	1%	1%	3%	3%	6%	6%	76%	28%	No	\$ -	\$ -
N116	10	204	After 1996	Developer/IF	2%	3%	5%	5%	11%	11%	76%	27%	No	\$ -	\$ -
N118	10	204	After 1996	Developer/IF	2%	3%	5%	5%	11%	11%	76%	27%	No	\$ -	\$ -
CDT-59	10	272	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
CDT-61	10	61	After 1996	Developer/IF	0%	0%	0%	0%	0%	0%	0%	0%	No	\$ -	\$ -
CDT-63	10	181	After 1996	Developer/IF	45%	38%	16%	17%	32%	38%	0%	0%	No	\$ -	\$ -
CDT-65	10	101	After 1996	Developer/IF	43%	36%	15%	16%	30%	36%	0%	0%	No	\$ -	\$ -
CDT-67	10	108	After 1996	Developer/IF	55%	46%	20%	21%	38%	46%	0%	0%	No	\$ -	\$ -
CDT-69	10	112	After 1996	Developer/IF	29%	24%	10%	11%	20%	24%	0%	0%	No	\$ -	\$ -
CDT-71	10	255	1995	Original System	2%	2%	2%	2%	2%	2%	6%	0%	No	\$ 9,981	\$ -
CDT-73	10	77	After 1996	Developer/IF	2%	2%	2%	2%	2%	2%	9%	4%	No	\$ -	\$ -
CDT-75	10	22	After 1996	Developer/IF	39%	33%	13%	14%	27%	33%	0%	0%	No	\$ -	\$ -
N352	10	1,977	After 1996	Future or Developer	Future	Future	20%	20%	19%	20%	Future	Future	No	\$ -	\$ -
N278	10	210	1995	Original System	38%	31%	8%	8%	9%	31%	0%	0%	No	\$ 8,194	\$ -
N668	10	223	After 1996	Developer/IF	27%	22%	10%	10%	19%	22%	0%	0%	No	\$ -	\$ -
N672	10	60	After 1996	Developer/IF	22%	19%	8%	8%	15%	19%	0%	0%	No	\$ -	\$ -
N674	10	115	After 1996	Developer/IF	2%	2%	2%	2%	2%	2%	5%	0%	No	\$ -	\$ -
N676	10	112	After 1996	Developer/IF	2%	2%	2%	2%	2%	2%	5%	0%	No	\$ -	\$ -
N678	10	81	After 1996	Developer/IF	3%	3%	3%	3%	4%	4%	9%	1%	No	\$ -	\$ -
N680	10	118	After 1996	Developer/IF	4%	4%	4%	4%	5%	5%	9%	1%	No	\$ -	\$ -
N684	10	50	After 1996	Developer/IF	15%	12%	3%	3%	9%	12%	0%	0%	No	\$ -	\$ -
N696	10	288	After 1996	Developer/IF	2%	2%	5%	6%	22%	22%	89%	16%	No	\$ -	\$ -
N726	10	397	After 1996	Future or Developer	Future	Future	Future	Future	62%	62%	Future	Future	No	\$ -	\$ -
N728	10	385	After 1996	Future or Developer	Future	Future	Future	Future	63%	63%	Future	Future	No	\$ -	\$ -
N730	10	385	After 1996	Future or Developer	Future	Future	Future	Future	63%	63%	Future	Future	No	\$ -	\$ -
N732	10	403	After 1996	Future or Developer	Future	Future	Future	Future	63%	63%	Future	Future	No	\$ -	\$ -
N734	10	401	After 1996	Future or Developer	Future	Future	Future	Future	63%	63%	Future	Future	No	\$ -	\$ -
N736	10	376	After 1996	Future or Developer	Future	Future	Future	Future	56%	56%	Future	Future	No	\$ -	\$ -
N738	10	382	After 1996	Future or Developer	Future	Future	Future	Future	56%	56%	Future	Future	No	\$ -	\$ -
N740	10	401	After 1996	Future or Developer	Future	Future	Future	Future	61%	61%	Future	Future	No	\$ -	\$ -
N744	10	409	After 1996	Future or Developer	Future	Future	Future	Future	60%	60%	Future	Future	No	\$ -	\$ -
N746	10	424	After 1996	Future or Developer	Future	Future	Future	Future	46%	46%	Future	Future	No	\$ -	\$ -
N748	10	403	After 1996	Future or Developer	Future	Future	Future	Future	63%	63%	Future	Future	No	\$ -	\$ -
N780	10	1,093	After 1996	Future or Developer	Future	Future	19%	20%	39%	39%	Future	Future	No	\$ -	\$ -
CDT-173	10	14	After 1996	Future or Developer	Future	Future	Future	Future	1%	1%	Future	Future	No	\$ -	\$ -

Table C-1. Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Paid for by or Installed as part of:	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	G			
					= Max (B, D, and E)					= (F - B) / F = (D - B) / F				= (H x J) if I is "Yes"	
N213	18	236	After 1996	Future or Developer	Future	Future	9%	11%	49%	49%	Future	Future	No	\$ -	\$ -
N215	18	361	After 1996	Future or Developer	Future	Future	9%	12%	50%	50%	Future	Future	No	\$ -	\$ -
N217	18	150	After 1996	Future or Developer	Future	Future	10%	12%	50%	50%	Future	Future	No	\$ -	\$ -
N219	18	442	After 1996	Future or Developer	Future	Future	7%	8%	36%	36%	Future	Future	No	\$ -	\$ -
N221	18	94	After 1996	Developer/IF	14%	17%	24%	27%	76%	76%	78%	14%	No	\$ -	\$ -
CDT-11	18	62	After 1996	Developer/IF	8%	10%	16%	18%	53%	53%	81%	16%	No	\$ -	\$ -
N374	18	302	2013	2013 WRF	13%	16%	25%	29%	82%	82%	81%	16%	Yes	\$ 28,474	\$ 4,457
N373	18	501	2013	2013 WRF	13%	16%	25%	29%	82%	82%	81%	16%	Yes	\$ 47,297	\$ 7,412
N371	18	366	2013	2013 WRF	3%	4%	7%	8%	22%	22%	81%	16%	Yes	\$ 34,559	\$ 5,487
CDT-27	18	399	2013	2013 WRF	9%	11%	18%	20%	58%	58%	81%	16%	Yes	\$ 37,677	\$ 5,930
CDT-135	18	49	After 1996	Future or Developer	3%	3%	5%	5%	16%	16%	80%	13%	No	\$ -	\$ -
N370	18	246	2013	2013 WRF	6%	8%	12%	14%	40%	40%	81%	15%	Yes	\$ 23,226	\$ 3,598
N369	18	185	2013	2013 WRF	6%	8%	12%	14%	40%	40%	81%	16%	Yes	\$ 17,469	\$ 2,719
CDT-47	18	203	2013	2013 WRF	13%	16%	25%	28%	81%	81%	81%	16%	Yes	\$ 19,175	\$ 2,999
N650	18	62	After 1996	Developer/IF	1%	1%	1%	1%	2%	2%	49%	14%	No	\$ -	\$ -
N710	18	173	2013	2013 WRF	12%	13%	14%	16%	40%	40%	69%	8%	Yes	\$ 16,292	\$ 1,374
N716	18	38	2013	2013 WRF	8%	8%	9%	10%	27%	27%	69%	8%	Yes	\$ 3,580	\$ 287
N756	18	396	After 1996	Future or Developer	Future	Future	7%	8%	32%	32%	Future	Future	No	\$ -	\$ -
N778	18	274	After 1996	Future or Developer	Future	Future	7%	8%	32%	32%	Future	Future	No	\$ -	\$ -
N802	18	198	After 1996	Future or Developer	Future	Future	9%	12%	49%	49%	Future	Future	No	\$ -	\$ -
N808	18	210	After 1996	Developer/IF	10%	12%	18%	21%	55%	55%	78%	15%	No	\$ -	\$ -
N810	18	191	After 1996	Developer/IF	11%	13%	19%	21%	57%	57%	78%	15%	No	\$ -	\$ -
N812	18	93	After 1996	Developer/IF	3%	3%	3%	3%	5%	5%	46%	12%	No	\$ -	\$ -
N814	18	175	2013	2013 WRF	9%	9%	11%	12%	30%	30%	69%	8%	Yes	\$ 16,534	\$ 1,339
N816	18	263	2013	2013 WRF	12%	12%	14%	16%	40%	40%	69%	8%	Yes	\$ 24,840	\$ 2,110
N818	18	368	2013	2013 WRF	12%	13%	15%	16%	42%	42%	69%	8%	Yes	\$ 34,741	\$ 2,936
N820	18	367	2013	2013 WRF	11%	12%	14%	15%	39%	39%	69%	8%	Yes	\$ 34,687	\$ 2,934
N822	18	183	After 1996	Developer/IF	24%	26%	31%	35%	90%	90%	72%	10%	No	\$ -	\$ -
CDT-13	18	351	2013	2013 WRF	6%	8%	12%	14%	40%	40%	81%	16%	Yes	\$ 33,173	\$ 5,147
CDT-15	18	351	2013	2013 WRF	6%	8%	12%	14%	39%	39%	81%	16%	Yes	\$ 33,141	\$ 5,224
CDT-17	18	500	2013	2013 WRF	6%	7%	12%	13%	39%	39%	81%	16%	Yes	\$ 47,208	\$ 7,436
CDT-19	18	373	2013	2013 WRF	6%	7%	11%	13%	37%	37%	81%	16%	Yes	\$ 35,220	\$ 5,546
CDT-21	18	349	2013	2013 WRF	6%	7%	11%	13%	37%	37%	81%	16%	Yes	\$ 32,955	\$ 5,198
CDT-23	18	253	2013	2013 WRF	9%	11%	18%	20%	58%	58%	81%	16%	Yes	\$ 23,886	\$ 3,755
CDT-25	18	231	2013	2013 WRF	6%	7%	12%	13%	38%	38%	81%	16%	Yes	\$ 21,811	\$ 3,441
CDT-29	18	293	2013	2013 WRF	7%	9%	15%	17%	47%	47%	81%	16%	Yes	\$ 27,695	\$ 4,388
CDT-31	18	218	2013	2013 WRF	7%	8%	13%	15%	42%	42%	81%	16%	Yes	\$ 20,622	\$ 3,255
CDT-33	18	115	2013	2013 WRF	3%	4%	6%	7%	20%	20%	81%	16%	Yes	\$ 10,896	\$ 1,709
CDT-35	18	44	2013	2013 WRF	9%	11%	18%	20%	57%	57%	81%	16%	Yes	\$ 4,167	\$ 655
CDT-37	18	174	2013	2013 WRF	9%	11%	18%	20%	58%	58%	81%	16%	Yes	\$ 16,401	\$ 2,589
CDT-39	18	45	2013	2013 WRF	8%	10%	16%	18%	52%	52%	81%	16%	Yes	\$ 4,245	\$ 666
CDT-41	18	304	2013	2013 WRF	7%	8%	13%	15%	42%	42%	81%	16%	Yes	\$ 28,705	\$ 4,491
CDT-43	18	310	2013	2013 WRF	7%	8%	13%	15%	42%	42%	81%	16%	Yes	\$ 29,310	\$ 4,572
CDT-45	18	189	2013	2013 WRF	13%	16%	25%	28%	82%	82%	81%	16%	Yes	\$ 17,817	\$ 2,791
CDT-49	18	392	2013	2013 WRF	9%	12%	19%	21%	60%	60%	81%	16%	Yes	\$ 37,009	\$ 5,820
CDT-51	18	211	2013	2013 WRF	4%	5%	8%	9%	25%	25%	81%	16%	Yes	\$ 19,908	\$ 3,124
CDT-53	18	178	2013	2013 WRF	6%	8%	12%	14%	39%	39%	81%	16%	Yes	\$ 16,837	\$ 2,639
CDT-55	18	23	After 1996	Developer/IF	2%	3%	6%	8%	33%	33%	92%	15%	No	\$ -	\$ -
CDT-57	18	144	After 1996	Summit Ridge	1%	2%	6%	7%	29%	29%	92%	15%	Yes	\$ 12,425	\$ 1,925
													Total	\$ 3,639,844	\$ 490,600

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	H			
										= Max (B, D, and E)	= (F - B) / F	= (D - B) / F			= (H x J) if I is "Yes"
778	6	97	After 1996	XJ116	3%	3%	3%	3%	5%	5%	44%	5.5%	No	\$ -	\$ -
829	6	178	1,998	XJ250	9%	10%	12%	12%	16%	16%	39%	15.2%	Yes	\$ 6,213	\$ 946
830	6	73	1,998	XJ250	9%	10%	12%	12%	16%	16%	39%	15.2%	Yes	\$ 2,568	\$ 391
1223	6	14	1,998	XJ250	9%	10%	12%	12%	16%	16%	39%	15.2%	Yes	\$ 476	\$ 72
831	6	180	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
911	6	29	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
922	6	29	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
929	6	144	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
936	6	136	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
941	6	114	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
944	6	77	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
947	6	103	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
949	6	129	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
777	8	60	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
1213	8	322	After 1996	XJ684	0%	0%	1%	1%	6%	6%	95%	14.6%	No	\$ -	\$ -
1215	8	322	After 1996	XJ684	0%	0%	1%	1%	6%	6%	95%	14.6%	No	\$ -	\$ -
776	8	102	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
1116	8	537	2,010	XJ500	0%	0%	1%	1%	5%	5%	92%	11.1%	Yes	\$ 22,057	\$ 2,439
1117	8	842	2,010	N30	0%	0%	0%	0%	0%	0%	0%	0.0%	Yes	\$ 34,542	\$ -
115	8	76	1,998	XJ250	9%	10%	12%	12%	16%	16%	39%	15.2%	Yes	\$ 3,001	\$ 457
122	8	310	1,998	XJ250	9%	10%	12%	12%	16%	16%	39%	15.2%	Yes	\$ 12,255	\$ 1,866
131	8	317	1,998	XJ250	9%	10%	12%	12%	16%	16%	39%	15.2%	Yes	\$ 12,538	\$ 1,909
374	8	207	After 1996	XJ684	0%	0%	1%	1%	6%	6%	95%	14.6%	No	\$ -	\$ -
375	8	303	After 1996	XJ684	0%	0%	1%	1%	6%	6%	95%	14.6%	No	\$ -	\$ -
376	8	396	After 1996	XJ684	0%	0%	1%	1%	6%	6%	95%	14.6%	No	\$ -	\$ -
377	8	397	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
378	8	402	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
379	8	196	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
380	8	124	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
381	8	271	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
382	8	113	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
383	8	200	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
384	8	402	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
385	8	399	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -
386	8	200	After 1996	XJ687	1%	1%	1%	2%	9%	9%	91%	10.6%	No	\$ -	\$ -

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Continued)

Pipe Segment ID	Dia Segment (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Quill				Max % Capacity Ever Used = Max (B, D ₂ and E)	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost J	Estimated Impact Fee-Eligible Cost K =(H x J) if I is "Yes"	
					2014		2024			2026	2016 to 2026				2016 to 2026
					A	B	C	D		E	F				G
387	8	200	After 1996	XJ687	1%	1%	1%	2%	9%	9%	10.6%	No	\$	\$	
388	8	400	After 1996	XJ687	1%	1%	1%	2%	9%	9%	10.6%	No	\$	\$	
389	8	299	After 1996	XJ687	1%	1%	1%	2%	9%	9%	10.6%	No	\$	\$	
390	8	147	After 1996	XJ687	1%	1%	1%	2%	9%	9%	10.6%	No	\$	\$	
391	8	64	After 1996	XJ684	0%	0%	1%	6%	6%	6%	14.6%	No	\$	\$	
1152	8	263	After 1996	N30	0%	0%	0%	0%	0%	0%	0.0%	No	\$	\$	
1153	8	140	After 1996	N30	0%	0%	0%	0%	0%	0%	0.0%	No	\$	\$	
1212	8	322	After 1996	XJ684	0%	0%	1%	1%	6%	6%	14.6%	No	\$	\$	
1214	8	322	After 1996	XJ684	0%	0%	1%	1%	6%	6%	14.6%	No	\$	\$	
1	8	259	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
2	8	309	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
3	8	323	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
4	8	205	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
5	8	353	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
6	8	264	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
7	8	291	After 1996	XJ558	0%	0%	2%	2%	2%	2%	75.0%	No	\$	\$	
8	8	188	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
9	8	209	After 1996	XJ558	0%	0%	2%	2%	2%	2%	75.0%	No	\$	\$	
10	8	299	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
11	8	97	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
12	8	230	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
13	8	396	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
14	8	328	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
15	8	97	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
16	8	330	After 1996	XJ558	0%	0%	2%	2%	2%	2%	75.0%	No	\$	\$	
17	8	167	After 1996	XJ558	0%	0%	2%	2%	2%	2%	75.0%	No	\$	\$	
18	8	166	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
19	8	128	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
20	8	162	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
21	8	237	After 1996	N680	4%	4%	4%	4%	5%	5%	0.5%	No	\$	\$	
22	8	145	After 1996	XJ60	1%	2%	3%	3%	5%	5%	68%	No	\$	\$	
23	8	401	After 1996	XJ545	1%	1%	1%	1%	1%	1%	0.0%	No	\$	\$	
24	8	132	After 1996	XJ545	1%	1%	1%	1%	1%	1%	0.0%	No	\$	\$	
25	8	235	After 1996	XJ545	1%	1%	1%	1%	1%	1%	0.0%	No	\$	\$	
26	8	144	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	
34	8	244	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	
35	8	330	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	
37	8	269	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	
40	8	318	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	
41	8	338	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	
42	8	237	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	
62	8	234	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	
63	8	288	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	
64	8	48	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	
65	8	227	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	No	\$	\$	

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Full					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used			Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		F	G	H			
66	8	317	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	1%	19%	12.0%	No	\$ -	\$ -
72	8	400	After 1996	CDT-85	1%	2%	4%	4%	4%	4%	51%	41.0%	No	\$ -	\$ -	
73	8	256	After 1996	CDT-81	1%	1%	1%	1%	1%	1%	19%	12.0%	No	\$ -	\$ -	
74	8	167	After 1996	CDT-85	1%	2%	4%	4%	4%	4%	51%	41.0%	No	\$ -	\$ -	
152	8	293	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
153	8	347	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
157	8	309	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
158	8	307	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
159	8	122	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
163	8	54	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
164	8	309	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
171	8	313	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
172	8	306	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
173	8	279	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
174	8	425	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
175	8	178	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
177	8	113	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
181	8	427	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
200	8	266	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
206	8	271	After 1996	XI307	3%	4%	4%	4%	4%	5%	30%	15.6%	No	\$ -	\$ -	
219	8	445	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
232	8	236	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
233	8	382	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
234	8	496	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
235	8	294	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
241	8	235	After 1996	XI380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -	
245	8	373	After 1996	XI299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -	
246	8	210	After 1996	XI299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -	
247	8	250	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
249	8	77	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
250	8	417	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
251	8	285	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
254	8	262	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
255	8	403	After 1996	XI380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -	
256	8	273	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
257	8	109	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
258	8	428	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
259	8	399	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
260	8	80	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
264	8	135	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
265	8	206	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -	
266	8	245	After 1996	XI380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -	
267	8	263	After 1996	XI380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -	
268	8	220	After 1996	XI380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -	
269	8	100	After 1996	XI457	5%	6%	9%	9%	1%	9%	34%	33.7%	No	\$ -	\$ -	

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia Segment (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Qfull						Max % Capacity Ever Used = Max (B, D, F) / F	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014		2024		2060			G	H			
					A	B	C	D	E	F						
270	8	287	After 1996	XI457	5%	6%	9%	9%	1%	9%	34%	33.7%	No	\$	-	\$
271	8	223	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	-	\$
272	8	91	After 1996	XI380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$	-	\$
273	8	401	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	-	\$
274	8	362	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	-	\$
275	8	212	After 1996	XI457	5%	6%	9%	9%	1%	9%	34%	33.7%	No	\$	-	\$
276	8	211	After 1996	XI380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$	-	\$
277	8	398	After 1996	XI380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$	-	\$
279	8	400	After 1996	XI380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$	-	\$
280	8	279	After 1996	XI380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$	-	\$
281	8	401	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	-	\$
282	8	213	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	-	\$
286	8	234	After 1996	N34	0%	0%	0%	0%	0%	0%	0%	0.0%	No	\$	-	\$
287	8	189	After 1996	N34	0%	0%	0%	0%	0%	0%	0%	0.0%	No	\$	-	\$
288	8	258	After 1996	N34	0%	0%	0%	0%	0%	0%	0%	0.0%	No	\$	-	\$
289	8	259	After 1996	N30	0%	0%	0%	0%	0%	0%	0%	0.0%	No	\$	-	\$
290	8	293	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
291	8	228	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
292	8	237	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
293	8	254	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
294	8	400	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
295	8	207	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
296	8	193	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
297	8	220	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	-	\$
298	8	269	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	-	\$
299	8	236	After 1996	XI371	2%	2%	2%	4%	44%	44%	97%	5.7%	No	\$	-	\$
300	8	149	After 1996	XI371	2%	2%	2%	4%	44%	44%	97%	5.7%	No	\$	-	\$
301	8	304	After 1996	XI519	2%	2%	2%	2%	3%	3%	25%	3.7%	No	\$	-	\$
302	8	111	After 1996	XI519	2%	2%	2%	2%	3%	3%	25%	3.7%	No	\$	-	\$
303	8	139	After 1996	XI519	2%	2%	2%	2%	3%	3%	25%	3.7%	No	\$	-	\$
305	8	179	After 1996	XI558	0%	0%	2%	2%	2%	2%	75%	75.0%	No	\$	-	\$
306	8	460	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
307	8	196	After 1996	XI439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	-	\$
308	8	66	After 1996	XI105	1%	1%	2%	2%	3%	3%	45%	21.0%	No	\$	-	\$
309	8	436	After 1996	XI105	1%	1%	2%	2%	3%	3%	45%	21.0%	No	\$	-	\$
310	8	346	After 1996	XI105	1%	1%	2%	2%	3%	3%	45%	21.0%	No	\$	-	\$
311	8	472	After 1996	XI105	1%	1%	2%	2%	3%	3%	45%	21.0%	No	\$	-	\$
312	8	417	After 1996	XI105	1%	1%	2%	2%	3%	3%	45%	21.0%	No	\$	-	\$
313	8	394	After 1996	XI105	1%	1%	2%	2%	3%	3%	45%	21.0%	No	\$	-	\$
314	8	206	After 1996	XI105	1%	1%	2%	2%	3%	3%	45%	21.0%	No	\$	-	\$
315	8	151	After 1996	XI539	17%	19%	27%	27%	33%	33%	40%	22.7%	No	\$	-	\$
316	8	383	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
317	8	405	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
318	8	120	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	-	\$
319	8	177	After 1996	XI30	13%	14%	17%	18%	29%	29%	53%	14.2%	No	\$	-	\$

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Q _{full}					Max % Capacity Ever Used F = Max (B, D, and E)	Proportion of Max Capacity Ever Used			Impact Fee Eligible? ²	Estimated Project Cost J	Estimated Impact Fee-Eligible Cost K = (H x J) if I's "Yes"
					2014	2016	2024	2026	2060		G 2016 to 2060 = (F - B) / F	H 2016 to 2026 = (D - B) / F	I			
320	8	300	After 1996	XJ30	13%	14%	17%	18%	29%	29%	53%	14.2%	No	\$	\$	
321	8	278	After 1996	XJ558	0%	0%	2%	2%	2%	2%	75%	75.0%	No	\$	\$	
322	8	354	After 1996	XJ558	0%	0%	2%	2%	2%	2%	75%	75.0%	No	\$	\$	
323	8	139	After 1996	N698	37%	30%	9%	10%	23%	30%	0%	0.0%	No	\$	\$	
324	8	381	After 1996	XJ561	7%	8%	11%	11%	16%	16%	49%	18.8%	No	\$	\$	
325	8	402	After 1996	XJ561	7%	8%	11%	11%	16%	16%	49%	18.8%	No	\$	\$	
326	8	208	After 1996	XJ562	15%	17%	21%	22%	36%	36%	53%	13.6%	No	\$	\$	
327	8	399	After 1996	XJ562	15%	17%	21%	22%	36%	36%	53%	13.6%	No	\$	\$	
328	8	539	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$	\$	
329	8	170	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$	\$	
330	8	348	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$	\$	
331	8	229	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$	\$	
332	8	351	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$	\$	
333	8	220	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$	\$	
334	8	247	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$	\$	
335	8	268	After 1996	XJ18	15%	16%	19%	20%	31%	31%	50%	13.7%	No	\$	\$	
336	8	239	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$	\$	
337	8	227	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	\$	
338	8	296	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	\$	
339	8	338	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	\$	
340	8	152	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	\$	
341	8	216	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$	\$	
342	8	241	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
343	8	335	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
344	8	391	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
345	8	250	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
346	8	89	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
347	8	317	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
348	8	269	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
349	8	183	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
350	8	190	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
351	8	277	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
352	8	304	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
353	8	72	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
354	8	630	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$	\$	
355	8	289	After 1996	CDT-97	0%	1%	2%	2%	2%	2%	61%	55.6%	No	\$	\$	
356	8	330	After 1996	CDT-97	0%	1%	2%	2%	2%	2%	61%	55.6%	No	\$	\$	
357	8	220	After 1996	CDT-97	0%	1%	2%	2%	2%	2%	61%	55.6%	No	\$	\$	
358	8	348	After 1996	CDT-97	0%	1%	2%	2%	2%	2%	61%	55.6%	No	\$	\$	
359	8	128	After 1996	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$	\$	
360	8	149	After 1996	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$	\$	
361	8	401	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0.0%	No	\$	\$	
362	8	402	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0.0%	No	\$	\$	
363	8	278	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0.0%	No	\$	\$	
364	8	400	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0.0%	No	\$	\$	

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	H			
										= Max (B, D, and E)	= (F - B) / F	= (D - B) / F			= (H x J) if I is "Yes"
365	8	144	After 1996	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -
366	8	351	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
367	8	307	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
368	8	205	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
369	8	146	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
370	8	238	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
371	8	332	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
372	8	307	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
373	8	141	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
401	8	165	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
402	8	269	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
403	8	233	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
404	8	137	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
405	8	172	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
406	8	162	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
407	8	205	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
408	8	113	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
409	8	119	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
410	8	235	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
411	8	86	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
412	8	158	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
413	8	156	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
414	8	174	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
415	8	217	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
416	8	190	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
417	8	438	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
418	8	334	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
419	8	93	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
420	8	174	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
421	8	160	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
422	8	153	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
423	8	180	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
424	8	158	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
425	8	235	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
426	8	149	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
427	8	298	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
428	8	134	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
429	8	146	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
430	8	391	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
431	8	341	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
432	8	324	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
433	8	219	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
434	8	90	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
435	8	55	After 1996	XJ454	6%	6%	6%	8%	32%	32%	81%	4.8%	No	\$ -	\$ -
444	8	170	After 1996	XJ795	0%	0%	0%	0%	0%	0%	0%	0.0%	No	\$ -	\$ -

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Full					Max % Capacity Ever Used F	Proportion of Max Capacity Ever Used			Impact Fee Eligible? ²	Estimated Project Cost J	Estimated Impact Fee-Eligible Cost K <small>=(H x J) if I is "Yes"</small>
					2014	2016	2024	2026	2060		G <small>=(F - B) / F</small>	H <small>=(D - B) / F</small>	I			
445	8	178	After 1996	XI795	0%	0%	0%	0%	0%	0%	0%	0%	0%	\$	\$	
446	8	154	After 1996	XI795	0%	0%	0%	0%	0%	0%	0%	0%	0%	\$	\$	
459	8	283	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0%	0%	\$	\$	
460	8	300	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0%	0%	\$	\$	
461	8	125	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0%	0%	\$	\$	
462	8	439	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0%	0%	\$	\$	
463	8	128	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0%	0%	\$	\$	
464	8	170	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0%	0%	\$	\$	
465	8	253	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0%	0%	\$	\$	
466	8	403	After 1996	XI561	7%	8%	11%	11%	16%	16%	49%	18.8%	0%	\$	\$	
467	8	132	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0%	0%	\$	\$	
468	8	348	After 1996	N280	61%	50%	14%	14%	12%	50%	0%	0%	0%	\$	\$	
469	8	196	After 1996	XI307	3%	4%	4%	4%	5%	5%	30%	15.6%	0%	\$	\$	
470	8	125	After 1996	XI307	3%	4%	4%	4%	5%	5%	30%	15.6%	0%	\$	\$	
471	8	214	After 1996	XI11	15%	16%	19%	19%	30%	30%	47%	12.8%	0%	\$	\$	
472	8	86	After 1996	CDT-71	2%	2%	2%	2%	2%	2%	6%	0.3%	0%	\$	\$	
473	8	63	After 1996	XI307	3%	4%	4%	4%	5%	5%	30%	15.6%	0%	\$	\$	
474	8	139	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
475	8	70	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
476	8	116	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
477	8	330	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
478	8	91	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
479	8	169	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
480	8	45	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
481	8	310	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
482	8	326	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
483	8	221	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
484	8	83	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
485	8	211	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
486	8	81	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
487	8	269	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
488	8	169	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
489	8	262	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
490	8	137	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
491	8	400	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
492	8	397	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
493	8	321	After 1996	XI850	7%	8%	12%	12%	12%	12%	32%	32.0%	0%	\$	\$	
513	8	131	After 1996	XI869	1%	1%	2%	3%	5%	5%	69%	24.0%	0%	\$	\$	
514	8	400	After 1996	XI869	1%	1%	2%	3%	5%	5%	69%	24.0%	0%	\$	\$	
515	8	110	After 1996	XI760	0%	0%	0%	0%	0%	0%	0%	0.0%	0%	\$	\$	
516	8	94	After 1996	XI760	0%	0%	0%	0%	0%	0%	0%	0.0%	0%	\$	\$	
517	8	407	After 1996	XI760	0%	0%	0%	0%	0%	0%	0%	0.0%	0%	\$	\$	
518	8	294	After 1996	XI760	0%	0%	0%	0%	0%	0%	0%	0.0%	0%	\$	\$	
519	8	159	After 1996	XI760	0%	0%	0%	0%	0%	0%	0%	0.0%	0%	\$	\$	
520	8	95	After 1996	XI760	0%	0%	0%	0%	0%	0%	0%	0.0%	0%	\$	\$	

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	H			
										= Max (B, D, and E)	= (F - B) / F	= (D - B) / F			= (H x J) if I is "Yes"
521	8	186	After 1996	XJ760	0%	0%	0%	0%	0%	0%	0%	0.0%	No	\$ -	\$ -
522	8	74	After 1996	N266	0%	0%	0%	0%	2%	2%	95%	18.8%	No	\$ -	\$ -
532	8	77	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
533	8	109	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
534	8	383	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
535	8	375	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
536	8	248	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
537	8	311	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
538	8	65	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
539	8	175	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
540	8	49	After 1996	N688	2%	2%	3%	3%	3%	3%	31%	30.6%	No	\$ -	\$ -
541	8	96	After 1996	N688	2%	2%	3%	3%	3%	3%	31%	30.6%	No	\$ -	\$ -
702	8	1,204	After 1996	N266	0%	0%	0%	0%	2%	2%	95%	18.8%	No	\$ -	\$ -
703	8	1,639	After 1996	N110	1%	1%	2%	2%	5%	5%	76%	28.0%	No	\$ -	\$ -
704	8	447	After 1996	N110	1%	1%	2%	2%	5%	5%	76%	28.0%	No	\$ -	\$ -
705	8	1,746	After 1996	N110	1%	1%	2%	2%	5%	5%	76%	28.0%	No	\$ -	\$ -
706	8	135	After 1996	N110	1%	1%	2%	2%	5%	5%	76%	28.0%	No	\$ -	\$ -
767	8	184	After 1996	XJ7	25%	27%	32%	33%	51%	51%	47%	13.0%	No	\$ -	\$ -
782	8	655	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
783	8	417	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
784	8	415	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
785	8	186	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
786	8	440	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
787	8	286	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
788	8	178	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
791	8	121	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
792	8	598	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
793	8	281	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
794	8	183	After 1996	N688	2%	2%	3%	3%	3%	3%	31%	30.6%	No	\$ -	\$ -
797	8	124	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
798	8	175	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
799	8	371	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
800	8	352	After 1996	XJ656	2%	4%	10%	14%	74%	74%	94%	12.8%	No	\$ -	\$ -
801	8	314	After 1996	N110	1%	1%	2%	2%	5%	5%	76%	28.0%	No	\$ -	\$ -
910	8	310	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
1055	8	613	After 1996	CDT-89	1%	1%	3%	3%	4%	4%	62%	54.1%	No	\$ -	\$ -
1056	8	427	After 1996	CDT-89	1%	1%	3%	3%	4%	4%	62%	54.1%	No	\$ -	\$ -
1057	8	1,364	After 1996	CDT-89	1%	1%	3%	3%	4%	4%	62%	54.1%	No	\$ -	\$ -
1058	8	733	After 1996	XJ500	0%	0%	1%	1%	5%	5%	92%	11.1%	No	\$ -	\$ -
1059	8	312	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
1063	8	267	After 1996	XJ500	0%	0%	1%	1%	5%	5%	92%	11.1%	No	\$ -	\$ -
1064	8	193	After 1996	XJ500	0%	0%	1%	1%	5%	5%	92%	11.1%	No	\$ -	\$ -
1067	8	297	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
1068	8	407	After 1996	N672	22%	19%	8%	8%	15%	19%	0%	0.0%	No	\$ -	\$ -
1091	8	152	After 1996	N110	1%	1%	2%	2%	5%	5%	76%	28.0%	No	\$ -	\$ -

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	H			
										= Max (B, D, and E)	= (F - B) / F	= (D - B) / F			= (H x J) if I is "Yes"
1096	8	672	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$ -	\$ -
1097	8	175	After 1996	N672	22%	19%	8%	8%	15%	19%	0%	0.0%	No	\$ -	\$ -
1098	8	373	After 1996	XJ850	7%	8%	12%	12%	12%	12%	32%	32.0%	No	\$ -	\$ -
1099	8	258	After 1996	N110	1%	1%	2%	2%	5%	5%	76%	28.0%	No	\$ -	\$ -
1100	8	545	After 1996	N110	1%	1%	2%	2%	5%	5%	76%	28.0%	No	\$ -	\$ -
1101	8	261	After 1996	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -
1102	8	261	After 1996	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -
1103	8	108	After 1996	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -
1104	8	326	After 1996	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -
1105	8	94	After 1996	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -
1106	8	137	After 1996	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -
1107	8	216	After 1996	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -
1108	8	212	After 1996	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -
1109	8	228	After 1996	XJ492	7%	9%	15%	17%	52%	52%	83%	15.9%	No	\$ -	\$ -
1110	8	238	After 1996	XJ492	7%	9%	15%	17%	52%	52%	83%	15.9%	No	\$ -	\$ -
1111	8	182	After 1996	XJ869	1%	1%	2%	3%	5%	5%	69%	24.0%	No	\$ -	\$ -
1112	8	1,060	After 1996	XJ869	1%	1%	2%	3%	5%	5%	69%	24.0%	No	\$ -	\$ -
1113	8	147	After 1996	XJ869	1%	1%	2%	3%	5%	5%	69%	24.0%	No	\$ -	\$ -
1114	8	913	After 1996	XJ869	1%	1%	2%	3%	5%	5%	69%	24.0%	No	\$ -	\$ -
1115	8	445	After 1996	XJ869	1%	1%	2%	3%	5%	5%	69%	24.0%	No	\$ -	\$ -
1118	8	256	After 1996	N30	0%	0%	0%	0%	0%	0%	0%	0.0%	No	\$ -	\$ -
1119	8	543	After 1996	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -
1120	8	334	After 1996	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -
1121	8	376	After 1996	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -
1122	8	433	After 1996	XJ750	1%	1%	1%	1%	3%	3%	82%	4.8%	No	\$ -	\$ -
1123	8	832	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
1124	8	312	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
1125	8	283	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
1126	8	448	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
1127	8	323	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
1128	8	308	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
1129	8	128	After 1996	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	No	\$ -	\$ -
1130	8	663	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
1131	8	325	After 1996	CDT-89	1%	1%	3%	3%	4%	4%	62%	54.1%	No	\$ -	\$ -
1132	8	397	After 1996	CDT-89	1%	1%	3%	3%	4%	4%	62%	54.1%	No	\$ -	\$ -
1133	8	327	After 1996	CDT-89	1%	1%	3%	3%	4%	4%	62%	54.1%	No	\$ -	\$ -
1134	8	987	After 1996	CDT-85	1%	2%	4%	4%	4%	4%	51%	41.0%	No	\$ -	\$ -
1135	8	34	After 1996	CDT-89	1%	1%	3%	3%	4%	4%	62%	54.1%	No	\$ -	\$ -
1136	8	118	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
1137	8	171	After 1996	N203	7%	8%	9%	10%	27%	27%	72%	10.0%	No	\$ -	\$ -
1138	8	177	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$ -	\$ -
1139	8	583	After 1996	CDT-71	2%	2%	2%	2%	2%	2%	6%	0.3%	No	\$ -	\$ -
1140	8	357	After 1996	CDT-71	2%	2%	2%	2%	2%	2%	6%	0.3%	No	\$ -	\$ -
1142	8	194	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
1143	8	158	After 1996	N680	4%	4%	4%	4%	5%	5%	9%	0.5%	No	\$ -	\$ -

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	H			
										= Max (B, D, and E)	= (F - B) / F	= (D - B) / F			= (H x J) if I is "Yes"
1149	8	105	After 1996	XJ869	1%	1%	2%	3%	5%	5%	69%	24.0%	No	\$ -	\$ -
1151	8	387	After 1996	N30	0%	0%	0%	0%	0%	0%	0%	0.0%	No	\$ -	\$ -
1154	8	290	After 1996	XJ307	3%	4%	4%	4%	5%	5%	30%	15.6%	No	\$ -	\$ -
1155	8	59	After 1996	XJ281	3%	3%	4%	4%	4%	4%	31%	16.3%	No	\$ -	\$ -
1156	8	166	After 1996	XJ281	3%	3%	4%	4%	4%	4%	31%	16.3%	No	\$ -	\$ -
1157	8	92	After 1996	XJ281	3%	3%	4%	4%	4%	4%	31%	16.3%	No	\$ -	\$ -
1159	8	482	After 1996	N612	0%	2%	6%	8%	35%	35%	95%	17.7%	No	\$ -	\$ -
1173	8	230	After 1996	N40	9%	13%	24%	28%	97%	97%	87%	15.8%	No	\$ -	\$ -
1194	8	129	After 1996	N266	0%	0%	0%	0%	2%	2%	95%	18.8%	No	\$ -	\$ -
1209	8	217	After 1996	XJ541	27%	24%	16%	16%	14%	24%	0%	0.0%	No	\$ -	\$ -
1210	8	219	After 1996	XJ712	11%	11%	14%	14%	22%	22%	48%	13.1%	No	\$ -	\$ -
1211	8	219	After 1996	XJ712	11%	11%	14%	14%	22%	22%	48%	13.1%	No	\$ -	\$ -
1216	8	14	After 1996	XJ7	25%	27%	32%	33%	51%	51%	47%	13.0%	No	\$ -	\$ -
1217	8	14	After 1996	XJ7	25%	27%	32%	33%	51%	51%	47%	13.0%	No	\$ -	\$ -
1230	8	11	After 1996	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -
1231	8	11	After 1996	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	No	\$ -	\$ -
1238	8	19	After 1996	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -
1239	8	19	After 1996	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	No	\$ -	\$ -
27	8	247	1995	XJ86	3%	3%	4%	7%	55%	55%	94%	6.0%	Yes	\$ 8,113	\$ 490
28	8	230	1995	XJ86	3%	3%	4%	7%	55%	55%	94%	6.0%	Yes	\$ 7,570	\$ 457
29	8	241	1995	XJ86	3%	3%	4%	7%	55%	55%	94%	6.0%	Yes	\$ 7,907	\$ 478
30	8	264	1995	XJ86	3%	3%	4%	7%	55%	55%	94%	6.0%	Yes	\$ 8,659	\$ 523
31	8	291	1995	XJ92	7%	7%	7%	7%	10%	10%	33%	3.3%	Yes	\$ 9,554	\$ 314
32	8	282	1995	XJ97	7%	7%	8%	8%	12%	12%	40%	5.3%	Yes	\$ 9,280	\$ 494
33	8	255	1995	XJ97	7%	7%	8%	8%	12%	12%	40%	5.3%	Yes	\$ 8,379	\$ 446
36	8	294	1995	XJ82	9%	9%	10%	10%	19%	19%	54%	6.5%	Yes	\$ 9,644	\$ 625
38	8	307	1995	XJ92	7%	7%	7%	7%	10%	10%	33%	3.3%	Yes	\$ 10,088	\$ 331
39	8	300	1995	XJ97	7%	7%	8%	8%	12%	12%	40%	5.3%	Yes	\$ 9,042	\$ 524
43	8	245	1995	XJ122	6%	7%	9%	10%	15%	15%	54%	19.6%	Yes	\$ 8,063	\$ 1,584
44	8	243	1995	XJ122	6%	7%	9%	10%	15%	15%	54%	19.6%	Yes	\$ 7,993	\$ 1,570
45	8	240	1995	XJ122	6%	7%	9%	10%	15%	15%	54%	19.6%	Yes	\$ 7,883	\$ 1,548
46	8	302	1995	XJ82	9%	9%	10%	10%	19%	19%	54%	6.5%	Yes	\$ 9,907	\$ 642
47	8	241	1995	XJ122	6%	7%	9%	10%	15%	15%	54%	19.6%	Yes	\$ 7,915	\$ 1,555
48	8	235	1995	XJ82	9%	9%	10%	10%	19%	19%	54%	6.5%	Yes	\$ 7,711	\$ 500
49	8	267	1995	XJ82	9%	9%	10%	10%	19%	19%	54%	6.5%	Yes	\$ 8,774	\$ 569
50	8	430	1995	XJ131	2%	2%	2%	5%	49%	49%	96%	6.1%	Yes	\$ 14,143	\$ 856
51	8	221	1995	XJ92	7%	7%	7%	7%	10%	10%	33%	3.3%	Yes	\$ 7,246	\$ 238
52	8	297	1995	XJ92	7%	7%	7%	7%	10%	10%	33%	3.3%	Yes	\$ 9,760	\$ 321
53	8	266	1995	XJ92	7%	7%	7%	7%	10%	10%	33%	3.3%	Yes	\$ 8,753	\$ 287
54	8	300	1995	XJ133	10%	11%	15%	17%	43%	43%	74%	13.0%	Yes	\$ 9,859	\$ 1,278
55	8	170	1995	XJ133	10%	11%	15%	17%	43%	43%	74%	13.0%	Yes	\$ 5,582	\$ 724
56	8	132	1995	XJ116	3%	3%	3%	3%	5%	5%	44%	5.5%	Yes	\$ 4,350	\$ 238
57	8	105	1995	XJ97	7%	7%	8%	8%	12%	12%	40%	5.3%	Yes	\$ 3,434	\$ 183
58	8	300	1995	XJ116	3%	3%	3%	3%	5%	5%	44%	5.5%	Yes	\$ 9,857	\$ 538
59	8	310	1995	XJ116	3%	3%	3%	3%	5%	5%	44%	5.5%	Yes	\$ 10,199	\$ 557

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia Segment (in)	Year Built	Reference Pipe ¹	q/Full					Max % Capacity Ever Used = Max (B, D, E) / F	Proportion of Max Capacity Ever Used		Impact Fee Eligible? ²	Estimated Project Cost	Estimated Impact Fee-Eligible Cost = (H x J) if I is "Yes" ³
				2014		2024		2060		2016 to 2060	2016 to 2026			
				A	B	C	D	E		G	H			
60	8	299	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 9,808	\$ 522	
61	8	395	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 12,963	\$ 690	
67	8	315	XJ122	6%	7%	9%	10%	15%	54%	19.6%	Yes	\$ 10,335	\$ 2,030	
68	8	314	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 10,318	\$ 669	
69	8	305	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 10,022	\$ 329	
70	8	302	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 9,924	\$ 528	
71	8	306	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 10,038	\$ 548	
75	8	378	XJ152	1%	1%	1%	1%	2%	70%	28.6%	Yes	\$ 12,427	\$ 3,560	
76	8	217	XJ167	3%	3%	5%	5%	8%	61%	21.5%	Yes	\$ 7,134	\$ 1,531	
77	8	309	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 10,137	\$ 657	
78	8	287	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 9,441	\$ 612	
79	8	236	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 7,763	\$ 503	
80	8	242	XJ167	3%	3%	5%	5%	8%	61%	21.5%	Yes	\$ 7,936	\$ 1,703	
81	8	315	XJ122	6%	7%	9%	10%	15%	54%	19.6%	Yes	\$ 10,334	\$ 2,030	
82	8	447	XJ175	2%	2%	2%	4%	44%	96%	6.1%	Yes	\$ 14,680	\$ 902	
83	8	221	XJ122	6%	7%	9%	10%	15%	54%	19.6%	Yes	\$ 7,255	\$ 1,425	
84	8	301	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 9,893	\$ 325	
85	8	449	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 14,758	\$ 485	
86	8	186	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 6,104	\$ 333	
87	8	302	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 9,907	\$ 541	
88	8	333	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 10,942	\$ 598	
89	8	306	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 10,039	\$ 534	
90	8	347	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 11,398	\$ 607	
91	8	166	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 5,446	\$ 290	
92	8	449	XJ186	11%	13%	17%	19%	50%	74%	12.9%	Yes	\$ 14,768	\$ 1,908	
93	8	287	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 9,430	\$ 611	
94	8	308	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 10,104	\$ 332	
95	8	304	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 9,990	\$ 546	
96	8	304	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 9,989	\$ 532	
97	8	256	XJ198	4%	5%	8%	8%	13%	61%	24.3%	Yes	\$ 8,396	\$ 2,041	
98	8	291	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 9,546	\$ 619	
99	8	235	XJ198	4%	5%	8%	8%	13%	61%	24.3%	Yes	\$ 7,719	\$ 1,877	
100	8	397	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 13,050	\$ 846	
101	8	255	XJ201	1%	1%	1%	1%	2%	52%	7.7%	Yes	\$ 8,367	\$ 648	
102	8	247	XJ201	1%	1%	1%	1%	2%	52%	7.7%	Yes	\$ 8,112	\$ 628	
103	8	286	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 9,399	\$ 513	
104	8	457	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 15,029	\$ 821	
105	8	297	XJ210	10%	10%	12%	14%	37%	72%	8.8%	Yes	\$ 9,753	\$ 856	
106	8	254	XJ210	10%	10%	12%	14%	37%	72%	8.8%	Yes	\$ 8,330	\$ 731	
107	8	172	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 5,648	\$ 185	
108	8	264	XJ220	7%	7%	8%	9%	27%	74%	8.5%	Yes	\$ 8,670	\$ 739	
109	8	303	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 9,940	\$ 326	
110	8	315	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 10,359	\$ 340	
111	8	301	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 9,890	\$ 526	
112	8	407	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 13,382	\$ 712	

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia Segment (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Q _{full}					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014		2024		2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	G			
113	8	105	1995	XJ197	7%	7%	8%	12%	12%	40%	5.3%	Yes	\$ 3,435	\$ 183	
114	8	213	1995	XJ220	7%	7%	8%	9%	27%	74%	8.5%	Yes	\$ 6,997	\$ 596	
116	8	221	1995	XJ224	1%	1%	1%	2%	2%	72%	7.4%	Yes	\$ 7,259	\$ 539	
117	8	266	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 8,740	\$ 477	
118	8	376	1995	XJ224	1%	1%	1%	2%	2%	72%	7.4%	Yes	\$ 12,347	\$ 916	
119	8	278	1995	XJ220	7%	7%	8%	9%	27%	74%	8.5%	Yes	\$ 9,119	\$ 777	
120	8	353	1995	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 11,583	\$ 751	
121	8	424	1995	XJ210	10%	10%	12%	14%	37%	72%	8.8%	Yes	\$ 13,941	\$ 1,224	
123	8	207	1995	XJ235	1%	1%	1%	3%	32%	98%	6.0%	Yes	\$ 6,794	\$ 406	
124	8	366	1995	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 12,026	\$ 395	
125	8	44	1995	XJ235	1%	1%	1%	3%	32%	98%	6.0%	Yes	\$ 1,429	\$ 85	
126	8	405	1995	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 13,309	\$ 708	
127	8	251	1995	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 8,231	\$ 534	
128	8	433	1995	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 14,240	\$ 923	
129	8	149	1995	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 4,901	\$ 261	
130	8	379	1995	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 12,442	\$ 662	
132	8	208	1995	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 6,836	\$ 227	
133	8	346	1995	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 11,353	\$ 317	
134	8	324	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 10,658	\$ 582	
135	8	361	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 11,846	\$ 647	
136	8	182	1995	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 5,964	\$ 387	
137	8	252	1995	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 8,287	\$ 441	
138	8	177	1995	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 5,808	\$ 309	
139	8	165	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 5,432	\$ 297	
140	8	335	1995	XJ277	1%	1%	1%	3%	39%	98%	6.1%	Yes	\$ 11,024	\$ 675	
141	8	204	1995	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 6,715	\$ 220	
142	8	280	1995	XJ182	9%	9%	10%	10%	19%	54%	6.5%	Yes	\$ 9,184	\$ 596	
143	8	387	1995	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 12,726	\$ 677	
144	8	369	1995	XJ192	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 12,120	\$ 645	
145	8	356	1995	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 11,682	\$ 384	
146	8	444	1995	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 14,602	\$ 479	
147	8	186	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 6,120	\$ 334	
148	8	398	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 13,061	\$ 713	
149	8	231	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 7,590	\$ 415	
150	8	342	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 11,238	\$ 614	
151	8	165	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 5,418	\$ 296	
154	8	287	1995	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 9,430	\$ 310	
155	8	300	1995	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 9,862	\$ 525	
156	8	293	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 9,611	\$ 525	
160	8	143	1995	XJ197	7%	7%	8%	8%	12%	40%	5.3%	Yes	\$ 4,701	\$ 250	
161	8	151	1995	XJ192	7%	7%	7%	7%	10%	33%	3.3%	Yes	\$ 4,945	\$ 162	
162	8	189	1995	XJ116	3%	3%	3%	3%	5%	44%	5.5%	Yes	\$ 6,211	\$ 339	
165	8	459	1995	XJ326	4%	5%	8%	8%	2%	32%	31.7%	Yes	\$ 15,074	\$ 4,774	
166	8	290	1995	XJ298	49%	54%	69%	68%	41%	68%	19.6%	Yes	\$ 9,541	\$ 1,871	
167	8	315	1995	XJ298	49%	54%	69%	68%	41%	68%	19.6%	Yes	\$ 10,335	\$ 2,027	

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	H			
										$= \text{Max (B, D, and E)}$	$= (F - B) / F$	$= (D - B) / F$			$= (H \times J) \text{ if I is "Yes"}$
168	8	316	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 10,370	\$ 2,038
169	8	243	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 7,998	\$ 1,572
170	8	270	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 8,884	\$ 1,746
176	8	196	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 6,441	\$ 1,263
178	8	351	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 11,534	\$ 544
179	8	288	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 9,450	\$ 1,857
180	8	97	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 3,174	\$ 623
182	8	297	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 9,743	\$ 1,914
183	8	234	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 7,693	\$ 1,512
184	8	298	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 9,777	\$ 1,918
185	8	220	1995	XJ632	3%	4%	9%	11%	44%	44%	90%	14.8%	Yes	\$ 7,225	\$ 1,070
186	8	293	1995	XJ332	28%	31%	38%	37%	22%	37%	17%	17.2%	Yes	\$ 9,611	\$ 1,651
187	8	298	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 9,804	\$ 1,926
188	8	200	1995	XJ371	2%	2%	2%	4%	44%	44%	97%	5.7%	Yes	\$ 6,584	\$ 374
189	8	317	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 10,429	\$ 2,045
190	8	257	1995	XJ371	2%	2%	2%	4%	44%	44%	97%	5.7%	Yes	\$ 8,441	\$ 480
191	8	243	1995	XJ332	28%	31%	38%	37%	22%	37%	17%	17.2%	Yes	\$ 7,982	\$ 1,371
192	8	243	1995	XJ332	28%	31%	38%	37%	22%	37%	17%	17.2%	Yes	\$ 7,985	\$ 1,371
193	8	285	1995	XJ632	3%	4%	9%	11%	44%	44%	90%	14.8%	Yes	\$ 9,354	\$ 1,385
194	8	169	1995	XJ337	19%	21%	26%	25%	14%	25%	18%	18.1%	Yes	\$ 5,559	\$ 1,006
195	8	295	1995	XJ337	19%	21%	26%	25%	14%	25%	18%	18.1%	Yes	\$ 9,677	\$ 1,751
196	8	300	1995	XJ337	19%	21%	26%	25%	14%	25%	18%	18.1%	Yes	\$ 9,852	\$ 1,782
197	8	403	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 13,250	\$ 2,328
198	8	150	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 4,926	\$ 232
199	8	363	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 11,928	\$ 563
201	8	294	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 9,661	\$ 1,895
202	8	300	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 9,858	\$ 1,937
203	8	263	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 8,642	\$ 1,519
204	8	176	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 5,779	\$ 1,016
205	8	225	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 7,377	\$ 1,296
207	8	437	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 14,343	\$ 677
208	8	125	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 4,107	\$ 194
209	8	286	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 9,398	\$ 1,847
210	8	202	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 6,634	\$ 1,304
211	8	275	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 9,032	\$ 1,775
212	8	303	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 9,957	\$ 1,953
213	8	313	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 10,289	\$ 2,018
214	8	317	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 10,418	\$ 1,831
215	8	289	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 9,511	\$ 1,671
216	8	116	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 3,816	\$ 671
217	8	242	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 7,967	\$ 1,400
218	8	280	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 9,192	\$ 1,615
220	8	146	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 4,789	\$ 226
221	8	154	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 5,044	\$ 238
222	8	396	1995	XJ371	2%	2%	2%	4%	44%	44%	97%	5.7%	Yes	\$ 12,996	\$ 738

Table C-2. Non-Modeled Existing Sanitary Sewer Pipes Reserve Capacity Detail (Cont'd)

Pipe Segment ID	Dia (in)	Segment Length (ft)	Year Built	Reference Pipe ¹	q/Qfull					Max % Capacity Ever Used	Proportion of Max Capacity Ever Used		Impact Fee Eligible?	Estimated Project Cost	Estimated Impact Fee-Eligible Cost
					2014	2016	2024	2026	2060		2016 to 2060	2016 to 2026			
					A	B	C	D	E		F	H			
										= Max (B, D, and E)	= (F - B) / F	= (D - B) / F			= (H x J) if I is "Yes"
223	8	208	1995	XJ371	2%	2%	2%	4%	44%	44%	97%	5.7%	Yes	\$ 6,847	\$ 389
224	8	398	1995	XJ371	2%	2%	2%	4%	44%	44%	97%	5.7%	Yes	\$ 13,075	\$ 743
225	8	151	1995	XJ371	2%	2%	2%	4%	44%	44%	97%	5.7%	Yes	\$ 4,953	\$ 281
226	8	298	1995	XJ393	7%	7%	7%	9%	37%	37%	81%	4.6%	Yes	\$ 9,775	\$ 448
227	8	149	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 4,898	\$ 861
228	8	333	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 10,942	\$ 1,923
229	8	280	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 9,184	\$ 1,805
230	8	239	1995	XJ380	5%	6%	7%	7%	10%	10%	44%	17.6%	Yes	\$ 7,845	\$ 1,379
231	8	287	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 9,431	\$ 1,850
236	8	312	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 10,251	\$ 484
237	8	325	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 10,685	\$ 504
238	8	303	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 9,945	\$ 469
239	8	278	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 9,120	\$ 430
240	8	304	1995	XJ393	7%	7%	7%	9%	37%	37%	81%	4.6%	Yes	\$ 9,973	\$ 457
242	8	361	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 11,876	\$ 560
243	8	402	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 13,222	\$ 624
244	8	399	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 13,123	\$ 619
248	8	272	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 8,922	\$ 1,750
252	8	166	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 5,454	\$ 257
253	8	185	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 6,062	\$ 286
261	8	399	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 13,117	\$ 2,573
262	8	342	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 11,239	\$ 530
263	8	102	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 3,345	\$ 656
278	8	351	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 11,534	\$ 544
283	8	332	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 10,916	\$ 515
284	8	306	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 10,053	\$ 474
285	8	201	1995	XJ439	7%	7%	7%	7%	10%	10%	30%	4.7%	Yes	\$ 6,615	\$ 312
304	8	118	1995	XJ122	6%	7%	9%	10%	15%	15%	54%	19.6%	Yes	\$ 3,882	\$ 762
1161	8	146	1995	XJ202	1%	1%	1%	1%	2%	2%	69%	7.6%	Yes	\$ 4,809	\$ 364
1162	8	259	1995	XJ289	41%	45%	58%	56%	34%	56%	20%	19.7%	Yes	\$ 8,520	\$ 1,680
1163	8	246	1995	XJ299	53%	58%	74%	72%	44%	72%	20%	19.6%	Yes	\$ 8,067	\$ 1,585
1164	8	258	1995	XJ298	49%	54%	69%	68%	41%	68%	20%	19.6%	Yes	\$ 8,481	\$ 1,663
1165	8	291	1995	XJ332	28%	31%	38%	37%	22%	37%	17%	17.2%	Yes	\$ 9,562	\$ 1,642
1166	8	299	1995	XJ337	19%	21%	26%	25%	14%	25%	18%	18.1%	Yes	\$ 9,825	\$ 1,777
1167	8	414	1995	XJ336	26%	29%	36%	35%	20%	35%	18%	17.7%	Yes	\$ 13,587	\$ 2,400
999999	10	99	2013	WRF2013_1	17%	21%	33%	37%	100%	100%	79%	16.1%	Yes	\$ 4,893	\$ 790
888888	10	210	2013	WRF2013_2	17%	21%	33%	37%	100%	100%	79%	16.1%	Yes	\$ 10,435	\$ 1,685
1000000	10 FM	4,305	1995	Lift Station	17%	21%	33%	37%	100%	100%	79%	16.1%	Yes	\$ 168,282	\$ 27,178
Total													\$ 2,076,372	\$ 217,155	

¹First downstream modeled pipe.

APPENDIX D – HISTORIC COSTS

The following tables show a summary of projects with known historical costs.

The Santaquin City sanitary sewer system was installed in 1994 when the City installed miles of sewer pipe. The project was funded 47% from grants and the other 53% was paid in cash or bonded for by the City. Tables D-1 through D-4 show how costs per foot for different pipe diameters were calculated for various projects the City paid for. These costs were used in Table C-1 and C-2.

Table D-1: Historic Cost Paid by Santaquin for Original Sanitary Sewer System Project

Original System Historical Project Cost ¹	\$ 6,751,908
Impact Fee Eligible Cost ²	\$ 3,681,927

¹Cost includes Center Street Lift Station and 52 MG Winter Storage Ponds

²Recorded costs paid for by City

Diameter	Approximate Pipe Length from GIS (ft)	Present Day Unit Cost (per LF)	Present Day Cost	Percent of Total	Impact Fee Eligible Cost	Impact Fee Eligible Cost (per LF)
8	98,007	\$ 69	\$ 6,737,949	87.8%	\$ 3,232,854	\$ 33
10	6,793	\$ 80	\$ 541,760	7.1%	\$ 259,935	\$ 38
15	530	\$ 103	\$ 54,410	0.7%	\$ 26,106	\$ 49
10 FM	4,315	\$ 79	\$ 339,794	4.4%	\$ 163,032	\$ 38
Total	109,644		\$ 7,673,913		\$ 3,681,927	

Table D-2: Historic Cost Paid by Santaquin for the 2013 WRF Project (Gravity Piping-only)

a	2013 WRF Historical Project Cost	\$ 18,380,688	
b	Piping Portion	\$ 1,725,000	
c	Impact Fee Eligible Cost ²	\$ 8,684,688	
d	Impact Fee Eligible Pipe Portion	\$ 815,045	= (b/a) x c

²Recorded costs paid for by City

Diameter	Approximate Pipe Length from GIS (ft)	Present Day Unit Cost (per LF)	Present Day Cost	Percent of Total	Impact Fee Eligible Cost	Impact Fee Eligible Cost (per LF)
10	309	\$ 80	\$ 24,631	2.5%	\$ 20,671	\$ 36
18	8,470	\$ 112	\$ 946,539	97.5%	\$ 794,374	\$ 38
Total	8,779		\$ 971,171		\$ 815,045	

Table D-3: Historic Cost Paid by Santaquin for the 900 South and Center Street Project

Historical Project Cost	Unknown
Impact Fee Eligible Cost ¹	\$ 56,601

¹Recorded costs paid for by City

Diameter	Approximate Pipe Length from GIS (ft)	Present Day Unit Cost (per LF)	Present Day Cost	Percent of Total	Impact Fee Eligible Cost	Impact Fee Eligible Cost (per LF)
8	1,379	\$ 69	\$ 94,807	100.0%	\$ 56,601	\$ 41
Total	1,379		\$ 94,807		\$ 56,601	

Table D-4: Historic Cost Paid by Santaquin for the Main Street & I-15 Project

Historical Project Cost	Unknown
Impact Fee Eligible Cost ¹	\$ 102,791

¹Estimated based on estimated 2016 costs with a 1998 ENR Construction Index reduction.

Diameter	Approximate Pipe Length from GIS (ft)	Present Day Unit Cost (per LF)	Present Day Cost	Percent of Total	Impact Fee Eligible Cost ¹	Impact Fee Eligible Cost (per LF)
6	275	\$ 60.75	\$ 16,687	9%	\$ 9,608	\$ 34.98
8	2,354	\$ 68.75	\$ 161,838	91%	\$ 93,183	\$ 39.58
Total	2,629		\$178,526		\$ 102,791	

¹Reduced using ENR Construction Index factor of 1.737 for 1998 construction year (see Table D-7)

Table D-5: Historic Cost Paid by Santaquin for the Winter Storage Ponds

a	% of Pond #2 Used in 2016	58.5%	
b	% of Pond #2 Used in 2026	100%	
c	% Impact Fee Eligible	41.5%	[1-a]
d	Historical Project Cost ¹	\$ 1,247,683	
e	Impact Fee Eligible Cost	\$ 517,369	[c*d]

¹Based on City records

Table D-6: Historic Cost Paid by Santaquin for Sewer Improvements at Summit Ridge

Historical Project Cost	Unknown
Impact Fee Eligible Cost ¹	\$ 1,049,547

¹Recorded costs paid by the developer to be reimbursed by the City

Diameter	Approximate Pipe Length from GIS (ft)	Present Day Unit Cost (per LF)	Present Day Cost	Percent of Total	Impact Fee Eligible Cost ¹	Impact Fee Eligible Cost (per LF)
10	3,120	\$ 79.75	\$ 248,813	18%	\$ 192,424	\$ 61.68
12	3,842	\$ 94.75	\$ 364,047	27%	\$ 281,543	\$ 73.28
15	3,848	\$ 102.75	\$ 395,370	29%	\$ 305,768	\$ 79.46
18	3,122	\$ 111.75	\$ 348,878	26%	\$ 269,812	\$ 86.42
Total	13,932		1,357,108		1,049,547	

Table D-7: Historic Cost Paid by Santaquin for the Public Works Facility

a	2016 ERUs	3,199	
b	2026 ERUs	5,238	
c	Buildout ERUs	16,289	
d	2016 to Buildout Growth	13,090	[c-a]
e	2016 to 2026 Growth	2,039	[b-a]
f	10-year growth responsibility	15.57%	[e/g]
g	Historical Project Cost ¹	\$ 2,530,000	
h	Sanitary Sewer Portion ²	\$ 632,500	[g*0.25]
i	Impact Fee Eligible Cost	\$ 98,507	[f*h]

¹Based on City records

²City records indicate a cost-sharing of 25% each between sanitary sewer, parks, culinary water, and secondary water

Table D-7: City Projects Paid for by Others

Project Description	Year Constructed	Funding Source
Winter Storage Expansion (Large Pond & Pump Station)	2001-2002	Developer/Impact Fee Funded
Land Application Pump (New)	2009	Developer/Impact Fee Funded
100 West (Pole Canyon Road) Sewer (900 South to 1200 South)	2015	Developer/Impact Fee Funded

Table D-8: Winter Storage Pond Storage Summary and % of Recharge Permit to be Used by 2026

Table Row		Storage (MG)	
Existing Storage			
a	Pond #1 Storage	52	
b	Pond #2 Storage	126	
c	Total Existing Storage	178	= a + b
2016 Storage Needs			
d	2016 Storage Demand	109	
e	115% of 2016 Storage Demand ¹	126	= d * 1.15
f	Remaining Storage	52	= c - f
g	% of Pond #1 Used	100%	
h	% of Pond #2 Used	58.5%	= (e - a) / b
2026 Storage Needs			
i	2026 Storage Demand	183	
j	115% of 2026 Storage Demand	210	= i * 1.15
k	Remaining Storage	-32	= j - c
l	% of Pond #1 Used	100%	
m	% of Pond #2 Used	126%	= (j - a) / b
Additional Storage Project in Year 2022 to Meet LOS			
n	Existing Storage	178	
o	Proposed North Winter Storage Pond	106	
p	Total Storage in 2022	284	= n + o
% of Proposed Winter Storage Pond Used by 2026			
q	% of Pond #1 Used	100%	
r	% of Pond #2 Used	100%	
s	% Proposed Winter Storage Pond Used	30%	= (j - n) / o

¹LOS for storage is having capacity to provide at least 115% of the total demand during the non-irrigation season.

Table D-9 shows the Engineering News Record Construction Cost Index, which is an index based on labor, steel, concrete and lumber in 20 major cities in the United States.

Table D-9. Engineering News Record Construction Cost Index History

Construction Year	Index Cost	Ratio to 2016 to Construction Year	Construction Year	Index Cost	Ratio to 2016 to Construction Year	Construction Year	Index Cost	Ratio to 2016 to Construction Year
2016	10282	1.000	1984	4146	2.480	1952	569	18.070
2015	10036	1.025	1983	4066	2.529	1951	543	18.935
2014	9806	1.049	1982	3825	2.688	1950	510	20.160
2013	9547	1.077	1981	3535	2.909	1949	477	21.555
2012	9308	1.105	1980	3237	3.176	1948	461	22.303
2011	9070	1.134	1979	3003	3.424	1947	413	24.895
2010	8799	1.169	1978	2776	3.704	1946	346	29.716
2009	8570	1.200	1977	2576	3.991	1945	308	33.382
2008	8310	1.237	1976	2401	4.282	1944	299	34.387
2007	7966	1.291	1975	2212	4.648	1943	290	35.454
2006	7751	1.327	1974	2020	5.090	1942	276	37.253
2005	7446	1.381	1973	1895	5.426	1941	258	39.852
2004	7115	1.445	1972	1753	5.865	1940	242	42.487
2003	6694	1.536	1971	1581	6.503	1939	236	43.567
2002	6538	1.573	1970	1381	7.445	1938	236	43.567
2001	6343	1.621	1969	1269	8.102	1937	235	43.752
2000	6221	1.653	1968	1155	8.902	1936	206	49.911
1999	6059	1.697	1967	1074	9.573	1935	196	52.458
1998	5920	1.737	1966	1019	10.090	1934	198	51.928
1997	5826	1.765	1965	971	10.589	1933	170	60.481
1996	5620	1.829	1964	936	10.985	1932	157	65.489
1995	5471	1.879	1963	901	11.411	1931	181	56.805
1994	5408	1.901	1962	872	11.791	1930	203	50.649
1993	5210	1.973	1961	847	12.139	1929	207	49.670
1992	4985	2.063	1960	824	12.478	1928	207	49.670
1991	4835	2.127	1959	797	12.901	1927	206	49.911
1990	4732	2.173	1958	759	13.546	1926	208	49.431
1989	4615	2.228	1957	724	14.201	1925	207	49.670
1988	4519	2.275	1956	692	14.858	1924	215	47.822
1987	4406	2.334	1955	660	15.578	1923	214	48.046
1986	4295	2.394	1954	628	16.372	1922	174	59.090
1985	4195	2.451	1953	600	17.136	1921	202	50.900

Table D-10 details the engineering and financial costs related to planning for impact fee collection. These costs include modeling, master planning, capital facilities planning, and impact fee facilities plan (by J-U-B Engineers), and an impact fee analysis (by Zions Bank Public Finance).

Table D-10. Engineering / Financial Costs Related to Planning Eligible for Impact Fee Collection

	Cost
Master Plan & Capital Facilities Plan	\$ 52,000
Impact Fee Facilities Plan	\$ 20,000
Impact Fee Analysis	\$ 6,250
Total	\$ 78,250

APPENDIX E – IMPACT FEE FACILITIES PLAN CERTIFICATION

As required by Section 11-36a-306 of the Impact Fee Act, J-U-B Engineers, Inc. provides the following statement:

I certify that the attached Impact Fee Facilities plan:

1. includes only the costs of public facilities that are:
 - a. allowed in the Impact Fees Act; and
 - b. actually incurred; or
 - c. projected to be incurred or encumbered within 6 years after the day on which each impact fee is paid;
2. does not include:
 - a. costs of operation and maintenance of public facilities;
 - b. costs for qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents;
 - c. an expense for overhead, unless the expense is calculated pursuant to the methodology that is consistent with generally accepted cost accounting practices and the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursements; and
3. complies with each and every relevant respect with the Impact Fees Act.

J-U-B Engineers, Inc.

APPENDIX B



**CITY OF
SANTAQUIN**

**SEWER IMPACT FEE
ANALYSIS**

PREPARED BY

**ZIONS BANK PUBLIC
FINANCE**

DECEMBER 2016



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EXECUTIVE SUMMARY

Santaquin City, Utah (the City) recently commissioned Zions Public Finance, Inc. (Zions) to calculate the City's sewer impact fees in accordance with Utah State Law. An impact fee is a one-time charge to new development to reimburse the City for the cost of developing new sewer system capacity that will allow development to occur. In conjunction with this project, J-U-B Engineers (J-U-B) prepared the Santaquin City Sanitary Sewer System Impact Fee Facilities Plan (IFFP) dated November 2016.

City Sewer System and Service Area

The City owns and operates a wastewater treatment system that serves all connections within the current City boundaries and some residents in unincorporated areas. A major portion of the City's original sewer system and the recent water reclamation facility (WRF) were funded with grants and low interest loans. A City's service area map is included in Appendix A and shows where impact fees will be assessed by the City. This impact fee includes the cost of capacity in the existing water reclamation facility, collection system and lift station, wastewater effluent storage, and the sewer portion of the public works building.

The City's sanitary sewer system currently serves 3,199 Equivalent Residential Units (ERUs) as of 2016 and will add 2,039 more ERUS by 2026 which is the ten-year horizon. The level of service or demand per ERU is 200 gallons per average day.

Sewer System Costs and Allocations

The City's existing wastewater facilities have been constructed with a combination of City funding and grant funding. Also several bonds were issued to fund the original collection and lift station as well as the WRF. The total cost of the system is shown in the City's depreciation statements to be \$29,291,488 and \$12,765,982 was funded with grants. The grant funded portion of facilities have been removed from the impact fee.

The City will need to build \$10,729,418 (FV) of future sewer projects in the next ten years to expand the existing system capacities to accommodate new growth. These projects are required to provide capacity to allow new growth to connect to a safe and reliable system and are 100% allocated to growth. Additional bonds will need to be issued to fund these future improvements. The City prefers not to issue bonds but currently future bonds are necessary to fund the future capital projects due to cash and financial constraints in the sewer fund.

Recommended Sewer Impact Fees

The recommended impact fee structure presented in this analysis has been prepared to satisfy the Impact Fees Act, Utah Code Ann. § 11-36-101 et. seq., and represents the maximum sanitary sewer impact fees that the City may assess within the service areas. The City will be required to use other revenue sources to fund any projects identified in the IFFP that constitute repair and replacement, cure any existing deficiencies, increase the level of service or maintain the level of service for existing users.

The following table shows the maximum legal sanitary sewer impact fee that the City can assess per ERU. The final impact fee paid will be based on the unique characteristics of the residential or non-residential property that is proposed to be developed. All multi-family and non-residential units will be assessed an impact fee according to the number of fixture units as determined by the International Residential Code (IRC) from 2015.

FIGURE ES.1: IMPACT FEE PER SEWER ERU ¹

Unit Type	ERU Equivalent	Price per ERU	Proposed Fee
Single Family Residential	1.00	\$ 4,416	\$ 4,416
Multi-Family/ Non-Residential (16 Fixture Units)*	1	4,416	4,416

* Fixture units are based upon the 2015 IRC

Figure ES.2 provides a calculation of the impact fee for a non-standard user that may not fit the schedule found in the previous table. The non-standard calculation is based on the estimated gallons of use of a new property on a peak month average day basis and the proposed cost per gallon of wastewater for each of the service areas. It is at the City's discretion if the non-standard calculation will be used and clear and thorough documentation of the proposed property's estimated demand must be provided.

FIGURE ES.2: CALCULATION OF NON-STANDARD SEWER IMPACT FEE

Non-Standard Users Impact Fee Formula
Step 1: Identify Estimated Average Day Gallons per Day Divided by 200 for an ERU Count
Step 2: Multiply ERUs Calculated in Step 1 by \$4,415 per ERUs

¹ The proposed impact fee shown above includes the cost of a surface water storage pond included at the cost of \$3,797,086 (FV) which is likely to be the proposed solution for effluent storage. However, the City may be able to develop a ground water storage system in the future at a cost of \$961,212 but it is not yet known if the less expensive alternative can be implemented. The difference in the impact fees given the different storage alternatives is \$690. Until a final storage solution is determined, the City will set aside \$690 that relates to the higher project cost in a special fund that will be reimbursed back to impact fee payers in case the less expensive ground water recharge option is implemented.

CHAPTER 1: OVERVIEW OF THE CITY SEWER IMPACT FEES

Impact Fee Overview

An impact fee is a one-time fee, not a tax, charged to new development to recover the City's cost of constructing sewer facilities with excess capacity that will be utilized by new growth. The fee is assessed at the time of building permit issuance as a condition of development approval. The calculation of the impact fee must strictly follow the Impact Fees Act to ensure that the fee is equitable, fair, and legally defensible. This analysis provides documentation that there is a fair comparison, or rational nexus, between the impact fee charged to new development and the impact on the capacity of the system.

Until new development utilizes the full capacity of existing facilities the City can assess an impact fee to recover its cost of latent capacity available to serve future development. The general impact fee methodology divides the available capacity of existing and future capital projects between the number of existing and future users.

Qualifying and Non-Qualifying Costs

The impact fees proposed in this analysis are calculated based upon:

- New capital infrastructure for sewer treatment;
- Professional and planning expenses related to the construction of new infrastructure; and
- Any impact fee qualifying historic costs of existing improvements that will serve new development.

The costs that cannot be included in the impact fee are as follows:

- Projects that cure existing deficiencies for existing users;
- Projects that increase the level of service above that which is currently provided;
- Operations and maintenance costs;
- Costs of facilities funded by grants or other funds that the City does not have to repay; and
- Costs of reconstruction of facilities that do not have capacity to serve new growth.

Level of Service, ERU Definition

The level of service standard is established in the IFFP and reflects City policies, sound engineering analysis and standards, and observed demands. This is a defensible level of service that is established in the IFFP and it is anticipated that this level of service per ERU will be perpetuated into the future. However, the City has the right to increase this established level of service in the future by constructing facilities that will provide



greater capacity but such level of service increases cannot be funded through impact fees. The City will have to find other funding sources, such as user rates, for projects that increase level of service should it decide to do so. There are currently no plans to increase the level of service beyond what is proposed in the IFFP.

Description of the Service Area

The sewer impact fee service area includes all areas in the City boundaries and various unincorporated customers. The City does have a collection system. A map of the City's service area where impact fees will be assessed is found in Appendix A.



CHAPTER 2: IMPACT FROM GROWTH UPON THE CITY'S FACILITIES AND LEVEL OF SERVICE

Future Sewer Demand within the Service Area

Sewer demand within the City will increase as development activity continues and homes and other types of development are built. Currently there are 3,199 ERUs and there will be 16,289 total ERUs when buildout is estimated to occur at buildout at some point in the future. This study focuses on a ten-year horizon from 2016 to 2026 when the system will add 2,039 sewer ERUs of growth. Figure 2.1 shows the growth in ERUs through an estimated buildout and Figure 2.2 shows the increase in ERUs expected from 2016 to 2026.

FIGURE 2.1: PROJECTED GROWTH IN DEMAND (ERUs)

Year	Population	ERUs	Ave Day Demand (GPD)	GPD per ERU
2014	10,689	2,835	534,681	189
2015	11,352	3,013	570,281	200
2016	12,044	3,199	607,481	200
2017	12,791	3,400	647,681	200
2018	13,584	3,613	690,281	200
2019	14,426	3,840	735,681	200
2020	15,321	4,081	783,881	200
2021	15,889	4,235	814,681	200
2022	16,479	4,394	846,481	200
2023	17,090	4,559	879,481	200
2024	17,724	4,730	913,681	200
2025	18,382	4,977	963,081	200
2026	19,064	5,238	1,015,281	200
2030	22,054	6,422	1,252,081	200
2040	29,783	9,784	1,924,481	200
2050	36,389	12,961	2,559,881	200
Buildout	42,817	16,289	3,225,481	200

Source: Santaquin City Sewer Impact Fee Facilities Plan, JUB Engineers

FIGURE 2.2: PROJECTED TEN-YEAR GROWTH IN DEMAND (ERUs)

SEWER ERUs	
Current Peak Day Demand (ERU)	3,199
Ten Year Demand (ERU)	5,238
Buildout Peak Day Demand (ERU)	16,289
Undeveloped Demand (ERU)	13,090
% Undeveloped	80%
ERU Demand Added in Ten Year	2,039

Sewer Level of Service

Figure 2.3 shows the general sewer design characteristics for the programmed level of service for hydraulic and biological demands and hydraulic flow through the City’s collection system.

FIGURE 2.3: ENGINEERING LEVEL OF SERVICE FOR FACILITY DESIGN

Treatment Level of Service			
BOD	25mg/l	DO	5 mg/l min
TSS	25 mg/l	TRC	1.8 mg/l max
E Coli	126 / 158 CFU	TIN	10 mg/l
pH	6.5-9.0		

Impact Fee Equivalent Residential Unit

The City’s sewer infrastructure is sized to be adequate to meet peak month average day demand. The primary measurement used for sewer treatment demand and improvement sizing and capacity evaluations in this analysis is an ERU which is equal to 200 gallons per average day in the peak month. The City’s treatment infrastructure is sized to be adequate to meet peak month average day demand. The primary measurement used for sewer treatment demand and improvement sizing and capacity evaluations in this analysis is an ERU which is equal to 200 gallons per average day in the peak month.

A fair impact fee is calculated by dividing the cost of existing and future facilities by unused capacity in existing or future facilities expressed in terms of an ERU. This cost per ERU is then multiplied by the estimated demand of an individual home, business, or other non-residential user expressed in term of an ERU or 200 gallons on an average day in the peak month to determine the final impact fee to be paid.

CHAPTER 3: HISTORIC AND FUTURE CAPITAL PROJECTS COSTS

The Impact Fees Act allows for the inclusion of various growth-driven capital cost components improvements and appropriate professional services inflated from current dollars to construction year costs. Impact fees can only fund system improvements which are defined as facilities or lines that contribute to the entire system's capacity rather than just to a small, localized area. The City has currently several outstanding bonds related to sewer capital projects and the City does not anticipate issuing debt in future years. The City may receive future grants to fund future projects but none are considered in this analysis. If future grants are received then an amendment to the IFA may be required.

Historic Capital Project Costs

This analysis considers existing assets in the calculation of the impact fees per ERU. This is referred to as the buy-in which represents the cost of infrastructure that has been built in the past that still has capacity in it available for new growth. Only historic costs can be used in calculating the buy-in however any grants used to fund improvements must be excluded.

Existing Collection and Lift Station Facilities

The existing collection and lift station facilities cost about \$10,505,814 to construct. The majority of that cost is related to the original system dating back to about 1995 but more improvements have been added since then. Of this amount, it has been estimated that 46% (\$4,789,598) of the existing collection system costs are related to project improvements which are sewer lines constructed and installed by developers. These project improvements are not included in the impact fee. The remaining \$5,716,216 relates to system improvements of which \$3,979,938 was grant funded leaving \$1,736,278 as impact fee qualifying. Approximately 12.37% of the existing collection lines will be required to serve the ten-year demand. Additional interest cost from the 1993 and 2012 series of bonds related to the existing collection system is \$751,444 in total. The ten-year demand portion for the bond interest cost is also 12.37% which totals \$88,852. This represents \$426,119 in total future and existing impact fee costs to the ten-year demand.

Existing Water Reclamation Facility

The existing WRF cost the City \$16,660,688 to construct in about 2011. The WRF is entirely related to system improvements and there are no project improvements provided by the WRF. The City received \$8,768,044 in grant funding leaving \$7,874,643 as impact fee qualifying. Approximately 13.25% of the existing WRF is needed to serve the ten-year demand. This represents \$1,426,110 in impact fee costs for the portion of the existing WRF that will serve the ten-year demand. Three Series 2011 bonds were issued to help fund the WRF and 13.25% of these bonds' interest cost are assigned to the impact fees.

Existing Sewer Storage Ponds

The City currently maintains a large and small storage pond required to hold effluent produced by the WRF. The small pond has a capacity of 52 MG and the large pond has a capacity of 126 MG. The small pond was constructed first and its capacity is entirely used. The large pond is mostly used and will not have sufficient capacity to serve the entire ten-year demand. The large pond was constructed for \$1,247,683 without the use of grants or bonds. Approximately 41.47% of the large storage pond is needed to serve the ten-year demand. This represents \$517,369 in impact fee costs to the ten-year demand. There is no existing debt related to the small pond.

Existing Sewer Building

The City has recently constructed a new public works building of which 25% is allocated to sewer facilities. Without this facility, the sewer system cannot be effectively operated. This facility is a new building and benefits existing as well as future users. Existing users will pay for this facility through user rates which will also be paid by new users. An impact fee credit is calculated based on the portion of the debt service that new users will pay through rates for the existing users' portion of the facility. The building was constructed for \$2,500,000 without grants but Series 2016 Excise Tax Revenue Bonds were issued. Approximately 15.57% of the sewer building is needed to serve the ten-year demand. The building adds \$637,500 to total sewer costs and \$99,284 for ten-year demand impact fee costs. A credit is calculated to be \$45.26 per ERU for the portion of the costs of the building that will relate to existing users.

FIGURE 3.1: VALUATION OF EXISTING ASSETS.

Depreciation Statement	Total	Original Coll/ LS/ Small Pond	New Collection	Water Reclamation Facility	2003 Large Pond #2 126MG	Sewer Building	Other	Total Cost
Land	\$ 110,000	\$ 50,000	\$ 50,000	\$ 5,000	\$ -	\$ 5,000		\$ 110,000
Buildings (Pond Pump Station)	64,097				64,097			64,097
Sewer Collection	6,843,385							-
- 1995 Additions to Sewer System (Original)	(261,879)	261,879						261,879
- 1995 Sewer Collection (Original)	(6,440,029)	6,440,029						6,440,029
- 2003 Sewer Pond	(1,501)				1,501			1,501
Net Sewer Collection	139,975		139,975					139,975
Machinery & Equipment	33,626						33,626	33,626
Automobiles and Trucks	198,778						198,778	198,778
Sewer Collection 10 Yrs	545,204		545,204					545,204
Sewer Collection 25 Yrs	20,856,499							-
- 2003 Sewer Pond	(1,055,372)				1,055,372			1,055,372
- 2004 Sewer Pond	(126,712)				126,712			126,712
- Water Reclamation Facility	(18,380,688)			16,655,688				16,655,688
- WRF Piping	(1,725,000)		1,725,000					1,725,000
Net Sewer Collection 25 Yrs	244,180		244,180					244,180
Summit Ridge Collection	1,049,547		1,049,547					1,049,547
Machinery & Equipment	7,400						7,400	7,400
ADDED Public Works Building	632,500					632,500		632,500
Total Costs by Component	\$ 29,291,488	\$ 6,751,908	\$ 3,753,906	\$ 16,660,688	\$ 1,247,683	\$ 637,500	\$ 239,804	\$ 29,291,488
Grants	\$ (3,069,982)	\$ (909,956)	\$ (8,786,044)					\$ (12,765,982)
Qualifying Cost	\$ 3,681,927	\$ 2,843,950	\$ 7,874,643	\$ 1,247,683	\$ 637,500	\$ 239,804		\$ 16,525,506

Future Capital Projects

Future Collection and Lift Station

The City has more additions to the existing collection system to provide adequate capacity to meet the ten-year demand. The future collection projects total \$2,162,182 for the next ten years and 6.73% or \$145,555 of those projects' capacity will be used to serve the ten-year demand. Future bonds will be issued to fund these projects. It is assumed that the bonds will be 20 year bonds, have a 5% coupon, and 2% costs of issuance. These bonding assumptions are used for all future capital projects.

Future Water Reclamation Facility

The City has more additions to the WRF to provide adequate capacity to meet the ten-year demand. The future WRF project totals \$4,701,027 for the next ten years and 59.39% or \$2,791,705 of those projects' capacity will be used to serve the ten-year demand. Bonds will be used to fund these projects.

Future Sewer Storage Facilities

The City has more additions to the WRF storage ponds to provide adequate capacity to meet the ten-year demand. The future storage pond will cost a total of \$3,797,086 for the next ten years and 30% or \$1,139,126 of the storage project's capacity will be used to serve the ten-year demand. Bonds will be used to fund these projects.

The following future capital projects are necessary to meet demand in the sewer system for existing and future users. All construction estimates are shown in 2016 dollars and a 3.0% inflation rate is added to projects to be constructed after 2016. As shown in Figure 3.2 project costs were sorted by 10-year impact fee qualifying demand, beyond 10-year demand, or whether any portion is non-qualifying which includes portions of the project that will be utilized by existing users.

FIGURE 3.2: FUTURE CAPITAL PROJECT COSTS

By Component	10 Year Impact Fee Qualifying Cost	Impact Fee Qualifying Beyond 10 Years	Non Impact Fee Qualifying	Total Ten Year Construction Cost
Collection and Lift Station	\$ 145,555	\$ 2,016,626	\$ -	\$ 2,162,182
Water Reclamation Facility	2,791,705	1,909,321	-	4,701,027
Storage	1,139,126	3,113,611	-	3,797,086
Sewer Building	-	-	-	-
Total	\$ 4,076,386	\$ 7,039,558	\$ -	\$ 10,660,295

Bond Expenses

Outstanding Bonds

The City has nine different bonds outstanding related to sewer expenses. Two are no interest loans and have no real relevance to the impact fee study since they do not have interest costs associated with them. The bonds were either used to construct the original collection system, build the WRF, or construct the sewer portion of the new public work building.

FIGURE 3.3: OUTSTANDING BOND EXPENSE

Bond Issue	Total Par Amount	Interest	Total Debt Service
Series 1993A Sewer DWQ Loan (No Interest)	\$ 1,000,000	\$ -	\$ 1,000,000
Series 1993B Sewer DWQ Loan (No Interest)	1,307,000	-	1,307,000
Series 1993C Sewer USDA Loan	188,560	393,329	581,889
Series 1993D Sewer USDA Loan	123,474	257,123	380,597
Series 2012 Sewer Revenue Refund (Refunded 1993 C&D)	670,000	100,993	770,993
Series 2011 A-1 DWQ	6,034,000	570,635	6,604,635
Series 2011 A-2 USDA Loan	2,912,000	2,143,902	5,055,902
Series 2011B Sewer Revenue Bond DWQ	900,000	172,290	1,072,290
Series 2015 Lease Revenue Bonds (25% to Sewer)	2,500,000	1,236,905	3,736,905
Totals	\$ 15,635,034	\$ 4,875,178	\$ 20,510,212

Figure 3.4 shows that the Series 1993 bonds, including the Series 2012 bond which refunded a 1993 bond, are all related to the original collection system. The 2011 bonds funded the WRF and the 2015 bond funded the public works building.

FIGURE 3.4: OUTSTANDING BOND EXPENSE ALLOCATION TO PROJECT

System	Collection	Treatment	Storage	Sewer Building	Non-Qualifying	% Total
Series 1993A Sewer DWQ Loan (No Interest)	100%	0%	0%	0%	0%	100%
Series 1993B Sewer DWQ Loan (No Interest)	100%	0%	0%	0%	0%	100%
Series 1993C Sewer USDA Loan	100%	0%	0%	0%	0%	100%
Series 1993D Sewer USDA Loan	100%	0%	0%	0%	0%	100%
Series 2012 Sewer Revenue Refund (Refunded 1993 C&D)	100%	0%	0%	0%	0%	100%
Series 2011 A-1 DWQ	0%	100%	0%	0%	0%	100%
Series 2011 A-2 USDA Loan	0%	100%	0%	0%	0%	100%
Series 2011B Sewer Revenue Bond DWQ	0%	100%	0%	0%	0%	100%
Series 2015 Lease Revenue Bonds (25% to Sewer)	0%	0%	0%	25%	75%	100%
Total Outstanding Interest Cost	\$ 751,445	\$ 2,886,827	\$ -	\$ 309,226	\$ 927,679	\$ 4,875,178

Future Bonds

The City anticipates the need to issue additional bonds in the future to fund the future costs of projects needed to serve new development. As mentioned above, the future bonds are structured to have a 20-year term, 2%

costs of issuance, and a 5% coupon. The interest related to future bonds is a reasonable expense for future impact fee payers to fund as the growth-related projects cannot be constructed without future financing.

FIGURE 3.5: FUTURE BOND FUNDING

	Project Costs	Percent to Bond	Amount funded with Bonds
Collection and Lift Station	\$ -	0%	\$ -
Water Reclamation Facility	2,373,233	100%	2,000,000
Storage	-	0%	-
Totals	\$ 2,373,233		\$ 2,000,000

	Project Costs	Percent to Bond	Amount funded with Bonds
Collection and Lift Station	\$ 1,404,369	18%	\$ 1,386,187
Water Reclamation Facility	2,396,917	32%	2,365,885
Storage	3,797,086	50%	3,747,927
Totals	\$ 7,598,372		\$ 7,500,000

Professional Expenses

As development occurs and capital project planning is periodically revised, the future lists of capital projects and their costs may be different than the information utilized in this analysis. For this reason, it is assumed that the City will perform updates to the analysis every three years. The cost of preparing this analysis, the impact fee facilities plan and the future costs of updating both documents for a ten-year period of time has been included in the impact fee calculations at an estimated cost of \$78,250.

CHAPTER 4: PROPORTIONATE SHARE ANALYSIS

The Impact Fees Act requires the impact fee analysis to estimate the proportionate share of the cost for existing capacity that will be recouped. The impact fee must be based on the historic costs and reasonable future costs of the system. This chapter will show in Figure 4.1 and 4.2 that the proposed impact fee for system improvements by service area are reasonably related to the impact on the sewer system from new development activity.

The proportionate share analysis considers the manner of funding utilized for existing public facilities. Historically the City has funded existing infrastructure with sources including the following:

- Sewer Impact Fees
- Sewer User Rates and Miscellaneous Fees
- Special Assessment Bonds
- Revenue Bonds
- Developer Exactions

In the future, the City will rely upon sewer impact fees and possibly developer exactions to fund the capital projects required for future expansion of the system. Some rate revenues may be used to pay the debt service of any bonds or cash-funded projects in years when impact fee revenues are insufficient to cover the annual payment to principal and interest. However, if rate revenues are used to pay what should be funded through impact fees (due to a shortfall in impact fee revenues) then the general fund will be repaid with impact fees.

Grant funding is not secured at the moment, however, if any grants are received, future impact fees will be discounted according to the size of grant and what impact fee qualifying projects it will be intended to fund.

Developer Credits

If a project included in the Impact Fee Facilities Plan (or a project that will offset the demand for a system improvement that is listed in the IFFP) is constructed by a developer then that developer is entitled to a credit against impact fees owed. (Utah Impact Fees Act, 11-36a-304(2)(f)). There are currently no situations/projects in this analysis that would entitle a developer to a credit.

User Rate Credits

Credits to the impact fees have been calculated for any projects which will benefit existing users and be paid for through user rate funds. Credits have been calculated for treatment projects listed in the IFFP that will provide capacity to existing users.

Time-Price Differential

Utah Code 11-36a-301(2)(h) allows for the inclusion of a time-price differential in order to create fairness for amounts paid at different times. To address the time-price differential, this analysis includes an inflationary component to account for construction inflation for future projects. Projects constructed after the year 2016 will be calculated at a future value with a 3.0% inflation rate. All users who pay an impact fee today or within the next ten years will benefit from projects to be constructed and included in the fee.

Non-Standard Demand Adjustments

The City reserves the right under the Impact Fees Act (Utah Code 11-36-402(1)(c,d)) to assess an adjusted fee to respond to unusual circumstances and to ensure that the impact fees are assessed fairly. The impact fee ordinance must include a provision that permits adjustment of the fee for a particular development based upon studies and data submitted by the developer that indicate a more realistic and accurate impact upon the City's infrastructure. The impact fee formula shown below in Figure 4.4 for a non-standard user is based upon the anticipated annual sewer demand of that particular user.

Maximum Legal Sewer Impact Fees Based per ERU

As shown in Figure 4.1 and Figure 4.2, the maximum legal impact fee per ERU is calculated to be \$4,416². This fee is the combination of individual fees for treatment and professional fees. Each fee for individual components is based upon the historic and future costs divided by the total and available capacities. The result is a precise impact fee per ERU demand that complies with the Impact Fees Act.

Determination of Residential and Non-Residential Impact Fees

The impact fees to be paid by different residential and non-residential users are assessed according to demand per ERU. Demand in terms of ERUs will be assessed individually by the City's engineers who will determine the number of ERUs per new development. The impact fee per ERU will then be multiplied by that figure. All multi-family and non-residential units will be assessed an impact fee according to the number of fixture units as determined by the International Residential Code (IRC) from 2015.

² The proposed impact fee shown above includes the cost of a surface water storage pond included at the cost of \$3,797,086 (FV) which is likely to be the proposed solution for effluent storage. However, the City may be able to develop a ground water storage system in the future at a cost of \$961,212 but it is not yet known if the less expensive alternative can be implemented. The difference in the impact fees given the different storage alternatives is \$690. Until a final storage solution is determined, the City will set aside \$690 that relates to the higher project cost in a special fund that will be reimbursed back to impact fee payers in case the less expensive ground water recharge option is implemented.

FIGURE 4.1: MAXIMUM INDOOR IMPACT FEE SCHEDULE

Unit Type	ERU Equivalent	Price per ERU	Proposed Fee
Single Family Residential	1.00	\$ 4,416	\$ 4,416
Multi-Family/ Non-Residential (16 Fixture Units)*	1	4,416	4,416

* Fixture units are based upon the 2015 IRC

FIGURE 4.2: CALCULATION OF NON-STANDARD IMPACT FEE

Non-Standard Users Impact Fee Formula
Step 1: Identify Estimated Average Day Gallons per Day Divided by 200 for an ERU Count
Step 2: Multiply ERUs Calculated in Step 1 by \$4,415 per ERUs



FIGURE 4.1: SEWER IMPACT FEE CALCULATION

Component	Total Cost to Component	% That will Serve Ten Year Demand	Dollar Amount that will Serve Ten Year Demand	Ten Year Demand (ERU)	Cost per ERU
Collection and Lift Station					
Future 10 Year Capital Projects	\$ 2,162,182	6.73%	\$ 145,555	2,039	\$ 71
Future Collection Related Debt to be Issued - INTEREST ONLY	855,549	6.73%	57,594	2,039	28
Existing Collection Projects + Land	5,716,216	12.37%	\$829,420	2,039	407
Existing Collection Related Debt - INTEREST ONLY	751,445	12.37%	88,852	2,039	44
Minus Collection Grants	(3,979,938)	12.37%	(492,154)	2,039	(241)
Collection Subtotal	\$ 5,505,453		\$ 629,268		\$ 308.62
Water Reclamation Facility					
Future 10 Year Capital Projects	\$ 4,770,150	59.80%	\$ 2,852,627	2,039	\$ 1,399
Future Treatment Related Debt to be Issued - INTEREST ONLY	2,694,605	59.80%	1,611,418	2,039	790
Existing Treatment Projects + Land	16,660,688	13.25%	2,207,874	2,039	1,083
Existing Treatment Related Debt - INTEREST ONLY	2,886,827	13.25%	382,562	2,039	188
Minus WRF Grants	(8,786,044)	13.25%	(1,164,327)	2,039	(571)
Treatment Subtotal	\$ 18,226,226		\$ 5,890,155		\$ 2,888.75
Storage					
Future 10 Year Capital Projects	\$ 3,797,086	30.00%	\$ 1,139,126	2,039	\$ 559
Future Storage Related Debt to be Issued - INTEREST ONLY	2,313,204	30.00%	693,961	2,039	340
Existing Storage Projects + Land	1,247,683	41.47%	517,369	2,039	254
Existing Storage Related Debt - OUTSTANDING INTEREST	-	0.00%	-	2,039	-
Minus Grants	-	-	-	-	-
Storage Subtotal	\$ 7,357,973		\$ 2,350,456		\$ 1,152.75
Sewer Building					
Future 10 Year Capital Projects	\$ -	0.00%	\$ -	2,039	\$ -
Future Sewer Building Related Debt to be Issued - INTEREST ONLY	-	0.00%	-	2,039	-
Existing Sewer Building Projects + Land	637,500	15.57%	99,284	2,039	49
Existing Lift Sewer Building Related Debt - OUTSTANDING INTERES	309,226	15.57%	48,159	2,039	24
Minus Grants	-	0.00%	-	-	-
Transmission Subtotal	\$ 946,726		\$ 147,443		\$ 72.31
Professional Services/ Credits					
Unspent Impact Fee Funds	-	0.00%	\$ -	2,039	\$ -
Professional Services - Master Plan	52,000	100%	52,000	2,039	25
Professional Services - Engineering	20,000	100%	20,000	2,039	10
Professional Services - IFA	6,250	100%	6,250	2,039	3
Sewer Building Rate Credits	-	-	-	-	(45)
Professional Services/Credits Subtotal	\$ 78,250		\$ 78,250		\$ (7.86)
Total Impact Fee Per ERU	\$ 32,114,629		\$ 9,095,573		\$ 4,414.56



APPENDICES: CERTIFICATION, SERVICE AREA MAP, IMPACT FEE CALCULATIONS

In accordance with Utah Code Annotated, 11-36a-306(2), Zions Public Finance, Inc., makes the following certification:

Zions Public Finance, Inc. certifies that the attached impact fee analysis:

1. includes only the cost of public facilities that are:
 - a. allowed under the Impact Fees Act; and
 - b. actually incurred; or
 - c. projected to be incurred or encumbered within six years after the day on which each impact fee is paid;
2. does not include:
 - a. costs of operation and maintenance of public facilities;
 - b. cost of qualifying public facilities that will raise the level of service for the facilities, through impact fees, above the level of service that is supported by existing residents;
 - c. an expense for overhead, unless the expense is calculated pursuant to a methodology that is consistent with generally accepted cost accounting practices and the methodological standards set forth by the federal Office of Management and Budget for federal grant reimbursement;
3. offset costs with grants or other alternate sources of payment; and
4. complies in each and every relevant respect with the Impact Fees Act.

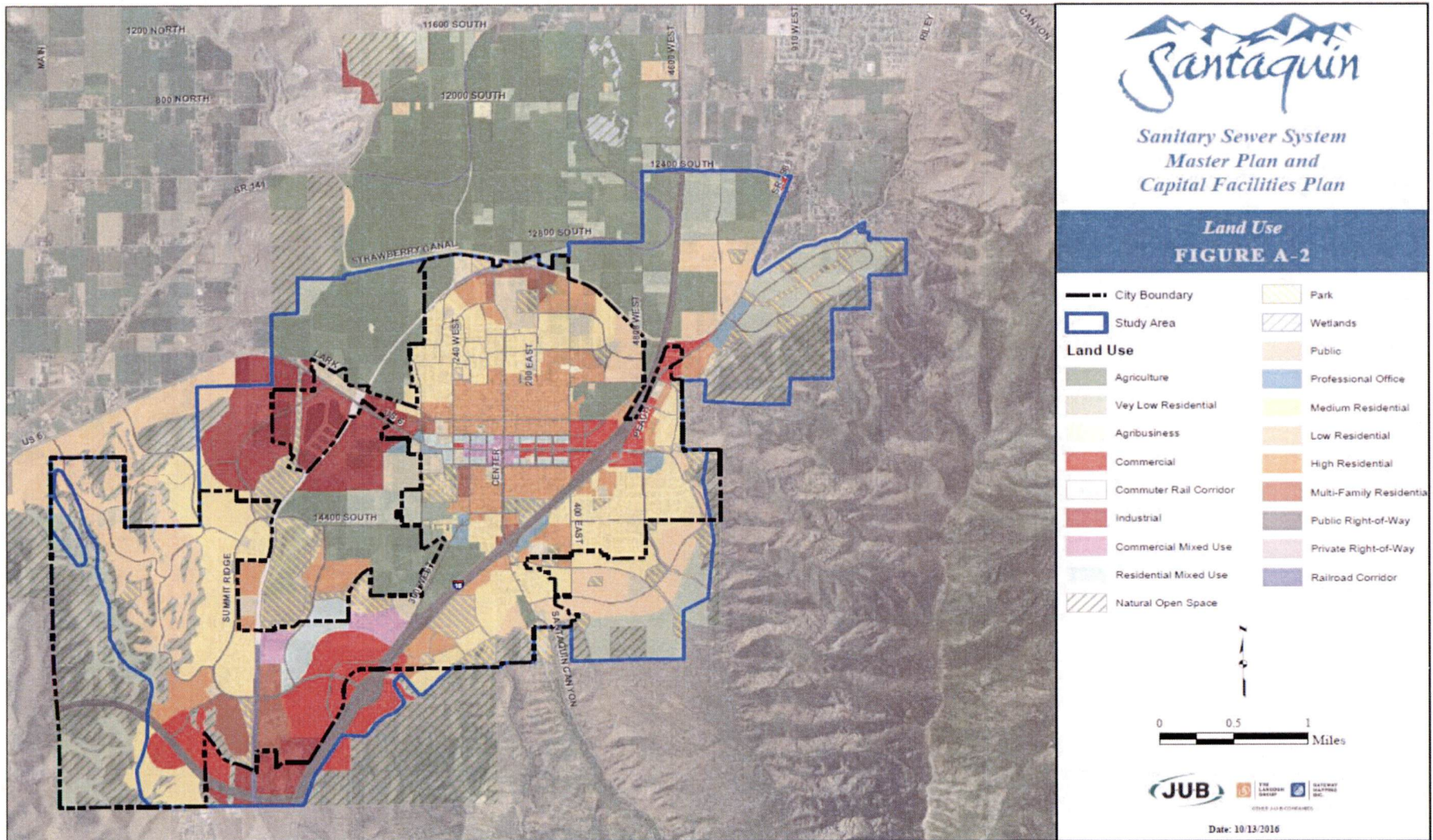
Zions Public Finance, Inc. makes this certification with the following caveats:

1. All of the recommendations for implementations of the Impact Fee Facilities Plan (IFFP) made in the IFFP or in the impact fee analysis are followed in their entirety by City staff and City Council in accordance to the specific policies established for the Service Area.
2. If all or a portion of the IFFP or impact fee analysis are modified or amended, this certification is no longer valid.
3. All information provided to Zions Public Finance, Inc., its contractors or suppliers is assumed to be correct, complete and accurate. This includes information provided by Santaquin City and outside sources. Copies of letters requesting data are included as appendices to the IFFP and the impact fee analysis.

Dated: 12/21/2016

ZIONS PUBLIC FINANCE, INC.

APPENDIX A: MAP OF IMPACT FEE SERVICE AREA (BLUE STUDY AREA BOUNDARY)



APPENDIX B: PEAK DAY DEMAND (ERU) PROJECTIONS FOR SANITARY SEWER

CURRENT AND FUTURE ERUs FOR THE SANITARY SEWER SERVICE AREA

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TABLE B.1: CURRENT AND FUTURE SANITARY SEWER ERUs

	Year	Population	ERUs	Ave Day Demand (GPD)	GPD per ERU
1					
2	2014	10,689	2,835	534,681	189
3	2015	11,352	3,013	570,281	200
4	2016	12,044	3,199	607,481	200
5	2017	12,791	3,400	647,681	200
6	2018	13,584	3,613	690,281	200
7	2019	14,426	3,840	735,681	200
8	2020	15,321	4,081	783,881	200
9	2021	15,889	4,235	814,681	200
10	2022	16,479	4,394	846,481	200
11	2023	17,090	4,559	879,481	200
12	2024	17,724	4,730	913,681	200
13	2025	18,382	4,977	963,081	200
14	2026	19,064	5,238	1,015,281	200
15	2030	22,054	6,422	1,252,081	200
16	2040	29,783	9,784	1,924,481	200
17	2050	36,389	12,961	2,559,881	200
18	Buildout	42,817	16,289	3,225,481	200

19 Source: Santaquin City Sewer Impact Fee Facilities Plan, JUB Engineers

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TABLE B.2: SANITARY SEWER ERUs

SEWER ERUs	
1	
2	Current Peak Day Demand (ERU) 3,199
3	Ten Year Demand (ERU) 5,238
4	Buildout Peak Day Demand (ERU) 16,289
5	Undeveloped Demand (ERU) 13,090
6	% Undeveloped 80%
7	ERU Demand Added in Ten Year 2,039
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APPENDIX C: SANITARY SEWER 10 YEAR CAPITAL PROJECTS

TABLE C.1: SANITARY SEWER CAPITAL PROJECTS									
Inflation Rate (20 Year ENR Construction Cost Index History) 3.0%									
Project Name	% to Existing / Project Level	% Impact Fee Qualifying - 10 Year	% Impact Fee Qualifying - Beyond 10 Year	FY Year to be Constructed	2016 Cost	Construction Cost with Inflation	10 Year Impact Fee Qualifying Cost	Impact Fee Qualifying Beyond 10 Years	Non Impact Fee Qualifying
Collection and Lift Station									
Install 8" Sewer Main along Orchard Cove Rd from 770 N to 850 N	0.0%	9.0%	91.0%	2016	\$ 68,800	68,800	\$ 6,192	\$ 62,608	\$ -
Install 8" Sewer Main along 100 E from 730 N to Canal	0.0%	16.0%	84.0%	2017	\$ 325,500	335,265	\$ 53,642	\$ 281,623	\$ -
Install 18" Sewer Main along Strawberry Canal Rd from 400 E to 100 E	0.0%	10.0%	90.0%	2020	\$ 314,300	353,747	\$ 35,375	\$ 318,373	\$ -
Install 10" pipe along 400 E from 530 N to Strawberry Canal Rd and Remove Pipe on 530 North	0.0%	5.0%	95.0%	2022	\$ 344,000	410,754	\$ 20,538	\$ 390,216	\$ -
Install 8" Sewer Main North of 400 North and East of 400 East for Development	0.0%	3.0%	97.0%	2023	\$ 507,100	623,669	\$ 18,710	\$ 604,959	\$ -
Install 8" Sewer Main along Strawberry Canal Rd from 4800 W (County) to 400 E	0.0%	3.0%	97.0%	2023	\$ 300,800	369,946	\$ 11,098	\$ 358,848	\$ -
Collection and Lift Station Subtotal					\$ 1,860,500	\$ 2,162,182	\$ 145,555	\$ 2,016,626	\$ -
Water Reclamation Facility									
Install 2nd Screw Press	0.0%	77.0%	23.0%	2018	\$ 578,000	\$ 613,200	\$ 472,164	\$ 141,036	\$ -
Activation of Membrane Tank #4 - Next Train	0.0%	100.0%	0.0%	2018	\$ 1,246,000	1,321,881	\$ 1,321,881	\$ -	\$ -
Remove Baffle Wall in UV Channel and Install Additional Lamps	0.0%	54.0%	46.0%	2018	\$ 288,000	305,539	\$ 164,991	\$ 140,548	\$ -
Install 4th Reclaimed Water Pump	0.0%	100.0%	0.0%	2018	\$ 125,000	132,613	\$ 132,613	\$ -	\$ -
10" Parallel Reclaimed Water Force Main	0.0%	72.0%	28.0%	2022	\$ 485,000	579,115	\$ 416,963	\$ 162,152	\$ -
Center Street Lift Station Upgrades	0.0%	40.0%	60.0%	2022	\$ 239,000	285,378	\$ 114,151	\$ 171,227	\$ -
Activation of Membrane Tank #5	0.0%	15.0%	85.0%	2024	\$ 1,246,000	1,532,423	\$ 229,863	\$ 1,302,559	\$ -
Treatment Subtotal					\$ 4,207,000	\$ 4,770,150	\$ 2,852,627	\$ 1,917,523	\$ -
Storage									
Construct Additional North 106 MG Winter Storage Pond	0.0%	30.0%	70.0%	2022	\$ 3,180,000	\$ 3,797,086	\$ 1,139,126	\$ 2,657,960	\$ -
Storage Subtotal					\$ 3,180,000	\$ 3,797,086	\$ 1,139,126	\$ 2,657,960	\$ -
Sewer Building									
		30%							
Lift Station Subtotal					\$ -	\$ -	\$ -	\$ -	\$ -
Replacement Capital Projects									
Maintenance Subtotal					\$ -	\$ -	\$ -	\$ -	\$ -
Ten Year Total					\$ 9,247,500	\$ 10,729,418	\$ 4,137,308	\$ 6,592,110	\$ -

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Table C.2: Total Capital Projects by Year

	1.000	1.030	1.061	1.093	1.126	1.159	1.194	1.230	1.230	1.230
Project	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Collection and Lift Station										
Install 8" Sewer Main along Orchard Cove Rd from 770 N to 850 N	\$ 68,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Install 18" Sewer Main along 100 E from 730 N to Canal	-	335,265	-	-	-	-	-	-	-	-
Install 18" Sewer Main along Strawberry Canal Rd from 400 E to 100 E	-	-	-	-	353,747	-	-	-	-	-
Install 10" pipe along 400 E from 530 N to Strawberry Canal Rd and Remove Pipe on 530 North	-	-	-	-	-	-	410,754	-	-	-
Install 8" Sewer Main North of 400 North and East of 400 East for Development	-	-	-	-	-	-	-	623,669	-	-
Install 8" Sewer Main along Strawberry Canal Rd from 4800 W (County) to 400 E	-	-	-	-	-	-	-	369,946	-	-
Collection and Lift Station Subtotal	\$ 68,800	\$ 335,265	\$ -	\$ -	\$ 353,747	\$ -	\$ 410,754	\$ 993,615	\$ -	\$ -
Water Reclamation Facility										
Install 2nd Screw Press	\$ -	\$ -	\$ 613,200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Activation of Membrane Tank #4 - Next Train	-	-	1,321,881	-	-	-	-	-	-	-
Remove Baffle Wall in UV Channel and Install Additional Lamps	-	-	305,539	-	-	-	-	-	-	-
Install 4th Reclaimed Water Pump	-	-	132,613	-	-	-	-	-	-	-
10" Parallel Reclaimed Water Force Main	-	-	-	-	-	-	579,115	-	-	-
Center Street Lift Station Upgrades	-	-	-	-	-	-	285,378	-	-	-
Activation of Membrane Tank #5	-	-	-	-	-	-	-	-	1,532,423	-
Treatment Subtotal	\$ -	\$ -	\$ 2,373,233	\$ -	\$ -	\$ -	\$ 864,494	\$ -	\$ 1,532,423	\$ -
Storage										
Construct Additional North 106 MG Winter Storage Pond	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	3,797,086	\$ -	\$ -	\$ -
Storage Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,797,086	\$ -	\$ -	\$ -
Sewer Building										
Lift Station Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capital Projects	\$ 68,800	\$ 335,265	\$ 2,373,233	\$ -	\$ 353,747	\$ -	\$ 5,072,334	\$ 993,615	\$ 1,532,423	\$ -
Collection and Lift Station										
Existing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Impact Fee Qualifying - 10 Year	6,192	53,642	-	-	35,375	-	20,538	29,808	-	-
Impact Fee Qualifying - Beyond 10	62,608	281,623	-	-	318,373	-	390,216	963,807	-	-
Collection and Lift Station Subtotal	\$ 68,800	\$ 335,265	\$ -	\$ -	\$ 353,747	\$ -	\$ 410,754	\$ 993,615	\$ -	\$ -
Water Reclamation Facility										
Existing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Impact Fee Qualifying - 10 Year	-	-	2,091,649	-	-	-	531,114	-	229,863	-
Impact Fee Qualifying - Beyond 10	-	-	281,584	-	-	-	333,379	-	1,302,559	-
Treatment Subtotal	\$ -	\$ -	\$ 2,373,233	\$ -	\$ -	\$ -	\$ 864,494	\$ -	\$ 1,532,423	\$ -
Storage										
Existing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Impact Fee Qualifying - 10 Year	-	-	-	-	-	-	1,139,126	-	-	-
Impact Fee Qualifying - Beyond 10	-	-	-	-	-	-	2,657,960	-	-	-
Storage Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,797,086	\$ -	\$ -	\$ -
Sewer Building										
Existing	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Impact Fee Qualifying - 10 Year	-	-	-	-	-	-	-	-	-	-
Impact Fee Qualifying - Beyond 10	-	-	-	-	-	-	-	-	-	-
Sewer Building Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Capital Projects	\$ 68,800	\$ 335,265	\$ 2,373,233	\$ -	\$ 353,747	\$ -	\$ 5,072,334	\$ 993,615	\$ 1,532,423	\$ -
% to Existing / Project Level										
% to Existing / Project Level	-	-	-	-	-	-	-	-	-	-
% Impact Fee Qualifying - 10 Year	6,192	53,642	2,091,649	-	35,375	-	1,690,778	29,808	229,863	-
% Impact Fee Qualifying - Beyond 10 Year	62,608	281,623	281,584	-	318,373	-	3,381,556	963,807	1,302,559	-
Total Capital Projects	\$ 68,800	\$ 335,265	\$ 2,373,233	\$ -	\$ 353,747	\$ -	\$ 5,072,334	\$ 993,615	\$ 1,532,423	\$ -

A B C D E F G H I J

APPENDIX D: CALCULATION OF THE IMPACT FEE PER ERU

1 TABLE D.1: Original System Project Funding

Santaquin City Wastewater Project Funding Summary					
Original Project Funding Source	Project	Amount	System Grant	Project Cost	City
Interim Interest Income - Connection	Original	\$ 9,100	\$ -	\$ 9,100	
Interim Financing - Connection	Original	435,963	-	435,963	
WPC Loan	Original	2,307,000	-	-	2,307,000
EPA Grant	Original	1,735,741	1,735,741	-	-
FmHA Grant	Original	823,600	823,600	-	-
FmHA Loan	Original	842,200	-	-	842,200
Santaquin City	Original	280,000	-	-	280,000
Lavon Ross - Connection	Original	26,543	-	26,543	-
J.A. Smith - Connection	Original	15,035	-	15,035	-
Santaquin City Additional Hookup Revenue - Connection	Original	24,000	-	24,000	-
Original Project Total		\$ 6,499,182	\$ 2,559,341	\$ 510,641	\$ 3,429,200
% of Total			39.379%	7.857%	52.764%
2011 WRF Funding Source	Project	Amount	Grant	Grant	City
Plant	WRF - Treatment	\$ 8,786,044	WRF - Treatment	\$ 8,786,044	\$ -
Collection	WRF - Piping	909,956	WRF - Piping	909,956	-
2011 WRF Total		\$ 9,696,000	\$ -	\$ 9,696,000	\$ -
% of Total			0%	100%	0%
System Total		\$ 16,195,182	\$ 2,559,341	\$ 10,206,641	\$ 3,429,200

26 TABLE D.2: Depreciation Statement

Depreciation Statement	Total	Original Coll/ LS/ Small Pond	New Collection	Water Reclamation Facility	2003 Large Pond #2 126MG	Sewer Building	Other	Total Cost
Land	\$ 110,000	\$ 50,000	\$ 50,000	\$ 5,000	\$ -	\$ 5,000		\$ 110,000
Buildings (Pond Pump Station)	64,097				64,097			64,097
Sewer Collection	6,843,385							-
- 1995 Additions to Sewer System (Original)	(261,879)	261,879						261,879
- 1995 Sewer Collection (Original)	(6,440,029)	6,440,029						6,440,029
- 2003 Sewer Pond	(1,501)				1,501			1,501
Net Sewer Collection	139,975		139,975					139,975
Machinery & Equipment	33,626						33,626	33,626
Automobiles and Trucks	198,778						198,778	198,778
Sewer Collection 10 Yrs	545,204		545,204					545,204
Sewer Collection 25 Yrs	20,856,499							-
- 2003 Sewer Pond	(1,055,372)				1,055,372			1,055,372
- 2004 Sewer Pond	(126,712)				126,712			126,712
-Water Reclamation Facility	(18,380,688)			16,655,688				16,655,688
- WRF Piping	(1,725,000)		1,725,000					1,725,000
Net Sewer Collection 25 Yrs	244,180		244,180					244,180
Summit Ridge Collection	1,049,547		1,049,547					1,049,547
Machinery & Equipment	7,400						7,400	7,400
ADDED Public Works Building	632,500					632,500		632,500
Total Costs by Component	\$ 29,291,488	\$ 6,751,908	\$ 3,753,906	\$ 16,660,688	\$ 1,247,683	\$ 637,500	\$ 239,804	\$ 29,291,488
Grants	\$ (3,069,982)	\$ (909,956)	\$ (909,956)	\$ (8,786,044)				\$ (12,765,982)
Qualifying Cost	\$ 3,681,927	\$ 2,843,950	\$ 7,874,643	\$ 1,247,683	\$ 637,500	\$ 239,804	\$ 16,525,506	\$ 29,291,488

Depreciation Statement Sheet 1	\$ 21,409,102
Depreciation Statement Sheet 2	7,249,886
Total Depreciation Statement	\$ 28,658,988
Plus Public Works Building	632,500
Total Existing Assets	\$ 29,291,488

59 TABLE D.3: Collection System Improvements

Depreciation Statement Total		
System (54% of cost)	\$ 5,716,216	\$ 1,736,278.47
Project (46% of cost)	4,789,598	
	\$ 10,505,814	

A B C D E F G H I

APPENDIX E: HISTORIC ASSET DATA

A B C D E F G

Table E.1: Historic Asset Data Summary

System	Collection/ Center Street Lift	Water Reclamation Facility	2003 Large Pond #2 126MG	Sewer Building	Other	Total Cost
Land	100,000	5,000	-	5,000	-	110,000
Buildings	-	-	64,097	-	-	64,097
Sewer Collection System Improvements (54% Collection)	5,716,216	16,655,688	1,183,585	632,500	-	24,187,989
Sewer Collection Project Improvements (46% Collection)	-	-	-	-	4,789,598	4,789,598
Machinery & Equipment	-	-	-	-	41,026	41,026
Automobiles and Trucks	-	-	-	-	198,778	198,778
EPA Grant	-	-	-	-	-	-
FmHA Grant	-	-	-	-	-	-
Misc. Grants and Payments	(510,641)	(8,786,044)	-	-	-	(9,296,685)
Project Contributions (Ross, Smith, Hookup Rev)	-	-	-	-	(65,578)	(65,578)
Totals	\$ 5,305,575	\$ 7,874,643	\$ 1,247,683	\$ 637,500	\$ 4,963,824	\$ 20,029,225

29,291,488

Table E.2: Debt Issue by Component

24% 69% 5% 3% 0%

	Collection/ Center Street Lift	Water Reclamation Facility	2003 Large Pond #2 126MG	Sewer Building	Other	Total Cost
Series 1993A Sewer DWQ Loan (No Interest)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Series 1993B Sewer DWQ Loan (No Interest)	-	-	-	-	-	-
Series 1993C Sewer USDA Loan	393,329	-	-	-	-	393,329
Series 1993D Sewer USDA Loan	257,123	-	-	-	-	257,123
Series 2012 Sewer Revenue Refund (Refunded 1993 C&D)	100,993	-	-	-	-	100,993
Series 2011 A-1 DWQ	-	570,635	-	-	-	570,635
Series 2011 A-2 USDA Loan	-	2,143,902	-	-	-	2,143,902
Series 2011B Sewer Revenue Bond DWQ	-	172,290	-	-	-	172,290
Series 2015 Lease Revenue Bonds (25% to Sewer)	-	-	-	309,226	927,679	1,236,905
Totals	\$ 751,445	\$ 2,886,827	\$ -	\$ 309,226	\$ 927,679	\$ 4,875,178

A B C D E F G

APPENDIX F: OUTSTANDING WATER DEBT

	A	B	C	D	G	H	I	J	K	L
	Series 1993A Sewer DWQ Loan (No Interest)			Series 1993B Sewer DWQ Loan (No Interest)			Series 1993C Sewer USDA Loan			
14	Table F.1: Existing Annual Debt Payments									
15		Principal	Interest	Total D/S	Principal	Interest	Total D/S	Principal	Interest	Total D/S
16	1993	\$ 109,000	\$ -	\$ 109,000	\$ -	\$ -	\$ -			
17	1994	33,000	-	33,000				9,883	20,609	30,492
18	1995	33,000	-	33,000	33,000	-	33,000	9,883	20,609	30,492
19	1996	33,000	-	33,000	33,000	-	33,000	9,883	20,609	30,492
20	1997	33,000	-	33,000	36,000	-	36,000	9,883	20,609	30,492
21	1998	33,000	-	33,000	37,000	-	37,000	9,883	20,609	30,492
22	1999	33,000	-	33,000	46,000	-	46,000	9,883	20,609	30,492
23	2000	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
24	2001	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
25	2002	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
26	2003	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
27	2004	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
28	2005	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
29	2006	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
30	2007	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
31	2008	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
32	2009	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
33	2010	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
34	2011	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
35	2012	33,000	-	33,000	66,000	-	66,000	9,883	20,609	30,492
36	2013	33,000	-	33,000	66,000	-	66,000	781	1,760	2,541
37	2014	33,000	-	33,000	66,000	-	66,000			
38	2015	33,000	-	33,000	66,000	-	66,000			
39	2016	33,000	-	33,000	66,000	-	66,000			
40	2017	33,000	-	33,000						
41	2018	33,000	-	33,000						
42	2019	33,000	-	33,000						
43	2020	33,000	-	33,000						
44	2021									
45	2022									
46	2023									
47	2024									
48	2025									
49	2026									
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67	2044									
68	2045									
69	2046									
70	2047									
71	2048									
72	2049									
73	2050									
74	2051									
75	2052									
76	2053									
77	Total	\$ 1,000,000	\$ -	\$ 1,000,000	\$ 1,307,000	\$ -	\$ 1,307,000	\$ 188,560	\$ 393,329	\$ 581,889

A B C D G H I J K L

J K L J K L M N O P
 Series 2011 A-2 USDA Loan Series 2011B Sewer Revenue Bond DWQ Series 2015 Lease Revenue Bonds (25% to Sewer)

Principal	Interest	Total D/S	Principal	Interest	Total D/S	Principal	Interest	Total D/S	
		\$ -			\$ -				1993
		-			-				1994
		-			-				1995
		-			-				1996
		-			-				1997
		-			-				1998
		-			-				1999
		-			-				2000
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		-			-				2002
		-			-				2003
		-			-				2004
		-			-				2005
		-			-				2006
		-			-				2007
		-			-				2008
		-			-				2009
		-			-				2010
		-			-				2011
		-			-				2012
	87,360	87,360		7,900	7,900				2013
13,800	116,428	130,228		9,000	9,000				2014
42,236	86,368	128,604		9,000	9,000				2015
43,520	85,084	128,604		9,000	9,000		52,125	52,125	2016
44,844	83,760	128,604		9,000	9,000	82,000	102,540	184,540	2017
46,208	82,396	128,604		9,000	9,000	85,000	99,058	184,058	2018
47,613	80,991	128,604		9,000	9,000	89,000	95,430	184,430	2019
49,062	79,542	128,604		9,000	9,000	93,000	91,636	184,636	2020
50,554	78,050	128,604		9,000	9,000	97,000	87,674	184,674	2021
52,091	76,513	128,604		9,000	9,000	101,000	83,546	184,546	2022
53,676	74,928	128,604		9,000	9,000	105,000	79,251	184,251	2023
55,308	73,296	128,604		9,000	9,000	109,000	74,789	183,789	2024
56,991	71,613	128,604		9,000	9,000	114,000	70,139	184,139	2025
58,724	69,880	128,604		9,000	9,000	119,000	65,281	184,281	2026
60,510	68,094	128,604		9,000	9,000	124,000	60,215	184,215	2027
62,351	66,253	128,604		9,000	9,000	129,000	54,940	183,940	2028
64,247	64,357	128,604		9,000	9,000	135,000	49,435	184,435	2029
66,201	62,403	128,604	142,000	9,000	151,000	141,000	43,681	184,681	2030
68,215	60,389	128,604	377,000	7,580	384,580	146,000	37,697	183,697	2031
70,290	58,314	128,604	381,000	3,810	384,810	153,000	31,463	184,463	2032
72,428	56,176	128,604				159,000	24,957	183,957	2033
74,631	53,973	128,604				166,000	18,181	184,181	2034
76,901	51,703	128,604				173,000	11,113	184,113	2035
79,240	49,364	128,604				180,000	3,753	183,753	2036
81,650	46,954	128,604							2037
84,133	44,471	128,604							2038
86,692	41,912	128,604							2039
89,329	39,275	128,604							2040
92,046	36,558	128,604							2041
94,846	33,758	128,604							2042
97,731	30,873	128,604							2043
100,703	27,901	128,604							2044
103,766	24,838	128,604							2045
106,922	21,682	128,604							2046
110,174	18,430	128,604							2047
113,526	15,078	128,604							2048
116,979	11,626	128,604							2049
120,537	8,067	128,604							2050
124,203	4,401	128,604							2051
79,124	842	79,966							2052
									2053
\$ 2,912,000	\$ 2,143,902	\$ 5,055,902	\$ 900,000	\$ 172,290	\$ 1,072,290	\$ 2,500,000	\$ 1,236,905	\$ 3,736,905	

J K L J K L M N O P

APPENDIX H: OUTSTANDING AND FUTURE WATER DEBT

A B C D E F G H

1 **Table H.1: Outstanding Bond Summary**

Bond Issue	Total Par Amount	Interest	Total Debt Service
Series 1993A Sewer DWQ Loan (No Interest)	\$ 1,000,000	\$ -	\$ 1,000,000
Series 1993B Sewer DWQ Loan (No Interest)	1,307,000	-	1,307,000
Series 1993C Sewer USDA Loan	188,560	393,329	581,889
Series 1993D Sewer USDA Loan	123,474	257,123	380,597
Series 2012 Sewer Revenue Refund (Refunded 1993 C&D)	670,000	100,993	770,993
Series 2011 A-1 DWQ	6,034,000	570,635	6,604,635
Series 2011 A-2 USDA Loan	2,912,000	2,143,902	5,055,902
Series 2011B Sewer Revenue Bond DWQ	900,000	172,290	1,072,290
Series 2015 Lease Revenue Bonds (25% to Sewer)	2,500,000	1,236,905	3,736,905
Totals	\$ 15,635,034	\$ 4,875,178	\$ 20,510,212

14 **Table H.2: Outstanding Bond Allocation - Interest Only**

System	Collection	Treatment	Storage	Sewer Building	Non-Qualifying	% Total
Series 1993A Sewer DWQ Loan (No Interest)	100%	0%	0%	0%	0%	100%
Series 1993B Sewer DWQ Loan (No Interest)	100%	0%	0%	0%	0%	100%
Series 1993C Sewer USDA Loan	100%	0%	0%	0%	0%	100%
Series 1993D Sewer USDA Loan	100%	0%	0%	0%	0%	100%
Series 2012 Sewer Revenue Refund (Refunded 1993 C&D)	100%	0%	0%	0%	0%	100%
Series 2011 A-1 DWQ	0%	100%	0%	0%	0%	100%
Series 2011 A-2 USDA Loan	0%	100%	0%	0%	0%	100%
Series 2011B Sewer Revenue Bond DWQ	0%	100%	0%	0%	0%	100%
Series 2015 Lease Revenue Bonds (25% to Sewer)	0%	0%	0%	25%	75%	100%
Total Outstanding Interest Cost	\$ 751,445	\$ 2,886,827	\$ -	\$ 309,226	\$ 927,679	\$ 4,875,178

27 **Table H.3: Existing Debt Proportion to Ten Year Growth**

Proportion to Ten Year Growth	Collection	Treatment	Storage	Sewer Building
Existing Demand	77.10%	20.00%	58.53%	16.17%
10 Year Demand	11.82%	13.25%	41.47%	15.57%
Demand Beyond 10 Year	11.08%	66.75%	0.00%	68.26%
	100%	100%	100%	100%

34 **Table H.4: Outstanding Bond Allocation 10 Year Growth**

System	Collection 10 Year	Treatment 10 Year	Storage 10 Year	Sewer Building 10 Year	Beyond Ten Years	Existing/ Non-Qualifying	% Total
Series 1993A Sewer DWQ Loan (No Interest)	11.82%	0.00%	0.00%	0.00%	11.08%	77.10%	100%
Series 1993B Sewer DWQ Loan (No Interest)	11.82%	0.00%	0.00%	0.00%	11.08%	77.10%	100%
Series 1993C Sewer USDA Loan	11.82%	0.00%	0.00%	0.00%	11.08%	77.10%	100%
Series 1993D Sewer USDA Loan	11.82%	0.00%	0.00%	0.00%	11.08%	77.10%	100%
Series 2012 Sewer Revenue Refund (Refunded 1993 C&D)	11.82%	0.00%	0.00%	0.00%	11.08%	77.10%	100%
Series 2011 A-1 DWQ	0.00%	13.25%	0.00%	0.00%	66.75%	20.00%	100%
Series 2011 A-2 USDA Loan	0.00%	13.25%	0.00%	0.00%	66.75%	20.00%	100%
Series 2011B Sewer Revenue Bond DWQ	0.00%	13.25%	0.00%	0.00%	66.75%	20.00%	100%
Series 2015 Lease Revenue Bonds (25% to Sewer)	0.00%	0.00%	0.00%	3.89%	17.06%	79.04%	100%
Total Outstanding Interest Cost	\$ 88,852	\$ 382,562	\$ -	\$ 48,159	\$ 2,221,194	\$ 2,134,410	\$ 4,875,178

A B C D E F G H

APPENDIX I: DEBT SERVICE CREDIT

A B C D E
CALCULATION OF PROJECT CREDITS

1	Year	ERUs	Public Works Sewer Portion	Total Debt Service to Existing	Credit per ERU	1
2	2015	3,013		\$ -	\$ -	2
3	2016	3,199	3,258	3,258	1.02	3
4	2017	3,400	11,534	11,534	3.39	4
5	2018	3,613	11,504	11,504	3.18	5
6	2019	3,840	11,527	11,527	3.00	6
7	2020	4,081	11,540	11,540	2.83	7
8	2021	4,235	11,542	11,542	2.73	8
9	2022	4,394	11,534	11,534	2.62	9
10	2023	4,559	11,516	11,516	2.53	10
11	2024	4,730	11,487	11,487	2.43	11
12	2025	4,977	11,509	11,509	2.31	12
13	2026	5,238	11,518	11,518	2.20	13
14	2027	5,512	11,513	11,513	2.09	14
15	2028	5,800	11,496	11,496	1.98	15
16	2029	6,103	11,527	11,527	1.89	16
17	2030	6,422	11,543	11,543	1.80	17
18	2031	6,699	11,481	11,481	1.71	18
19	2032	6,987	11,529	11,529	1.65	19
20	2033	7,287	11,497	11,497	1.58	20
21	2034	7,644	11,511	11,511	1.51	21
22	2035	8,000	11,507	11,507	1.44	22
23	2036	8,357	11,485	11,485	1.37	23
24	2037	8,714	-	-	-	24
25	2038	9,071	-	-	-	25
26	2039	9,427	-	-	-	26
27	2040	9,784	-	-	-	27
28			\$ 233,557	\$ 233,557	\$ 45.26	28
29						29

A B C D E

APPENDIX J: CALCULATION OF THE IMPACT FEE PER ERU

TABLE J.1: IMPACT FEE CALCULATION

	A	B	C	D	E	F
	Component	Total Cost to Component	% That will Serve Ten Year Demand	Dollar Amount that will Serve Ten Year Demand	Ten Year Demand (ERU)	Cost per ERU
2	Collection and Lift Station					
3	Future 10 Year Capital Projects	\$ 2,162,182	6.73%	\$ 145,555	2,039	\$ 71
4	Future Collection Related Debt to be Issued - INTEREST ONLY	855,549	6.73%	57,594	2,039	28
5	Existing Collection Projects + Land	5,716,216	12.37%	\$829,420	2,039	407
6	Existing Collection Related Debt - INTEREST ONLY	751,445	12.37%	88,852	2,039	44
7	Minus Collection Grants	(3,979,938)	12.37%	(492,154)	2,039	(241)
8	Collection Subtotal	\$ 5,505,453		\$ 629,268		\$ 308.62
9						
10	Water Reclamation Facility					
11	Future 10 Year Capital Projects	\$ 4,770,150	59.80%	\$ 2,852,627	2,039	\$ 1,399
12	Future Treatment Related Debt to be Issued - INTEREST ONLY	2,694,605	59.80%	1,611,418	2,039	790
13	Existing Treatment Projects + Land	16,660,688	13.25%	2,207,874	2,039	1,083
14	Existing Treatment Related Debt - INTEREST ONLY	2,886,827	13.25%	382,562	2,039	188
15	Minus WRF Grants	(8,786,044)	13.25%	(1,164,327)	2,039	(571)
16	Treatment Subtotal	\$ 18,226,226		\$ 5,890,155		\$ 2,888.75
17						
18	Storage					
19	Future 10 Year Capital Projects	\$ 3,797,086	30.00%	\$ 1,139,126	2,039	\$ 559
20	Future Storage Related Debt to be Issued - INTEREST ONLY	2,313,204	30.00%	693,961	2,039	340
21	Existing Storage Projects + Land	1,247,683	41.47%	517,369	2,039	254
22	Existing Storage Related Debt - OUTSTANDING INTEREST	-	0.00%	-	2,039	-
23	Minus Grants					
24	Storage Subtotal	\$ 7,357,973		\$ 2,350,456		\$ 1,152.75
25						
26	Sewer Building					
27	Future 10 Year Capital Projects	\$ -	0.00%	\$ -	2,039	\$ -
28	Future Sewer Building Related Debt to be Issued - INTEREST ONLY	-	0.00%	-	2,039	-
29	Existing Sewer Building Projects + Land	637,500	15.57%	99,284	2,039	49
30	Existing Lift Sewer Building Related Debt - OUTSTANDING INTEREST	309,226	15.57%	48,159	2,039	24
31	Minus Grants	-	0.00%	-	-	-
32	Transmission Subtotal	\$ 946,726		\$ 147,443		\$ 72.31
33						
34	Professional Services/ Credits					
35	Unspent Impact Fee Funds	-	0.00%	\$ -	2,039	\$ -
36	Professional Services - Master Plan	52,000	100%	52,000	2,039	25
37	Professional Services - Engineering	20,000	100%	20,000	2,039	10
38	Professional Services - IFA	8,250	100%	8,250	2,039	4
39	Sewer Building Rate Credits					(45)
40	Professional Services/Credits Subtotal	\$ 80,250		\$ 80,250		\$ (6.88)
41						
42	Total Impact Fee Per ERU	\$ 32,116,629		\$ 9,097,573		\$ 4,415.54

APPENDIX K: MAXIMUM SANITARY SEWER IMPACT FEES

A B C D

1
2 **Table K.1: Sewer Impact Fee by Property Type** 1
2

Unit Type	ERU Equivalent	Price per ERU	Proposed Fee
Single Family Residential	1.00	\$ 4,416	\$ 4,416
Multi-Family/ Non-Residential (16 Fixture Units)*	1	4,416	4,416

3
4
5
6
7 * Fixture units are based upon the 2015 IRC 7
8
9

10 **TABLE K.2: NON-STANDARD IMPACT FEE CALCULATION** 10

Non-Standard Users Impact Fee Formula			
Step 1: Identify Estimated Average Day Gallons per Day Divided by 200 for an ERU Count			
Step 2: Multiply ERUs Calculated in Step 1 by \$4,415 per ERUs			

11
12
13
14
A B F G 14