2035 Wastewater Master Plan

Prepared for

City of Stockton

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CHAPTER 1. INTRODUCTION

The City of Stockton has prepared an updated general plan that will provide the framework to guide the city's future growth. To accommodate projected population growth, the proposed general plan expands the Urban Services Boundary (USB) and significantly increases the area proposed for future development. Existing wastewater collection system pipelines (sewers) and pump stations do not extend into the planned development area, nor do they have sufficient capacity to accommodate the wastewater flows from these new service areas. The City of Stockton Regional Wastewater Control Facility (RWCF), which receives the wastewater conveyed by the collection system, will also need to be expanded to accommodate the increasing flows. In addition, the RWCF is expected to require upgrades in response to more stringent regulatory requirements.

This introductory section of the Master Plan includes the following elements:

- Purpose of the Master Plan Update
- Objectives of the Master Plan Update
- Authorization
- Abbreviations
- Report Organization

PURPOSE

The purpose of the wastewater master plan study was to develop a plan describing the major elements of the wastewater collection system and treatment facilities needed to serve the USB developed in the 2035 General Plan. This Master Plan will guide City Municipal Utilities Department (MUD) in planning and design review of proposed wastewater facilities associated with specific proposed development projects. It provides a long-term plan that identifies the ultimate service area for the major collection system elements and a basis for predicting the flow and therefore the required size for the needed improvements. The preliminary cost estimates will also assist the City in assessing the overall costs of infrastructure for growth areas.

OBJECTIVES

The specific objectives of this study were as follows:

- Provide a description of the major wastewater collection system service areas comprising areas of planned growth outside the USB of the previous General Plan.
- Define the major wastewater collection system facilities needed to serve each major service area.
- Identify how existing wastewater facilities can be used to serve growth areas through construction of larger replacement pipelines (upsizing).
- Assess the potential impact of regulatory requirements on treatment plant upgrade needs.

- Describe the major elements of future wastewater treatment facilities needed to serve the projected population.
- Estimate the costs for the major wastewater facilities needed to serve the USB.

AUTHORIZATION

In July 2006, the City authorized WYA to provide engineering services related to the 2035 Wastewater Master Plan.

ABBREVIATIONS

The major abbreviations are used in this document are noted below.

ADDWF	Average Day Dry Weather Flow
ADMMF	Average Day Maximum Month Flow
CIP	Capital Improvement Program
CISSO	Capacity Induced Sanitary Sewer Overflow
City	City of Stockton
COSMA	City of Stockton Metropolitan Area
COS MUD	City of Stockton's Municipal Utilities Department
DU	Dwelling Unit
DUE	Dwelling Unit Equivalent
DWSC	Deep Water Ship Channel
DWSP	Delta Water Supply Project
ENR	Engineering News Record
fps	Feet Per Second
ft	Feet
gpd	Gallons Per Day
gpm	Gallons Per Minute
GIS	Geographical Information System
HGL	Hydraulic Grade Line (Open to Air, Water Surface Elevation)
hp	Horse Power
I&I	Inflow and Infiltration
lf	Lineal Feet
LS	Lump Sum
MCL	Maximum Contaminant Level
MG	Million Gallons
MMWWF	Maximum Month Wet Weather Flow
mg	Milligrams
mgd	Million Gallons per Day
RWCF	Stockton Regional Wastewater Control Facility
RWQCB	Regional Water Quality Control Board
SJR	San Joaquin River
WYA	West Yost Associates

REPORT ORGANIZATION

Following this introductory Chapter 1, this Wastewater Master Plan Update includes the following chapters:

- **Chapter 2. Wastewater Flows** – historical, current and projected wastewater flows that correspond to the growth projections for the City of Stockton's 2035 General Plan, including a summary of the land use data generated by the 2035 General Plan project team and the modifications to this land use data for use in this Master Plan.
- **Chapter 3. Existing Wastewater Facilities** – describes the existing collection system.
- **Chapter 4. Design/Performance Criteria** – criteria used to quantify capacity in existing facilities and to develop estimates of future collection system capacity and sizing requirements.
- **Chapter 5. Collection System Hydraulic Modeling –** a summary of modeling efforts and a description of how the results of current and previous modeling were used for this Master Plan update.
- **Chapter 6. Collection System Plan** – description and presentation of the analysis of the existing and future collection system needs and the updated Master Plan for the city-wide collection system.
- **Chapter 7. Wastewater Treatment** – description of current and anticipated regulatory issues related to the RWCF, and a conceptual assessment of future plant improvement requirements related to both capacity and water quality.
- **Chapter 8. Recommended Capital Improvement Program** – presentation of the recommended capital improvements, including planning-level estimates of wastewater infrastructure costs.
- **Appendices** – supporting documentation, model input data, and detailed modeling results.

CHAPTER 2. WASTEWATER FLOWS

The purpose of this chapter is to present estimates of existing wastewater flow and projections of future wastewater flow at the treatment plant and within the collection system. An accurate prediction of future flows associated with the City's 2035 General Plan is needed to plan the appropriate wastewater treatment facilities. Conservative projections of future collection system flows are required to determine pipeline capacity and sizing needs. The data, methodology, and findings of the analysis are presented for the following topics:

- Service Area Population And Land Use
- Treatment Plant Flows
- Collection System Flows

SERVICE AREA POPULATION AND LAND USE

The purpose of this section is to describe the population and land uses within the collection system service area.

Existing and Projected Population

Most urban development within the City is served by the wastewater collection system that delivers flow to the Regional Wastewater Control Facility (RWCF). The remainder is served by onsite septic systems, or lie outside the urban service area. A small treatment plant within County Service Area 15 serves a small industrial area near Highway 99 and Waterloo Road. A flow and load study prepared in 2002 (Parsons/Carollo, June 2002) concluded that in year 2000, approximately 92 percent of the City of Stockton Metropolitan Area (COSMA) was connected to the RWCF. Based on that study, there are about 24,500 people with in the COSMA that are not served by the RWCF. The 2002 study therefore deducted a population of 24,471 from the population for the COSMA to estimate the service area population for each year from 1997 through 2001.

The COSMA population estimated for the flow and load study included a significant service area population (about 64,600) that is outside the City limits. A large portion of this population is assumed to be located within unincorporated areas surrounded by the City. Population estimates for the City apparently do not include this population, so it must be added to obtain the service area population.

The derivation of service area population to be used in this Master Plan is shown in Table 2-1. Values for the years 1997 through 2001 are based on the previous flow and load study. Values for 2002 through 2005 were developed using similar assumptions regarding the un-served City population, and population for unincorporated areas that are served.

Table 2-1. Historical Service Area Population Estimates

Year	City [a]	Unincorporated Areas Served[b]	COSMA Population	City Areas Not Served[c]	Sewer Service Area Population, estimated
1997	233,900	63,483	297,383	24,471	272,912
1998	237,300	64,247	301,547	24,471	277,076
1999	239,600	66,168	305,768	24,471	281,297
2000	243,000	65,453	308,453	24,471	283,982
2001	249,000	63,771	312,771	24,471	288,300
2002	255,100	64,624	319,724	24,471	295,253
2003	262,533	64,624	327,157	24,471	302,686
2004	271,712	64,624	336,336	24,471	311,865
2005	280,249	64,624	344,873	24,471	320,402

(a) 1997-2000: State of California, Department of Finance, Revised Historical City, County and State Population Estimates, 1991-2000, with 1990 and 2000 Census Counts. Sacramento, California, March 2002.

2001-2002: State of California, Department of Finance, E-4 Population Estimates for Cities, Counties and the State, 2001-2004, with 2000 DRU Benchmark. Sacramento, California, May 2004.

2003-2005: City of Stockton Planning Department: Population, Housing, and Income Data for the City of Stockton. Revised 5/9/06.

(b) Difference between reported COSMA population (Parsons/Carollo, 2002) and City of Stockton population. For 2002-2005, the average of the previous five years was used.

(c) Value was used in flow and load study (Parsons/Carollo, 2002) for 1997 through 2001.

Table 2-2 presents the population projections developed by Mintier & Associates for the 2035 General Plan update. The City population is projected to increase from 280,249 in 2005 to 580,717 by the year 2035. This represents a 207 percent increase in population between now and 2035, or approximately a 2.5 percent annual increase.

Table 2-2. Projected City Population[a]

Year	Total Population
2005	280,249
2035	580,717

(a) Data provided by Mintier & Associates

The projected population will be located inside the USB. For the purposes of projecting future RWCF flow, it is assumed that the entire USB population will be served by the collection system and no areas outside the City will be served. Furthermore, the 2035 population projection includes the unincorporated areas currently served. Therefore, the service area population will eventually be equal to the projected City population. Flows predicted based on this assumption will be slightly conservative until developed areas that are not currently served are connected. It is reasonable to assume that most or all development will be served within the 2035 time horizon.

Existing (2005) & Buildout (2035) Land Use

Existing and projected land use maps and data tables were developed to serve as the basis of flow projections used in this master plan. Figures 2-1 and 2-2 present the estimated existing development in year 2005 and planned development for 2035, respectively. The current sewer service area and proposed 2035 USB are shown on both Figures 2-1 and 2-2.

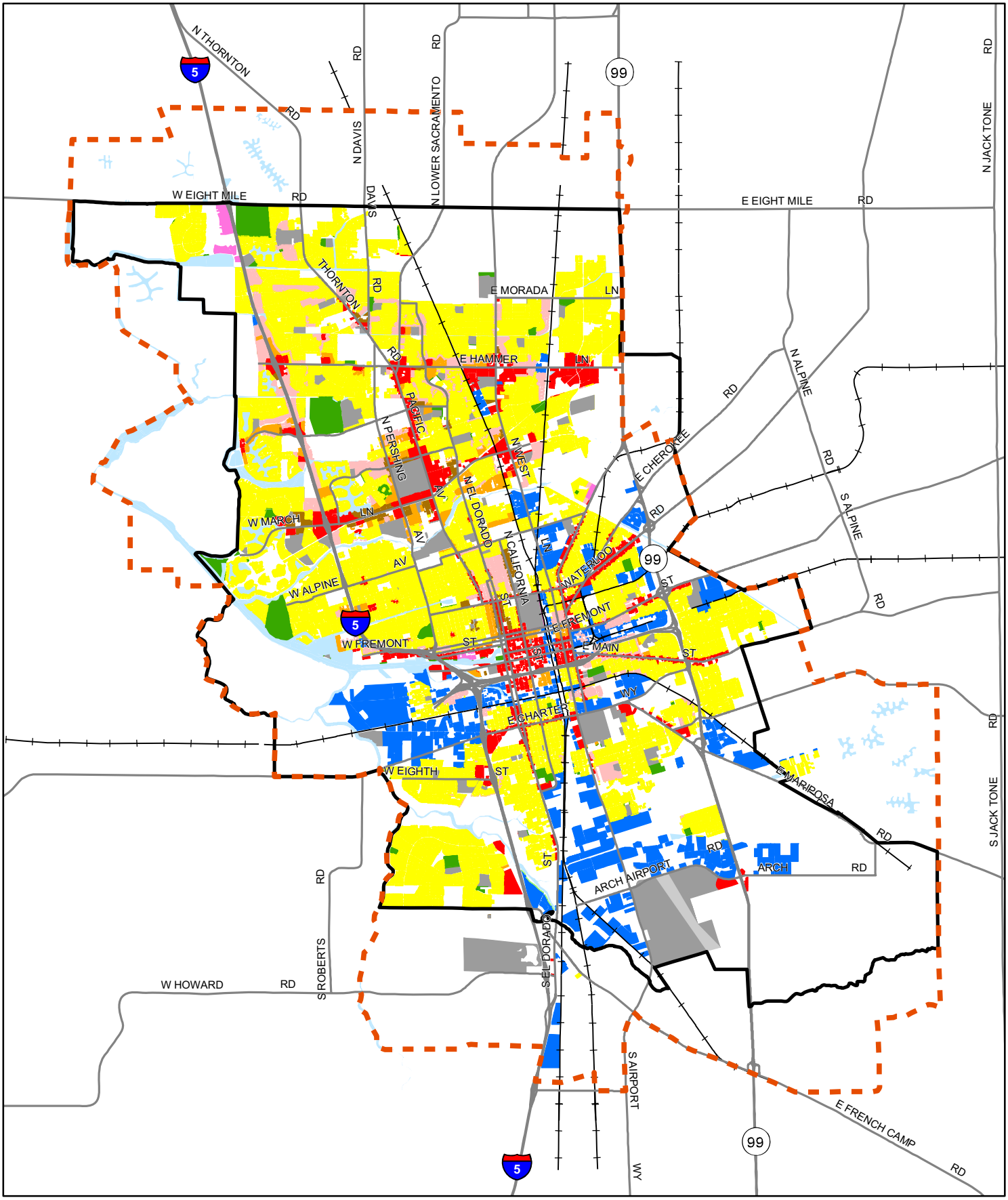
WYA obtained the updated 2035 General Plan land use map from the City's Planning Department. Per City direction, the updated General Plan land use map was then further refined to include more detailed information on specific development projects currently being reviewed by the City's Planning Department. Detailed land use information from each of the developers was obtained and confirmed during a meeting held between a number of major developers and COS MUD staff on September 29, 2006. Figure A-1 in Appendix A illustrates the refinements made to the General Plan Map for this Master Plan.

The refinements provided by the development community were included in this Master Plan so that future wastewater flow projections would reflect the most current data available.

Table 2-3 summarizes land use quantities for the existing service area.

Table 2-3. Existing Service Area Land Uses (2005)

Land Use Category	Acreage
Low Density Residential	18,679
Medium Density Residential	1,739
High Density Residential	925
Residential Estate	—
Administrative Professional	480
Commercial	3,319
Industrial	4,619
Institutional	5,598
Mixed Use	175
Parks & Recreation	1,699
Village	—



LEGEND

- Urban Services Area Boundary
- Existing Sewer Service Area
- exp_rr_extensionswya
- Residential Estate
- Low Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Administrative Professional
- Industrial
- Institutional
- Parks and Recreation
- Open Space/Agriculture
- Mixed Use
- Village
- Waterways
- Runway

N

0 1 2 Miles

FIGURE 2-1

City of Stockton
Wastewater Master Plan
EXISTING LAND USES (2005)

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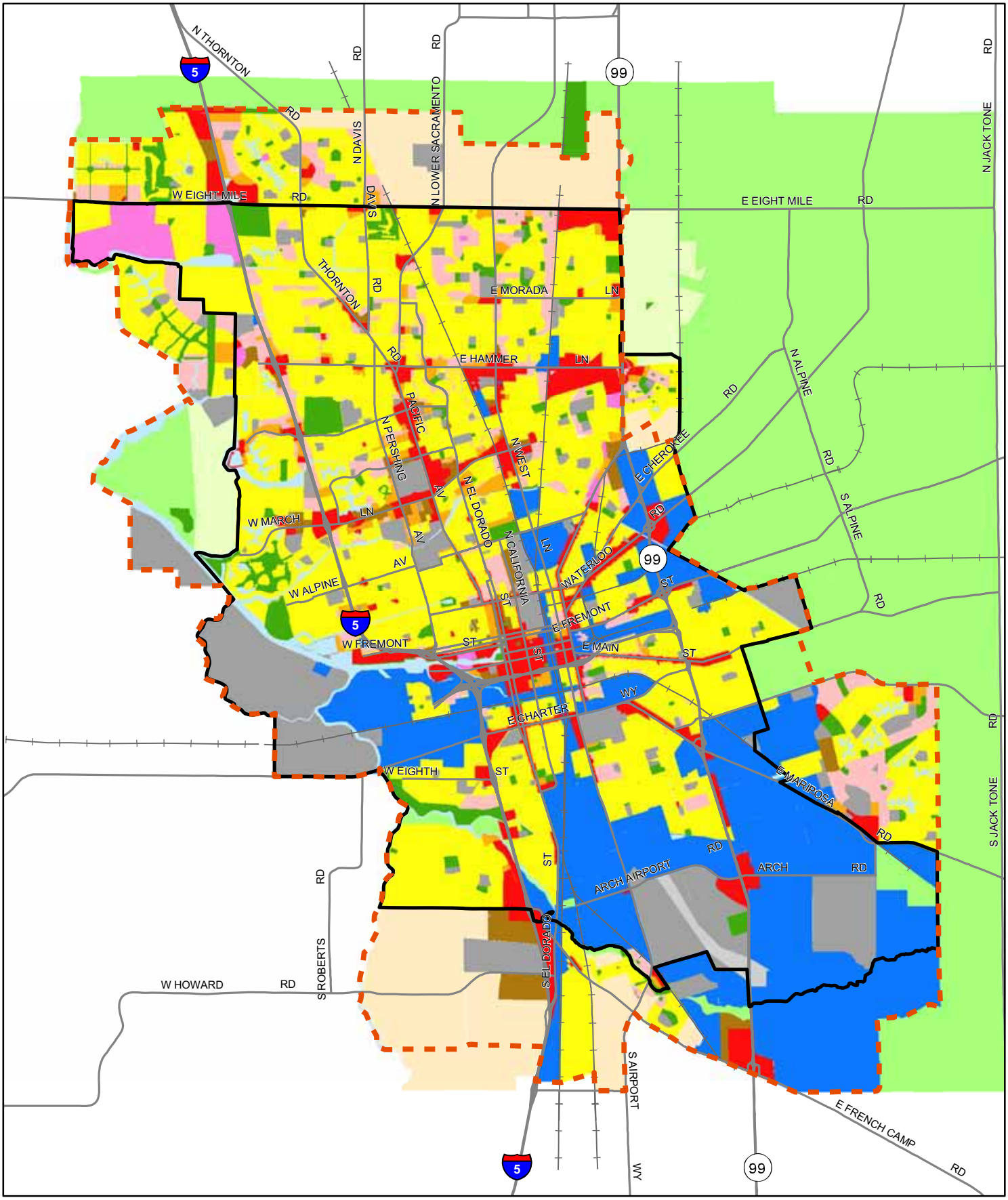

LEGEND

- Existing Sewer Service Area
- exp_rr_extensionswya
- Residential Estate
- Low Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Administrative Professional
- Industrial
- Institutional
- Parks and Recreation
- Open Space/Agriculture
- Mixed Use
- Village
- Waterways
- Runway

N

0 1 2 Miles

FIGURE 2-2

City of Stockton
Wastewater Master Plan
FUTURE LAND USES (2035)

WEST YOST ASSOCIATES Consulting Engineers

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Table 2-4 summarizes land use quantities for the proposed 2035 USB. The planned wastewater collection system will need to serve the entire USB, so the USB represents the future buildout wastewater collection system service area.

Table 2-4. Buildout Service Area Land Uses (2035)

Master Plan Land Use Category	Acreage
Low Density Residential	29,280
Medium Density Residential	4,413
High Density Residential	1,627
Residential Estate	992
Administrative Professional	1,260
Commercial	5,312
Industrial	16,145
Institutional	8,987
Mixed Use	999
Parks & Recreation	2,862
Village	8,199

TREATMENT PLANT FLOWS

Flow to the RWCF is projected using population estimates, a per capita flow rate, predicted flows for special case dischargers, and inflow and infiltration (I&I). The follow key elements of the flow projection are considered:

- Treatment Plant Flow Projection Methodology
- Per Capita Domestic/Commercial Flow Rate
- Special Case Dischargers and Wet Industries
- Infiltration and Inflow and Peaking Factors
- Plant Recycle
- Treatment Plant Flow Projection

Treatment Plant Flow Projection Methodology

Flow to the RWCF includes contributions from domestic sources, commercial businesses, institutions, groundwater infiltration, and inflow from rainfall runoff. A unit flow factor, expressed in terms of gallons per day per capita (gpd/capita), was used to predict the largest component of RWCF flows comprising domestic, most commercial, and institutional sources. The per-capita factor accounts for the portion of flow that is expected to be proportional to population. Certain businesses discharge a significant volume of flow that is not related to population. Flow from these businesses was accounted for separately from the population-based projection. Finally, I&I were incorporated in the RWCF flows indirectly through the use of peaking factors.

A per-capita wastewater flow rate was developed through previous planning work. Four additional years of subsequent data were used to verify and update the per-capita factor used in this Master Plan. Similarly, recent billing records were used to assess current flows associated with large commercial dischargers (special case dischargers). In particular, the major special case dischargers (wet industries) were identified and quantified. Flow from the wet industries was accounted for as a separate component of the flow projection.

Total flow through the RWCF includes plant recycle flow, an additional component related to the treatment processes. Treatment components must be sized to accommodate this relatively minor additional flow.

The details of the treatment plant flow projections are described in the following paragraphs. A per-capita based flow is first estimated using the updated flow factor and the population projections developed for the General Plan update. To this flow are added flows associated with wet industries, and plant recycle flow. The sum of these components provides a predicted average treatment plant flow for the 2035 planning horizon. Peaking factors are then applied to predict wet weather flows that include I&I.

Per Capita Domestic/Commercial Flow Rate

A per capita flow rate was developed for the 2002 flow and load study (Parsons/Carollo, 2002) using flow and population data from 1997 through 2001. For that study, the domestic/commercial average day dry weather flow (ADDWF) was calculated by subtracting the flow associated with five wet industries from the total influent flow. The historical per capita factor was then calculated by dividing the domestic/commercial ADDWF by the service area population. This per capita factor includes flows from residential, commercial, institutional, and dry and light industries. Historical per capita values for each of the nine years evaluated were used to determine a 95th percentile value. This per capita flow rate was then used for projecting the domestic/commercial component of ADDWF at the plant. The four additional years of population and flow data used to update the flow and load study analysis, resulted in no significant change to the 95th percentile value. The historical flow and population values are listed in Table 2-5 with the calculated per capita flow rates. The 95th percentile value for commercial and domestic flow to the RWCF is 112 gpd per capita.

Table 2-5. Domestic/Commercial Per Capita Flow Rate Calculation

Year	RWCF Influent ADDWF, mgd	ADDWF from Wet Industries[(a)], mgd	Domestic/ Commercial ADDWF, mgd	Sewer Service Area Population[(b)]	Per Capita Flow Factor, gpd/capita
1997	28.4	2.89	25.5	272,912	93.5
1998	32.9	1.72	31.2	277,076	112.5
1999	33.1	1.81	31.3	281,297	111.2
2000	31.6	2.00	29.6	283,982	104.2
2001	31.3	1.60	29.7	288,300	103.0
2002	32.8	5.53	27.3	295,253	92.3
2003	32.3	3.60	28.7	302,686	94.8
2004	35.5	3.70	31.8	311,865	102.0
2005	35.0	3.70	31.3	320,402	97.7
Average					101.3
95th Percentile					112.0

(a) Values for 1997 through 2001 are based on the difference between primary influent flow and "Domestic ADDWF" reported in the flow and load study (Parsons/Carollo, 2002), and represent flow from five major industrial dischargers. See discussion below for estimated wet industry flows for 2002 through 2005.

(b) See Table 2-1.

Special Case Dischargers and Wet Industries

Special case dischargers are generally businesses to whom the COS MUD has issued an industrial discharge permit under the City's pretreatment program. Water use and/or wastewater flow is monitored separately from other collection system flows for most of these businesses. For collection system computer hydraulic analysis, many of the special case dischargers are modeled as separate sources of flow (point flows), rather than treated as a general industrial, commercial, or institutional land use. Some special case dischargers produce high wastewater flows relative to other dischargers; these are identified as wet industries.

Special case dischargers are described under the following topics:

- Historical Special Case Discharger Flow Data
- Wet Industries
- Special Case Discharger Flow Planning

Historical Special Case Discharger Flow Data

The City provided monthly flows for 31 special case dischargers based on billing records. Of these, two have been removed from the list – the first, Cal Cedar, discharges less flow than previously and has thus been reclassified, and the second, Newark Sierra Paperboard, because it has gone out of business and no longer discharges industrial flow to the sewers. Therefore, there remain 29 special case dischargers for which the City has provided flow data. The flow data collected by the City for billing purposes covered the period of time between January 2002 and December 2005. Four other industrial discharger permitees have been established since 2005 and added to the special discharger list, but flow records are not yet available. Therefore, the total number of special case dischargers with discharge limits is 33. Table 2.6 lists all of the special case dischargers identified by the City and their current maximum permitted monthly discharge limit.

Average and maximum monthly flows were determined using the monthly billing record data (see Table B-1, Appendix B). Locations of all of the modeled special case dischargers are shown on the 2035 Master Plan plates which accompany this report. The locations of the previously modeled special case dischargers are taken from the collection system hydraulic model developed in 2000 ("Pointflows" database of the City of Stockton Model; Configuration: cf_sy9a1; Scenario: bwin). The City provided locations of additional special case dischargers not previously modeled for incorporation into the current hydraulic model.

A summary of the available historical flows records for the special case dischargers is provided in Table 2-7. The historical flows presented in the table include the 31 dischargers for which the City provided data, plus two additional dischargers (hospitals) that are incorporated in the City's model.

Based on the data in Table 2-7, the overall maximum one-month flow from special case dischargers was 316 MG/month. This flow occurred in the summer of 2002. This maximum month flow was significantly lower the following year (2003), at 214 MG/month. The decrease can largely be attributed to the apparent termination of production processes at H. J. Heinz and Newark Sierra Paperboard. The one-month maximum flow value for summer 2005 was equal to 219 MG/month.

Maximum month special case flows appear to occur in August based upon a review of the data provided by the City. Maximum month winter flows occurred in December or March based upon the data provided by the City.

Table 2-6. Special Case Dischargers

Name[a]	Maximum Discharge Limit, MG/month	Comment
Companies With Discharge Records		
Cal Cedar (Duraflame)	None	Special case discharger records exist but company has subsequently been reclassified and removed from special case discharger list.
Newark Sierra Paperboard	None	Special case discharger records exist, but the company has gone out of business.
Stockton CoGen (Air Products)	14.45	—
American Sunny Foods	0.48	—
BJJ Trucking	0.5	—
California Cedar Products	3.1	—
California Spray Dry Co.	5.1	—
California Tank Lines	1	—
Campbell Soup Supply	65	—
Cintas Corporation	3.6	—
Corn Products Corp.	26	—
Creative Research Management	0.81	—
Diamond of California	8	—
Grimaud Farms	0.8	—
H.J. Heinz	10	—
Hormel	12	—
McCormick & Baxter	1.35	—
Midway Corporate Plaza (Midway, Crosstown commons, Del Monte Foods - USA)	20	—
Northern Calif. Youth Center	0.8	—
Parsons Engineering Science	0.95	—
Paul Funston (formerly Aurora Holding)	1.54	—

Table 2-6. Special Case Dischargers, cont'd…

Name[a]	Maximum Discharge Limit, MG/month	Comment
Port of Stockton - Rough and Ready	[b]	Under contract with City, but no permit requirement.
POSDEF	5.5	—
S. J. County- French Camp	[b]	Under contract with City, but no permit requirement.
Sodexho	6.93	—
Stockton Sanitary Wash Rack	0.64	—
Tankerwash USA	0.43	—
Unifirst Corp.	1.65	—
Unilever Bestfoods	60	—
Zacky Kitchens	5.37	—
Companies Without Discharge Records		
Angelica Textile Services	5.1	New company, discharge permit issued Jun-06
New Stockton Poultry	[b]	New company, discharge permit not yet issued
Niagara Bottling	4.5	New company, discharge permit issued Feb-07
Advanced H2O Inc	[b]	Future Company, discharge permit not yet issued. The City has indicated that the maximum discharge for this industry will be 9.13 MG/month.
Total Permitted Flow for Special Case Dischargers	265.6 (8.7 mgd)	274.7 MG/month (9.0 mgd) with Advanced H20 included

(a) The City uses various names to refer to the same company, or group of companies. The alternate company names appear in parenthesis.

(b) Since flow records are not available, flows from these companies are estimated as the product of their respective acreages and the Industrial land use flow factor for existing land use (1,100 gpd/acre). See Table 2-10 for further information on flow factors.

Table 2-7. Monitored Flow Summary of Special Case Dischargers

Current Industrial Dischargers[a]	Max Month Flow (MG/month)				Average Winter Flow (MG/month)			Average Summer Flow (MG/month)			
	Sum. 02	Sum. 03	Sum. 04	Sum. 05	2002-2003	2003-2004	2004-2005	2002	2003	2004	2005
Wet Industries											
California Spray Dry Co.	3.54	3.94	3.28	3.03	3.31	2.68	3.05	2.92	3.02	2.70	2.70
Corn Products Corp.	19.63	23.90	20.43	21.51	20.36	18.85	20.52	17.98	21.48	19.25	20.03
Diamond of California	5.69	8.38	6.84	8.37	4.75	5.05	5.15	5.13	6.74	6.11	6.94
H.J. Heinz	45.53	3.29	2.54	2.80	2.47	2.08	2.43	22.85	2.84	2.23	2.37
Hormel	11.95	11.22	11.18	11.08	9.06	9.17	8.04	9.41	8.67	8.75	8.73
Newark Sierra Paperboard	18.76	0.77	0.00	0.00	11.29	0.00	0.00	16.43	0.13	0.00	0.00
POSDEF Company	2.58	4.68	2.67	2.93	3.37	3.33	3.64	2.51	3.25	2.19	2.15
Zacky Kitchens	4.22	3.95	3.06	2.21	3.55	2.36	2.00	3.70	3.10	2.61	1.81
Campbell Soup Supply	62.55	45.34	47.78	51.77	0.00	0.02	0.00	25.75	17.54	20.00	19.20
Unilever Bestfoods	54.43	45.62	45.50	48.72	2.31	1.81	0.91	24.74	16.46	19.79	22.89
Sodexho	7.30	6.89	7.09	6.63	6.48	6.41	6.34	6.89	6.50	6.35	6.16
Port of Stockton - Rough and Ready	7.13	6.41	5.25	8.40	8.06	8.40	12.27	4.05	3.89	3.72	5.00
Northern California Youth Center	14.34	7.50	14.55	6.85	8.46	5.96	5.71	11.44	6.93	10.12	6.12
San Joaquin County - French Camp	25.17	11.50	10.14	10.63	12.15	8.57	7.58	15.93	9.97	9.51	9.48
Subtotal, Wet Industries	282.8	183.4	180.3	184.9	95.6	74.7	77.6	169.7	110.5	113.3	113.6
Equivalent Total Flow in mgd	9.22	5.98	5.88	6.03	3.12	2.44	2.53	5.53	3.60	3.70	3.70
Other Special Case Dischargers											
American Sunny Foods	0.27	0.00	0.35	0.09	0.11	0.00	0.06	0.06	0.00	0.11	0.01
Air Products	1.89	1.90	1.50	2.87	1.60	1.64	2.16	1.85	1.74	1.48	2.63
BJJ Trucking	0.33	0.31	0.30	0.40	0.26	0.26	0.27	0.29	0.26	0.29	0.32
Duraflame	0.00	0.00	0.39	0.14	0.00	0.00	0.30	0.00	0.00	0.22	0.08
California Cedar Products	1.20	0.43	0.20	0.00	0.49	0.29	0.00	0.67	0.34	0.06	0.00
California Tank lines	0.80	0.85	0.81	0.63	0.67	0.75	0.53	0.74	0.76	0.72	0.56
Cintas Corporation	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00	0.00	0.00	0.95
Del Monte Foods, U.S.A.	2.65	0.84	0.43	0.00	0.85	0.42	0.00	0.88	0.16	0.08	0.00
Aurora Holding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grimaud Farms	0.47	0.47	0.54	0.71	0.42	0.44	0.56	0.42	0.41	0.47	0.61
Unifirst Corp	0.00	0.95	1.04	1.20	0.00	0.91	1.05	0.00	0.16	0.99	1.10
Stockton Sanitary Wash Rack	0.00	0.00	0.14	0.15	0.00	0.21	0.11	0.00	0.00	0.13	0.14
Tankerwash USA	0.00	0.00	0.14	0.29	0.00	0.00	0.22	0.00	0.00	0.02	0.26

Table 2-7 Monitored Flow Summary of Special Case Dischargers, continued…

Current Industrial Dischargers[a]	Max Month Flow (MG/month)				Average Winter Flow (MG/month)			Average Summer Flow (MG/month)			
	Sum. 02	Sum. 03	Sum. 04	Sum. 05	2002-2003	2003-2004	2004-2005	2002	2003	2004	2005
Creative Research Management	0.00	0.00	0.09	0.62	0.00	0.00	0.09	0.00	0.00	0.02	0.23
McCormick & Baxter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parsons Engineering Science	0.65	0.50	0.58	0.59	0.47	0.53	0.37	0.52	0.40	0.41	0.45
County Hospital[b]	13.4	13.4	13.4	13.40	9.3	9.3	9.3	13.4	13.4	13.4	13.4
St. Joseph's Hospital[b]	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Subtotal, Other Special Case Dischargers	32.70	30.66	30.96	34.28	25.23	25.82	26.07	29.84	28.64	29.43	31.79
Total, All Special Case Dischargers	316	214	211	219	121	101	104	200	139	143	145
Equivalent Total Flow in mgd	10.29	6.98	6.89	7.15	3.94	3.28	3.38	6.51	4.54	4.66	4.74

(a) Flows from current industrial dischargers are based on City billing records dated January 2002 to December 2005.

(b) Flows based on "Pointflows" database of the City of Stockton Model (Configuration: cf_sy9a1; Scenario:bwin).

Note: "Sum." means "Summer".

Wet Industries

Fourteen special case dischargers had a maximum monthly discharge (between January 2002 and December 2005) that was greater than 0.10 mgd. The magnitude of flow from these businesses is likely to be unrelated to population and therefore must be considered separately from the domestic/commercial ADDWF when predicting treatment plant flows. The remaining minor special case dischargers have historically been included in the domestic/commercial flow and are therefore not considered separately. Two hospitals, the San Joaquin County Hospital and St. Joseph's Hospital, discharge a substantial amount flow; however, discharge from these two facilities is assumed to be proportional to population, and therefore need not be considered separately. The average summer and winter month flows in MG/month and mgd for the 14 wet industries are shown in Table 2-7. The total wet industry monthly summer (dry weather) flow averaged 170 MG/month (5.53 mgd) in 2002 but then dropped to 111 MG/month (3.6 mgd) in 2003. Two of the industries, H.J. Heinz and Newark Sierra Paperboard apparently discontinued or significantly reduced operations, based on a dramatic decrease or cessation of discharge in 2003. In 2005, the average wet industry summer flow was 113.6 MG/month (3.70 mgd).

Table 2-7 indicates that the highest flows from the wet industries occur in the dry weather (summer) months. The dry weather period is defined as the period from May through October. In years 2002 through 2005, average winter wet industry flows were about 55 to 70 percent of the average summer flow.

Special Case Flow Planning

The previous flow and load study was based on the premise that the flow from five wet industries would not increase in the future beyond the then-current value of about 2.0 mgd[1]. The five industries included in this allowance were:

- H.J. Heinz
- Campbell Soup Company (then Valley Tomato Products)
- Del Monte Foods
- Unilever Bestfoods (then Van de Bergh Foods)
- Corn Products

The total average dry month flow for four of these dischargers was 91.2 MG/month (3.0 mgd) in 2002 and 64.5 MG/month (2.1 mgd) in 2005. Del Monte Foods is no longer classified as a wet industry, having reduced flows to well under 0.1 mgd. Though H.J. Heinz has dropped just below the 0.1 mgd threshold for a wet industry, it remains on the wet industry list because of its potential to produce a wet industrial flow based upon the company's currently permitted discharge allowance.

[1] Parsons/Corollo, 2002.

The total average day dry weather (summer) flow from wet industries was reduced from 6.5 mgd in 2002 to 4.7 mgd in 2005. City staff has indicated that there is an ongoing trend for wet industries to relocate outside of Stockton. Treatment plant planning will be based on the assumption that future average day dry weather wet industry flows will not increase beyond 5 mgd.

Previous treatment plant planning has incorporated a value for maximum month flow, termed in previous documents the "Average Day Maximum Month Flow" (ADMMF). Maximum month flows for the wet industries totaled 316 MG/month (10.3 mgd) in Year 2002 and 219 MG/month (7.2 mgd) in Year 2005. The Year 2005 Maximum month flow agrees closely with previous ADMMF projections, which were based on a value of 7.1 mgd for the five wet industries listed above. Predicted ADMMF at the treatment plant will therefore continue to incorporate the same 7.2 mgd maximum month allowance for wet industries.

As noted above, it is assumed that flows from all other special case dischargers (existing and future) are accounted for in the per-capita flow factor and therefore will increase proportional to population.

Inflow and Infiltration and Peaking Factors

Inflow and Infiltration (I&I) at the RWCF has historically been accounted for through use of a wet weather peaking factor. The peaking factor is applied to the influent ADDWF or ADMMF to calculate peak flows. As reported in the flow and load study, the ratio of the maximum month wet weather flow (MMWWF) to the ADDWF is 1.11. The City's former agreement with OMI/Thames defined average and peak flow conditions representing design conditions for the initial capacity increase project at the RWCF (OMI/Thames & City Agreement, Appendix 20, Table 9.2-6). Table 2-8 lists the values specified in the OMI/Thames agreement, as well as the peaking factors implied by the listed values.

Table 2-8. Current Treatment Plant Design Flows

Flow Condition	Flow, mgd	Effective Peaking Factor
ADDWF	48	—
MMWWF	53	1.11 x ADDWF
ADMMF	58	1.20 x ADDWF
Peak Day (Maximum Month) Flow	78	1.63 x ADDWF
Peak Hour (Wet Weather) Flow	121	2.53 x ADDWF

Source: Adapted from OMI/Thames & City Agreement, Appendix 20, Table 9.2-6, except MMWWF peaking factor which was used in the flow and load study. ADDWF capacity updated to current design capacity.

For the purposes of this Master Plan, the peaking factors listed in Table 2-8 were used to predict the various flow conditions, based on a projection of the ADDWF for domestic and commercial flows (i.e. the allowance for wet industries is added separately).

Plant Recycle Flow

Plant recycle flow is produced by various treatment processes including dewatering operations and filter backwashing. Sample streams, and various other sources also contribute to recycle flows. Recycle flows are important because they add to the total flow that must be accommodated at the treatment plant.

As the plant is modified, recycle flows may change, but would not be expected to increase proportional to plant capacity. Previous analysis indicated that plant recycle flows would represent 1.1 mgd under the ADMMF condition. During wet weather, the predicted monthly average recycle stream was lower (0.9 mgd). For the purposes of this Master Plan, it is assumed that these predicted plant recycle flow rates will not significantly change in the future. However, the peak hour peaking factors will be applied to the total predicted average flow, including plant recycle. The actual impact on the recycle stream associated with particular plant modifications must be considered during design.

Treatment Plant Flow Projection

Future treatment plant flows are based on population projections plus a flow allowance for wet industries. The average flow is calculated first. Peaking factors are then used to predict peak flows. The predicted flows at the RWCF for Year 2035 are presented in Table 2-9.

Table 2-9. Treatment Plant Flow Projection: 2035

Flow Condition	Average Day Dry Weather	Average Day Maximum Month	Peak Day Maximum Month	Peak Hour Wet Weather
Peaking Factor (PF)	1.00	1.20	1.63	2.53
Basis of Flow (PF x __)	x ADDWF	x ADDWF	x ADMMF	x ADMMF
Domestic/Commercial Flow, mgd	65.0	78.0	127	164
Wet Industries Flow, mgd	5.0	7.2	11.7	12.6
Plant Recycle Flow, mgd	1.0	1.1	0.9	2.5
Total Influent Flow, mgd	71	86	139	179

Basis: Population = 580,717; Domestic/Commercial Flow = 112.0 gpd/capita

COLLECTION SYSTEM FLOWS

Wastewater flows for collection system infrastructure were projected for the buildout land use of the 2035 Master Plan using a flow factor method based on land use type. This method was used to determine collection system flows independent of the wastewater treatment plant flow projection. The projected wastewater treatment plant flow represents a citywide average. If all pipelines were sized using the same basis for projecting flow, a significant number of sewers would have inadequate capacity at buildout. Land-use based flow factors with an appropriate level of conservatism are therefore used to predict flows in individual pipelines.

Flows in some existing sewers are impacted by flows from new service areas added as part of the 2035 General Plan. In addition, infill of the existing service area will also increase flows.

The collection system flow projection methodology and assumptions are described under the following topics:

- Collection System Wastewater Flow Factors
- Translation of previous Modeling Categories to 2035 General Plan Categories
- Collection System Peaking Factors
- Collection System Infiltration and Inflow

Collection System Wastewater Flow Factors

As indicated previously, land use based flow factors have been developed to predict flows in individual pipelines. The flow factor values vary by two parameters: (1) land use category; and, (2) whether the flow projection is for an area with existing development or planned future development. The flow factors used in previous modeling for areas of existing development were calibrated to simulate measured flows at the wastewater treatment plant. Calibrating flow factors at a single location provides only a rough estimate of actual dry weather flow factors for existing development areas. Better flow factor estimates for the land use categories could be obtained by implementing a City-wide flow monitoring program. In the absence of such a program, the City directed WYA to use the roughly calibrated flow factors from the previous modeling for areas with existing development. For future development areas, the City directed WYA to use planning flow factors from the City design standards, which are higher than those used for existing development to account for the potential variability in actual vs. planned use patterns. A further discussion follows of the flow factors used for areas of Existing Development and areas of Future Development.

<u>Existing Development Areas</u>

The previous model contained unit flow generation factors for 25 different land use categories based on zoning categories from the City's GIS. The flow factors for existing development areas were calibrated such that the modeled maximum day flows simulated actual maximum day flow data recorded in the winter at the wastewater treatment plant for Year 1996. Flow factors for future development areas were not calibrated but rather were conservatively based on City Standards. A detailed description of the flow projection methodology used in previous modeling is described in HDR's "Technical Memorandum 4.3, Criteria and Assumptions" (HDR, September 1997, Updated August 2001, Final, for City of Stockton).

There are fewer land use categories used for the 2035 Master Plan than with previous modeling. To use the existing development flow factors from the previous modeling, it was necessary to convert the previous land use categories to the new categories used for the 2035 Master Plan. Since the calibrated flow factors used in the previous model are not published, WYA used the flow assignment database table from the model to derive the effective citywide maximum day flow factors for each of the previous land use categories. These flow factors were then applied to the 2035 Master Plan land use categories. The resulting flow factors are presented in Table 2-10. The factors in Table 2-10 were only used to predict flow from existing development areas.

Table 2-10. Flow Factors for Existing Development Areas[a]

2035 Master Plan Land Use Category	Previous Model Land Use Category	Flow Factor[b]	Units
Low Density Residential	• Single Family Residential • Single-Family PURD	240	gpd/DU
Medium Density Residential	• Two Family Residential • Two-Family PURD • Three-Family PURD	3,144	gpd/acre
High Density Residential	• Apartment District • Downtown Apartment District	5,568	gpd/acre
Commercial	• Neighborhood Retail • Central Business District • Community Shopping Center • Commercial Auto District • Commercial Residential • Freeway Interchange Dist. • Enterprise Performance	1,100	gpd/acre
Administrative Professional	• General Business District	1,100	gpd/acre
Industrial[c]	• Commercial Manufacturing • Light/Heavy Industrial District • Industrial Performance	1,400	gpd/acre
Institutional	• Public Facilities • Schools and Institutions	1,100	gpd/acre
Parks& Recreation	• Parks and Golf Courses	240	gpd/acre
Open Space	• Public Lands District • Agricultural	0	
Residential Estate	N/A	240	gpd/DU
Village[d]	N/A	2,460	gpd/acre
Mixed Use[e]	N/A	2,300	gpd/acre
Runway	N/A	0	gpd/acre
Water	N/A	0	gpd/acre

(a) Calibrated flow factor derived from City model data files (values are rounded).
(b) Factors are only applied to existing development areas to estimate current max day flows. Factors used for future growth areas are higher.
(c) This factor only applies to light or dry industries. Flows from wet industries are added to the model separately as point sources.
(d) Composite flow factor developed as an average of the calibrated flow factors from previous modeling weighted by each category's percentage of land use. Land use category fractions for this composite category are based on the target[2] land use category mix for a "Village" land use.
(e) Composite flow factor developed as an average of the calibrated flow factors from previous modeling weighted by each category's percentage of land use. Land use category fractions for this composite category are conservatively based on an assumption of 50% residential land use and 50% commercial land use.

The previous modeling used dwelling unit (DU) based flow factors for all residential land use categories. The flow factors were then applied to DU counts taken from Traffic Analysis Zones. However for the Master Plan, the DU counts in existing residential areas were estimated from water meter records – if a water meter record was present for a residential parcel, it was considered to be developed.

The DU-based flow factors were used in existing development areas with land use categories designated as Residential Estate and Low Density Residential. For these categories, it was assumed that one developed parcel equated to one DU. For the Medium and High Density Residential land use categories, water records are not appropriate for estimating dwelling units and therefore acreage based flow factors were developed by applying the calibrated DU based flow factor from the previous modeling to maximum allowed developed densities[2] (i.e. DUs/acre) for each of the categories. The Village flow factor was developed by applying the calibrated flow factors from previous modeling to the Village target density[3] mix of the categories. The Mixed Use flow factor was developed by applying the calibrated flow factors from previous modeling to the developed area with an assumed land use mix of 50 percent Low Density Residential and 50 percent Commercial development.

Future Development Areas

For future development areas, the City directed WYA to apply flow factors consistent with the "Planning Values" in the City design standards. The factors used to predict future flows from new 2035 Master Plan future development areas are listed in Table 2-11.

Collection System Peaking Factors

The sanitary flow varies with the time of the day. Peak sanitary flow is defined as the maximum rate of sanitary flow present in the sewer during a single one-hour period on the max day. The City directed WYA to use the methodology specified in the City design standards to predict peak flows. The design standards specify that the design flow be calculated as follows:

Design Flow = (Average Flow + I&I) x Peaking Factor

Peaking Factor, PF

Average Flow < 0.5 mgd	$PF = 2.29 \times (\text{Average Flow})^{-0.338}$
0.5 < Average Flow < 1.8 mgd	$PF = 2.50 \times (\text{Average Flow})^{-0.216}$
Average Flow > 1.8 mgd	$PF = 2.37 \times (\text{Average Flow})^{-0.124}$
(Average Flow in units of mgd)	

[2] Taken from Minter & Associates file: 2035 Preferred GP LU Calcs_100 Percent_2005_09_03 Updated.xls, Tab: B-Multiplier Matrix

[3] Taken from "Table 7.1 – Village Development Density Standards" located on the City of Stockton Planning Division website at: http://www.westplanning.com/docs/stockton/documents/draft_gpr/2035_draft_gpr_component_c_2006_12.pdf

Table 2-11. Flow Factors for Areas Planned for Future Development

Land Use Category	Flow Factor	Units
Low Density Residential	2,100	gpd/acre
Medium Density Residential[(a)]	5,000	gpd/acre
High Density Residential	6,800	gpd/acre
Residential Estate	2,100	gpd/acre
Commercial	2,000	gpd/acre
Administrative Professional	2,400	gpd/acre
Industrial[(b)]	3,000	gpd/acre
Institutional	1,600	gpd/acre
Mixed Use[(c)]	2,300	gpd/acre
Village[(d)]	2,460	gpd/acre
Parks& Recreation[(e)]	240	gpd/acre
Open Space/Agricultural	0	gpd/acre
Runway	0	gpd/acre
Water	0	gpd/acre

(a) City Standards do not list a category consistent with this designation, therefore the flow factor value was developed based on the midpoint of the flow factor values for Low Density Residential and High Density Residential land use categories, rounded up to the nearest 1,000 gpd/acre.

(b) This factor applies to future industrial growth areas. Flows from wet industries are accounted for in the model as existing flows, and it is assumed there will be no future increase from wet industries.

(c) City Standards do not list a category consistent with this designation, therefore the flow factor value was developed based on a composite flow factor developed as an average of the calibrated flow factors from previous modeling weighted by each category's percentage of land use. Land use category fractions for this composite category are conservatively based on an assumption of 50% residential land use and 50% commercial land use.

(d) City Standards do not list a category consistent with this designation, therefore the flow factor value was developed based on a composite flow factor developed as an average of the calibrated flow factors from previous modeling weighted by each category's percentage of land use. Land use category fractions for this composite category are based on the target[2] land use category mix for a "Village" land use.

(e) City Standards do not list a category consistent with this designation, therefore the flow factor value was selected based on that used for previous modeling.

Collection System Inflow and Infiltration

Inflow and Infiltration (I&I) is rainfall runoff and groundwater that enters the wastewater collection system through unintended routes. In Stockton, this portion of wet weather flow is predicted by multiplying the area served by an I&I factor. City design standards use an average I&I rate of 400 gpd/ac which is then peaked using peaking factor equations resulting in a peak I&I range of approximately 540 to 3,400 gpd/ac depending on the magnitude of total average sanitary flow from the upstream area draining to the pipeline being designed.

For the HYDRA model, it is necessary to develop a peak I&I rate for the design flow estimate. HYDRA is designed to apply a peaking factor to the sanitary flow only. It is therefore necessary to use a "peak I&I" rate in HYDRA, reflecting the approximate typical product of the City design standard I&I rate and the variable peaking factor. To accurately duplicate City standards for peak flow in pipelines, it was necessary to apply three different I&I rates based upon pipeline diameter range:

- Less than or equal to 42-inch diameter; I&I rate = 700 gpd/ac
- 48-inch to 66-inch diameter; I&I rate = 650 gpd/ac
- Greater than 66-inch diameter; I&I rate = 550 gpd/ac

I&I is a substantial component of the design flow within pipelines. The I&I rates used for the HYDRA model, in combination with the City peaking of average dry weather flows, produce peak flow results that closely approximate City standards. The comparison peak flows computed with City Standards to peak flows generated by the HYDRA model developed for this Master Plan using the diameter-based I&I rates discussed above is presented in Appendix C.

CHAPTER 3. EXISTING WASTEWATER FACILITIES

The City is served by gravity sewers, pump stations, pressure sewers (force mains), and a wastewater treatment plant – the Regional Wastewater Control Facility (RWCF). Upstream of the trunk sewers, smaller diameter collector sewers and laterals receive wastewater from homes, businesses, public and institutional facilities. This section includes the following topics, providing a description of the major existing wastewater facilities:

- Wastewater Collection System
- Wastewater Treatment Facilities

WASTEWATER COLLECTION SYSTEM

The following topics provide an overview of existing wastewater collection system facilities:

- Existing Service Areas
- Gravity Sewers
- Existing Pump Stations

Existing Service Areas

The existing City of Stockton sanitary sewer collection system is divided into 10 designated sub-areas or "systems", and indicated in Figure 3-1. Systems 1 through 7 have been in existence for at least 15 years, and encompass the majority of the City. System 8 was intended to serve southern areas of the City, and has been partially developed; however the majority of the area remains undeveloped. System 9 is intended to serve currently undeveloped areas at the eastern edge of the City along Highway 99; the backbone trunk sewer and pump stations for System 9 were completed in 2007. System 10 is intended to serve northern areas of the City, and has been partially constructed; however the majority of the area remains undeveloped.

Gravity Sewers and Force Mains

Prior to the current analysis, a collection system modeling analysis of the City wastewater collection system was last performed in May 2003 by HDR Engineering. The prior model reportedly includes most or all sewers 12-inch diameter and greater. City staff reviewed graphical output of the sewer network represented in the model and provided WYA with recent construction drawings through 2006 to update the model. Data from the updated model provides an inventory of trunk sewers in the City. Table 3-1 summarizes the total length of modeled trunk sewers by diameters. There are over 170 miles of trunk sewers included in the model. Note that the total length of sewers less than 12-inch diameter is likely to be greater.

Table 3-1. Modeled Existing Trunk Sewers

Nominal Diameter, inches	Total Length, feet
12	370,553
15	105,426
18	71,163
21	13,733
24	104,970
27	34,733
30	54,860
33	14,682
36	51,580
42	44,043
48	52,336
54	9,604
60	396
66	9,303
>72	27,907
Total	965,289

Figure 3-1 differentiates the modeled pipelines with and without remaining available capacity throughout the City. It should be noted that many of the indicated capacity limitations are due to gravity sewer trunk lines with nominally flat pipe slopes. It was beyond the scope of this study to collect extensive field data, so in many cases, the pipe slope information reported in previous studies has not been confirmed; thus considerable uncertainty is associated with the pipe flow capacity estimates for the gravity sewers. Because of this uncertainty, the City directed WYA to rate pipelines with capacity exceedance based on relative severity of the apparent exceedance. This analysis is discussed in more detail in Chapter 5 – Collection System Hydraulic Modeling.

Available capacity is greatest in the northern and southern areas of the City, which largely correspond to System 10 and System 8, respectively. In general, existing pipelines were not designed to accommodate areas beyond the 1990 Urban Services Boundary (USB), or to accommodate conversion of planned agricultural and open space uses to urban areas not included in the 1990 General Plan. Upon construction of the System 9 backbone trunk sewer and the downstream Country Club Sewer project, significant capacity became available to System 9.

Force mains convey flow from pump stations to a downstream gravity sewer. There are approximately 158,000 lineal feet of force mains in the model, representing all city-owned force mains of significant length as well as some private pumping and force main systems.

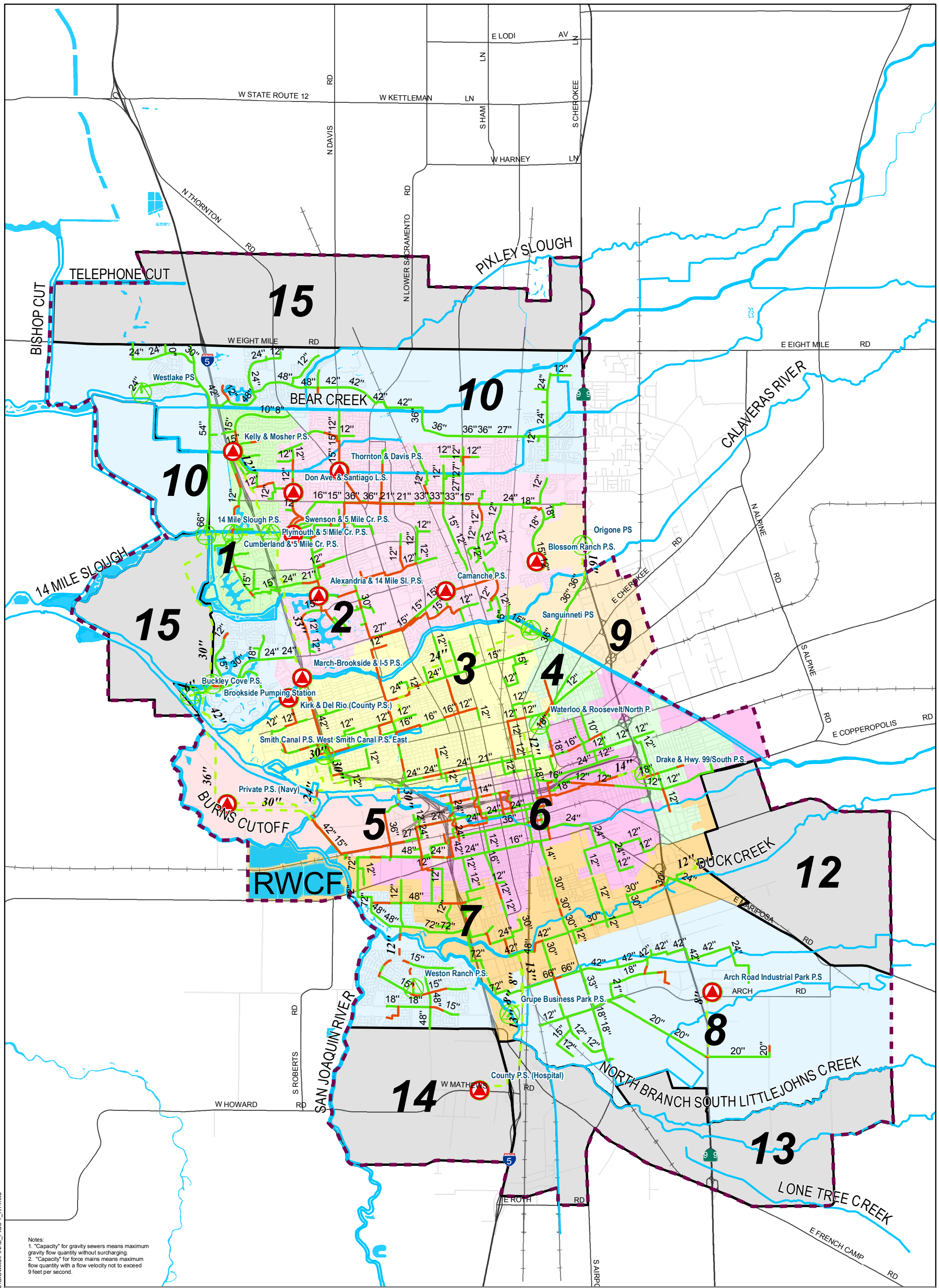

FIGURE 3-1

City of Stockton

Wastewater Master Plan

SEWER CAPACITIES - PEAK FLOW AT EXISTING CONDITIONS

WEST YOST ASSOCIATES
Consulting Engineers

N:\Clients\129 Stockton\00-06-14 Wastewater MP Update\GIS\Mxd\FINAL_FIG3-1_R1.mxd

Existing Pump Stations

Wastewater pumping stations are located throughout the City and are integral to the wastewater collection system. The pump stations are shown on Figure 3-1. Most of the pump stations discharge to pressure sewers (force mains) that convey flow under pressure either directly to the RWCF or to a downstream gravity sewer. Table 3-2 lists the name and firm capacity of each pump station. The firm capacity is the maximum pumping capacity at the pump station with the largest pump out of service. City Standards dictate that all pump stations be rated according to their firm capacities. The table also indicates whether or not the pump station includes variable speed motor controls.

Table 3-2. Pump Station Inventory

System	Pump Station Name	Firm Capacity, [(a)] mgd	Type
1	Plymouth & 5 Mile Cr. P.S.	0.65	Constant Speed
1	Cumberland & 5 Mile Cr. P.S.	1.80	Constant Speed
2	Kelly & Mosher P.S.	1.44	Constant Speed
2	Blossom Ranch P.S.	0.65	Constant Speed
2	Camanche P.S.	1.20	Constant Speed
2	Thornton & Davis P.S.	1.22	Constant Speed
2	Don Ave. & Santiago L.S.	0.80	Constant Speed
2	Alexandria & 14 Mile Sl. P.S.	1.97	Constant Speed
2	March-Brookside & I-5 P.S.	1.15	Constant Speed
2	La Morada P.S.	0.80	Constant Speed
2	Swenson & 5 Mile Cr. P.S.	21.6	Variable Speed
3	Kirk & Del Rio (County P.S.)	1.01	Constant Speed
3	Smith Canal P.S. East	13.7	Variable Speed
3	Smith Canal P.S. West	27.4	Variable Speed
4	Waterloo & Roosevelt/North P.S	2.73	Constant Speed
4	Drake & Hwy. 99/South P.S.	3.54	Constant Speed
5	Private P.S. (Navy)	1.01	Variable Speed
8	County P.S. (Hospital)	1.08	Variable Speed
8	Weston Ranch P.S.	10.5	Variable Speed
8	Arch Road Industrial Park P.S.	0.46	Constant Speed
8	Grupe Business Park P.S.	0.87	Constant Speed
9	Origone P.S.[(b)]	4.5	Variable Speed
9	Sanguinetti P.S.[(b)]	10.5	Variable Speed
10	14-Mile Slough Pump Station[(b)]	14.4	Variable Speed
10	Westside Interim P.S.[(c)]	2.09	Variable Speed
10	West Lake P.S.[(d)]	4.4	Constant Speed

Table 3-2. Pump Station Inventory, cont'd…

System	Pump Station Name	Design Capacity, [(a)] mgd	Type
10	Buckley Cove P.S.	0.30	Constant Speed
10	Brookside Pumping Station	7.69	Variable Speed

Source: City of Stockton, Municipal Utilities Department

(a) Based on previous model input data for "existing conditions" (Year 2000) and updated/confirmed by City staff.
(b) To be commissioned in the 2007.
(c) This pump station will be replaced by the 14-Mile Slough Pump Station and removed from service.
(d) Pump Station under construction. Design capacity per Stantec Engineering.

WASTEWATER TREATMENT FACILITIES

The Stockton RWCF provides secondary and tertiary treatment of municipal wastewater from throughout the City. The RWCF is located north of Highway 4 on both sides of the San Joaquin River. Figure 3-1 depicts the location of the RWCF in relation to the collection systems. The primary and secondary treatment facilities are located on the east side of the river, while secondary polishing facilities (consisting of 630 acres of oxidation ponds plus dissolved air flotation facilities), filtration facilities, and disinfection facilities are located on the west side of the river. Primary and secondary solids are treated by anaerobic digestion, dewatered, and disposed of off-site. Effluent is discharged into the San Joaquin River adjacent to the RWCF.

Current dry weather flows at the facility are estimated to be on the order of 35 mgd, or approximately 80 percent of the current dry weather capacity of the facility. Recent improvements to the RWCF increased the average the dry weather flow capacity of the RWCF to 48 mgd. In addition, existing filtration facilities were improved to meet Title 22-based treatment requirements, added nitrifying biotowers to the secondary treatment facilities, and added an effluent polishing wetland, plus a number of other, smaller upgrades.

Additional information describing the existing treatment facilities, as well as future facility needs is provided in Chapter 7.

Potential for Effluent Reclamation (Water Reuse/Recycling)

In an effort to identify possible options for discontinuing discharge of RWCF effluent to the river, a Recycled Water Market Evaluation was completed in March 1996. Zero discharge alternatives that were considered included a variety of industrial, municipal, agricultural, and groundwater recharge options. Capital costs for the alternatives were estimated to range from $60 million to $160 million in 1995 dollars. The viable municipal and agricultural reuse opportunities identified in the study were all seasonal in nature, and would require cost-prohibitive land acquisition and construction costs for the required wet season storage of the effluent. Although industrial reuse was also considered in the March 1996 report, sufficient industrial demand to achieve zero discharge could not be identified, thus likely ruling out industrial reuse as a short-term option. Finally, the groundwater recharge options considered included a significant number of uncertainties, and would not ensure a reduction in treatment requirements and associated costs. The study concluded that zero surface water discharge is not a viable recycling option.

The City's preferred plan for recycling is to continue discharging to the San Joaquin River in order to offset withdrawals of raw water from the delta for treatment and potable use. Treated delta water would be used within the place of use of the City's water right application (SWRCB application #30531.

CHAPTER 4. DESIGN / PERFORMANCE CRITERIA

The purpose of this Chapter is to document the standard operational and design criteria used to evaluate the capabilities of the existing wastewater collection system and guide the planning and design of system improvements. These criteria were used to develop the recommended Capital Improvement Program (CIP).

The recommended standard operational and design criteria as presented as follows:

- System Performance Criteria for Planning and Design
- Planning-Level Cost Estimates

SYSTEM PERFORMANCE CRITERIA FOR PLANNING AND DESIGN

Planning and operational performance criteria as defined herein for the following critical wastewater system components:

- Existing Gravity Sewers
- New Gravity Sewers
- Pumping Facilities
- Force Mains
- Wastewater Treatment

WYA used these criteria to quantify available capacity in the existing wastewater collection system. These criteria also served as the basis for identifying improvements needed to correct existing system deficiencies and for planning future facilities.

Existing Gravity Sewers

Current City standards call for all gravity sewers to be designed for full-pipe gravity flow. Surcharging results in sewers that do not meet this criterion under a given flow condition. For planning purposes, the available capacity is zero in gravity sewers with a predicted peak flow equal to or greater than the full-pipe gravity flow capacity.

The capacity of a gravity sewer is a function of its diameter and slope. Pipe wall roughness is also a factor. The City's collection system model (HYDRA) incorporates diameter and slope data for pipelines 12-inch diameter and greater. These data are based primarily on data from previous modeling, which in turn were based on record drawings. The sewer line input data have not been field verified. In some cases, the modeled sewers indicate a pipeline is sloped in the direction opposite the flow. Flow in such an adverse sloped sewer can occur in the desired direction by surcharging the pipeline. However, it is more likely that the apparent adverse slope in these sewers is incorrect – an artifact of using multiple data sources which are not necessarily coordinated with each other. No improvements will be planned to correct an apparent adverse slope until such slope has been field verified and shown to cause unacceptable levels of surcharging or excessive maintenance problems.

The HYDRA sewer model provides an estimate of the amount of surcharging, including the expected minimum depth from the surface to which water would rise under the modeled peak flow conditions. The City currently does not have a sewer collection system monitoring program to measure wastewater flows and surcharging levels in the sewers. Without this data, it is not possible to calibrate the HYDRA model to actual field conditions and is therefore necessary to use conservative modeling and planning assumptions. It is recognized therefore that the computations of surcharging levels in sewers provided by HYDRA are approximate and subject to the accuracy of estimates of peak flow. As flow monitoring data and other field data becomes available in the future, additional model calibration is warranted

The modeled peak flow is based upon City design standards which are typically conservative estimates of peak flow for most sewers. However, it is possible that peak flows are under-predicted in areas of the City subject to excessive inflow and infiltration (I&I). Because of the uncertainty of modeled peak flow and surcharging estimates, the City directed that modeled surcharging conditions be classified into categories graduated according to level of severity. Classifying potential problem pipelines within graduated capacity categories provides the City with information useful in prioritizing further investigation and predicting the potential magnitude of corrective measures.

The Master Plan classifies the gravity sewers with modeled surcharging based on the criteria presented in Table 4-1. Figure 4-1 provides a graphical depiction of the capacity criteria given in Table 4-1, for the purpose of illustration.

Table 4-1. Gravity Sewer Capacity Criteria

Capacity Category	Criteria	Comments
Priority 1 – Possible Sanitary Sewer Overflows	1.Q>Qfull; and, 2.HGL within 1 foot of ground surface	These gravity sewers have the potential to produce sanitary sewer overflows during peak wet weather flow events. Field investigations and flow/surcharge monitoring is recommended.
Priority 2 – Excessive Surcharging	1.Q>Qfull; and, 2. HGL form 1 to 4 feet below ground surface	These gravity sewers have the potential to backup into service laterals and drains at low elevations during peak wet weather flow events. There is some apparent risk of overflows. Field investigations and flow/surcharge monitoring recommended.

Table 4-1. Gravity Sewer Capacity Criteria, cont'd…

Capacity Category	Criteria	Comments
Priority 3 – Moderate Surcharging	1.Q>Qfull; and, 2.HGL from 4 to 8 feet below ground surface (or) 3.HGL more than 1 foot above crown in sewers less than 8 feet deep	These gravity sewers have the potential to backup into service laterals and drains at low elevations during severe peak wet weather flow events. There is reduced apparent risk of overflows. Field investigations and flow/surcharge monitoring is recommended.
Priority 4 – Minimal Surcharging/ Reported adverse slope	1.Q>Qfull; and, 2. HGL more than 8 feet below ground surface. (or) 3. HGL less than 1 foot above crown in sewers less than 8 feet deep. (or) 4. Sewer line sloped adversely (negative slope in the direction of flow)	These sewers have an apparently acceptable level of peak flow surcharging. Additional flow from new development is not acceptable without capacity improvements. Sewers with reported adverse slopes should be field investigated to verify invert elevations.
Approaching Full-pipe Capacity	Q ranges between 90-100% of Qfull;	These sewers do not exceed City design criteria, but should be investigated further with flow monitoring before permitting additional flows from upstream development.

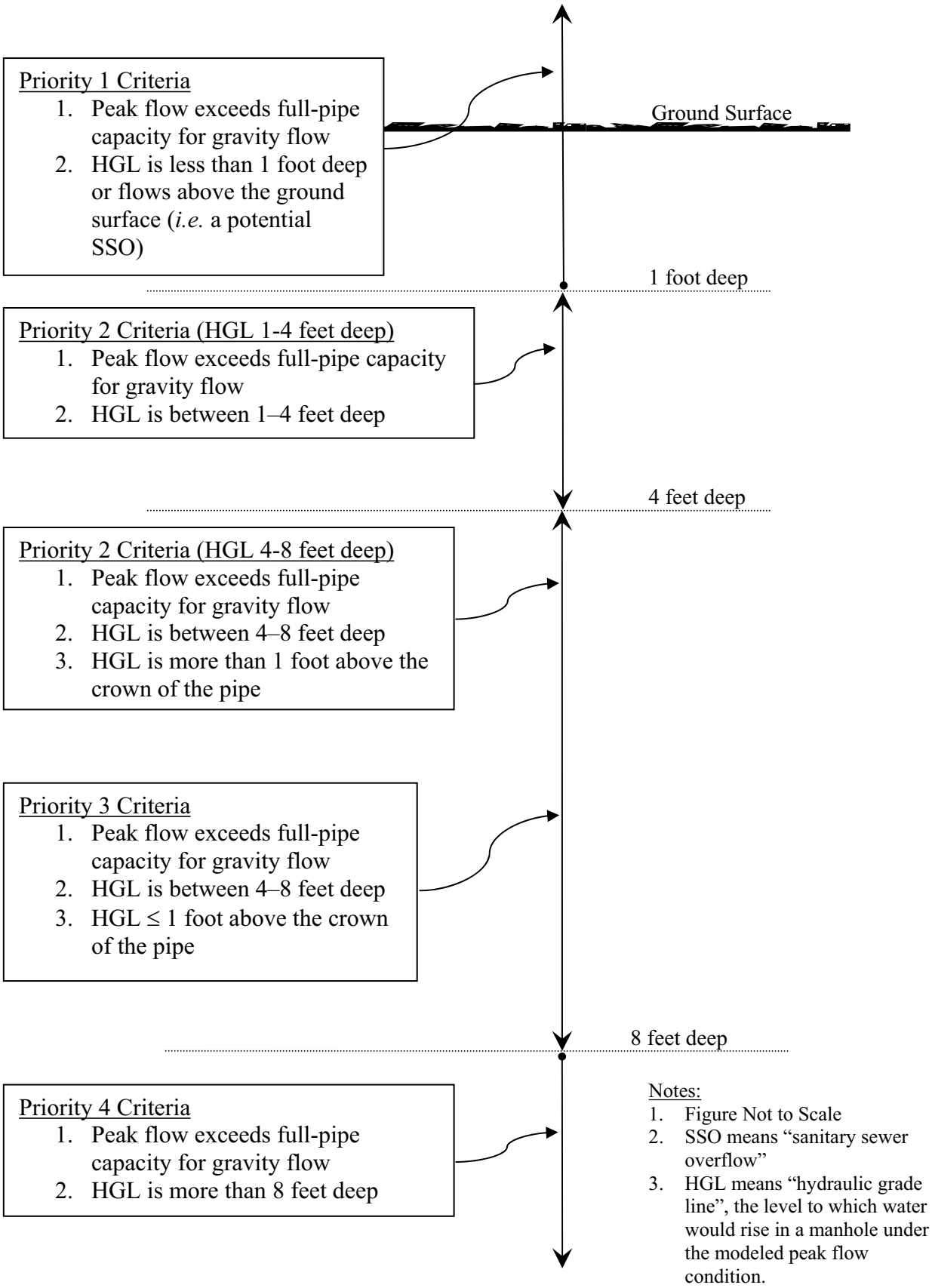

Figure 4-1 – Gravity Sewer Capacity Exceedance Criteria

New Gravity Sewers

The Master Plan identifies the large diameter trunk sewers and pump stations needed to provide a backbone collection system to the planned USB. The diameters of these trunk sewers were selected to conform to City standard design criteria. These criteria used are summarized in Table 4-2.

Table 4-2. New Gravity Sewer Sizing Criteria (City Standards)

Parameter	Criterion		Comments
Minimum Velocity	Pipes must be sloped to produce a minimum of 2 feet per second at peak flow		Initial flows during the early years will be lower than the design flows, causing velocities to be lower. During design, steeper slopes should be considered where feasible. Additional maintenance or other measures may be required to control odors in sewers with initially low velocities.
Hydraulic Capacity	Based on Manning's Equation with an "n" value of 0.013		City standards allow an "n" value of 0.011 for plastic pipe; however, the more conservative value of 0.013 was used for all pipes for planning purposes.
Minimum Slope	Diameter, inches	Slope, ft/ft	Flatter slopes (as low as 0.0006 ft/ft) have been allowed for some designs in Stockton to accommodate project-specific constraints. It can be difficult to maintain the desired grade during construction of pipelines at slopes less than 0.001 ft/ft. For planning purposes, a value of 0.001 ft/ft was assumed for larger trunk sewers.
	8	0.0045	
	10	0.0025	
	12	0.0020	
	15	0.0015	
	18	0.0012	
	Larger than 18	0.0010	
Allowable Surcharging	None		Sewers must be designed for gravity flow.

Trunk Sewer Depths and Pump Station Locations

Sanitary trunk sewers should be installed at depths such that they can receive flows from their service area via gravity sewers, minimizing the number of pump stations required. At the master planning phase, the alignments of backbone trunk sewers is preliminary, and upstream collector sewers have not been laid out. The following criteria were used to estimate the required depths of planned backbone trunk sewers:

1. Hypothetical connecting trunk sewers (12-inch and larger) must be extended to the farthest and lowest points of the service area.
2. The assumed diameter of connecting trunk sewers shall be based on the projected flow from the upstream tributary area for each connecting sewer segment.

3. The slope of the connecting trunk sewers shall be at least equal to the minimum allowable slope for the given diameter.
4. The upstream end of hypothetical connecting trunk sewers shall have at least 8 feet of cover, allowing for the fall in upstream 8- and 10-inch lateral sewers.
5. Ground surface elevations within the service area may be based on USGS quadrangle maps, 7.5-minute series, unless more accurate information is available.
6. A pump station shall be planned where the trunk sewer would otherwise reach depths in the range of 25 feet to 30 feet.

The preceding criteria were used to establish controlling depths along the route of each planned backbone trunk sewer. It should be noted that Alignments and depths in this Master Plan are preliminary. For final design, more detailed topographic information and field data are needed.

Pumping Facilities

Pumping facility sizing criteria are established in the City's design standards. New pump stations must have a firm capacity equal to the predicted peak wet weather flow. For the purposes of this analysis, the rated firm capacity of a wastewater pump station is equal to the capacity of the installed pumps with the largest pumping unit out of service. The firm capacity of existing stations must be equal to or greater than the predicted peak wet weather flow in the pump station influent pipeline.

In most cases, an improvement is required where the estimated existing or projected future peak flow exceeds the firm capacity of an existing pump station. The criteria presented in Table 4-3 were used to predict the type of improvement needed at existing stations. It is assumed for the purposes of developing a CIP that existing stations are generally in good working order and do not require significant rehabilitation or replacement due to aging. A detailed analysis of individual stations would be required to determine the specific improvements needed at each location. Such an analysis, which is beyond the scope of this Master Plan, must include an assessment of actual (vs. rated) pumping capacity, and run-time or flow records for the particular station.

Table 4-3. Existing Pump Station Upgrade Criteria [(a)]

Ratio of Predicted Flow/Firm Capacity	Type of Upgrade [(b)]	Comment
Less than 1.2:1	None. Monitor actual run-times and/or flows.	Modeled flows are likely to be conservative. Actual peak wet weather flows should be assessed to verify that there is no need for an upgrade.
1.2:1 to less than 2.0:1	Replace pumps and controls	Estimate costs based on a generic allowance intended to cover pumping equipment, controls, new generator, and other minor rehabilitation.
2.0:1 and greater	Construct new station with capacity equal to total buildout flow	—

(a) Used only for the purpose of developing an overall CIP.
(b) Individual improvements are expected to vary in nature and magnitude from station to station.

Force Mains

City design standards recommend that force main velocities should be limited to "around 7 feet per second (fps)" for lengths up to 300 ft, and "around 5 fps" for lengths in excess of 1,000 ft. For master planning purposes, new force main diameters were selected based on a velocity of 7 fps at peak wet weather flow, which will result in lower velocities under most flow conditions. Existing force mains were considered to have adequate capacity to carry predicted peak wet weather flows at velocities up to 9 fps. This velocity will produce higher pressures, which must be considered during design of any replacement pumping equipment both in terms of higher energy costs as well as existing pipeline material strength. Nevertheless, it is assumed that most existing force mains can accommodate flows at this velocity and the associated pressures, and that the cost of replacing the force main will generally far exceed the increased energy and pumping equipment costs.

Treatment Facilities

The RWCF must be designed to accommodate all projected flows, and meet anticipated discharge water quality standards. A detailed discussion of treatment standards and plant capacity requirements is provided in Chapter 7.

CONSTRUCTION COSTS FOR PLANNING

Unit costs for construction of new pipelines and pump stations are based in part on the recent bid for the City of Stockton Wastewater Collection System 9 project. The various types of facilities and construction conditions are very similar to those anticipated for the backbone infrastructure included in the CIP for this Master Plan. Specifically, the System 9 project includes large diameter gravity sewers at depths varying from shallow to deep; two wastewater pump stations with capacities of approximately 5 and 11 mgd; and two moderately sized force mains, one in a frontage road and orchard with relatively few conflicts, and the other in congested neighborhood streets. The project also includes a crossing of the Calaveras River, the Stockton Diverting Canal, a high roadway embankment on Wilson Way, and two railroad crossings. These components represent nearly all of the major elements and conditions anticipated for the master plan improvements. Since the project bid in mid 2004 for construction to begin in early 2005, the costs for the System 9 project should be considered as one reasonable indication of current construction costs if project contingencies are included.

WYA analyzed the costs of various System 9 components and translated those costs into comprehensive unit costs for each type of work. Certain line items from the System 9 bid were spread to individual components so that a single unit price for, say, gravity sewers, included all associated paving, sheeting and shoring, dewatering, mobilization and demobilization. The System 9 is a design-build project, and therefore includes a substantial contingency line item within the Guaranteed Maximum Price (GMP). The contingency line item was also spread to the individual components, such that the unit prices represent the GMP for the project.

In addition to the System 9 bid, WYA evaluated bid results from 2004 for the Yolo Force Main project by the Sacramento Regional County Sanitation District, a 5.5 mile long twin 66-inch diameter dual force main designed by WYA, and the successful bid price for the Stockton 14-mile Slough Pump Station, under construction in 2006 and 2007. Finally, WYA compared the pump station unit cost to a standard pump station cost reference (Sanks, 2nd Edition). The unit costs derivations are provided in Appendix D. Table 4-4 summarizes the unit costs used to develop planning level estimates.

Table 4-4. Planning-level Unit Construction Costs

Item	Unit Cost, dollars	Unit	Comments
Future Gravity Sewer	20	inch-diameter/ft	
Replacement or parallel Gravity Sewer	25	inch-diameter/ft	
	-		
Force main	15	inch-diameter/ft	
Backpressure sustaining facilities	500,000	each	*Add to end of each major forcemain
	-		
Small Channel Waterway Crossings	500,000	each	
Large Channel Waterway Crossings	1,000,000	each	
	-		
Railroad Crossing	300,000	each	
	-		
Minor Highway Crossing	500,000	each	
Major Highway Crossing	800,000	each	
	-		
Pump Stations	-		
Monitor actual run-times and/or flows. No upgrades.	25,000	lump sum	Allowance
Replace pumps and controls	500,000	per mgd	
Construct new pump station with required additional capacity	680,000x(Qdes)^-0.25	per mgd	Qdes means 'design flow', units are in mgd

Capital Improvement Project Estimates for Existing Gravity Sewers

Without flow and surcharge monitoring data throughout the sewer collection system, it is not possible to calibrate the sewer model to measured flows. Therefore, there is some uncertainty about the accuracy of the model's prediction of gravity sewer capacity exceedances. The sewer model simulates the peak wet weather flows per City standards which are typically conservative estimates used of planning. For analysis of existing pipes with apparent excessive flows either now or in the future, the sewer model results are used as a tool to identify areas to investigate further rather than to identify a specific capital improvement project (CIP). For the purposes of the CIP, it will be assumed that a percentage of the apparent problem areas will eventually (following future flow studies and field investigation) result in real CIP projects and therefore require funding. Cost projections with therefore include an allowance based on the percentages provided in Table 4-5.

Table 4-5. Percentage of Gravity Sewer Capacity Exceedances Expected to Result In Necessary Capital Improvements

Gravity Sewer Capacity Exceedance Category	Percentage of Potential Cost Included in CIP, percent
Priority 1 – Possible Sanitary Sewer Overflows	75
Priority 2 – Excessive Surcharging	50
Priority 3 – Moderate Surcharging	20
Priority 4 – Minimal Surcharging/ Reported adverse slope	5

Contingencies

At the master planning phase, it is important to include contingencies in addition to the normal construction contingency. Contingencies reflect the fact that final alignments have not been selected, no field information has been evaluated, and there is significant probability that either the lengths or construction conditions will vary from those anticipated. For this Master Plan, a level-of-planning contingency of 35 percent is included as a separate line item in the construction cost estimate. Recently, high variability has been observed in bids on a number of significant public works projects. In part, this reflects extreme variability in material pricing and other market conditions. Therefore, a significant contingency is important for prudent planning. The contingency will not affect the actual project costs, which are determined by economic forces at the time of bidding.

Other Project Costs

Other project costs include the following:

City Design Management and Other Staff Costs
City Construction Period Costs (including City inspection)
Design Services, Including Predesign, Geotechnical, and Surveying
Construction Engineering Service (CM)
Environmental Review
Permit Fees
Project Contingency (if any, in addition to planning and construction contingency)

These items totaled 27.4 percent of the GMP for the System 9 design-build project, with zero allowance for a Project Contingency to cover unusual additional cost items that might occur on some projects. Other project costs are typically estimated in the range of 25 to 50 percent for design-bid-build projects. For this Master Plan, the Other Project Costs will be estimated as 35 percent of the Construction Budget. A higher allowance should be used for budgeting projects with construction costs under $10-million.

Property Acquisition Allowance

Until final alignments are selected and development plans are in place, it is not possible to identify the number or size of easements or purchases in fee title that will be needed for the planned improvements. Many of the facilities will be constructed in public rights-of-way, or on land dedicated to the City under development agreements. Some facilities, however, will require purchase of land or easements. For the purposes of this Master Plan, it is assumed that land acquisition costs for pump stations will be negligible, and that pipelines will on average result in acquisition costs of about 7 percent of the pipeline construction costs without the contingency. This value is based on the aggregate property acquisition costs for the System 9 project, which includes purchase of one pump station site in addition to pipeline easements for portions of the gravity sewers.

CHAPTER 5. COLLECTION SYSTEM HYDRAULIC MODELING

This Chapter describes the development of the wastewater collection system (sewer) modeling used to evaluate existing system capacity and to determine future collection system needs to Year 2035. The development of the collection system model used for this Wastewater Master Plan Update is discussed under the following topics:

- Model Conversion and Update
- Sewer System Capacity Deficiencies

MODEL CONVERSION AND UPDATE

The City directed WYA to develop an up-to-date sewer model for master planning using information gathered from a previous citywide sewer collection system model developed several years ago by HDR Engineering. The previous sewer model addressed the existing service area (as of Year 2000), and buildout of the 1990 General Plan. The model was created using HDR Link, a propriety graphical user interface software that provides both pre- and post-processing of input and output data for the sewer modeling software, HYDRA by Pizer, Inc. For the purposes of this Wastewater Master Plan update, the City determined that it was necessary to both convert the previous model[1] to a commercially available software platform and to update the model to represent current conditions to Year 2005 and buildout conditions to Year 2035. Additionally, the City directed WYA to implement the City's standard peaking factor method to estimate peak sanitary flow in the converted model.

The conversion and update of the collection system model is discussed under the following topics:

- Service Areas
- Land Use
- Hydraulic Elements

Service Areas

For the purpose of collection system modeling, it is necessary to subdivide the area within the Urban Services Boundary (USB) into sewer sub-sheds called "service areas". Each service area boundary defines the area tributary to a node in the collection system. Each of the service areas is represented by a polygon defining either an existing area connected to the collection system or an area with planned development.

[1] HDR Link model file cf_2000 provided by the City.

Previous service area information for areas with existing development at Year 2000 were taken from the HDR Link model and used for this Wastewater Master Plan Update model. The service area polygons of the previous model had been used in conjunction with land use data in GIS format to develop land use allocations for each service area. This land use allocation was then used in conjunction with the flow factor and unit hydrograph peaking methodologies to generate flow inputs for the hydraulic calculations. The previous method of generating flow inputs for modeling was used for this Master Plan update.

Service areas were added to the model to include existing development that has occurred from Year 2000 to present and to cover new future growth areas. Service areas with existing development are referred to as the "existing service areas". Service areas for future growth areas are referred to as "future service areas" and cover areas of future development within the 2035 USB. The boundaries of the added service areas were established by inspection of the USGS quadrangle maps. Wherever possible, the service area boundaries coincide with natural land features and future development layouts established by the information gathered from the City and developers.

Land Use

As discussed in Chapter 2, land use information was provided by the City Planning Department which reflects buildout of the 2035 USB. Per City direction, the updated land use information was then further refined to include more detailed information on specific development projects currently being reviewed by the City Planning Department. The resulting City land use map produced by this refinement process was used for this Master Plan update so that future wastewater flow projections would reflect the most current land use data available.

The wastewater flows from areas of existing development are predicted differently than future flows for undeveloped areas. For planning purposes of this Wastewater Master Plan update, it was assumed that any parcel within the 2035 USB that has a record of water use is currently developed. Parcels with a record of water use include parcels receiving water from either COS MUD, Cal Water, County Maintenance District or parcels known to have a private water source. Existing land use quantities were determined by spatially locating metered potable water demand data using an address or by geocoding. A detailed discussion of this process is provided in Chapter 3 of the 2035 Water Master Plan update by WYA.

In the model, flow factors are applied to areas within the USB based upon land use designations to generate wastewater flows for hydraulic analysis. Further information regarding flow factors applied to land use categories is provided in Chapter 2 under the section "Collection System Wastewater Flow factors". Appendix H contains land use information and flows, by service area, for both the Existing Conditions and 2035 Buildout Conditions model.

Hydraulic Elements

The model's most basic hydraulic elements (or components) consist of links and nodes. In the model gravity sewers and force mains are represented by links. Nodes are used to represent points of flow input, basic junctions, diversion control structures and pump stations. Service areas are individually linked to a node and provide flow input to the model.

Hydraulic element information used in this Wastewater Master Plan Update model includes information about both existing and future gravity sewers and force mains, pump stations, and flow diversions. Hydraulic element information for existing facilities were taken from previous modeling files and updated to include changes that have occurred since Year 2000. The following paragraphs describe the element data taken from previous modeling and the updates provided in this Master Plan for each type of hydraulic element.

Existing Sewers

Two types of sewer lines are modeled in this Wastewater Master Plan Update model: gravity sewers and force mains. Information about existing sewer lines was taken from HDR Link output files updated to Year 2000. For gravity sewers, the HDR Link output files included information about sewer diameter, length, slope, pipe material with corresponding friction factor, depth, and connectivity. An HDR technical memorandum[2] describes the sources of the gravity sewer data used for the HDR Link model and the inherent errors associated with elevation data in particular. HDR indicated that a land survey was conducted throughout the City to collect sewer line rim and invert elevations, as part of model development. However, only a portion of the collection system was surveyed ("key manholes") due to the shear quantity of manholes throughout the City and also because of accessibility issues. Many manhole rim and invert elevations were therefore estimated based upon either information obtained from the City's Sanitary Sewer Block Books[3] or by interpolation of the elevation information collected during the land survey. Inspection of the HDR Link modeling files indicates the presence of more than 100 adverse sloped pipes (i.e. negatively sloped in the direction of flow) throughout the model. It is unclear whether-or-not adverse slopes actually are present at these locations. Additionally, it is possible that since only a portion of the sewer system was surveyed, other incorrect sewer slope information may exist in the model at other locations.

The computed value of full-pipe capacity for gravity sewers is greatly affected by pipeline slope. Since the City uses full-pipe capacity as the Design Standard for gravity sewers, sewer line slope uncertainties have a major affect on planning. The City directed WYA to account for the possible inaccuracies when projecting capital improvement needs. Further information about sewer capacity assessment criteria is described in Chapter 4.

Additional gravity sewers and force mains were added to update the model's existing pipeline database to Year 2006 based upon plans from recent development within the City. City staff reviewed plots of the updated sewer files for completeness and accuracy.

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[2] Technical Memorandum 4.2 – Model Configuration, HDR Engineering, updated August 2001.

[3] Technical Memorandum 4.2 by HDR Engineering states that because of substantial differential settling reported throughout the City and because of adjustments to the City datum throughout the years, the Sanitary Sewer Block Book elevation data is suspect.

Future Sewers

Trunk sewers were added to the model to handle both infill development of the existing service areas as well as extension of service into future growth areas. WYA incorporated input from City Staff in selecting future trunk sewer alignments. Future sewers and upgrades to existing sewers are typically aligned along streets in areas of existing development. In undeveloped areas, alignments of future streets are unknown, therefore only conceptual sewer alignments have been identified for these areas.

For this Master Plan Update, future gravity sewers sized 12-inches in diameter and larger, are modeled. These future sewers serve the purpose of planning major trunk alignments, computing sewer depths, and locating future pump stations. Per City direction, only larger trunk lines (18-inches in diameter or greater) are included in the capital cost estimates for future facilities. Typically, connection fee-funded collection system facilities will be limited to 18-inch and larger gravity sewers, pump stations, and force mains. Further information about capital costs of facilities is included in Chapter 8.

Links and nodes were added to the model to represent future trunk lines and to define configurations and connectivity. Links and nodes were numbered automatically within the HYDRA software and the resulting identifiers are shown on the large scale maps provided as part of this Master Plan.

The trunk sewer layout and modeling results are presented in Chapter 6.

Pump Stations

Twenty one (21) existing pump stations and 18 future pump stations are modeled in the Wastewater Master Plan Update. The previous model files for Year 2000 modeled a total of 24 pump stations. Since the previous model update, the La Morada Pump Station has been removed from service and the West Side Interim Pump Stations is scheduled to be removed from service in 2007 when the new 14-Mile Slough Pump Station is brought online. The Master Plan Update model therefore does not include these two previously-modeled pump stations. Additionally, the Arch Road Pump Station will require replacement and force main reconfiguration.

Information about existing pump stations was taken from previous modeling. Specific pump station information about flow capacity and pump control (constant speed or variable speed pumps) was reviewed by City staff and updated to reflect current conditions. The updated model uses the peaking factor methodology to account for the net cumulative effects of inflow timing, storage, and pump operation. For the purpose of evaluating downstream pipeline capacities, pump stations are assumed to pass all predicted incoming peak flow, irrespective of existing pump flow capacity. With this method, existing pump stations predicted to receive more peak flow than their designed “firm capacity” will be documented and recommended for monitoring, further analysis, and potential upgrade.

To plan future pump stations, hypothetical branch sewers were used to establish controlling depths (see Future Sewer Lines), and pump stations were located where the proposed trunk sewers would otherwise become too deep. The required capacities of future pump stations are equal to the projected peak buildout flows modeled at those points in the collection system.

Flow Diversions

Flow diversions occur at locations where upstream flow into a manhole is split between two downstream pipelines. There are 44 flow diversions modeled throughout the city. Flow diversions are represented in the model by a "through pipe" continuing down the main system and a "diverted flow" pipe. In previous modeling, site-specific rating curves were developed for each diversion relating total upstream peak flow to total peak diverted flow. The rating curves were computed by HDR Engineering based upon pipeline elevations at each of the diversions. The rating curves define the amount of peak inflow diverted at various water surface elevations within the diversion structure. Rating curves were not reviewed for this update; however, operational changes identified by City staff such as removal of a diversion structure were also changed in the model.

With the peaking factor method, HYDRA splits average flows at diversions rather than peak flows. To use the flow split information from previous modeling, it was necessary to develop new rating curves for each of the diversions to divide average inflow rather than peak inflow. Diversion rating curves are presented in Appendix E. Data from the peak-flow-based rating curves were converted to average flows to be used in HYDRA by back-calculating average flows from peak flows using City standards. The method used to convert peak flows to average flows using City standards is explained further in Appendix E.

Splitting flows at diversions based on average flows instead of peak flows may cause higher peak flows in the pipelines immediately downstream of the diversion compared to the flows computed by splitting peak flows. The reason for possible higher peak flows immediately downstream of the flow diversion is that the average upstream flow is divided between the downstream pipes. Higher peaking factors will be applied where the resulting total average flow in the downstream pipes are lower than the upstream flow (City standards apply higher peak factors to smaller average flows). The conservative peaking effect is most noticeable in pipes carrying small amounts of diverted flow and should be taken into consideration where diversion pipes appear to require improvements.

SEWER SYSTEM CAPACITY DEFICIENCIES

Modeling results were used to identify capacity deficiencies in the existing wastewater collection system and to identify the effects of future development on existing facilities. Gravity sewers, force mains, and pump stations were evaluated for peak flow capacity deficiencies for existing development within the city (Existing Conditions) and for the buildout of the 2035 USB (Buildout Conditions). Figure 5-1 depicts the results of the capacity analysis of existing flows for the existing collection system. Figure 5-2 depicts both the results of the capacity analysis of buildout flows for the existing collection system and the sizing and conceptual alignments/locations of future facilities at buildout.

The following paragraphs describe how capacity deficiencies were evaluated for the various sewer system components under both Existing and Buildout Conditions. Specific performance criteria used to evaluate capacity are discussed in Chapter 4.

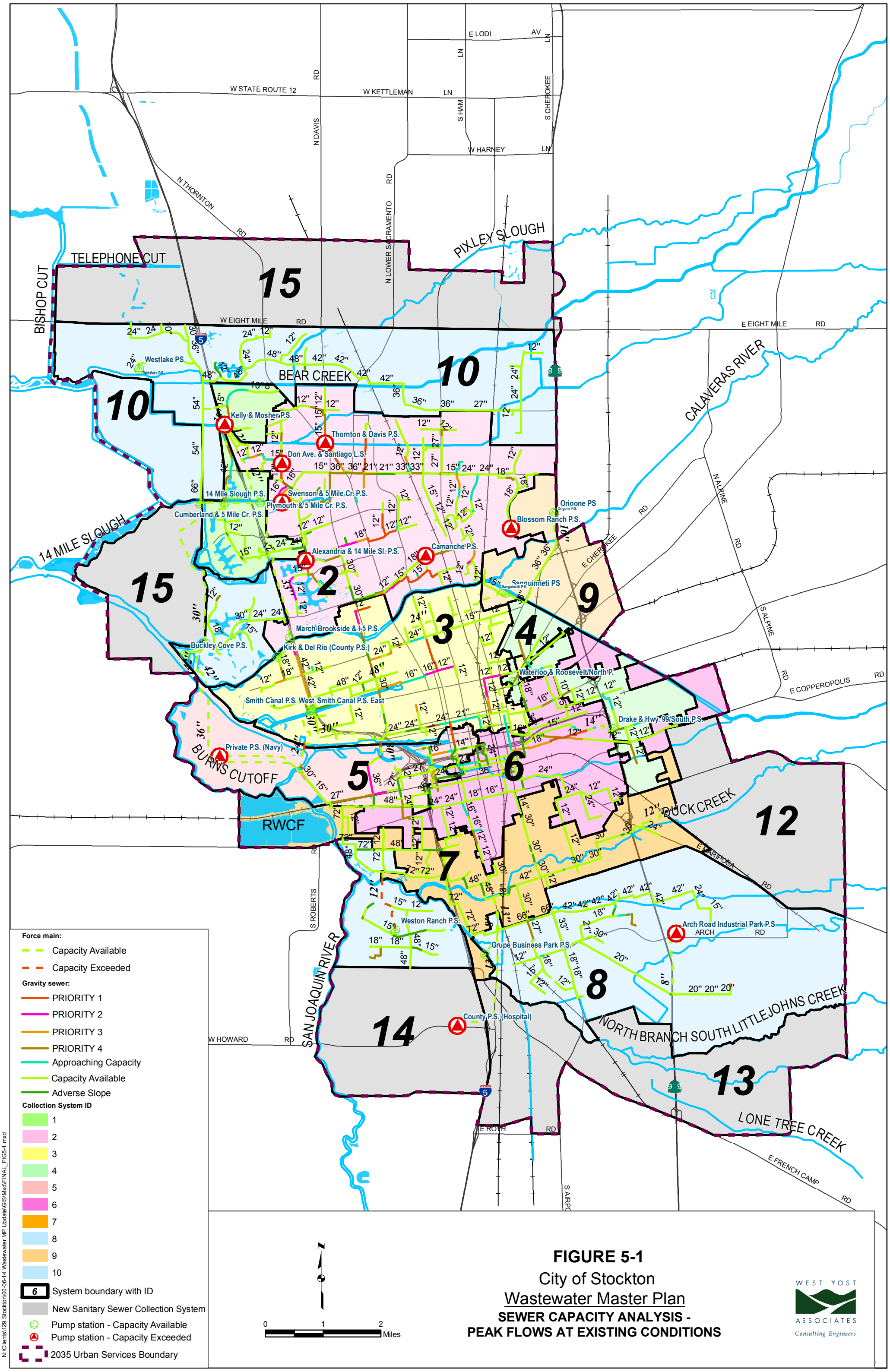

FIGURE 5-1

City of Stockton

Wastewater Master Plan

SEWER CAPACITY ANALYSIS - PEAK FLOWS AT EXISTING CONDITIONS

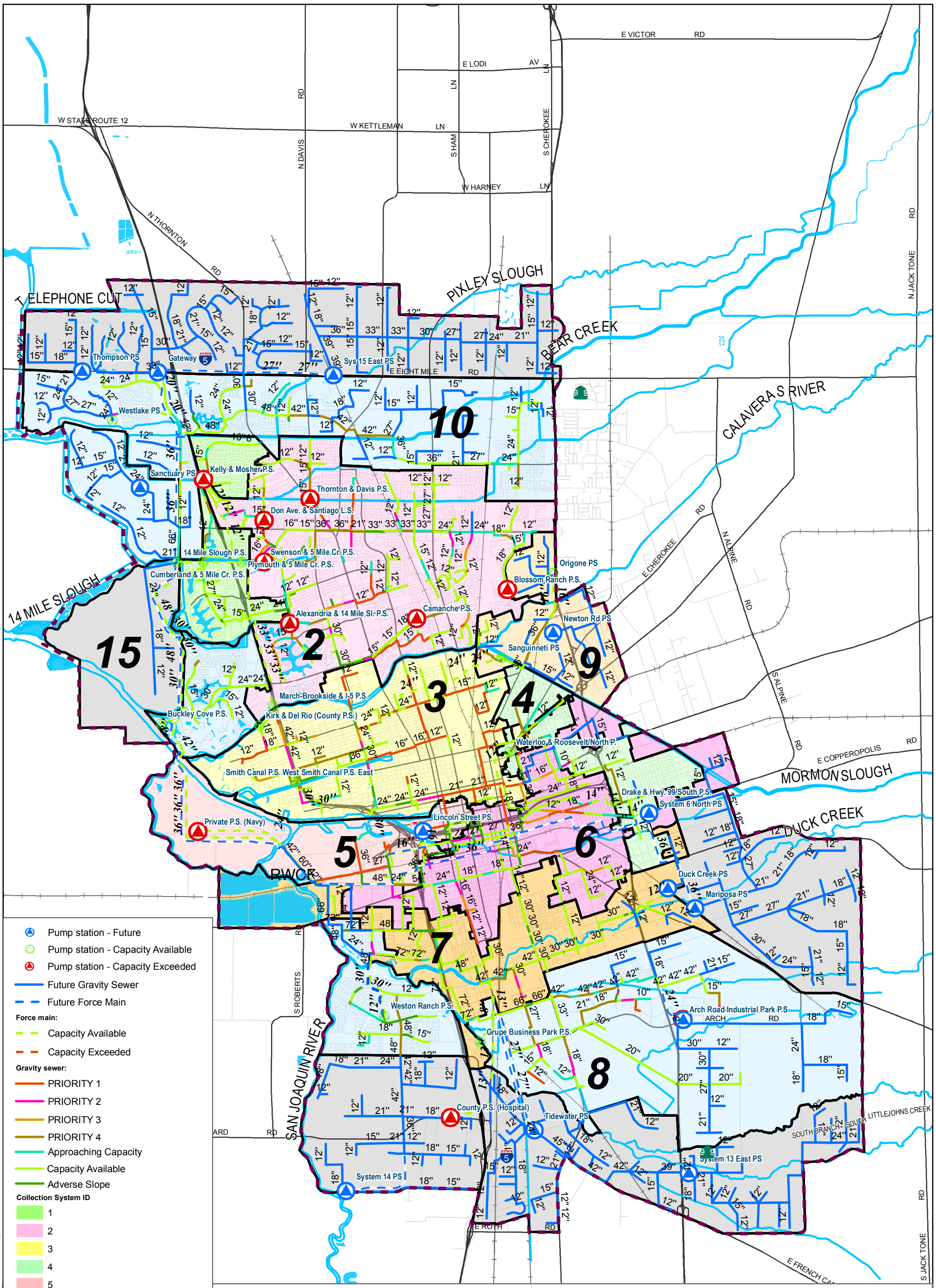

FIGURE 5-2

City of Stockton

Wastewater Master Plan

SEWER CAPACITY ANALYSIS - PEAK FLOWS AT 2035 BUILDOUT CONDITIONS

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Gravity Sewer Deficiencies

Gravity sewers are to be designed for full-pipe gravity flow per City Design Standards. However, the City anticipates that the gravity flow capacity of some existing sewers will be exceeded during relatively brief periods of peak wet weather flow, resulting in surcharging. Moderate, infrequent surcharging is acceptable to the City. However, new development will not be allowed to substantially increase the severity of surcharging in existing sewers. Furthermore, existing capacity deficiencies creating severe surcharging must be corrected.

Model results presented in Chapter 3 (see Figure 3-1) indicate a large quantity of existing sewers subject to surcharging. The rating system presented in Chapter 4 classifies the relative severity of apparent surcharging indicated by the model. It is intended that priority designations be used as a screening-level tool to indicate facilities most in need of further investigation and for estimating aggregate CIP costs on a collection system-wide basis. Specific improvement requirements and costs for individual CIPs should to be determined only after appropriate field investigations and study has been performed. It is anticipated that only a portion of the pipes with predicted surcharging will require improvements.

The priority rating system assigns a priority number ranging from 1 to 4 to gravity sewers exceeding full-pipe capacity. Sewers with estimated HGLs in exceedance of, or in danger of exceeding the ground surface elevation, are deemed at risk of capacity-induced sanitary sewer overflows (CISSO) from manholes along the sewer line. Gravity sewers at risk of CISSOs are designated Priority 1. Priority 1 sewers should be investigated by the City to assess the condition of the sewer before those of other priority ratings. Similarly, the remaining sewers exceeding full-pipe capacity are assigned priority numbers of 2 through 4, corresponding to decreasing risk of CISSOs. Gravity sewers flowing partly-full are not assigned a priority number. Further details about the capacity exceedance criteria and priority numbers are given in Chapter 4, Table 4-1. The results of the capacity analysis of existing condition flows on the collection system are depicted in Figure 5-1 with the assign priority rankings.

The projected effect of peak flows at Buildout on existing gravity sewer capacity is evaluated using the priority rating system as well. The results of the capacity analysis of buildout flows on the existing collection system are depicted in Figure 5-2 including the priority ranking. For buildout conditions, CIPs are recommended for pipelines whose priority ranking has increased as a result of the predicted future development.

The HYDRA software provides two design aid outputs for sizing gravity sewer improvements when the projected peak flows in a sewer exceeds full-pipe flow. The two design aid outputs are: (1) Replacement pipeline information sized to accept the full peak flow while maintaining gravity flow; and, (2) Parallel pipeline information sized to accept the excess flow above the full pipe capacity of the existing pipeline. This Master Plan Update uses the replacement pipeline information for CIP recommendations and for estimating the costs of improvements.

Force Main Deficiencies

Capacity deficiencies for force mains were evaluated by comparison of the predicted fluid velocity in the force main during peak flow to City Standards. As indicated in Chapter 4, City Standards recommend force main velocities in the range of 7 to 9 feet per second. For the purposes of this Master Plan Update, investigations and monitoring are recommended for existing force mains with predicted peak flow velocities beyond 9 feet per second under buildout conditions. Specific force main improvements can only be determined in conjunction with an evaluation of pump station capabilities because force main velocities and friction affect pumping capacity.

The results of the capacity analysis of both existing condition flows and buildout flows on existing force mains within the collection system are depicted in Figure 5-1 and Figure 5-2, respectively. Force mains where flow would exceed 9 ft/sec are indicated as "capacity exceeded" in the subject figures, whereas the remaining force mains flowing within the City Standard are indicated as having "capacity available". Similar to gravity sewers, force mains exceeding the capacity criteria should be investigated further by the City to assess the need for a CIP. Future force mains are sized to maintain an average flow velocity of 7 feet per second under buildout peak flow conditions.

Pump Station Deficiencies

The results of the capacity analysis of both existing condition flows and buildout flows on existing pump stations within the collection system are depicted in Figure 5-1 and Figure 5-2, respectively. Pump stations with predicted peak flows in excess of capacity are indicated as "capacity exceeded" in the subject figures, whereas the remaining pump stations flowing within the firm capacity of the pump station are indicated as having "capacity available". A listing of the firm capacity for each modeled pump station is listed in Chapter 3, Table 3-2. Existing pump stations with predicted peak flows in excess of firm pumping capacity are recommended for monitoring by the City. For the purposes of estimating potential CIP costs for existing pump stations, a rating system is used to indicate a typical level of modifications that may be expected at a pumps station for the level of capacity exceedance. A detailed analysis of individual stations would be required to determine the specific improvements needed at each station.

Future pump stations are sized with a firm pumping capacity that accommodates the predicted peak wet weather flow at buildout of the pump station service area.

CHAPTER 6. COLLECTION SYSTEM PLAN

This Chapter presents the collection system master plan that was developed based on the criteria and assumptions described previously in this report. The master plan includes both extensions to existing trunk sewer facilities and the addition of new facilities. The plan is presented as follows:

- Existing Wastewater Collection System Improvements
- New Wastewater Collection System Boundaries
- Facility Plans for New Wastewater Collection Systems

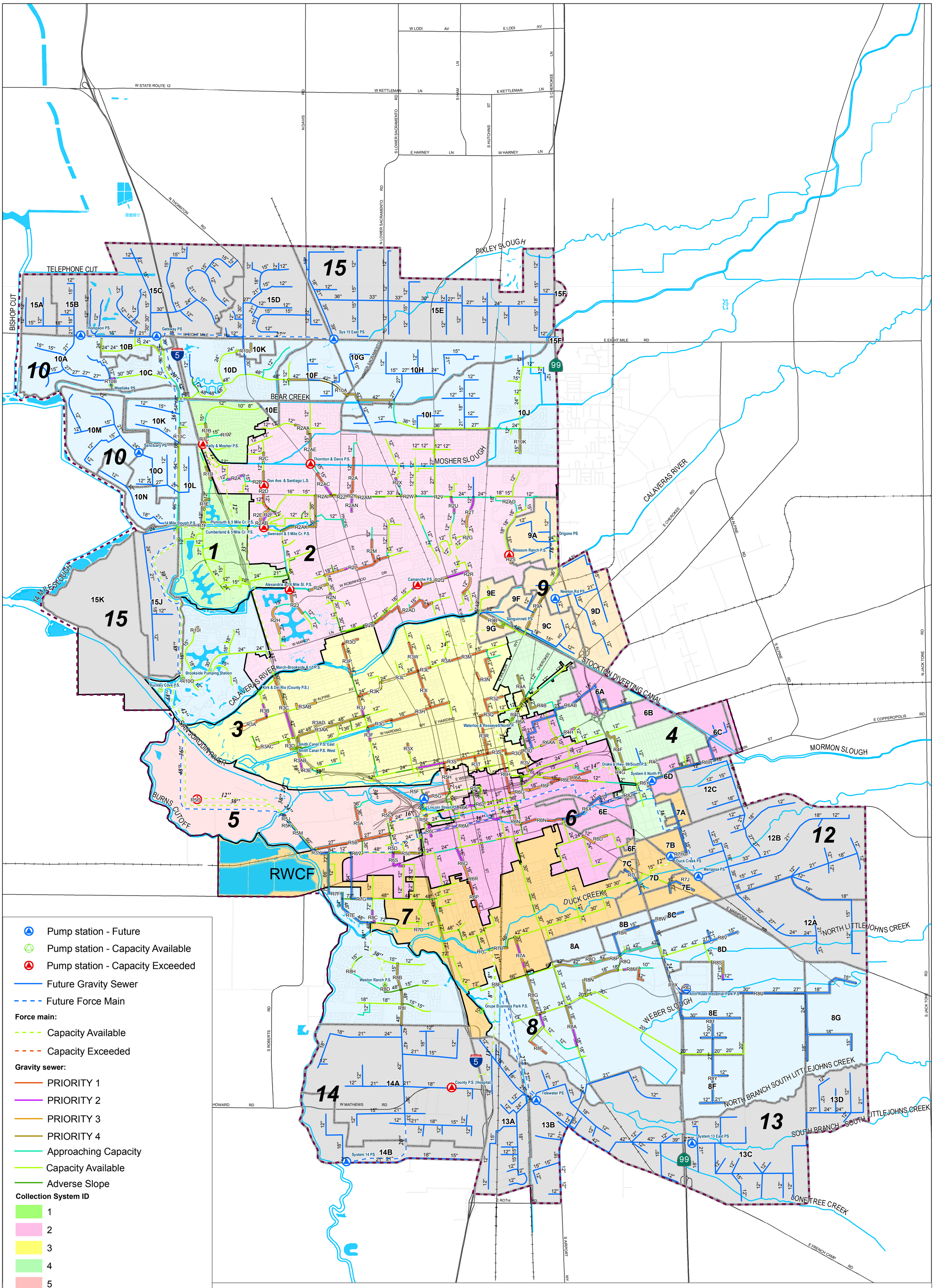
Figure 6-1 illustrates the wastewater collection system improvements needed to accommodate buildout of the 2035 General Plan. It shows conceptual alignments for future trunk sewers, future pump stations, pump stations requiring upgrade, and existing trunk sewers in need of replacement under the anticipated flow conditions.

EXISTING WASTEWATER COLLECTION SYSTEM IMPROVEMENTS

There are a number of existing trunk sewers, force mains, and pump stations requiring improvements under the predicted buildout conditions. Trunk sewers are identified on Figure 6-1 with outlines encircling the subject segment and a label requiring improvements, as well as others referenced in this report. Some of the improvements are required to accommodate infill development. Many of these improvements were also required under the 1990 General Plan, based on previous modeling. Other improvements to the existing system represent future sewer extensions required to serve future development areas. These areas were termed "future growth areas" (FGAs) in the previous master plan. Changes to the FGA boundaries and the addition of new future development areas made it necessary to re-identify the future development areas to avoid potential confusion with the previous FGA designations. The term previously used to identify growth areas has therefore been changed from "Future Growth Areas" (FGAs) to "Future Development Areas" (FDAs). The FDA identifiers and corresponding boundaries are depicted on Figure 6-1. Each FDA identifier consists of a collection system number followed by an alpha character (e.g. the third FDA in System 6 is designated FDA 6C, or simply 6C). Also included on Figure 6-1 are the future trunk sewer extensions required to serve the FDAs. The following sections describe the sewer replacements and extensions needed to accommodate the projected buildout in the existing collection systems.

Existing Trunk Sewer Replacements

This section identifies the modeled gravity trunk sewers in exceedance of full-pipe capacity at buildout therefore triggering the need for further investigation as discussed in Chapter 4. The capacity assessment criteria developed in Chapter 4 assess gravity trunk sewers exceeding full-pipe capacity is implemented as follows. A Priority designation of 1-4 (Priority 1 – worst capacity exceedance; Priority 4 – least capacity exceedance) is assigned to gravity sewer reaches exceeding full-pipe capacity. Gravity sewers not exceeding full-pipe capacity are not assigned a Priority designation. However, these gravity sewers are identified for reference on the large-scale maps as either "Approaching Capacity" if their buildout flows exceed 80% of capacity or as having "Capacity Available" if their buildout flows are at or below 80% capacity.



NOTES:
1. Future pipeline alignments, diameters, and pump station locations shown on this figure are conceptual, and therefore subject to change and refinement through the normal detailed planning and design process.
2. The location of the Gateway Pump Station depicted on this figure is subject to adjustment to the north near Telephone Cut as indicated in Chapter 6.

0 1 2 Miles

FIGURE 6-1

City of Stockton
Wastewater Master Plan
SEWER MASTER PLAN FOR 2035 BUILDOUT

WEST YOST ASSOCIATES
Consulting Engineers

It is recognized that not all trunks identified with the capacity exceedance assessment (i.e. with a Priority ranking) will require replacement. For the purpose of the CIP, only fractional quantities of each Priority total are used for projecting CIP costs (refer to Table 4-5). It is recommended that the City implement a field investigation program to verify the necessity of trunk sewer replacements before initiating CIPs.

Table 6-1 quantifies the lengths of gravity sewers with modeled results indicting exceedance of full-pipe capacity. The subject quantities are grouped by collection system and assessment category. Detailed results, listing each modeled link, its priority ranking, and the proposed replacement diameter are provided in the Appendix F.

No rehabilitation improvements are included in the Master Plan. Such improvements must be identified, scheduled, and funded through ongoing maintenance and operations practices.

Existing Trunk Sewer Extensions

The previous section quantified the number of investigations needed to identify possible trunk sewer replacements at buildout. This section describes trunk sewer segments added to the model for the purposes of either extending sewer service to previously unserved areas or increasing existing capacity by paralleling existing trunks and/or redirecting flow.

Prior to this Master Plan update, the May 2003 City of Stockton Wastewater Collection System Master Plan Update (May 2003 Update) was the most recent planning document that evaluated system capacity. It focused on the eastern portions of the 1990 Urban Services Boundary. The May 2003 Update identified sewer extensions needed for the buildout of the existing collection Systems 6 and 7 service areas, as well as the future collection System 9 service area.

Hydraulic modeling was used in this Master Plan to confirm and update the improvements previously identified in the May 2003 Update. Additionally, the hydraulic model was updated to incorporate recent updates to City planning and to incorporate the construction of new facilities in Collection Systems 9 and 10. The updated future improvements to existing collection facilities are included in the CIP, and are shown on Figure 6-1. Descriptions of required sewer extensions for affected wastewater collection systems are provided below.

<u>Collection System 6 Extensions</u>

There are two planned sewer extensions in Collection System 6 to serve FDAs 6A, 6B, 6C, 6D, and 6E, as shown on Figure 6-1. There are no major trunk extensions planned for FDA 6F due to its proximity to the existing 12-inch diameter trunk on Madrid Drive. The sewer extensions required to serve the indicated FDAs are discussed below.

Table 6-1. Summary of Existing Gravity Trunk Sewers with Capacity Exceedance Assessment

Description	Existing Conditions		Buildout Conditions	
	Number of Reaches[a]	Length, feet	Number of Reaches[a]	Length, feet
WASTEWATER COLLECTION SYSTEM 1				
Priority 1	-	-	-	-
Priority 2	-	-	-	-
Priority 3	1	262	1	262
Priority 4	8	5,591	8	5,591
Adverse Sloped	3	1,982	3	1,982
Subtotals	12	7,835	12	7,835
WASTEWATER COLLECTION SYSTEM 2				
Priority 1	14	17,566	17	19,654
Priority 2	7	7,723	7	8,894
Priority 3	12	11,721	17	14,536
Priority 4	27	30,727	24	28,274
Adverse Sloped	13	11,099	13	11,099
Subtotals	73	78,836	78	82,457
WASTEWATER COLLECTION SYSTEM 3				
Priority 1	8	6,528	41	57,033
Priority 2	8	11,683	8	6,033
Priority 3	10	13,385	12	10,185
Priority 4	14	9,923	17	11,092
Adverse Sloped	12	11,225	12	11,225
Subtotals	52	52,744	90	95,568
WASTEWATER COLLECTION SYSTEM 4				
Priority 1	1	3,602	5	13,253
Priority 2	1	1,191	2	3,804
Priority 3	2	3,804	3	3,745
Priority 4	9	11,334	9	11,791
Adverse Sloped	1	593	1	593
Subtotals	14	20,524	20	33,186
WASTEWATER COLLECTION SYSTEM 5				
Priority 1	4	1,513	11	9,308
Priority 2	2	3,882	1	1,077
Priority 3	3	2,535	1	373
Priority 4	3	1,362	2	989

Table 6-1. Summary of Existing Gravity Trunk Sewers with Capacity Exceedance Assessment

Description	Existing Conditions		Buildout Conditions	
	Number of Reaches[a]	Length, feet	Number of Reaches[a]	Length, feet
Adverse Sloped	14	9,118	14	9,118
Subtotals	26	18,410	29	20,865
WASTEWATER COLLECTION SYSTEM 6				
Priority 1	-	-	5	8,794
Priority 2	-	-	11	10,715
Priority 3	1	1,794	7	11,592
Priority 4	7	7,889	3	3,103
Adverse Sloped	17	14,036	17	14,036
Subtotals	25	23,719	43	48,240
WASTEWATER COLLECTION SYSTEM 7				
Priority 1	-	-	-	-
Priority 2	-	-	4	885
Priority 3	-	-	3	1,741
Priority 4	1	150	4	2,233
Adverse Sloped	15	6,561	15	6,561
Subtotals	16	6,711	26	11,420
WASTEWATER COLLECTION SYSTEM 8				
Priority 1	-	-	5	3,074
Priority 2	-	-	2	710
Priority 3	-	-	16	6,002
Priority 4	7	3,801	52	29,656
Adverse Sloped	11	7,121	11	7,121
Subtotals	18	10,922	86	46,563
WASTEWATER COLLECTION SYSTEM 9				
Priority 1	-	-	-	-
Priority 2	-	-	-	-
Priority 3	-	-	-	-
Priority 4	-	-	3	6,694
Adverse Sloped	-	-	-	-
Subtotals	-	-	3	6,694

Table 6-1. Summary of Existing Gravity Trunk Sewers with Capacity Exceedance Assessment

Description	Existing Conditions		Buildout Conditions	
	Number of Reaches[a]	Length, feet	Number of Reaches[a]	Length, feet
WASTEWATER COLLECTION SYSTEM 10				
Priority 1	-	-	-	-
Priority 2	-	-	-	-
Priority 3	-	-	1	915
Priority 4	5	1,494	16	16,119
Adverse Sloped	2	1,837	2	1,837
Subtotals	7	3,331	19	18,871
WASTEWATER COLLECTION SYSTEM 12				
Priority 1	-	-	-	-
Priority 2	-	-	-	-
Priority 3	-	-	-	-
Priority 4	-	-	-	-
Adverse Sloped	-	-	-	-
Subtotals	-	-	-	-
WASTEWATER COLLECTION SYSTEM 13				
Priority 1	-	-	-	-
Priority 2	-	-	-	-
Priority 3	-	-	-	-
Priority 4	-	-	-	-
Adverse Sloped	-	-	-	-
Subtotals	-	-	-	-
WASTEWATER COLLECTION SYSTEM 14				
Priority 1	-	-	-	-
Priority 2	-	-	-	-
Priority 3	-	-	-	-
Priority 4	-	-	-	-
Adverse Sloped	-	-	-	-
Subtotals	-	-	-	-
WASTEWATER COLLECTION SYSTEM 15				
Priority 1	-	-	-	-
Priority 2	-	-	-	-

Table 6-1. Summary of Existing Gravity Trunk Sewers with Capacity Exceedance Assessment

Description	Existing Conditions		Buildout Conditions	
	Number of Reaches[(a)]	Length, feet	Number of Reaches[(a)]	Length, feet
Priority 3	-	-	-	-
Priority 4	-	-	-	-
Adverse Sloped	-	-	-	-
Subtotals	-	-	-	-
TOTALS FOR ALL COLLECTION SYSTEMS				
Priority 1	27	29,209	84	111,116
Priority 2	18	24,479	35	32,118
Priority 3	29	33,501	61	49,351
Priority 4	81	72,271	138	115,542
Adverse Sloped	88	63,572	88	63,572
Grand Total Deficiencies in Existing Gravity Trunk Sewers	243	223,032	406	371,699

(a) Number of reaches refers to the number of links in the model that meet the identified condition. The number can be used as a rough indication of the relative quantity of gravity trunk segments requiring further investigation to identify specific CIPs.

Fremont Street Trunk Extension

The Fremont Street Trunk extension (see improvement R6A on Figure 6-1) will provide sewer collection service to FDAs 6A and 6B. The System 6 sewer extension for this area begins at the 24-inch diameter Fremont Trunk sewer located near the intersection of East Fremont and North A Street (model node 1704). From this point, a future gravity trunk will extend east on East Fremont to Laurel Street, bear north on Laurel Street to East Flora Street, bear east on East Flora Street to North D Street, bear north on North D Street to East Anita Street, bear east on East Anita Street to North Filbert Street, and then bear north on North Filbert Street to the Stockton Terminal Eastern Railroad right-of-way. The sewer trunk extension will follow the railway right-of-way, cross under Highway 99 to Shaw Road, and then progress south on Shaw Road to East Fremont Street (east of Highway 99). The trunk extension then bears east on East Fremont Street and terminates at a point east of Ellen Street.

In summary, the much of the alignment generally follows neighborhood streets and the Stockton Terminal Eastern Railway right-of-way to avoid major traffic interruptions during construction. A bore-and-jack crossing under Highway 99 is needed.

Mormon Slough Trunk Extension

A collection system extension is required to serve the FDAs located in the eastern portion of System 6 (i.e. FDAs 6C, 6D, and 6E). The identified extension includes the following major components:

- A connection to System 6 into the existing 24-inch diameter trunk on Diamond Street near Mormon Slough (model node 1822).
- A gravity sewer trunk (see improvement R6W on Figure 6-1), with alignment from the connection point to System 6, east along East Charter Way to South David Avenue, south on South David Avenue to Guernsey Avenue, east on Guernsey Avenue and to Golden Gate Avenue (model node 3389).
- A force main (see improvements R6X and R6Yon Figure 6-1), with alignment beginning at the intersection of Guernsey Avenue and Golden Gate Avenue (model node 3389) progressing east along Guernsey Avenue, continuing east under Highway 99, continuing east on Guernsey Avenue to South Oro Avenue, bearing north on South Oro Avenue to East Main Street, and progressing east on East Main Street to the location of the System 6 North Pump Station (model node 3396).
- A future pump station (indicated on Figure 6-1 as the System 6 North Pump Station) with service to FDAs 6C and 6D.
- A gravity sewer trunk (see improvement R6Z on Figure 6-1), with alignment from the future System 6 North Pump Station (model node 3396) progressing east along East Main Street, bearing north through undeveloped land toward Everglad Way, bearing east and then passing under the Stockton Diverting Canal, and then terminating at model node 3730 serving the eastern portion of future development area 6C.

This master plan incorporates by reference the conclusion of the July 2005 Master Plan Revision Report[1] that the 12-inch diameter East Main Street trunk sewer, located west of Oro Avenue (model link 849), can accommodate flows from an interim force main connection from the future System 6 North Pump Station. Hydraulic modeling of the buildout condition conducted for this master plan report confirmed the previous report conclusion that the 12-inch diameter East Main Street trunk sewer has the capacity to accept additional flow. The estimated quantity of additional capacity remaining in the East Main Street trunk at buildout is 0.078 mgd, which equates to approximately 563 DUEs[2]. Applying an 80% discount factor to this quantity for planning purposes per City staff, the subject pipeline can accommodate an additional 400 DUEs. Upon further buildout of upstream areas beyond 400 DUEs, the interim force main connection to the East Main Street trunk would be abandoned and replaced with the previously described force main extending from the future System 6 North Pump Station to the intersection of Guernsey Avenue and Golden Gate Avenue, as previously indicated.

Collection System 7 Improvements and Extensions

Growth development triggers three downstream trunk sewer improvements within the System 7 service area near the RWCF. The three improvements are needed to serve growth in the planned extended service areas of existing Collection Systems 7 and 8 as well as growth in new USB areas (Collection Systems 12, 13, and 14). The improvements needed are:

- A 66-inch parallel sewer from the West 8th Street/Houston Avenue intersection (model node 2000) to the RWCF. The alignment of this improvement is shown as improvement R7F on Figure 6-1.
- A 24-inch parallel sewer from along Houston Avenue from South Fresno Avenue (model node 2004) to West Eighth Street model (model node 2000). The alignment of these improvements is shown as improvement R7E on Figure 6-1.
- A 48-inch sewer trunk from the West Eighth Street/South Fresno Avenue intersection (model node 2336), west along West Eighth Street to Tilley-Lewis Drive, north along Tilley-Lewis Drive, under Highway 4, and terminating at the Tilley-Lewis/Navy Drive intersection (model node 2321). The alignment of these improvements is shown as improvement R7G on Figure 6-1).

[1] *City of Stockton – Wastewater Collection System Master Plan Revisions to Portions of System 6 and System 7*, Thompson-Hysell Engineering, July 28, 2005.

[2] DUEs means "Dwelling Unit Equivalents". The City Standard Design Flow Factor of 300 gpd/DU for single family residential land use was assumed to compute average dry weather flow (ADWF) and a buildout density assumption of 5.0 single family dwelling units per acre was assumed to compute the inflow and infiltration (I&I) portion of flow. DUEs were back-calculated from ADWF and I&I, peaked according to City Standards.

In addition to the improvements needed in the vicinity of the RWCF, the following additional trunk sewer extensions are required in the System 7 service area:

- A future pump station (indicated on Figure 6-1 as the Duck Creek Pump Station) and upstream gravity trunks with service to FDAs 7A and 7B. The alignment of these improvements is shown as improvement R7H on Figure 6-1. The downstream force main, into which the future Duck Creek Pump Station will discharge, has already been constructed.
- A gravity sewer trunk with service to FDA 7C, with alignment from the connection point at the existing Loomis Road trunk (node 1888), north along the Manteca Frontage Road (South Ramp of Highway 99) to node 2427 near East Mariposa Avenue. The alignment of these improvements is shown as improvement R7I on Figure 6-1.
- A gravity sewer connection of FDA 7D to the existing trunk on Pock Lane draining west to Ralph Avenue (node 1916). The size of the required sewer line will be less than 12-inches in diameter and therefore the pipeline is not depicted in Figure 6-1 nor included in the hydraulic model.
- Two branching gravity sewer trunks with service to FDA 7E on either side of East Mariposa Avenue. The alignments extend south to the future development areas from the connection point on the existing East Mariposa Road trunk near Munford Avenue (node 2108). The alignments of these improvements are shown as improvement R7J on Figure 6-1.

Collection System 8 Extensions

Major improvements at the Arch Road Pump Station will be required to accommodate the buildout flows draining from sewer extensions discussed in this section. In fact, buildout flows necessitate the construction of a completely new pump station and redirection of pumped flow. Figure 6-1 therefore indicates that a new pump station is needed at Arch Road rather than indicating that the existing pump station needs improvements. The new Arch Road Pump Station will provide wastewater service to FDAs 8E, 8F, and 8G and will pump flows via a new force main to the Marfargoa Trunk sewer at node 2038. Additional information regarding the Arch Road Pump Station improvements is presented subsequently in the section "Improvements to Existing Pump Stations".

There are five planned sewer extensions in Collection System 8 to serve FDAs 8B, 8C, 8D, 8E, 8F, and 8G, as shown on Figure 6-1. There are no major trunk extensions planned for FDA 8A due to its proximity to the existing trunk on South B Street near Industrial Drive. The sewer extensions required to serve the remaining indicated FDAs are:

- A gravity sewer trunk with service to FDA 8B, with alignment from the connection point to the existing Industrial Drive trunk at the intersection of Pock Lane (node 1952), extending north along Pock Lane and then bearing to the east to node 3751 to the north of McCook Way. The alignment of these improvements is shown as improvement R8R on Figure 6-1.

- A gravity sewer trunk with service to FDA 8C, with alignment from the connection point on the east frontage road to State Highway 99 (node 2040), which drains to the existing Industrial Drive Trunk. The future trunk will extend north along the frontage road and then bear to the east to node 3749. The upper part of the new alignment extends to the north of, and parallel to Clark Drive. The alignment of these improvements is shown as improvement R8W on Figure 6-1.
- A gravity sewer trunk with service to FDA 8D, with alignment from the connection point to the existing Marfargoa Drive trunk (node 2030), extending east and then bearing south east to node 3782. The alignment of these improvements is shown as improvement R8V on Figure 6-1.
- A force main beginning at the future reconstructed Arch Road Pump Station with alignment extending north along the east frontage road of Highway 99, passing under North Little Johns Creek, and discharging to the Marfargoa Trunk sewer at node 2038. The alignment of these improvements is shown as improvement R8X on Figure 6-1.
- A gravity sewer trunk with service to FDA 8E, beginning at the future reconstructed Arch Road Pump Station, with alignment extending south along the east frontage road of State Highway 99, then bearing east on Sunny Road, and then bearing south to node 3415. The alignment of these improvements and associated branched trunks is shown as improvement R8T on Figure 6-1.
- A gravity sewer trunk with service to FDA 8F, with connection to the existing sewer trunk serving the Northern California Youth Authority (NCYA) facility at node 2397. The subject alignment extends south toward the north fork of South Little Johns Creek. The alignment of these improvements and associated branched trunks is shown as improvement R8Y on Figure 6-1. The existing trunk serving the NCYA has adequate capacity to handle approximately 1.2 mgd of peak flow generated in area 8F. However, the 20-inch diameter existing sewer providing service to the NCYA is aligned through airport property, making maintenance activities difficult. In the long-term, the City should consider abandoning the existing 20-inch sewer and redirecting flows from the NCYA to future sewer R8T which will drain to the future reconstructed Arch Road Pump Station.
- A gravity sewer trunk with service to FDA 8G, beginning at the future reconstructed Arch Road Pump Station, with alignment extending east along Arch Road, crossing Austin Road and then branching to serve areas both to the north and the south. The branch to the north will cross the Atchison Topeka and Santa Fe Railroad tracks to serve the area south of East Mariposa Road. The branch to the south will extend both south toward the north fork of South Little Johns Creek and west toward the Burham Road. The alignment of these improvements and associated branched trunks is shown as improvement R8U on Figure 6-1.

Collection System 9 Extensions

Wastewater collection System 9 extends sanitary sewer service to areas of planned growth in eastern Stockton. Currently most of the existing development within the collection System 9 service area is served by septic systems and localized treatment facilities and have not yet been connected to newly constructed/under construction collection system facilities. In general, the backbone trunk alignments and pump stations locations and capacities for collection System 9 have been updated from the previous master plan to reflect both updated development plans for the area and recent construction of wastewater collection facilities.

The new facilities include two pump stations with capacities of approximately 4.5 mgd and 10.5 mgd. The Origone Pump Station in north collection System 9 is located approximately one half mile north of the Calaveras River adjacent to Highway 99. The Sanguinetti Pump Station in south collection System 9 is located on Sanguinetti Lane, adjacent to the Stockton Diverting Canal.

The Origone Pump Station will serve all areas north of the Calaveras River and will deliver flow south to a point adjacent to Highway 99 at the Calaveras River via a recently constructed 16 inch diameter force main. From the south side of the river, a recently constructed 30-inch and 36-inch diameter gravity sewer (the Wilson Way Trunk) will convey flows south along the west side of Highway 99, south along Wilson Way, and across the Diverting Canal. After the Diverting Canal crossing, the sewer diameter increases to 42 inches and the sewer parallels the south levee of the canal to the Sanguinetti Pump Station. All wastewater flows generated within collection System 9 will drain to the Sanguinetti Pump Station. The Sanguinetti Pump Station will then convey these flows via a recently constructed 24 inch diameter force main (System 9 Force Main) to the existing Country Club Trunk sewer with connection at the intersection of North Orange Street and Country Club Boulevard. The System 9 Force Main follows a route generally along Fulton Street, Alpine Avenue, Mendocino Avenue, Manchester Avenue, and Country Club Boulevard.

As development progresses within collection System 9 to the east of State Highway 99, an additional pump station will be required in the vicinity of Newton Road to pump wastewater from the subject area into the newly constructed Wilson Way Trunk.

Specific development plans and collection system facilities planning within collection System 9 are ongoing. The sewer alignments and sizing of future facilities shown in Figure 6-1 are conceptual, and therefore subject to refinement through the normal detailed planning and design process. The conceptual alignments are used for the purposes of both determining future sewer depths and estimating CIP costs.

For the purpose of hydraulic analysis, the collection System 9 service area has been divided into seven FDAs based upon logical sewer facility boundaries (FDAs 9A through 9G – see Figure 6-1). Generalized information about the sewer extensions needed to serve each these areas are indicated below.

- Future wastewater flows generated in FDA 9A will drain to the Origone Pump Station via a future localized collection system.
- Wastewater flows generated in FDA 9B will not connect to the collection system. The subject FDA has been removed in accordance with the approved 2035 General Plan.

- Wastewater flows generated in FDA 9C will drain directly into the Wilson Way Trunk at various points of connection via future localized collection systems. Connection stubs have been provided along the Wilson Way Trunk for connection to future trunks.
- Wastewater flows generated in FDA 9D will drain to a future gravity sewer crossing under State Highway 99 then will flow to the future Newton Road Pump Station via a future trunk line.
- Wastewater flows generated in FDA 9E drain south under the Calaveras River via an existing gravity trunk crossing. After crossing under the river, the trunk sewer connects to the existing Sanguinetti Lane Trunk which conveys flow to the Sanguinetti Pump Station.
- Wastewater flows generated in FDA 9F will drain via a future localized collection system to a future gravity sewer trunk that will cross under the Stockton Diverting Canal. After the canal crossing the future trunk will connect to the existing Sanguinetti Lane Trunk which flows to the Sanguinetti Pump Station.
- As with FDA 9E, wastewater flows currently generated in FDA 9G drain to the Sanguinetti Pump Station.

Collection System 10 Extensions

Shima Tract Area

In accordance with the previously prepared System 10 Master Plan Revision No. 7, Shima Tract has been planned to be served by adding the area to System 10. This part of the System 10 service area located in Shima Tract is bounded to the north by Disappointment Slough and Pixley Slough, to the east by Interstate Highway 5 (I-5), to the south by Five Mile Slough, and to the west by Fourteen Mile Slough. The area incorporates approximately 2,000 acres and is proposed to tie into the City's existing Northwest Trunk sewer running parallel to I-5. The System 10 service area in Shima Tract has been sub-divided into four smaller wastewater FDAs for the purpose of describing the wastewater master plans for these areas. Each FDA is described below.

- **FDA 10L** – This area will be served by gravity sewers draining to the existing Northwest Trunk sewer.
- **FDA 10M** – This area will be served by gravity sewers draining to the existing Northwest Trunk sewer. To maintain gravity flow in the Northwest Trunk at buildout peak flow, the point of connection for FDA 15I must be downstream of the 54-inch diameter portion of the Northwest Trunk (along the 66-inch diameter portion of the trunk).
- **FDA 10N** – This area will be served by gravity sewers draining to the existing Northwest Trunk sewer. The point of connection to the Northwest Trunk will be into the 66-inch diameter reach of the trunk located just upstream of the Fourteen Mile Slough.
- **FDA 10O** – This area will be served by gravity sewers draining to the future Sanctuary Pump Station. The future pump station will lift flow, with no planned force main, to a future gravity trunk sewer which will convey flow through FDA 15I to the existing Northwest Trunk sewer. Alternatively, if more detailed analysis determines there is sufficient grade available, this area may be able to be served by gravity sewers without the need for the lift station.

Upgrades to Existing Pump Stations

Table 6-2 summarizes the existing pump stations that must be upgraded to accommodate buildout flows. The locations of the pump stations are shown on Figure 6-1.

NEW WASTEWATER COLLECTION SYSTEM BOUNDARIES

Most of the proposed trunk sewers define a number of new groups of service areas that will be served by independent trunk sewer systems. New wastewater collection system boundaries were defined by considering the topography and geography (major waterways) of the future service areas.

The new wastewater collection systems are generally described in the following paragraphs, and are illustrated on Figure 6-1.

Collection System 11: A System 11 service area is currently undefined for this Wastewater Master Plan. The System 11 designation is reserved for future master plan updates.

Collection System 12: The System 12 service area extends east from East Mariposa Road and is bound to the north by the Stockton Diverting Canal, Gillis Road, and State Highway 4 (Farmington Road) and to the east by the Kaiser Road.

Collection System 13: The System 13 service area extends south from the French Camp Slough, the Stockton Airport and the north fork of South Little Johns Creek at its northern boundary to French Camp Road, Durham Road, and Roth Road at its southern boundary. The area is bound by Interstate Highway 5 (I-5) at its western boundary and Austin Road at its eastern boundary.

Collection System 14: The System 14 service area includes all areas within the USB west of I-5, east of the San Joaquin River, and south of Weston Ranch.

Collection System 15: The System 15 service area consists of two noncontiguous areas located in northern and northwestern Stockton. The northern area extends west of I-5 to Bishops Cut (the western limit of the USB) and includes all areas within the USB north of Eight Mile Road. The north-western area is located south of the Shima Tract and is bound by Fourteen Mile Slough to the north, Fourteen Mile Slough and the San Joaquin River to the west, Buckley Cove to the south, and existing wastewater collection Systems 1 and 10 to the east.

FACILITY PLANS FOR NEW WASTEWATER COLLECTION SYSTEMS

Future service areas that cannot be accommodated in the existing collection systems require new trunk sewers and pump stations to convey wastewater to the RWCF. These planned facilities are illustrated on Figure 6-1. USGS maps and aerial images were used to select facility locations. The alignments were planned to maximize the advantage of available grade due to topography. For this level of planning the new trunks were aligned along either existing road rights-of-way or conceptual arterial road rights-of-way identified by the preliminary plans submitted by developers and discussions with City staff. Construction in road rights-of-way will facilitate maintenance by providing all weather access and is typical for modern collection system facilities. It also minimizes land acquisition costs.

Table 6-2. Existing Pump Station Capacity Assessment at Buildout Conditions.

Pump Station Identifier	Wastewater Collection System(s) Served	Firm Capacity, mgd	Buildout Peak Flow, mgd	Ratio of Peak Flow/Firm Capacity	Recommended Action[a]
Plymouth & 5 Mile Cr. P.S.	2	0.65	1.56	2.42	Construct new pump station with required additional capacity
Cumberland & 5 Mile Cr. P.S.	2	5.33	4.58	0.86	No Upgrade
Kelly & Mosher P.S.	3	1.44	2.72	1.89	Replace pumps and controls
Thornton & Davis P.S. (Stonewood)	3	1.22	2.89	2.37	Construct new pump station with required additional capacity
Don Ave. & Santiago L.S.	3	0.79	2.74	3.44	Construct new pump station with required additional capacity
Swenson & 5 Mile Cr. P.S. (North P.S.)	3	16.3	28.3	1.74	Replace pumps and controls
Blossom Ranch P.S.	3	0.65	1.19	1.85	Replace pumps and controls
Camanche P.S.	3	1.20	2.42	2.01	Construct new pump station with required additional capacity
Alexandria & 14 Mile Sl. P.S. (Quail Lake)	3	1.97	2.81	1.43	Replace pumps and controls
March-Brookside & I-5 P.S.	3	1.15	1.60	1.39	Replace pumps and controls
Kirk & Del Rio (County P.S.)	3	1.01	2.66	2.64	Construct new pump station with required additional capacity
Smith Canal P.S. (East&West)	2, 3, 9	41.0	60.8	1.48	Replace pumps and controls
Waterloo & Roosevelt/North P.	4	2.73	3.46	1.27	Replace pumps and controls
Drake & Hwy. 99/South P.S.	4	3.54	3.16	0.89	No Upgrade
Private P.S. (Navy)	5	1.01	1.90	1.89	Not a City facility
Weston Ranch P.S.	8, 14	10.5	26.3	2.50	Upgrade pump station to meet required additional capacity.
Arch Road Industrial Park P.S	8	0.46	12.3	26.7	Future Replacement Pump Station
Grupe Business Park P.S.	8	0.87	0.40	0.46	No Upgrade
County P.S. (Hospital)	8	1.08	-	-	Remove from service, redirect flows to gravity sewers.
Origone PS	9	4.50	7.01	1.56	Replace pumps and controls
Sanguinetti PS	9	10.5	15.2	1.45	Replace pumps and controls
Brookside Pumping Station	10	7.69	6.44	0.84	No Upgrade
Buckley Cove P.S.	10	0.30	0.09	0.30	No Upgrade
Westlake P.S.	10	4.40	4.00	0.91	No Upgrade
14 Mile Slough PS	10	14.0	71.5	5.11	Add pumps to existing pump station; construct additional pump station with required additional capacities.

Note: Capacity assessment is based upon assumptions and factors presented in the Master Plan. In some areas, these assumptions may be conservative. This list is used for the basis of predicting city-wide costs. Actual improvements needed at a particular pump station must be determined through a detailed flow monitoring study and facility evaluations. Rehabilitation needs may also be present at stations not listed.

In general the pipeline alignments, diameters, and pump station locations shown on Figure 6-1 are conceptual, and therefore subject to refinement through the normal detailed planning and design process. Many of the future trunk sewers are shown where roadways do not currently exist. For example, the trunk sewer serving the north east portion of System 15 is shown along a conceptual arterial road right-of-way within FDA 15D. As each portion of this village area is planned, a trunk sewer route will need to be established that is compatible with the village design criteria, without adding significant length (and therefore depth) to the trunk sewer. Where trunk sewers cannot be constructed within road rights-of-way, a dedicated easement with all-weather access for maintenance is required.

The collection system plan includes the primary (backbone) trunk sewers serving each System. In addition, branch sewers are included in the plan to indicate how outlying service areas not adjacent to the backbone system will be connected. Per direction from City staff, sewers with diameters of 18 inches and larger are classified as backbone trunk sewers and are included in developing CIP cost estimates. Branch sewers (less than 18 inches diameter) are used for the purposes of both determining connectivity to future development areas for estimating required sewer depths only and are not included in CIP cost estimates.

Notable features of the planned major wastewater collection system facilities serving each of the new Systems are described in the following paragraphs. Quantities and estimated costs are provided in Chapter 8 of this report.

Collection System 12 Facilities

Future Collection System 12 trunk sewers drain to the future Mariposa Pump Station. From the Mariposa Pump Station, System 12 flow is pumped west to the RWCF, through developed areas of Stockton. Twin 36-inch force mains are recommended along this alignment to accommodate lower flows in early years while maintaining adequate velocities, and to facilitate maintenance of the force main in the future. The System 12 service area has been sub-divided into FDAs for the purpose of describing the wastewater master plans for these areas. Each FDA is described below.

- **FDA 12A** – This future development area is located within the southern portion of the System 12 service area. The area is bounded by East Mariposa Road borders along the west and south boundaries. FDA 12A generally follows the first phase (Phase I) of development based upon preliminary plans submitted by the developer. If this area develops before areas in south System 8, the area could be served on an interim bases by draining to the existing 42-inch diameter System 8 trunk line located at the eastern end of Marfargoa Drive. Further System 12 development and/or significant System 8 development to the south would necessitate the construction of the Mariposa Pump Station and accompanying downstream twin force mains to the RWCF. Flows from FDA 12A could be redirected to the pump station as needed once these downstream pumping and conveyance facilities are constructed.
- **FDA 12B** – This future development area is located to the north of FDA 12A. The area is bounded by tracks of the Burlington Northern Santa Fe Railroad to the west, State Highway 4 (Farmington Road) to the north, and Kaiser Road to the east. The area will be served by a system of gravity sewers draining to the future Mariposa Pump Station

- **FDA 12C** – This future development area is located north of Highway 4 and is bounded by East Main Street to the north and Gillis Road to the east. The Mormon Slough divides FDA 12C in two, a northern and southern part. The area to the north of Mormon Slough will drain to the southern area by a single trunk line crossing. All of FDA 12C will be served by a system of gravity sewers draining into FDA 12B via a single trunk line crossing Highway 4.

Collection System 13 Facilities

The Collection System 13 service area is located south of collection System 8 and is bounded to the west by I-5, to the south by East Roth Road, South Airport Way, and East French Camp Road, to the east by Austin Road, Burnham Road, and Kaiser Road, and to the north mostly by the north fork of Little Johns Creek except for an area that extends north beyond the creek to the airport. Two future pump stations will serve the System 13 service area. One of the pump stations, the System13 East Pump Station, is located just east of State Highway 99 (Highway 99). The System 13 East Pump Station will receive wastewater flow from a trunk sewers serving all of the System 13 service area located to the east of Highway 99. The pump station will convey the flow via force main under the Highway 99 to the future trunk located west of the highway. The other pump station in System 13, the Tidewater Pump Station, will pump the entire System 13 flow through future twin force mains to the existing System 8 trunk sewer. Beginning at the Tidewater Pump Station, the twin force mains will run north along the Union Pacific Railroad right-of-way and connect to the existing System 8 66-inch diameter trunk sewer on Industrial Drive.

The System 13 service area has been sub-divided into three smaller wastewater FDAs for the purpose of describing the wastewater master plans for these areas. Each FDA is described below.

- **FDA 13A** – This area is located in the western portion of the System 13 service area. The area is bounded by I-5 to the west, French Camp Slough to the north, Union Pacific Railroad right-of-way to the east, and East Roth Road to the south. Wastewater flow from the area will drain north to East French Camp Road, and then flow east under the Union Pacific Railroad tracks to the future Tidewater Pump Station Southern Pacific Railroad tracks run north-south through FDA 13A, dividing the area into a western and eastern portion. A single gravity trunk crossing of the railroad to East Wyman Road will allow wastewater to drain from the western area to the eastern area.
- **FDA 13B** – This area is bounded by Union Pacific Railroad tracks to the west and Highway 99 to the east. All wastewater generated within FDA 13B is collected by a series of trunks and smaller collector sewers and drains to the Tidewater Pump Station. Wastewater flow pumped from System 13 East Pump Station is intercepted by a FDA 13B trunk line that extends to the west side of Highway 99. Two north-south spurs of the Union Pacific Railroad run through the FDA 13B area. The confluence of the north and south branches of Little Johns Creek and Lone Tree Creek with the French Camp Slough is located within the northern portion of the service area. A single trunk sewer crossing of the French Camp Slough will allow the northern portion of the service area to drain to the southern portion and then be directed to the Tidewater Pump Station.

- **FDA 13C** – This area is located to the east of State Highway 99 and bounded to the north by the north branch of South Little Johns Creek and to the east by Austin Road. The area will be served by a system of gravity sewers draining to the future System 13 East Pump Station to be located just east of Highway 99. Wastewater will be pumped from the pump station to the west under State Highway 99 via force main and discharge into the future FDA 13B trunk that is to extend to a point just west of the highway. The south fork of Little Johns Creek divides FDA 13C into northern and southern areas. The northern portion of the service area extends to, and includes the landfill. Though the landfill area is included in the computation of wastewater flows, sewer lines are not planed for extension into the landfill site. The northern portion of FDA 13C will drain to a trunk sewer that will run under the creek and then flow west to the System 13 East Pump Station The FDA 13C area south of the creek extends east to Austin Road. Wastewater from this area will drain to the System 13 East Pump Station. Lone Tree Creek flows west through the southern portion of FDA 13C. The master plan includes a single gravity trunk crossing to serve the area south of Lone Tree Creek.
- **FDA 13D** – This area is located east of Austin Road and is bounded to the north by the north branch of South Little Johns Creek, to the south by the south branch of South Little Johns Creek and to the east by Burnham Road. The area will be served by a system of gravity sewers flowing to a single crossing to the west under Austin Road and then connecting to the future gravity trunk located south of the landfill.

Collection System 14 Facilities

Collection System 14 is located to the south of the Weston Ranch development. A portion of the wastewater flows generated in System 14 will drain to an existing sewer at the southern boundary of Weston Ranch which flows to the existing Weston Ranch Pump Station. Grade limitations necessitate pumping wastewater generated in the southern-most areas of System 14. Therefore this master plan includes a future pump station to be located near West Bowman Road to pump flows via twin force mains north along South Wolf Road to the future gravity sewer. Significantly larger pumping equipment will be needed at the Westin Ranch Pump Station to accommodate wastewater flows from System 14. By inspection of the design drawings for the existing station, it is apparent that the existing facility was designed to accommodate a significant increase in flows.

Combined build-out flows from Systems 13 and 14 pumped from the Weston Ranch Pump Station, plus flows from the extended areas of Systems 7 and 8 will create excessive flows in existing trunks to the north from Houston Avenue down to the RWCF. Parallel pipeline improvements are therefore planned in this area, as noted earlier in this Chapter.

Peak flows from the buildout of System 14 may necessitate an 18-inch diameter sewer to parallel the existing 48-inch diameter trunk running along EWS Woods Boulevard and William Moss Boulevard upstream of the Westin Ranch Pump Station. The need for this parallel sewer should be reevaluated by flow monitoring as the System 14 service area builds out.

The System 14 service area has been sub-divided into two smaller wastewater FDAs for the purpose of describing the wastewater master plans for these areas. Each FDA is described below.

- **FDA 14A** – This area includes all of the System 14 service area with adequate topological relief to drain to the existing 48-inch diameter trunk on EWS Woods Boulevard. The area includes all but the southern most portions of System 14. Currently, the County Hospital is served by the County Hospital Pump Station. When the future trunk sewer is constructed on South Wolfe Road, flows to the County Hospital Pump Station will be redirected to the future trunk and the pump station will likely no longer be needed. The depth of existing sewers on County property will determine whether or not the pump station may be eliminated.
- **FDA 14B** – This area includes the southern portion of the System 14 service area with inadequate topological relief to drain to the existing 48-inch diameter trunk on EWS Woods Boulevard. Wastewater generated in this area will drain through a system of future trunks and collectors to a future System 14 Pump Station located along West Bowman Road. The pump station will send flows via force main to the planned trunk on South Wolfe Road.

Collection System 15 Facilities

Collection System 15 boundaries are indicted on Figure 6-1. A total of three new pump stations will be required to serve various areas within System 15. One of these pump stations (the Thompson Pump Station) will convey wastewater into existing System 10 trunks. The other two pump stations (Gateway Pump Station and System 15 East Pump Station) will pump flow via force mains directly to the 14 Mile Slough Pump Station. The Gateway Pump Station and the System 15 East Pump Station force mains will combine just north of Bear Creek and parallel the existing Northwest Trunk down to the 14-MSPS. The segment of force main downstream of the System 15 East Pump Station along Eight Mile Road to Trinity Parkway will be twinned to accommodate lower flows in early years while maintaining adequate velocities, and to facilitate maintenance of the force mains in the future. A standby tee connection and discharge to the Trinity Parking trunk sewer should be installed with this force main to facilitate force main maintenance.

Phase 2 improvements at the 14-MSPS are sized to convey the combined flows from Systems 1, 2, and 10. Additional improvements will be required to the 14-MSPS beyond Phase 2 improvements to convey the additional flow produced by System 15. Additionally, flows in excess of those anticipated for the existing System 10 will trigger the need for a second parallel force main from the 14-MSPS to the south side of the San Joaquin River. This new pipeline will parallel the Westside Interceptor, crossing the Stockton Ship Channel, Rough and Ready Island, and the San Joaquin River. The last segment of this interceptor will be a large diameter gravity sewer from the River to the RWCF.

The System 15 service area is divided into two non-contiguous parts. Detailed wastewater master plans for each of these areas are described below.

Area North of Eight Mile Road

The part of the System 15 service area located north of Eight Mile Road and is bounded by Bishop Cut to the west and Highway 99 to the east, except for two small areas that extend just east of Highway 99. The area is largely undeveloped except for a golf course to the west of Interstate Highway 5 (I-5), The Reserve at Spanos Park. The System 15 service area north of Eight Mile Road has been sub-divided into five smaller wastewater FDAs for the purpose of describing the wastewater master plans for these areas. Each FDA is described below.

- **FDAs 15A & 15B** – These areas are bounded by Eight Mile Road to the south, Bishop Cut to the west, Telephone Cut to the north, and the golf course, The Reserve at Spanos Park (RSP) to the east. The areas generally slope from east to west. The areas will be served by a system of gravity sewers draining to a future pump station to be located near the area's south-west corner. The pump station will pump wastewater to a future force main that will run east along Eight Mile Road and terminate at an existing 24-inch diameter System 10 gravity trunk located near the intersection of Eight Mile road and Regatta Lane. There is potential to reduce the size of the required pump station for FDA 15B by sending a portion of the wastewater generated by this area to planned sewers in System 10 to the south (the Westlake Development area). However, the planned sewers would require upsizing along Westlake Drive to the Westlake Pump Station.
- **FDA 15C** – This area is bounded by Eight Mile Road to the south, the west edge of the RSP golf course to the west, the 2035 USB running parallel to Eight Mile Road approximately one mile to the north, and FDA 15D near Thornton Road to the east. I-5 divides FDA 15C into two parts: a western part and an eastern part. Wastewater flow from the eastern part of FDA 15C will drain across I-5 to the trunk sewers in western part. All wastewater flow from System 15C will drain to a required future pump station to be located near Eight Mile Road to the west of I-5. The pump station will pump a portion of the wastewater to an existing 36-inch trunk on Trinity Park Drive. The remaining wastewater will be pumped to the 14-Mile Slough Pump Station (14-MSPS).

  The above description of sewer service to FDA 15C was based upon preliminary layout information received from developers described earlier in this section. Since then, more detailed development plans for FDA 15C have been reviewed by the City. The updated plans optimize capacities that remain in existing trunks on A.G. Spanos Boulevard at the Westlake Pump Station which result in a decreased pumping requirement at the future Gateway Pump Station (3.0 mgd firm capacity versus 7.47 mgd needed for the preliminary layout basis). The updated plans shift the location of the Gateway Pump Station shown on Figure 6-1 and Plate SS01 to the north near Telephone Cut. Other adjustments to service of FDA 15C include:

  - serving a portion of the south-west part of FDA 15C with the future gravity sewer planned on Westlake Drive;
  - serving a portion of the north east corner of FDA 15C by a gravity connection to the future sewer on Thornton Road;

— adding an additional trunk sewer crossing of Interstate Highway 5 to the north of Telephone Cut; and,

— modifying alignments of various trunk lines within FDA 15C from those shown in Figure 6-1 and Plate SS01 to accommodate updated street alignments and the new location of the Gateway Pump Station.

Finally, because of the lower flows to the future Gateway Pump Station, all pumped flows can be accommodated by the existing 30-inch diameter trunk on Trinity Parkway near Eight Mile Road.

A master plan for future facilities has been approved for FDA 10A[3]. Some of the future sewers along Westlake Drive will require upsizing (i.e. larger diameters than previously approved) to accommodate wastewater flows generated by the adjustments to FDA 15C. Table 6-3 lists the future sewers requiring upsizing.

Table 6-3. Future Sewer Upsizing Requirements Along Westlake Drive

Approved Master Plan Pipe IDs(1)	Approved Master Plan Diameter(1), inches	Master Plan Update Pipe ID(2)	Master Plan Update Diameter, inches	Sewer Length, feet
S24A, S24, S25	15	3494	24	2,000
S27, S31	24	2605	24	620
S32, S33	24	2614	24	695
S22	24	2609	27	565
S34, S35	24	2615	27	880
S36, S37, S38, S39	24	2597	27	1,230
S40, S41, S42	24	2616	27	1,500
S43, S59	24	2721	30	485
S60, S61	24	2607	30	915
S62	24	2578	30	366

(1) See *Master Plan Drawing 0859X(revised)* approved September 14, 2007.
(2) See Plate SS01

The Westlake Pump Station currently under construction is designed for a firm capacity of 4.4 mgd[4], which will accommodate the upstream peak flow projection of 3.5 mgd[5] to the pump station.

[3] *Westlake Master Plan Drawing 0859X(revised)* approved September 14, 2007.

[4] Correspondence from Stantec Engineering, January 22, 2008.

- **FDA 15D** – This area is bounded by Eight Mile Road to the south, FDA 15B near Thornton Road to the west, the 2035 USB running parallel to Eight Mile Road approximately one mile to the north, and tracks of the Union Pacific Railroad (UPRR) to the east. The area will be served by a system of gravity sewers draining to an existing 42-inch trunk (the North Stockton Interceptor) in System 10. The point of connection to the North Stockton Interceptor is at the intersection of Thornton Road and Whistler Way.
- **FDA 15E** – This area is bounded by Eight Mile Road to the south, tracks of the Union Pacific Railroad (UPRR) to the west, the 2035 USB running parallel to Eight Mile Road approximately one mile to the north, and Highway 99 to the east. The area will be served by a system of gravity sewers draining to a required future pump station to be located near Eight Mile Road to the east of the UPRR tracks. The future pump station wastewater to the 14-MSPS through a future twin force main that will run west on Eight Mile Road to Trinity Park Drive. At Trinity Park Drive, the twin force mains will combine to a single force main and continue south, parallel to a future force main conveying flows from the Gateway Pump Station The parallel force mains on Trinity Park Drive will combine to a single force main just north of Bear Creek and run parallel to the Northwest Trunk to the 14-MSPS. A standby tee connection and discharge to the Trinity Parking trunk sewer should be installed with this force main to facilitate force main maintenance.
- **FDA 15F –** Consists of two relatively small non-contiguous development areas bordering Highway 99 to the east. The areas will be served by gravity sewer connections draining west crossing under Highway 99 to future trunks in FDA 15E.

Wright/Elmwood Tracts Area

The part of the System 15 service area located within the Wright Tract and the Elmwood Tract areas is bounded by the Fourteen Mile Slough to the north, the Stockton Deep Water Channel to the west, Buckley Cove to the south, and the Ten Mile Slough to the east. The areas to the west are to develop as a regional park, and City staff have indicated that the area is expected to generate very little, if any, wastewater flow to the collection system. Thus these areas are not included as wastewater flow contributors to the collection system. The remaining area is to be built out as very low density residential development (residential estate) which will drain to the 14-MSPS. The System 15 service area in Wright/Elmwood Tracts has been sub-divided into two smaller wastewater FDAs for the purpose of describing the wastewater master plans for these areas. Each FDA is described below.

- **FDA 15J** – This area will be served by a system of gravity sewers draining to the 14-MSPS.
- **FDA 15K** – City staff have indicated that this area is to build out without significant wastewater contribution. Extensions of major trunks sewers to the wastewater collection system are not provided in this master plan to serve this area.

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[5] City of Stockton Wastewater Master Plan Revision #6, November 2005, by West Yost Associates.

Future Pump Stations

Subsequent sections have included commentary on both the locations and service areas for the future pump stations needed to accommodate buildout flows. Table 6-4 summarizes the future pump stations that must be constructed to accommodate buildout flows and their required firm capacities. The locations of the pump stations are shown on Figure 6-1.

Table 6-4. Future Pump Stations and Required Firm Capacities

Pump Station Identifier	Wastewater Collection System Served	Firm Capacity Required, mgd
System 6 North PS	6	2.21
Duck Creek PS	7	2.49
Arch Road Industrial Park PS	8	12.3
Lincoln Street PS	15	5.23
Newton Rd PS	9	5.28
Mariposa PS	12	23.54
System 13 East PS	13	17.34
Tidewater PS	13	31.12
System 14 PS	14	8.67
Thompson PS	15	2.26
Gateway PS	15	7.47
System 15 East PS	15	15.46
Sanctuary PS	10	4.48

CHAPTER 7. WASTEWATER TREATMENT

Wastewater treatment for the City is currently provided by the Regional Wastewater Control Facility (RWCF), a single treatment and disposal facility located along the San Joaquin River on the Southwestern edge of the city. The RWCF treats domestic and industrial flows from a population of approximately 321,000[1] within the City of Stockton (City) urban services area. Tertiary treated effluent is discharged to the San Joaquin River (SJR) at a location within the legal boundaries of the Sacramento-San Joaquin River Delta (Delta) and approximately 1.5 miles upstream of the Stockton Deep Water Ship Channel (DWSC). Discharge to the SJR will continue year-round. This analysis of wastewater treatment and disposal issues is presented in the following subsection:

- Projected Wastewater Flows and Loads
- Existing Treatment and Disposal Facility
- Discharge Permit Requirements
- Facilities to Accommodate Projected Flows and Permit Requirements

PROJECTED WASTEWATER FLOWS AND LOADS

Projected wastewater flows and loads to the RWCF at Buildout conditions are summarized in the following Table 7-1.

Domestic/commercial flow projections for average day dry weather conditions shown in Table 7-1 are based upon a projected buildout population of 580,717 persons[2] and a per capita flow contribution of 112.0 gallons per capita per day[3]. Domestic/commercial BOD and TSS contributions at average conditions were based upon per capita contributions of 0.31 and 0.30 lbs per capita per day, respectively. Average ammonia loads are based upon the current observed influent concentration of 25 mg/l. Peak flows and loads in the table are based upon the use of existing observed peaking factors applied to the projected average daily loading conditions.

EXISTING TREATMENT AND DISPOSAL FACILITIES

The existing RWCF has been expanded and adapted to provide for all of the wastewater treatment and disposal needs of the current service area.

Additionally, the design and construction of an initial capital improvements project will be needed to provide additional capacity and treatment levels to comply with the City's current NPDES Permit No. CA0079138 which was issued on May 1, 2002. The flow and load capacity of the plant that will result from this project is summarized in the following Table 7-2. Figure 7-1 shows the existing treatment and disposed facilities.

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[1] See Table 2-1
[2] See Table 2-2
[3] See Table 2-5

Table 7-1. Projected Wastewater Flows and Loads Generated in the Master Plan Service Area at Buildout Conditions[a]

Parameter	Units	Average Day Dry Weather	Average Day Max Month	Peak Day Maximum Month	Peak Hour Wet Weather
Flow	mgd				
Domestic/Commercial		65	78	126.8	164.1
Wet Industrial		5.0	7.2	11.5	12.6
Recycle		1	1.1	0.9	2.5
Totals		71.0	86.3	139.2	179.2
BOD	lbs/day				
Domestic/Commercial		180,000	180,000	180,000	NA
Wet Industrial		24,000	62,000	24,000	NA
Recycle		0	12,000	16,000	NA
Totals		204,000	254,000	220,000	NA
TSS	lbs/day				
Domestic/Commercial		174,000	174,000	183,000	NA
Wet Industrial		6,200	27,000	7,000	NA
Recycle		0	12,000	17,000	NA
Totals		180,200	213,000	207,000	NA
Ammonia-N	lbs/day				
Domestic/Commercial		13,600	16,300	27,400	NA
Wet Industrial		1000	1200	2,000	NA
Recycle		200	200	300	NA
Totals		14,800	17,700	29,700	NA

(a) BOD and TSS loading projections based on methodology presented in "Addendum to TM No. 1. Existing and Projected Population, Flows and Wastewater Load Study," Parsons/Carollo, June 2002 (Draft). Per City staff, this reference is to serve as the basis for treatment capacity planning. Flow and load updated to reflect revised General Plan population.

Table 7-2. Resulting RWCF Capacity Following Completion of Initial Capital Improvements Projects[a]

Parameter	Loading Condition[b]			
	Average Day Dry Weather	Average Day Maximum Month[c]	Peak Day Maximum Month[c]	Peak Hour Wet Weather[e]
Flow	48 MGD[d]	58 MGD	78 MGD	121 MGD
BOD_5[e], lbs/day	170,500	304,700	261,000	N/A
TSS[f], lbs/day	164,200	241,900	249,000	N/A
NH_3-N[g], lbs/day	10,010	12,080	16,800	N/A

(a) Based on an average dry weather flow capacity of 48 mgd for secondary treatment facilities and constituent loading concentrations implied by Service Contract with OMI/Thames Water Stockton, Inc., Appendix 20, Table 9.2-6.
(b) Average Day Dry Weather means the average daily (calendar day) dry weather flow or loading (i.e. daily average flow when groundwater is at or near normal and run off is not occurring) occurring over the three consecutive dry weather months (e.g. July, August, September). Average Day Maximum Month means the average daily (calendar day) flow or loading occurring during the maximum month of the year. Peak Day Maximum Month means the highest daily (calendar day) flow or loading occurring during the maximum month flow of the year. Peak Hour Wet Weather means the maximum flow rate occurring in a one-hour period.
(c) Peaking per Table 2.8. See Table 7-1 for Master Plan buildout loading projections.
(d) MGD = million gallons per day
(e) BOD5 = Five day biochemical oxygen demand
(f) TSS = Total suspended solids
(g) NH3-N = Dissolved ammonia

For purposes of this analysis, the improvements needed to comply with the City's NPDES permit are considered to be a part of the existing plant.

The RWCF consists of preliminary, primary, secondary and tertiary treatment facilities as well as associated solids handling processes. The oxidation ponds, wetlands, and other tertiary facilities are located southwest of the San Joaquin River. The remaining facilities have been constructed on the opposite side of the river.

1. The preliminary treatment facilities consist of influent pumping, flow measurement, screening, and grit removal processes. Screenings and grit removed in this treatment step are processed and then hauled to a sanitary landfill for disposal.
2. The primary treatment facilities consist of primary sedimentation basins with Enhanced Primary Treatment (ferric chloride and polymer addition) which allow organic material to settle out where it can be removed. Solids removed from this process are directed to the plant's solids handling system.

Figure 7-1

City of Stockton
Wastewater Master Plan Update
EXISTING STOCKTON RWCF

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3. The secondary treatment facility consists of biotowers and intermediate clarifiers which support biological media that treat soluble organic material in the wastewater. Further treatment is accomplished in the oxidation ponds. Solids produced in secondary processes are sent to the plant's solids handling system.
4. Tertiary treatment is provided by constructed wetlands, nitrifying biotowers, flotation thickeners, tertiary filters and a chlorination system for disinfection. The treated effluent is then dechlorinated and discharged to the San Joaquin River.
5. Solids handling systems consist of gravity belt thickeners, gravity thickeners, anaerobic digesters, sludge lagoons and mechanical dewatering systems. Fully processed solids are then trucked to a landfill for disposal or to a reuse application.
6. Support systems at the plant include those providing: potable, service, and reclaimed water; compressed air; chemical storage, preparation, and feed; air supply; and sludge heating. Staff support facilities include buildings housing administration, operations centers, analytical laboratories, and maintenance activities.

DISCHARGE PERMIT REQUIREMENTS

The level of treatment needed to meet future regulatory requirements for surface water discharge could be affected by the following factors:

- The Current NPDES Permit and Cease and Desist Order
- Anticipated Future Permit Limits
- Potential regulatory relief activities

Current NPDES Permit and Cease and Desist Order

The current NPDES permit for the RWCF was issued to the City in April 2002. Since this time, considerable efforts have been made to address the issues raised in this permit. These efforts have included the following:

- Construction of the effluent filtration and improved disinfection facilities needed to meet the total coliform and turbidity requirements.
- Construction of a nitrifying biotower facility downstream of the pond/wetland system to meet the ammonia and pH requirements.
- Note that these new treatment facilities have also helped to significantly increase the effluent dissolved oxygen levels, thereby eliminating concerns with respect to this constituent.
- Completion of the additional sampling needed to demonstrate that pollutants of concern identified in the 2002 permit are not present in toxic concentrations in the effluent.
- Completion of a Human Carcinogen Impact Study, a Pollution Prevention Plan, a Treatment Feasibility Study, a Mercury Offset Feasibility Study, a SIP study, and a Thermal Impacts to Fisheries Study to assess the potential for impacts of discharge from the WWTP to the receiving water.

- Initiation of a translator study for copper to demonstrate that higher effluent limitations for this constituent may be appropriate and protective, thereby providing future permit relieve for this constituent.

Based on discussions with City staff, these efforts have addressed most, if not all, of the current permit requirements.

Potential Future Compliance Issues

The City submitted a Report of Waste Discharge (ROWD) for a new NPDES permit in September 2006. Based on discussion with regulatory staff, a new NPDES permit will likely be issued for the RWCF in early 2008. Based on a review of the ROWD and discussions with City staff, the new permit may include requirements that will be difficult to meet with existing facilities. The areas of particular concern area as follows:

1. Disinfection By-Products
2. Mercury and Methylmercury Limitations
3. Chlorine Disinfection Byproducts
4. Nitrate Limitations
5. Copper Limitations
6. Aluminum Limitations
7. Manganese Limitations
8. Bis(2-ehthyhexyl)phthalate
9. Salinity Requirements
10. Potential Groundwater Impacts
11. Thermal Impacts to Fisheries
12. Cyanide

<u>Ammonia</u>

Under the current RWCF operational scenario, the ammonia reductions needed to meet the current (and anticipated future) permit limits occur in the treatment ponds during the peak summer months. However, the reductions that occur in the treatment ponds decrease significantly as ambient temperatures drop in the late fall/early winter season. For this reason, nitrifying biotowers were constructed as a means of achieving the necessary ammonia reductions during the cool-weather season.

However, the City has observed that there is typically an acclimation period for the biotowers where the nitrifying bacteria population is not adequate to achieve the reductions necessary for compliance. Therefore, the City has proposed to modify the current operations to bypass the treatment ponds year-round. This practice would ensure a constant "supply" of ammonia to the biotowers, keeping the nitrifying populations robust enough to ensure adequate nitrification year-round.

The City has requested this operational change be allowed in the new permit. If this operational modification is allowed, it is expected that the ammonia limitations will be reliably met. If this modification is not allowed, the City may need to evaluate other means of achieve compliance. One option would be to "seed" the nitrifying bacteria population in the biotowers with ammonia, thereby keeping populations healthy during period when nitrification is occurring in the oxidation ponds.

Note, however, the City has not evaluated the impact of the proposed operational change on the ability to meet other permit requirements. Both the effluent temperature levels and metals concentrations could potentially be adversely affected by this change. These issues are discussed further below.

Mercury and Methylmercury

A study recently completed by the City indicated levels of mercury and methylmercury in the RWCF discharge significantly exceed the applicable water quality objectives for these constituents. Moreover, the Sacramento-San Joaquin Delta Estuary has been listed as being impaired for mercury and methylmercury. As such, it is anticipated that a TMDL will be adopted for these constituents and mercury mass loading limits in the current permit may become more stringent in future permits. As flows increase, meeting mass limits could become onerous.

Methylmercury is formed from inorganic mercury in the environment under low dissolved oxygen conditions, such as that that would occur in the sediment of the treatment ponds. Therefore, the operational modifications discussed above may result in a significant decrease in effluent methylmercury concentrations. However, such changes could result in an increase to the total mercury levels in the discharge. Additional analysis is needed to evaluate the potential impacts of the proposed modifications.

If effluent mercury and/or methylmercury concentrations cannot be reduced through treatment and/or source control efforts, the City may need to participate in mercury offset program. Such a program would require that the City fund a mercury clean-up project elsewhere in the Delta watershed. Under such a program the City would likely need to eliminate significantly more mercury from the offsite location to get "credit" for the mercury discharged from the RWCF.

Chlorine Disinfection Byproducts

The City currently relies on chlorine for disinfection; and accordingly, effluent concentrations of chlorine disinfection byproducts can be significant. Chlorine disinfection byproducts include bromoform, chloroform, dibromochloromethane, chlorodibromomethane and cyanide.

Dibromochloromethane and chlorodibromomethane have been determined to be toxic to human health at very low concentrations. Based on a review of available RWCF data, the effluent concentrations for these two constituents exceed these toxic levels. Therefore, it is anticipated that final effluent limitations will be prescribed in the new permit for these constituents. However, as mentioned previously, the Regional Board has determined that it is appropriate to apply a dilution credit in establishing effluent limitations for human health-based toxicity criteria. Therefore, the discharge concentrations may be lower than these effluent limitations.

Cyanide is a constituent that has been determined to be toxic to aquatic organisms at very low concentrations. Based on a review of available RWCF data, the effluent concentration of cyanide exceed these toxic levels. Therefore, it is anticipated that final effluent limitations will be prescribed in the new permit for these constituents. Moreover, the Regional Board is not expected to apply a dilution credit for this constituent unless additional information is developed by the City to support such a credit.

It should also be noted that recent studies have demonstrated that cyanide may be formed in a collected effluent sample during the addition of a high pH preservative. Therefore, the City may benefit from completing a study to determine whether the observed cyanide has been formed during the sample collection process.

If it is determined that cyanide, dibromochloromethane, and/or chlorodibromomethane are present in the effluent in concentrations that would exceed the effluent limitations in the new permit, it may be necessary to construct UV disinfection facilities. Alternately, the City may be able to demonstrate through studies that additional dilution credit is warranted in calculating the appropriate effluent limitations for these constituents.

Nitrate

As discussed above, the City relies on a combination of the treatment ponds and the recently constructed nitrifying biotowers to reduce effluent ammonia concentrations. Both of these treatment facilities support a nitrifying bacteria population that converts the ammonia to nitrate. The City does not currently have the facilities needed to remove the nitrate via denitrification.

The drinking water maximum containment level (MCL) for nitrate is 10 mg/L as N. At the time the current permit was issued the City had not collected adequate information to determine whether effluent nitrate limitations were necessary. However, because nitrification treatment is applied, it is expected that effluent nitrate concentrations currently exceed the MCL.

In other permits issued by the Regional Board, it was determined that it is not appropriate to establish a mixing zone for nitrate, as the limit based on the potential toxicity associated with direct ingestion of water contaminated with nitrate. Moreover, total nitrogen concentrations in the discharge may be causing biostimulation of algae populations in the Stockton Deep Water Ship Channel. This process would contribute to the low dissolved oxygen levels that have been observed in this waterbody. For these two reasons, it is expected that the new permit will likely include an effluent limitations for nitrate. If this limitation cannot be met with existing facilities, it may be necessary for the City to construct a denitrification treatment process.

Copper

The toxicity of copper is based on hardness, where toxicity is less severe under conditions of high hardness. The Regional Board is currently evaluating their policy with respect to defining the appropriate hardness values for assessing applicable objectives for a given discharge. Therefore, it is unclear what objective would be applied to the City's discharge.

Nevertheless, data provided by the City in the ROWD indicates that the historic maximum detected effluent concentration for copper was 6.3 µg/L. This concentration could potentially exceed the applied objective for copper, depending on the hardness value that is used to define this objective.

Moreover, the oxidization ponds are at least partially reducing the copper concentrations in the wastewater flows. Therefore, following the operational modifications discussed above, effluent copper concentrations could increase.

If a copper limitation is applied to the discharge that cannot be met with the existing treatment facilities, the City will likely receive a compliance schedule with a final deadline of May 2010 (the compliance date allowed by State Policy). Under these circumstances, the City would need to seek potential relief through the completion of one or more of the following efforts:

- Translator Study (Currently Being Developed)
- Water Effects Ratio Study
- Dilution Study

Aluminum

Effluent data provided by the City shows that aluminum concentrations in the effluent regularly exceed the water quality goal of 87 µg/L. The water quality criterion for aluminum is based on chronic aquatic toxicity. Therefore, it is not anticipated that a dilution credit will be applied in determining a future limitation for this constituent.

Note, however, that it is not clear from the information provided whether elevated concentrations of aluminum were detected after the effluent filtration facilities were brought online. Data from other treatment facilities indicate that filtration can significantly reduce aluminum concentrations. Nevertheless, unless there is adequate data to demonstrate that filtration facilities have significantly reduced the effluent concentrations of aluminum, it is expected that a future limitation for aluminum will be included in the new permit.

It should be noted, that the currently available effluent data reflect the concentration of total aluminum present in the effluent and the 87 µg/L water quality criterion (and the future permit limit) is based on the concentration of dissolved, acid soluble aluminum. Therefore, additional analyses should be completed to determine the concentrations of dissolved acid soluble aluminum in the discharge. If the concentrations of acid soluble aluminum are shown to exceed the 87 µg/L water quality criterion, the City could potentially receive permit relief through the completion of a Water Effects Ration study or through the completion of additional dilution modeling efforts.

Manganese

Effluent testing also shows that manganese concentrations in the effluent regularly exceed the water quality goal of 50 µg/L. The water quality criterion for manganese is based on the Basin Plan limitation and it is expected that a future limitation of 50 µg/L as an annual average will likely be applied to the RWCF discharge. As with aluminum, the recent addition of effluent filtration may be adequate to meet this limit. However, because this limit is based on a Basin Plan criterion, it is not expected that permit relief could be provided through the completion of dilution studies.

Bis(2-ethylhexyl)phthalate

Bis(2-ethylhexyl)phthalate has been detected in the effluent in concentrations that exceed the CTR criterion of 1.8 µg/L. Therefore, it is expected that future permits will include an effluent limitation for this constituent. However, the water quality criterion for bis(2-ethylhexyl)phthalate is based on human health toxicity. Therefore, it is expected that a dilution credit will be applied in determining a future effluent limitation for this constituent. Therefore, it is anticipated that a future limitation will be achievable.

Salinity

Based on data submitted in the ROWD, the monthly average RWCF effluent concentrations of total dissolved solids (TDS) range from approximately 600 mg/L to over 800 mg/L. The recommended drinking water secondary maximum containment level for TDS is 500 mg/L as a recommended level, 1,000 mg/L as an upper level, and 1,500 mg/L as a short-term maximum. Furthermore, the recommended agricultural water quality goal is 450 mg/L.

Because the RWCF effluent generally exceeds these recommended criteria, it is expected that the new permit will include a requirement for controlling salinity in the discharge. Previous efforts completed by the City indicate that discharges of industrial wastewater could be significant sources of salinity in the effluent. Therefore, additional source control efforts for these industries may be necessary.

The Delta Water Supply Project's treated surface water is significantly lower in TDS than groundwater sources. Therefore, a combination of the Delta Water Supply Project's treated surface water and Stockton East surface water supplies is expected to result in lower effluent TDS concentrations than the current combination of groundwater from wells and surface water from the Stockton East Treatment Plant.

Impacts to Groundwater

The City has completed a groundwater investigation to determine if the practices employed at the RWCF have led to an increase in concentrations of constituents of concern in the groundwater when compared to background. Based on discussions with RWCF staff, the groundwater monitoring show elevated salinity levels in the some of the wells beneath the treatment facilities; however, elevated levels have also been detected in the two background monitoring wells. The City has also observed elevated ammonia levels in one of the onsite monitoring wells. Nevertheless, the City's position is that there is no clear evidence as to whether impacts to groundwater have occurred due to the RWCF facilities.

However, if the Regional Board determines that impacts have been identified that are directly attributable to the RWCF, the City would likely be required to complete a Best Practicable Treatment and Control (BPTC) study under the new permit. This study would include an assessment of each major facility that could contribute to groundwater contamination to identify whether appropriate BPTCs for groundwater protection have been employed. One potential BPTC that may be necessary would be the installation of geomembrane liners in the existing treatment ponds/wetlands. Based on correspondence with City staff, the cost of lining the storage facilities is estimated to be $145 million.

Thermal Impacts to Fisheries

The current permit includes a requirement that the City investigate the potential impacts to fisheries associated with the discharge of elevated temperatures in the effluent. The study that was completed state that the existing oxidation ponds will equalize temperatures and there will be no thermal pollution. However, as discussed above, the City is considering eliminating these ponds from the treatment train. Therefore, it is expected that the City will be required to determine the impact of this proposed change on effluent temperatures.

Potential Future Permit Relief

Potential permit relief may be available as a result of the following activities:

- Additional Dilution Assessments
- Discharge Specific Studies
- Additional Groundwater Characterization Studies

Additional Dilution Assessment

If additional data can be developed, it may be feasible to demonstrate that dilution is available for the discharge during short-term low-flow conditions in the SJR. Under such circumstances, a dilution credit could be applied to effluent limitations prescribed for acute or chronic aquatic toxicity water quality criteria (which include aluminum, mercury and ammonia). As such, the effluent limitations for these constituents would be higher than what would be applied if a dilution credit were not applicable.

Currently, a 10:1 harmonic mean dilution credit is applied in establishing final effluent limitations for water quality criteria that are based on toxicity to humans through consumption of drinking water or fish and other aquatic organisms. As such, final effluent limitations for these water quality constituents are higher than what would be expected if a dilution credit was not applied. However, even greater dilution credit may be achievable in the future if a dye study is completed that supports previous dilution modeling efforts with empirical data.

Discharge Specific Studies

As discussed above, it is anticipated that future RWCF NPDES permits will contain stringent effluent limits for aluminum and copper. The derivation of these limits is based on certain default assumptions involving total versus dissolved metals and water effects ratios. Both of these factors relate to the availability of a given constituent in the effluent to aquatic organisms. As many as three different studies could be performed in an effort to obtain needed relief from the future effluent limits for the metals in question. These include:

1. Water effects ratio studies for copper (and possibly aluminum) involving somewhat extensive effluent toxicity testing.
2. Acid solubility testing for aluminum in the effluent and upstream receiving water. Note that permit limits would not change based on this testing, but future permits should allow for acid soluble aluminum to be reported for compliance purposes instead of total aluminum.

Additional Groundwater Characterization

As mentioned above, if it is determined that groundwater impacts can be attributable to the RWCF the City may be required to implement significant improvements to the existing facilities to satisfy the State's BPTC requirements. Alternately, if the City's data supports the hypothesis that impacts may not be attributable to the RWCF, the City could potentially complete additional groundwater characterization efforts to support such a conclusion. These efforts could include installing additional shallow monitoring wells in the area of the RWCF, as well as the installation of deeper wells onsite.

Summary

A summary of the constituents for which effluent limitations have been issued and their likely associated impacts is presented in Table 7-3.

Table 7-3. Effluent Limitation Summary

Parameter	Current Limits Can Reliably be Met	Limits Likely to Become More Onerous	Additional Studies Could Provide Some Future Relief	Limit Could Change Based on TMDL Studies	Without Additional Data Future Limit Likely to Trigger Additional Treatment and/or Source Control
Ammonia	X	X	X		X
Mercury/Methylmercury	X	X	X	X	X
Chlorine Disinfection Byproducts	X	X	X		X
Nitrate	NA	X	X		X
Copper	X	X	X		?
Aluminum	NA	X	X		?
Manganese	NA	X			?
Bis(2-ethylhexyl)phthalate	X	?	X		?
Salinity	X	X	X		X
Groundwater	X	?	X		X
Temperature	X	?	X		?

FACILITIES TO ACCOMMODATE PROJECTED FLOWS AND PERMIT REQUIREMENTS

The existing treatment facilities at the RWCF will continue to be able to remain in service. However, a significant number of additional facilities will be required to accommodate the projected wastewater flows and loads anticipated from the General Plan buildout population and to provide higher levels of treatment that will be needed to meet anticipated discharge requirements.

For the most part, the projected needs can be met with the same technologies currently used at the plant. This assumption should be reviewed during more detailed facilities planning studies prior to initiating design or construction efforts to determine if more cost effective approaches can be taken, such as providing equalization storage or new technologies. The following is a summary of future facility needs at the RWCF. Detailed information about the basis of the requirement of additional facilities is provided in Appendix G.

Influent Pumping and Preliminary Treatment Facilities

Expansion of the existing plant influent pumping and preliminary treatment facilities will be required to accommodate projected peak hour wet weather flow conditions. Affected plant components include:

- **Bar Screens:** Two additional matching bar screen units would be provided to expand the capacity of the existing four bar screens at the plant.
- **Grit Channels:** Three additional channels of matching capacity to the existing six channels would be required.
- **Influent Flow Metering:** Expansion to the plant's influent flow metering facilities will be required to accommodate the projected peak hour wet weather flows.
- **Influent Pumping:** Three additional pumps having nominal capacities of 35 mgd each and 1 at 12 mgd would be needed to provide the firm pumping capacity needed at the buildout flow conditions. The total installed pumping system capacity would be capable of handling the projected peak hour wet weather flow condition with the largest pump out of service.
- **Ferric Chloride Dosing System:** The ferric chloride dosing system that is being installed as a part of the Initial Capital Improvements Project should continue to be used for the purpose of influent odor control and enhancement of the primary sedimentation basin effectiveness. No expansion to this system is expected to be required.

Primary Treatment Facilities

Expansion of the existing plant primary sedimentation basins facilities will be required to accommodate projected peak hour wet weather flow conditions. This would consist of five additional basins having dimensions that match the most recently constructed units (160 feet by 30 feet.). Associated facilities would include primary sludge and scum systems to serve the new basins and expansion of the polymer feed facilities for this purpose.

Secondary Treatment Facilities

For purpose of this analysis, secondary treatment facilities consist of those facilities that utilize biological treatment processes to remove carbonaceous BOD, nitrogen and other nutrients, and other constituents amenable to biological treatment.

Expansion to the following existing secondary treatment facilities would be required to accommodate the projected BOD loading conditions at the buildout condition.

- **Biotowers:** No additional biotower and associated feed and recycle pumping would be needed.
- **Intermediate Clarifiers:** Four additional intermediate clarifiers would be needed to remove solids produced by the biotowers in the process of removing organic constituents in the wastewater.
- **Secondary Effluent Pump Station:** Expansion of this facility through the addition of two pumps having nominal capacities of 34.6 mgd each would be required to provide the necessary firm capacity to meet projected peak hour wet weather flow conditions that are estimated to occur.

The existing oxidation ponds would be retained for the purpose of providing additional polishing treatment to the effluent and peak flow equalization prior to the remaining treatment components. However, no other capital improvement to this facility has been projected.

Tertiary Treatment Facilities

Tertiary Treatment Facilities consist of those components that provide for higher levels of organics destruction, nutrient removal, final removal of finer solids, and for the disinfection of the effluent as needed to protect human health.

The following tertiary treatment facilities would be added or expanded to meet anticipated permit requirements that are projected to be required of the plant within the time period of the Master Plan.

- **Constructed Wetlands:** Wetlands were constructed through the conversion of one of the plant's existing oxidation ponds. Conversion of the remaining oxidation ponds to constructed wetlands may be required to provide higher levels of effluent polishing and removals of priority pollutants. If wetlands for tertiary treatment is needed, then vector control will be required and should be budgeted for in O&M costs. The decision about conversion of oxidation ponds to constructed wetlands will not be made until experience has been gained with the performance of the wetlands in the upcoming project and the uncertainties regarding future treatment requirements have been resolved. For these reasons, no further costs for wetlands improvements have been projected.
- **Nitrifying Biotowers:** This process has been added for the purpose of insuring that the plant adequately oxidizes the ammonia in the wastewater. A doubling of this facility through the addition of two towers of matching would be required to further expand it to accommodate the projected flows and loads anticipated from the service area at buildout.

- **Denitrifcation Columns:** A denitrification facility will be required to reduce the nitrate produced by the nitrifying biotowers to nitrogen prior to discharge. For purposes of this analysis, a denitrification column system would be utilized for this purpose. Methanol addition facilities would also be included in this treatment step to provide a source of carbon necessary to support the denitrifying bacteria in the process.
- **Post Aeration Tanks:** This facility would be added to provide two functions: to remove any remaining methanol that may remain in the effluent from the denitrification columns and to elevate the dissolved oxygen content of the effluent prior to discharge to reduce the impact on the dissolved oxygen concentration of the SJR. Eight tanks would be provided to enable shutdown of one tank for maintenance purposes.
- **Effluent Filters:** Recent improvements have brought the total number of tertiary filters at the plant to six with a total capacity of 84.0 mgd, based upon ratings provided for in the 1999 Draft Master Plan. Four additional filters would need to be provided to accommodate the projected peak day maximum month loading conditions identified in this Master Plan. This expansion would include additional filtered water pumps and other associated ancillary mechanical support systems.
- **UV Disinfection System:** A new effluent disinfection system based upon the use of ultra-violet (UV) light technology would be provided to replace the plant's existing chlorination system. This change is projected to be desirable to eliminate the formation of trihalomethanes and other chlorine byproducts in the effluent that are now becoming regulated constituents. Elimination of the chemicals used for chlorination and dechlorination in the plant's existing process will also eliminate their contribution to the TDS in the plant effluent. The UV disinfection system would consist of a multiple channel structure that would house low pressure high output UV lamps.

Solids Handling Facilities

Expansion of the plant's existing solids handing facilities would be required to accommodate the larger quantities of solids that would be produced by the liquid stream processes. Estimated solids quantities that would be produced at the plant from the buildout flows and loads shown earlier in Table 7-1 are shown in the following Table 7-4.

Table 7-4. Estimated Solids Production at the RWCF

Method of Measurement	Loading Condition		
	Average Day Dry Weather	Average Day Max Month	Peak Day Maximum Month
Dry Weight of Solids, lbs dry solids/day	218,700	263,400	276,100
Liquid Volumes, gallons per day	565,100	683,800	752,500

The following is a summary of the facilities that will be required to accommodate these projected solids production conditions:

- **Solids Thickening Systems:** Solids recovered from the primary sedimentation basins are of sufficient concentration that they may be sent directly to the anaerobic digesters. Solids from the intermediate clarifiers and tertiary filters are less concentrated. Two gravity thickeners are currently installed at the plant for thickening of solids from the intermediate clarifiers. Two gravity belt thickeners have been added to thicken the solids removed by the intermediate clarifiers. Solids streams from the tertiary filters may be returned to the primary sedimentation basins prior to introduction into the digesters in order to sufficiently thicken them. For these reasons, no costs have been included in this study for solids thickening systems prior to anaerobic digestion.
- **Anaerobic Digesters:** Two additional digesters having a diameter of 110 feet would be required in addition to the five digesters currently at the plant. Expansion to the digester feed, withdrawal, and heating systems would be required in conjunction with the provision of the new tankage.
- **Digested Solids Storage Lagoons:** The existing digested solids storage and thickening lagoons would continue to be utilized at the plant but would not be expanded. In this capacity, they would serve only as a buffer between the plant's anaerobic digesters and the plant's dewatering system.
- **Digested Solids Dewatering Systems:** The plant's existing mechanical dewatering system could be expanded from two belt filter presses to a total of four belt filter presses in order to be able to process the projected increase in production of anaerobic solids at the plant. The current portion of digested solids that are directed to a reuse application have been assumed to continue for this analysis. The provision of additional belt presses would include expansion of the polymer feed, washwater booster pumping and filtrate water return systems associated with this facility. Alternately, the City could consider upgrading the dewatering system from a belt filter press system to an alternate dewatering system, such as centrifuges. The decision on the dewatering system selection should be reviewed during more detailed facilities planning studies prior to initiating design or construction efforts to determine which dewatering system best meets the City's needs.

After processing, the plant's solids are currently hauled to a landfill for disposal or directed to a reuse application. Expansion of the reuse potential in the future may add to the projected capital costs of the plant's solids handling facilities. This investment would only be undertaken if it were found to reduce the annual disposal costs or provide for some other form of offsetting costs that would make the additional capital investment cost effective to the City. This can only be determined through a specific analysis and study of the potential costs of such a program. For purposes of this analysis, no consideration of an expansion to the current biosolids reuse practices has been made.

Other Advanced Treatment Facilities for Potential Future Permit Requirements

Advanced treatment facilities may be required for all or a portion of the plant's effluent if future discharge requirements for TDS and/or priority pollutants are imposed that cannot be met with the above treatment facilities or through a program of source control. The most likely treatment system that would be required in addition to those already identified above would be a membrane filtration and reverse osmosis system. The reverse osmosis system would be capable of removing a number of toxic compounds as well as reducing the TDS of the effluent. The membrane filtration system would serve as a pretreatment system to remove larger particles and thereby reduce the costs of the reverse osmosis step.

For purposes of this study, no costs for these additional advanced treatment facilities have been included in this analysis. However, it is recommended that facilities planning studies conducted for the plant include the identification of how these facilities could be incorporated into the treatment scheme at some point in the future. Microfiltration and reverse osmosis would provide unprecedented levels of treatment at very high capital and energy consumption costs. Disposal of the concentrated brine waste stream from reverse osmosis would be problematic and costly, assuming a viable brine disposal method could even be identified.

Costs of Treatment Plant Improvements

The estimated cost of providing the additional facilities described above are summarized in Table 7-5. The improvements are needed to accommodate projected increases in flows and loads from the service area. Additional facilities would be needed to provide higher levels of treatment if significantly more stringent discharge requirements were to be imposed on the plant. Detailed information about the basis of these costs is provided in Appendix G.

Project Phasing

Based on the projected wastewater flow, the treatment capacity for the existing facilities including those from the Initial Capital Improvement Project totaling 48 mgd would be exhausted by year 2019.

Given that the projected ADDW at buildout is 71.0 mgd, the construction of the facilities could be completed in a single phase to provide the treatment capacity for the buildout condition.

Figure 7-2 presents the projected flow in ADWF and proposed schedule for the construction of the facilities for buildout.

Conceptual Facilities Layout

A preliminary project facilities layout is presented in Figure 7-3. The purpose of the project facilities layout is to verify whether there is sufficient space to construct project facilities within the plant. The layout is conceptual. Further analysis, including a complete facilities upgrade study and a geotechnical study, must be performed to determine the actual layout. It is apparent that a portion of either the new wetlands, or a portion of an existing pond will need to be filled to accommodate future facilities.

Table 7-5. Planning-level Estimate of Costs for Treatment Plan Improvements Needed for 2035 Buildout

Description	Estimated Cost[a,b], dollars
Process Treatment Systems	
Bar Screens	2,200,000
Grit Channels	1,430,000
Influent Pumping	9,920,000
Primary Sedimentation Basins	10,840,000
Biofilters and Associated Pumping Systems	6,860,000
Intermediate Clarifiers	6,820,000
Secondary Effluent Pumping	2,700,000
Nitrifying Biotowers and Associated Pumping Systems	12,350,000
Teritiary Raw Water Pumps	3,390,000
Dissolved Air Flotation Thickeners	7,010,000
Denitrification Columns	16,020,000
Post Aeration/Methanol Oxidation Tanks	4,900,000
Tertiary Filtration and Associated Pumping Systems	32,290,000
UV Disinfection System	18,270,000
Solids Handling Systems	
Anaerobic Digesters	5,860,000
Solids Dewatering System	2,650,000
Combined Component Subtotal	143,510,000
Distributed Costs	-
Mobilization & Demobilization (8%)	11,700,000
Demolition (1%)	1,460,000
Sitework (5%)	7,310,000
Piping (10%)	14,620,000
Electrical and Instrumentation (20%)	29,240,000
Standby Power, Admin, & Maintenance Facilities (15%)	21,930,000
Distributed Costs Subtotal	86,260,000
Component and Distributed Costs Subtotal	229,770,000
Estimating Contingencies (35%) (c)	79,860,000
Total Estimated Construction Cost	308,040,000
	-
Engineering, Administration and Project Contingencies (35%)	107,810,000
TOTAL PROJECT COSTS w/o Land	415,850,000
	-
Property Acquisition (or Pond Conversion) Allowance	1,400,000
TOTAL PROJECT COSTS	417,250,000

[a] All costs are in current dollars (January 2006, ENR 20-Cities Average Construction Cost Index = 8700). Financing costs are excluded.

[b] This preliminary estimate of cost is based on limited field information and conceptual facility locations/descriptions. Actual costs will be affected by field conditions that cannot be identified at the current level of planning. Market forces, other economic factors, and changing regulatory requirements may have a significant impact on costs.

[c] Includes construction contingency and planning contingency.

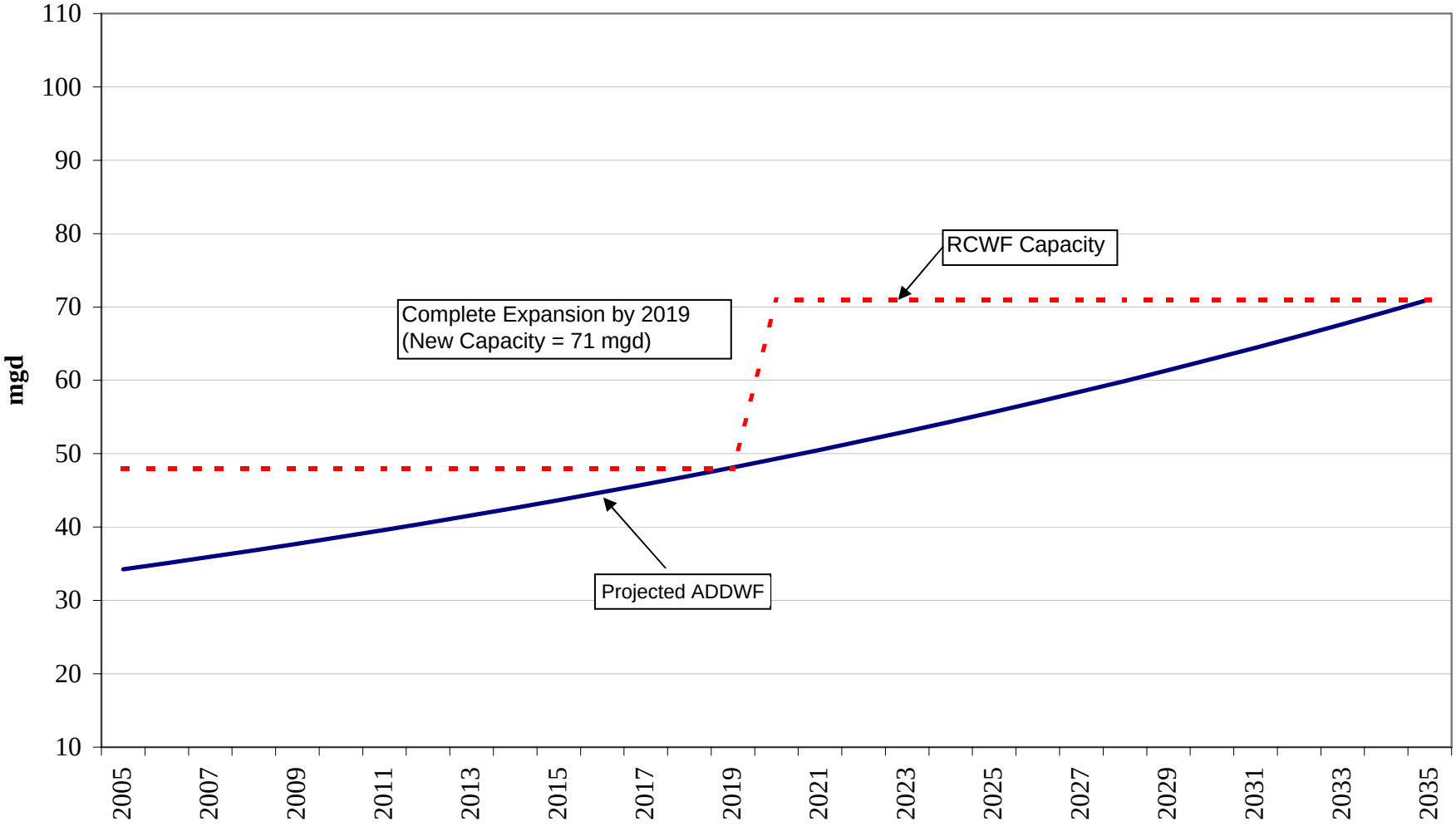


Figure 7-2. Projected Wastewater Flows and Plant Capacity Expansion Phases

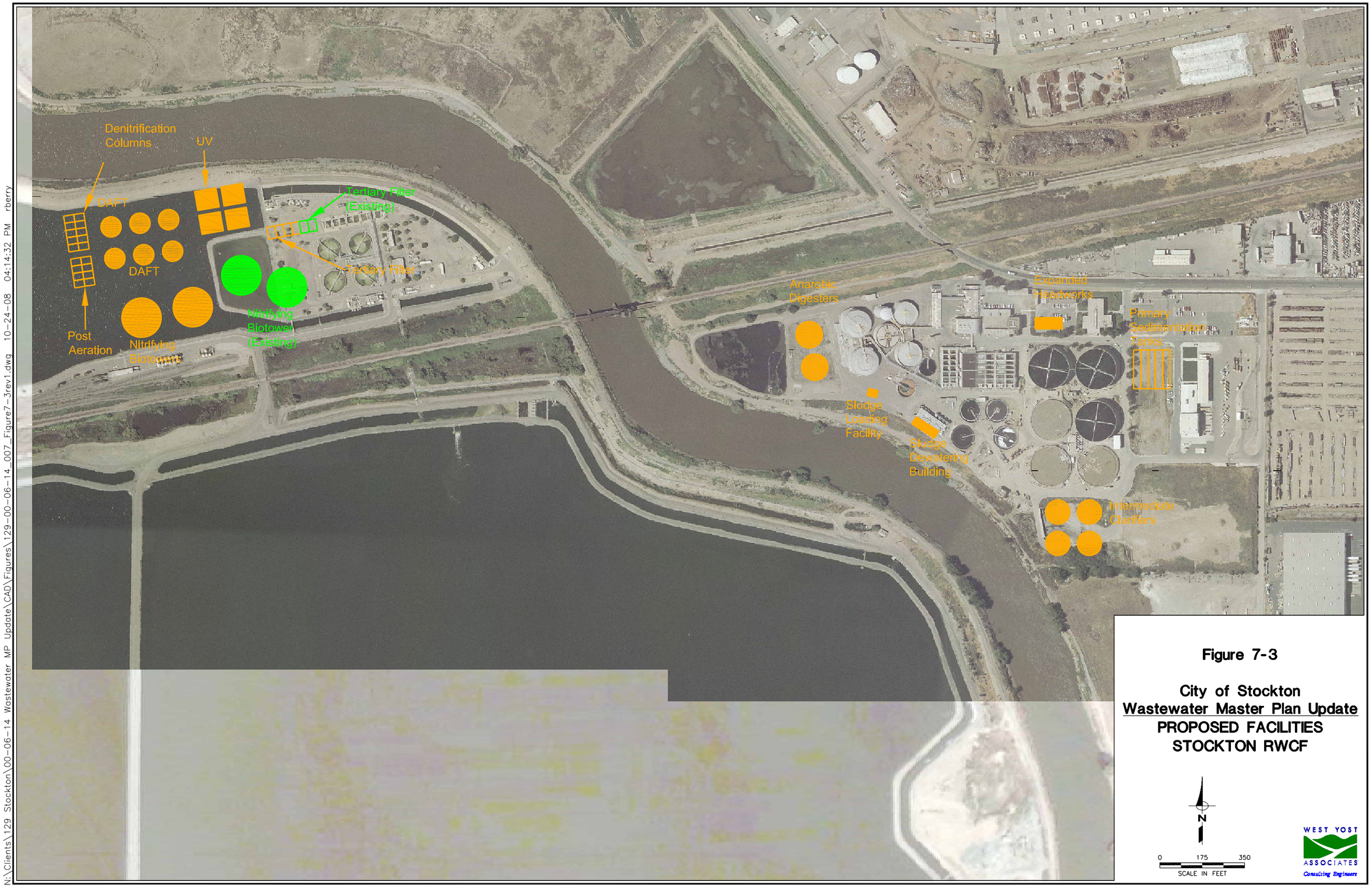


Figure 7-3

City of Stockton
Wastewater Master Plan Update
PROPOSED FACILITIES
STOCKTON RWCF

N:\Clients\129 Stockton\00-06-14 Wastewater MP Update\CAD\Figures\129-00-06-14_007_Figure7-3rev1.dwg 10-24-08 04:14:32 PM rberry

REFERENCES

City of Stockton, Addendum to Technical Memorandum No. 1 Existing and Projected Population, Flows, and Wastewater Load Study, for Stockton Regional Wastewater Control Facility Master Plan Update, June 2002 (Draft), prepared by Parsons/Carollo.

City of Stockton, Service Contract for Wastewater, Water, and Stormwater Utilities Capital Improvements and Asset Management Between the City of Stockton and OMI/Thames Water Stockton, Inc., December 19, 2003.

City of Stockton Department of Municipal Utilities, Regional Wastewater Control Facility Master Plan Update, March 1999 (Working Draft), prepared by Parsons Engineering Science/Carollo.

US Environmental Protection Agency, *Design Criteria for Mechanical, Electric, and Fluid System and Component Reliability*, EPA Technical Bulletin EPA-430-99-74-001, 1974.

Waste Discharge Requirements Order No. R5-2002-0083, City of Stockton Regional Wastewater Control Facility, adopted by the Regional Water Quality Control Board April 2002.

Cease and Desist Order No. R5-2002-0084, City of Stockton Regional Wastewater Control Facility, adopted by the Regional Water Quality Control Board April 2002.

CHAPTER 8. RECOMMENDED CAPITAL IMPROVEMENT PROGRAM

This Chapter presents the capital improvement program developed using the assumptions and methodologies presented throughout this report. The collection system improvements are described generally in Chapter 6 and shown on Figure 6-1. The treatment plant improvements are described in Chapter 7.

ESTIMATED CAPITAL COSTS

A summary of estimated costs for each System plus the wastewater treatment plant improvements is provided in Table 8-1. The total estimated cost of the facilities need for buildout at 2035 is $1.0 billion. This represents the total estimated project cost for the backbone infrastructure identified in this Master Plan, excluding the cost of financing. Substantial additional wastewater collection system facilities will be needed within the development areas, delivering flow to the backbone system. The costs for these additional facilities will be borne by the individual developments, and therefore are not included in the Master Plan.

Table 8-2 is a summary of the planned improvements shown on Figure 6-1 and described in Chapters 6 and 7. Appendix F contains a series of tables listing both individual improvements for existing sewer facilities within collection Systems 1 through 10, as well as a listing of future improvements projected for the buildout of collection Systems 12 through 15.

PHASING

Phasing of wastewater capital improvements will be dictated by the phasing of development. As a growth area begins to develop, the downstream wastewater infrastructure will need to be in place. The triggering of replacements to create additional capacity in existing facilities will depend on the timing of growth in new service areas relative to the timing of infill in the downstream existing service area. In general, however, significant growth in any one new service area will trigger most of the improvements needed downstream of that growth area.

Treatment plant phasing will depend on the incremental capacity needs as well as the timing of changes in regulatory requirements. In Chapter 7, Figure 7-2 indicates that all treatment plant improvements are needed by 2025. It is likely that some portion of the treatment plant improvements related to capacity could be deferred later than 2025.

*Includes new pump stations, upgrades to existing pump stations, forcemains, existing gravity sewer replacements, and future gravity sewer replacements 18 inches and larger (as directed by City Staff).

Table 8.1 Summary of Estimated of Costs for 2035 Buildout.

Description	Estimated Costs[a,b], million dollars		
	Existing Conditions	2035 Buildout Conditions	Growth Related
Existing Wastewater Collection Systems			
System 1	0.71	0.78	0.07
System 2	18.69	24.33	5.64
System 3	10.54	55.60	45.07
System 4	2.83	16.72	7.74
System 5	3.14	10.87	7.74
System 6	0.32	39.05	38.73
System 7	0.01	13.84	13.82
System 8	0.61	72.15	71.55
System 9	-	20.84	20.84
System 10	0.06	53.77	53.71
Subtotal Existing Systems	36.9	307.9	264.9
Future Wastewater Collection Systems			
System 12	-	64.4	64.4
System 13	-	80.7	80.7
System 14	-	27.9	27.9
System 15	-	85.3	85.3
Subtotal Future Systems	-	258.3	258.3
Shared Facilities[c]	0.88	70.8	69.9
Wastewater Treatment Plant[d]	-	417.3	417.3
Total, Preliminary Estimated Project	37.8	1,054	1,010

Notes:

(a) All costs are in current dollars (August 2007, ENR 20-Cities Average Construction Cost Index = 8007). Includes Construction Contingencies, Administration, and Engineering. Excludes Property Acquisition (except for facilities at the RWCF) and Inflation.

(b) This preliminary estimate of cost is based upon limited field information and conceptual facility locations/ descriptions. Actual costs will be affected by field conditions that cannot be identified at the current level of planning, as well as market and other economic and regulatory forces.

(c) Shared facilities include gravity sewers, force mains, pump stations, etc. spanning more than collection system and therefore unassignable to any one particular collection system. See Table 8-2 for a listing of shared facilities.

Table 8.2 Planning-level Estimate of Costs for 2035 Buildout.

Improvements	Existing Deficiencies[a]		Growth Related	Buildout	
	Comments	Budget Costs[d], dollars	Budget Costs[d], dollars	Comments	Budget Costs[d], dollars
COLLECTION SYSTEM 1 FACILITIES					
Improvements to Existing Gravity Sewers		$ 138,000	$ -		$ 138,000
Future Gravity Sewers[b]		$ -	$ -		$ -
Pump Stations					
Plymouth & 5 Mile Cr. P.S.	Construct new pump station with required additional capacity	$ 573,000.00	$ 66,000	Construct new pump station with required additional capacity	$ 639,000
Cumberland & 5 Mile Cr. P.S.	No Upgrade	$ -	$ -	No Upgrade	$ -
Subtotals		$ 711,000	$ 66,000		$ 777,000
COLLECTION SYSTEM 2 FACILITIES					
Existing Gravity Sewers		$ 9,962,000	$ 3,886,000		$ 13,848,000
Future Gravity Sewers[b]		$ -	$ -		$ -
Force Mains					
Thornton & Davis P.S. FM		$ 14,000	$ -		$ 14,000
Pump Stations					
Kelly & Mosher P.S.	Replace pumps and controls	$ 645,000	$ -	Replace pumps and controls	$ 645,000
Thornton & Davis P.S. (Stonewood)	Construct new pump station with required additional capacity	$ 847,000	$ 154,000	Construct new pump station with required additional capacity	$ 1,001,000
Don Ave. & Santiago L.S.	Construct new pump station with required additional capacity	$ 1,003,000	$ 116,000	Construct new pump station with required additional capacity	$ 1,119,000
Swenson & 5 Mile Cr. P.S. (North P.S.)	Replace pumps and controls	$ 5,155,000	$ 839,000	Replace pumps and controls	$ 5,994,000
Blossom Ranch P.S.	Replace pumps and controls	$ 183,000	$ 91,000	Replace pumps and controls	$ 274,000
Camanche P.S.	Replace pumps and controls	$ 467,000	$ 321,000	Construct new pump station with required additional capacity	$ 788,000
Alexandria & 14 Mile Sl. P.S. (Quail Lake)	Replace pumps and controls	$ 386,000	$ 36,000	Replace pumps and controls	$ 422,000
March-Brookside & I-5 P.S.	No Upgrade. Monitor actual run-times and/or flows	$ 25,000	$ 199,000	Replace pumps and controls	$ 224,000
Subtotals		$ 18,687,000	$ 5,642,000		$ 24,329,000
COLLECTION SYSTEM 3 FACILITIES					
Existing Gravity Sewers		$ 10,245,000	$ 44,366,000		$ 54,611,000
Future Gravity Sewers[b]		$ -	$ -		$ -
Pump Stations					
Kirk & Del Rio (County P.S.)	Replace pumps and controls	$ 291,000	$ 700,000	Construct new pump station with required additional capacity	$ 991,000
Subtotals		$ 10,536,000	$ 45,066,000		$ 55,602,000
COLLECTION SYSTEM 4 FACILITIES					
Existing Gravity Sewers		$ 2,829,000	$ 13,521,000		$ 16,350,000
Future Gravity Sewers[b]		$ -	$ -		$ -
Pump Stations					
Waterloo & Roosevelt/North P.	No Upgrade	$ -	$ 366,000	Replace pumps and controls	$ 366,000
Drake & Hwy. 99/South P.S.	No Upgrade	$ -	$ -	No Upgrade	$ -
Subtotals		$ 2,829,000	$ 13,887,000		$ 16,716,000
COLLECTION SYSTEM 5 FACILITIES					
Existing Gravity Sewers		$ 3,135,000	$ 4,174,000		$ 7,309,000
Future Gravity Sewers[b]		$ -	$ 51,000		$ 51,000
Force Mains					
Lincoln Street PS FM		$ -	$ 1,158,000		$ 1,158,000
Pump Stations					
Lincoln Street PS		$ -	$ 2,352,000		$ 2,352,000
Subtotals		$ 3,135,000	$ 7,735,000		$ 10,870,000
COLLECTION SYSTEM 6 FACILITIES					
Existing Gravity Sewers		$ 318,000	$ 24,678,000		$ 24,996,000
Future Gravity Sewers[b]		$ -	$ 8,432,000		$ 8,432,000
Force Mains					
System 6 North PS FM		$ -	$ 986,000		$ 986,000
Backpressure Sustaining Facilities		$ -	$ -		$ -
Pump Stations					
System 6 North PS		$ -	$ 1,234,000	Future Pump Station	$ 1,234,000
Crossings		$ -	$ 3,400,000		$ 3,400,000
Subtotals		$ 318,000	$ 38,730,000		$ 39,048,000
COLLECTION SYSTEM 7 FACILITIES					
Existing Gravity Sewers		$ 12,000	$ 5,591,000		$ 5,603,000
Future Gravity Sewers[b]		$ -	$ 6,084,000		$ 6,084,000
Pump Stations					
Duck Creek PS		$ -	$ 1,348,000	Future Pump Station	$ 1,348,000
Crossings		$ -	$ 800,000		$ 800,000
Subtotals		$ 12,000	$ 13,823,000		$ 13,835,000

Table 8.2 Planning-level Estimate of Costs for 2035 Buildout.

Improvements	Existing Deficiencies[a]		Growth Related	Buildout	
	Comments	Budget Costs[d], dollars	Budget Costs[d], dollars	Comments	Budget Costs[d], dollars
COLLECTION SYSTEM 8 FACILITIES					
Existing Gravity Sewers		$ 156,000	$ 31,466,000		$ 31,622,000
Future Gravity Sewers[b]		$ -	$ 30,184,000		$ 30,184,000
Force Mains					
Arch Road PS FM		$ -	$ 1,581,000		$ 1,581,000
Backpressure Sustaining Facilities		$ -	$ -		$ -
Pump Stations					
Arch Road Industrial Park P.S	Future Replacement Pump Station	$ 449,000	$ 4,018,000	Future Replacement Pump Station	$ 4,467,000
County P.S. (Hospital)	Monitor actual run-times and/or flows	$ -	$ -	Assume removed from service at buildout. Must confirm grades are adequate for gravity flow.	$ -
Crossings		$ -	$ 4,300,000		$ 4,300,000
Subtotals		$ 605,000	$ 71,549,000		$ 72,154,000
COLLECTION SYSTEM 9 FACILITIES					
Existing Gravity Sewers		$ -	$ 5,453,000		$ 5,453,000
Future Gravity Sewers[b]		$ -	$ 5,100,000		$ 5,100,000
Force Mains					
Newton Road FM		$ -	$ 287,000		$ 287,000
Backpressure Sustaining Facilities		$ -	$ -		$ -
Pump Stations					
Origone PS	No Upgrade	$ -	$ 1,255,000	Replace pumps and controls	$ 1,255,000
Sanguinetti PS	No Upgrade	$ -	$ 2,372,000	Replace pumps and controls	$ 2,372,000
Newton Rd PS		$ -	$ 2,368,000	Future Pump Station	$ 2,368,000
Crossings		$ -	$ 4,000,000		$ 4,000,000
Subtotals		$ -	$ 20,835,000		$ 20,835,000
COLLECTION SYSTEM 10 FACILITIES					
Existing Gravity Sewers		$ 55,000	$ 16,380,000		$ 16,435,000
Future Gravity Sewers[b]		$ -	$ 25,139,000		$ 25,139,000
Pump Stations					
Brookside Pumping Station	No Upgrade	$ -	$ -	No Upgrade	$ -
Westlake P.S.	No Upgrade	$ -	$ -	No Upgrade	$ -
Sanctuary PS		$ -	$ 2,094,000	Future Pump Station	$ 2,094,000
Crossings		$ -	$ 10,100,000		$ 10,100,000
Subtotals		$ 55,000	$ 53,713,000		$ 53,768,000
COLLECTION SYSTEM 12 FACILITIES					
Existing Gravity Sewers		$ -	$ -		$ -
Future Gravity Sewers[b]		$ -	$ 26,768,000		$ 26,768,000
Force Mains					
Central Stockton FM		$ -	$ 23,232,000		$ 23,232,000
Backpressure Sustaining Facilities		$ -	$ 500,000		$ 500,000
Pump Stations					
Mariposa PS	Future Pump Station	$ -	$ 7,268,000	Future Pump Station	$ 7,268,000
Crossings		$ -	$ 6,600,000		$ 6,600,000
Subtotals		$ -	$ 64,368,000		$ 64,368,000
COLLECTION SYSTEM 13 FACILITIES					
Existing Gravity Sewers		$ -	$ -		$ -
Future Gravity Sewers[b]		$ -	$ 42,723,000		$ 42,723,000
Force Mains					
System 13 East PS FM		$ -	$ 353,000		$ 353,000
Tidewater PS FM		$ -	$ 9,706,000		$ 9,706,000
Backpressure Sustaining Facilities		$ -	$ 1,000,000		$ 1,000,000
Pump Stations					
System 13 East PS		$ -	$ 5,778,000	Future Pump Station	$ 5,778,000
Tidewater PS		$ -	$ 8,960,000	Future Pump Station	$ 8,960,000
Crossings		$ -	$ 12,200,000		$ 12,200,000
Subtotals		$ -	$ 80,720,000		$ 80,720,000
COLLECTION SYSTEM 14 FACILITIES					
Existing Gravity Sewers		$ -	$ -		$ -
Future Gravity Sewers[b]		$ -	$ 22,027,000		$ 22,027,000
Force Mains					
System14 PS FM		$ -	$ 2,443,000		$ 2,443,000
Backpressure Sustaining Facilities		$ -	$ -		$ -
Pump Stations					
System 14 PS		$ -	$ 3,436,000	Future Pump Station	$ 3,436,000
Crossings		$ -	$ -		$ -
Subtotals		$ -	$ 27,906,000		$ 27,906,000
COLLECTION SYSTEM 15 FACILITIES					
Existing Gravity Sewers		$ -	$ -		$ -
Future Gravity Sewers[b]		$ -	$ 34,771,000		$ 34,771,000
Force Mains					
Thompson PS FM		$ -	$ 515,000		$ 515,000
System 15 East PS FM		$ -	$ 9,230,000		$ 9,230,000
Gateway PS FM		$ -	$ 1,968,000		$ 1,968,000
System 15 FM		$ -	$ 5,973,000		$ 5,973,000

Table 8.2 Planning-level Estimate of Costs for 2035 Buildout.

Improvements	Existing Deficiencies[a]		Growth Related	Buildout	
	Comments	Budget Costs[d], dollars	Budget Costs[d], dollars	Comments	Budget Costs[d], dollars
Backpressure Sustaining Facilities		$ -	$ 1,000,000		$ 1,000,000
Pump Stations					
Thompson PS		$ -	$ 1,256,000	Future Pump Station	$ 1,256,000
Gateway PS		$ -	$ 3,074,000	Future Pump Station	$ 3,074,000
System 15 East PS		$ -	$ 5,303,000	Future Pump Station	$ 5,303,000
Crossings		$ -	$ 22,200,000		$ 22,200,000
Subtotals		$ -	$ 85,290,000		$ 85,290,000
SHARED FACILITIES					
Force Mains					
Westside Parallel FM		$ -	$ 26,000,000	Serves Systems 10, 1, and 15	$ 26,000,000
Smith Canal FM West		$ 551,000	$ 3,689,000	Serves Systems 2, 3, and 9	$ 4,240,000
Smith Canal FM East		$ 328,000	$ 6,154,000	Serves Systems 2, 3, and 9	$ 6,482,000
Weston Ranch P.S. FM	Exceeds capacity; however other FM facilities exist to address this issue	$ -	$ -	Serves Systems 8 and 14	$ -
Backpressure Sustaining Facilities		$ -	$ 1,000,000		$ 1,000,000
Pump Stations					
Smith Canal Pump Station	Monitor flow split. Adjust as appropriate	$ -	$ 9,885,000	Replace pumps and controls	$ 9,885,000
Weston Ranch P.S.	No Upgrade	$ -	$ 5,388,000	Construct new pump station with required additional capacity	$ 5,388,000
14 Mile Slough PS	No Upgrade	$ -	$ 14,202,000	Construct new pump station with required additional capacity	$ 14,202,000
Crossings		$ -	$ 3,600,000		$ 3,600,000
Subtotals		$ 879,000	$ 69,918,000		$ 70,797,000
SUMMARY					
Existing Gravity Sewers		$ 26,850,000	$ 149,515,000		$ 176,365,000
Future Gravity Sewers[b]		$ -	$ 201,279,000		$ 201,279,000
Force Mains		$ 893,000	$ 96,775,000		$ 97,668,000
Pump Stations		$ 10,024,000	$ 84,479,000		$ 94,503,000
Crossings		$ -	$ 67,200,000		$ 67,200,000
RWCF Improvements[e]		$ -	$ 417,250,000		$ 417,250,000
GRAND TOTAL		$ 37,767,000	$ 1,016,498,000		$ 1,054,265,000

Notes

[a] Only fractional quantities of each gravity sewer total are used for projecting CIP costs (refer to Table 4 5). It is recommended that the City implement a field investigation program to verify the necessity of trunk sewer replacements before initiating CIPs.

[b] Costs provided for gravity sewers 18 inches and larger only and for all force mains (irrespective of diameter).

[c] Intermediate pump station

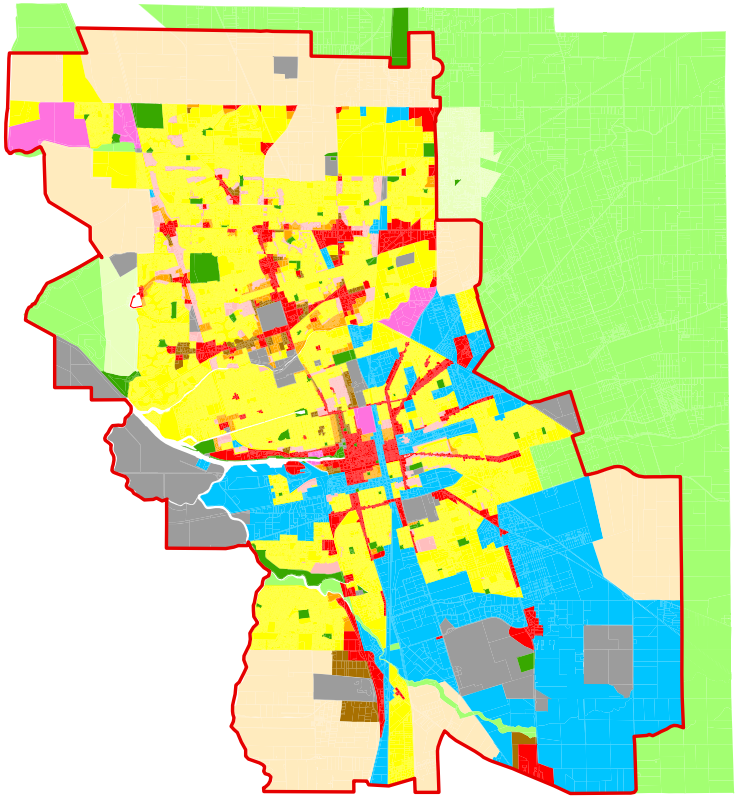
[d] Planning level estimate of construction cost only. All costs are in current dollars (August 2007, ENR 20-Cities Average Construction Cost Index = 8007). Excludes Construction Contingencies, Engineering, Administration, Property Acquisition.

[e] Refer to Appendix for cost details.

APPENDIX A

Comparison Buildout Land Use Maps

2035 General Plan Adopted Land Use Plan



Refined Land Use Map for the COS MUD 2035 Wastewater Master Plan

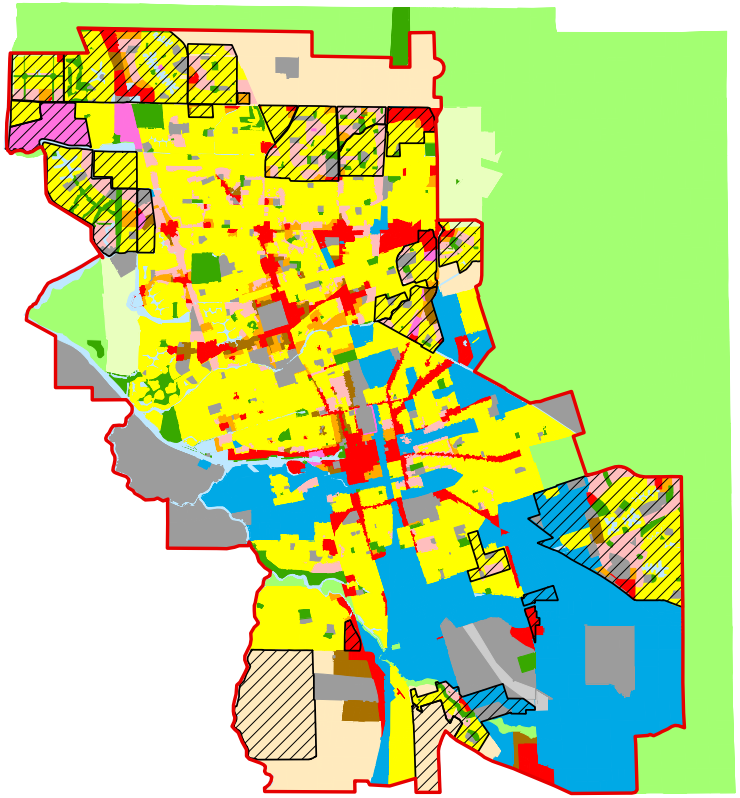


FIGURE A-1

City of Stockton
Municipal Utilities Department
2035 Wastewater Master Plan

COMPARISON OF ADOPTED GENERAL PLAN TO LAND USE USED IN THE 2035 WASTEWATER MASTER PLAN

N

0 1.25 2.5 5
Scale in Miles

NOTES:

- Refined map corrected to include existing Schools, Parks, Hospitals, and Golf Courses
- Refined map includes input from developers obtained on 9/29/2006 during a meeting between the development community and COS MUD staff
- Not all plans incorporated as they are still under review by the planning department

LEGEND:

- Proposed 2035 Urban Services Boundary
- Areas Represented by a Developer
- Residential Estate
- Low Density Residential
- Medium Density Residential
- High Density Residential
- Commercial
- Administrative Professional
- Industrial
- Institutional
- Parks and Recreation
- Open Space/Agriculture
- Mixed Use
- Village
- Waterways
- Runway

WEST YOST ASSOCIATES Consulting Engineers

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APPENDIX B

Special Case Discharger Data

Table B-1. Special Case Discharger Flow Data

	Total Monthly Flow for Year 2002 (MG/Month)											
Company[1]	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02
American Sunny Foods	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.27	0.03	0.01	0.19
Air Products	1.80	1.68	1.62	1.75	1.83	1.87	1.89	1.86	1.79	1.88	1.29	1.47
BJJ Trucking	0.28	0.18	0.36	0.32	0.24	0.26	0.33	0.33	0.24	0.33	0.29	0.23
Duraflame												
California Cedar Products	0.90	0.63	0.95	0.91	1.20	0.79	0.38	0.65	0.54	0.47	0.47	0.53
Cintas Corporation												
California Spray Dry Co.	3.14	3.11	3.41	3.09	3.54	2.21	2.65	2.80	2.87	3.43	3.65	3.92
California Tank lines	7.29	0.62	0.80	0.70	0.73	0.69	0.72	0.80	0.73	0.77	0.66	0.69
Corn Products Corp.	18.14	17.40	19.71	19.31	19.07	16.24	17.48	17.38	18.08	19.63	19.05	20.56
Del Monte Foods, U.S.A.	0.52	0.43	1.55	1.38	2.65	2.02	0.29	0.17	0.10	0.04	0.63	1.71
Diamond of California	4.89	4.33	5.19	3.56	4.46	4.88	4.91	5.32	5.69	5.54	5.06	4.57
H.J. Heinz	3.78	3.11	2.65	2.90	2.28	4.42	26.24	45.53	43.93	14.72	2.11	1.86
Hormel	10.53	7.76	7.86	7.49	7.55	5.92	9.25	11.95	11.80	9.99	10.96	9.87
Aurora Holding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Newark Sierra Paperboard	15.00	10.80	12.53	13.36	15.42	14.66	15.82	17.22	16.71	18.76	18.16	15.43
POSDEF Company	2.94	3.08	4.09	3.17	2.42	2.54	2.58	2.50	2.43	2.57	3.61	2.96
Zacky Kitchens	2.77	2.79	2.96	2.55	4.22	3.86	3.91	3.65	3.28	3.31	3.97	3.45
Campbell Soup Supply	0.00	0.00	0.00	0.00	0.00	0.00	43.83	62.55	48.12	0.00	0.00	0.00
Unilever Bestfoods	1.94	0.45	2.10	0.95	0.92	2.05	22.74	54.43	48.91	19.41	1.44	7.21
Sodexho	0.00	0.00	0.62	3.17	7.30	6.59	6.76	7.09	6.76	6.86	6.93	6.44
Grimaud Farms			0.43	0.45	0.41	0.42	0.43	0.43	0.39	0.47	0.45	0.52
Unifirst Corp												
Stockton Sanitary Wash Rack												
Tankerwash USA												
Creative Research Management												
McCormick & Baxter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Port of Stockton - Rough and Ready	14.49	8.96	10.66	8.10	7.13	4.71	4.35	2.53	2.53	3.06	4.42	11.94
Northern California Youth Center	13.36	14.29	12.87	11.16	11.58	10.79	10.82	10.30	10.79	14.34	12.15	9.80
San Joaquin County - French Camp	8.89	7.86	13.19	13.31	17.88	14.85	7.33	16.53	25.17	13.82	11.70	10.47
Parsons Engineering Science	0.00	0.58	0.69	0.62	0.65	0.61	0.54	0.40	0.36	0.55	0.44	0.48
Total[4]	110.67	88.04	104.24	98.25	111.48	100.38	183.23	264.46	251.48	139.96	107.45	114.32

	Total Monthly Flow for Year 2003 (MG/Month)											
Company[1]	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Jul-03	Aug-03	Sep-03	Oct-03	Nov-03	Dec-03
American Sunny Foods	0.29	0.13	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Air Products	1.89	1.54	1.82	1.58	1.90	1.86	1.77	1.63	1.65	1.61	1.50	1.70
BJJ Trucking	0.25	0.25	0.27	0.26	0.24	0.27	0.31	0.24	0.23	0.27	0.19	0.25
Duraflame												
California Cedar Products	0.49	0.53	0.51	0.43	0.35	0.43	0.28	0.31	0.35	0.33	0.17	0.37
Cintas Corporation												
California Spray Dry Co.	3.50	2.85	2.87	3.09	2.84	2.54	2.82	3.94	2.87	3.09	2.60	3.00
California Tank lines	0.73	0.62	0.66	0.63	0.63	0.71	0.70	0.79	0.85	0.84	0.64	0.71
Corn Products Corp.	21.51	19.50	20.88	20.65	23.90	21.36	21.66	19.58	21.03	21.33	18.50	18.43
Del Monte Foods, U.S.A.	0.40	0.55	1.00	0.79	0.12	0.00	0.00	0.00	0.84	0.01	0.23	0.64
Diamond of California	5.67	4.13	4.23	4.85	5.73	7.01	6.33	5.96	7.07	8.38	6.23	5.04
H.J. Heinz	1.78	2.01	3.70	3.36	2.94	2.90	2.87	1.89	3.29	3.17	1.80	2.00
Hormel	10.53	7.93	8.90	6.16	7.08	5.34	10.26	10.91	11.22	7.24	11.47	10.25
Aurora Holding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Newark Sierra Paperboard	13.31	14.84	6.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POSDEF Company	4.01	3.19	3.47	2.96	2.38	2.60	2.82	3.13	4.68	3.89	2.52	4.02
Zacky Kitchens	3.28	3.92	3.58	3.08	2.64	3.14	3.95	3.51	2.52	2.84	2.46	2.69
Campbell Soup Supply	0.00	0.00	0.00	0.00	0.00	0.00	25.40	45.34	34.47	0.00	0.13	0.00
Unilever Bestfoods	2.26	0.84	0.82	1.29	0.15	1.54	11.75	45.62	36.55	3.12	0.60	1.39
Sodexho	7.00	6.14	6.51	5.85	6.22	6.24	6.72	6.56	6.36	6.89	6.50	6.10
Grimaud Farms	0.44	0.35	0.38	0.41	0.35	0.39	0.42	0.41	0.44	0.47	0.50	0.57
Unifirst Corp										0.95	0.76	0.95
Stockton Sanitary Wash Rack								0.00	0.00	0.00	0.00	0.81
Tankerwash USA												
Creative Research Management												
McCormick & Baxter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Port of Stockton - Rough and Ready	10.59	7.57	6.72	7.11	6.41	4.40	3.30	3.42	2.67	3.11	4.40	8.31
Northern California Youth Center	9.50	7.51	6.03	5.77	5.92	6.94	7.50	7.41	7.25	6.58	5.50	6.36
San Joaquin County - French Camp	10.08	18.86	11.22	10.57	9.92	9.18	10.49	7.51	11.50	11.21	8.24	8.24
Parsons Engineering Science	0.45	0.45	0.51	0.51	0.50	0.47	0.40	0.40	0.29	0.33	0.43	0.48
Total[4]	107.95	103.71	90.12	79.36	80.98	77.32	119.76	168.55	156.13	85.66	75.38	82.33

Table B-1. Special Case Discharger Flow Data

	Total Monthly Flow for Year 2004 (MG/Month)											
Company[1]	Jan-04	Feb-04	Mar-04	Apr-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Oct-04	Nov-04	Dec-04
American Sunny Foods	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.35	0.28	0.06	0.21
Air Products	1.60	1.70	1.71	1.60	1.40	1.50	1.50	1.50	1.49	1.49	1.49	1.77
BJJ Trucking	0.28	0.27	0.30	0.28	0.25	0.28	0.30	0.30	0.29	0.29	0.27	0.30
Duraflame							0.33	0.26	0.31	0.39	0.20	0.36
California Cedar Products	0.40	0.45	0.13	0.22	0.18	0.20		0.00	0.00	0.00	0.00	0.00
Cintas Corporation									0.00	0.00	0.00	0.00
California Spray Dry Co.	2.91	2.19	3.05	2.30	2.42	2.36	2.75	2.52	2.90	3.28	3.16	3.22
California Tank lines	0.81	0.70	0.86	0.77	0.73	0.75	0.74	0.81	0.69	0.59	0.51	0.49
Corn Products Corp.	19.90	18.54	20.72	17.01	18.30	19.00	18.21	19.18	20.38	20.43	18.79	20.40
Del Monte Foods, U.S.A.	0.41	1.05	0.17	0.03	0.02	0.00	0.00	0.00	0.00	0.43	0.00	0.00
Diamond of California	4.56	4.29	5.73	4.45	5.26	5.93	5.21	6.84	6.64	6.81	5.91	5.52
H.J. Heinz	2.61	2.31	2.27	1.49	1.93	2.40	2.20	2.46	1.82	2.54	2.06	1.97
Hormel	9.50	8.68	8.86	6.24	8.39	7.94	7.62	11.18	10.49	6.87	9.03	8.24
Aurora Holding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Newark Sierra Paperboard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POSDEF Company	3.21	3.83	4.17	2.22	1.62	2.10	2.15	2.37	2.67	2.21	2.75	3.53
Zacky Kitchens	2.54	2.18	2.20	2.08	2.28	2.74	2.39	2.42	3.06	2.75	1.98	2.20
Campbell Soup Supply	0.00	0.00	0.00	0.00	0.00	0.00	39.67	47.78	32.54	0.00	0.00	0.00
Unilever Bestfoods	4.50	2.50	1.33	0.55	0.54	2.56	30.69	45.50	37.41	2.07	1.24	0.74
Sodexho	5.95	6.38	6.90	6.60	7.09	5.70	6.75	6.64	5.94	5.98	5.90	6.68
Grimaud Farms	0.40	0.38	0.41	0.40	0.39	0.43	0.47	0.54	0.49	0.49	0.57	0.59
Unifirst Corp	0.86	0.85	1.03	1.00	0.98	1.04	0.99	1.00	0.98	0.96	0.99	1.11
Stockton Sanitary Wash Rack	0.11	0.10	0.13	0.11	0.11	0.13	0.12	0.14	0.14	0.11	0.09	0.10
Tankerwash USA							0.00	0.00	0.00	0.14	0.18	0.23
Creative Research Management							0.00	0.00	0.01	0.09	0.09	0.06
McCormick & Baxter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Port of Stockton - Rough and Ready	9.56	12.14	10.19	5.82	3.54	4.13	3.47	2.95	2.99	5.25	6.33	10.64
Northern California Youth Center	6.30	6.10	6.23	5.30	8.70	11.50	14.55	12.94	6.65	6.37	6.27	5.83
San Joaquin County - French Camp	8.98	7.91	9.29	8.76	8.45	9.55	10.14	10.13	9.68	9.10	7.36	7.47
Parsons Engineering Science	0.59	0.56	0.59	0.54	0.58	0.46	0.40	0.35	0.33	0.34	0.25	0.26
Total[4]	86.00	83.12	86.26	67.76	73.18	80.70	150.66	177.84	148.25	79.26	75.49	81.94

	Total Monthly Flow for Year 2005 (MG/Month)											
Company[1]	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
American Sunny Foods	0.06	0.02	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00
Air Products	1.87	1.89	2.63	3.34	2.72	2.67	2.87	2.77	2.60	2.17	2.85	3.15
BJJ Trucking	0.28	0.23	0.24	0.33	0.34	0.30	0.32	0.40	0.28	0.29	0.23	0.21
Duraflame	0.48	0.26	0.25	0.22	0.13	0.08	0.04	0.05	0.02	0.14	0.13	0.17
California Cedar Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cintas Corporation	0.00	0.00	0.00	0.00	0.00	0.09	0.68	1.20	1.59	2.13	1.80	1.85
California Spray Dry Co.	3.11	2.50	3.42	2.92	3.03	2.94	2.35	2.78	2.44	2.67	2.73	2.97
California Tank lines	0.64	0.49	0.51	0.54	0.56	0.52	0.52	0.63	0.58	0.59	0.54	0.68
Corn Products Corp.	22.43	18.53	21.93	21.04	21.51	20.51	19.30	20.60	19.34	18.90	20.37	22.75
Del Monte Foods, U.S.A.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Diamond of California	5.15	4.70	4.67	4.97	5.46	5.63	7.18	7.76	7.22	8.37	6.13	5.60
H.J. Heinz	2.65	2.42	2.85	2.60	2.76	2.80	1.94	2.37	2.18	2.15	1.84	1.87
Hormel	9.16	7.12	8.22	6.47	8.15	8.12	5.88	8.43	10.70	11.08	9.29	9.83
Aurora Holding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Newark Sierra Paperboard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
POSDEF Company	3.99	3.66	4.84	3.03	2.44	1.94	2.34	1.56	1.68	2.93	2.71	1.72
Zacky Kitchens	2.10	1.65	2.19	1.86	1.55	1.55	1.57	2.19	2.21	1.78	1.81	1.60
Campbell Soup Supply	0.00	0.00	0.00	0.00	0.00	0.00	28.33	51.77	35.09	0.00	0.00	0.00
Unilever Bestfoods	1.19	0.70	1.00	0.59	1.16	2.01	29.99	48.72	42.29	13.18	0.22	0.95
Sodexho	6.58	5.71	6.69	6.47	5.32	6.10	6.10	6.63	6.50	6.30	6.10	6.12
Grimaud Farms	0.56	0.52	0.57	0.54	0.56	0.62	0.54	0.62	0.60	0.71	0.80	0.82
Unifirst Corp	1.04	0.99	1.13	1.03	1.05	1.13	1.01	1.20	1.11	1.11	1.07	1.17
Stockton Sanitary Wash Rack	0.12	0.10	0.15	0.12	0.12	0.14	0.13	0.15	0.13	0.14	0.12	0.10
Tankerwash USA	0.22	0.21	0.28	0.23	0.25	0.28	0.22	0.23	0.29	0.27	0.28	0.30
Creative Research Management	0.09	0.14	0.08	0.07	0.62	0.15	0.11	0.26	0.11	0.14	0.16	0.17
McCormick & Baxter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Port of Stockton - Rough and Ready	16.37	14.77	15.16	10.32	8.40	5.65	5.23	3.84	3.42	3.47	5.77	10.98
Northern California Youth Center	5.14	6.90	5.08	5.03	4.76	5.03	6.60	6.70	6.85	6.75	6.38	6.36
San Joaquin County - French Camp	6.88	6.70	8.22	8.84	9.70	9.81	10.63	9.97	8.66	8.08	7.88	6.78
Parsons Engineering Science	0.47	0.38	0.31	0.53	0.59	0.55	0.48	0.38	0.30	0.40	0.39	0.43
Total[4]	90.59	80.57	90.42	81.11	81.20	78.62	134.46	181.22	156.17	93.76	79.60	86.57

Table B-1. Special Case Discharger Flow Data

	Summer Max Month Flow[2] (MG/Month)				Winter Max Month Flow[3] (MG/Month)				Overall Max Flow (MG/Month)
Company[1]	2002	2003	2004	2005	2002	2002-2003	2003-2004	2004-2005	2002-2005
American Sunny Foods	0.27	0.00	0.35	0.09	0.00	0.29	0.01	0.21	0.35
Air Products	1.89	1.90	1.50	2.87	1.80	1.89	1.71	3.34	3.34
BJJ Trucking	0.33	0.31	0.30	0.40	0.36	0.29	0.30	0.33	0.40
Duraflame	0.00	0.00	0.39	0.14	0.00	0.00	0.00	0.48	0.48
California Cedar Products	1.20	0.43	0.20	0.00	0.95	0.53	0.45	0.00	1.20
Cintas Corporation	0.00	0.00	0.00	2.13	0.00	0.00	0.00	0.00	2.13
California Spray Dry Co.	3.54	3.94	3.28	3.03	3.41	3.92	3.05	3.42	3.94
California Tank lines	0.80	0.85	0.81	0.63	7.29	0.73	0.86	0.64	7.29
Corn Products Corp.	19.63	23.90	20.43	21.51	19.71	21.51	20.72	22.43	23.90
Del Monte Foods, U.S.A.	2.65	0.84	0.43	0.00	1.55	1.71	1.05	0.00	2.65
Diamond of California	5.69	8.38	6.84	8.37	5.19	5.67	6.23	5.91	8.38
H.J. Heinz	45.53	3.29	2.54	2.80	3.78	3.70	2.61	2.85	45.53
Hormel	11.95	11.22	11.18	11.08	10.53	10.96	11.47	9.16	11.95
Aurora Holding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Newark Sierra Paperboard	18.76	0.77	0.00	0.00	15.00	18.16	0.00	0.00	18.76
POSDEF Company	2.58	4.68	2.67	2.93	4.09	4.01	4.17	4.84	4.84
Zacky Kitchens	4.22	3.95	3.06	2.21	2.96	3.97	2.69	2.20	4.22
Campbell Soup Supply	62.55	45.34	47.78	51.77	0.00	0.00	0.13	0.00	62.55
Unilever Bestfoods	54.43	45.62	45.50	48.72	2.10	7.21	4.50	1.24	54.43
Sodexho	7.30	6.89	7.09	6.63	3.17	7.00	6.90	6.69	7.30
Grimaud Farms	0.47	0.47	0.54	0.71	0.45	0.52	0.57	0.59	0.71
Unifirst Corp	0.00	0.95	1.04	1.20	0.00	0.00	1.03	1.13	1.20
Stockton Sanitary Wash Rack	0.00	0.00	0.14	0.15	0.00	0.00	0.81	0.15	0.81
Tankerwash USA	0.00	0.00	0.14	0.29	0.00	0.00	0.00	0.28	0.29
Creative Research Management	0.00	0.00	0.09	0.62	0.00	0.00	0.00	0.14	0.62
McCormick & Baxter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Port of Stockton - Rough and Ready	7.13	6.41	5.25	8.40	14.49	11.94	12.14	16.37	16.37
Northern California Youth Center	14.34	7.50	14.55	6.85	14.29	12.15	6.36	6.90	14.55
San Joaquin County - French Camp	25.17	11.50	10.14	10.63	13.31	18.86	9.29	8.84	25.17
Parsons Engineering Science	0.65	0.50	0.58	0.59	0.69	0.51	0.59	0.53	0.69
Total[4]	264.46	168.55	177.84	181.22	110.67	114.32	86.26	90.59	264.46

	Average Flows (MG/Month)				Average Winter Flow[5] (MG/Month)			
Company[1]	2002	2003	2004	2005	2002	2002-2003	2003-2004	2004-2005
American Sunny Foods	0.05	0.04	0.08	0.01	0.00	0.11	0.00	0.06
Air Products	1.73	1.70	1.56	2.63	1.71	1.60	1.64	2.16
BJJ Trucking	0.28	0.25	0.28	0.29	0.28	0.26	0.26	0.27
Duraflame	0.00	0.00	0.15	0.17	0.00	0.00	0.00	0.30
California Cedar Products	0.70	0.38	0.13	0.00	0.85	0.49	0.29	0.00
Cintas Corporation	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.00
California Spray Dry Co.	3.15	3.00	2.75	2.82	3.19	3.31	2.68	3.05
California Tank lines	1.27	0.71	0.71	0.57	2.35	0.67	0.75	0.53
Corn Products Corp.	18.50	20.69	19.24	20.60	18.64	20.36	18.85	20.52
Del Monte Foods, U.S.A.	0.96	0.38	0.18	0.00	0.97	0.85	0.42	0.00
Diamond of California	4.87	5.88	5.60	6.07	4.49	4.75	5.05	5.15
H.J. Heinz	12.79	2.64	2.17	2.37	3.11	2.47	2.08	2.43
Hormel	9.24	8.94	8.59	8.54	8.41	9.06	9.17	8.04
Aurora Holding	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Newark Sierra Paperboard	15.32	2.91	0.00	0.00	12.92	11.29	0.00	0.00
POSDEF Company	2.91	3.31	2.74	2.74	3.32	3.37	3.33	3.64
Zacky Kitchens	3.39	3.13	2.40	1.84	2.77	3.55	2.36	2.00
Campbell Soup Supply	12.88	8.78	10.00	9.60	0.00	0.00	0.02	0.00
Unilever Bestfoods	13.55	8.83	10.80	11.83	1.36	2.31	1.81	0.91
Sodexho	4.88	6.42	6.38	6.22	0.95	6.48	6.41	6.34
Grimaud Farms	0.37	0.43	0.46	0.62	0.22	0.42	0.44	0.56
Unifirst Corp	0.00	0.22	0.98	1.09	0.00	0.00	0.91	1.05
Stockton Sanitary Wash Rack	0.00	0.07	0.12	0.13	0.00	0.00	0.21	0.11
Tankerwash USA	0.00	0.00	0.04	0.25	0.00	0.00	0.00	0.22
Creative Research Management	0.00	0.00	0.02	0.17	0.00	0.00	0.00	0.09
McCormick & Baxter	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Port of Stockton - Rough and Ready	6.91	5.67	6.42	8.62	10.55	8.06	8.40	12.27
Northern California Youth Center	11.85	6.85	8.06	5.97	12.92	8.46	5.96	5.71
San Joaquin County - French Camp	13.42	10.59	8.90	8.51	10.82	12.15	8.57	7.58
Parsons Engineering Science	0.49	0.44	0.44	0.43	0.47	0.47	0.53	0.37
Total[4]	139.50	102.27	99.20	102.86	100.30	100.48	80.14	83.35

Table B-1. Special Case Discharger Flow Data

	Average Summer Flow[5] (MG/Month)			
Company[1]	2002	2003	2004	2005
American Sunny Foods	0.06	0.00	0.11	0.01
Air Products	1.85	1.74	1.48	2.63
BJJ Trucking	0.29	0.26	0.29	0.32
Duraflame	0.00	0.00	0.22	0.08
California Cedar Products	0.67	0.34	0.06	0.00
Cintas Corporation	0.00	0.00	0.00	0.95
California Spray Dry Co.	2.92	3.02	2.70	2.70
California Tank lines	0.74	0.76	0.72	0.56
Corn Products Corp.	17.98	21.48	19.25	20.03
Del Monte Foods, U.S.A.	0.88	0.16	0.08	0.00
Diamond of California	5.13	6.74	6.11	6.94
H.J. Heinz	22.85	2.84	2.23	2.37
Hormel	9.41	8.67	8.75	8.73
Aurora Holding	0.00	0.00	0.00	0.00
Newark Sierra Paperboard	16.43	0.13	0.00	0.00
POSDEF Company	2.51	3.25	2.19	2.15
Zacky Kitchens	3.70	3.10	2.61	1.81
Campbell Soup Supply	25.75	17.54	20.00	19.20
Unilever Bestfoods	24.74	16.46	19.79	22.89
Sodexho	6.89	6.50	6.35	6.16
Grimaud Farms	0.42	0.41	0.47	0.61
Unifirst Corp	0.00	0.16	0.99	1.10
Stockton Sanitary Wash Rack	0.00	0.00	0.13	0.14
Tankerwash USA	0.00	0.00	0.02	0.26
Creative Research Management	0.00	0.00	0.02	0.23
McCormick & Baxter	0.00	0.00	0.00	0.00
Port of Stockton - Rough and Ready	4.05	3.89	3.72	5.00
Northern California Youth Center	11.44	6.93	10.12	6.12
San Joaquin County - French Camp	15.93	9.97	9.51	9.48
Parsons Engineering Science	0.52	0.40	0.41	0.45
Total[4]	175.16	114.73	118.31	120.90

1. The companies listed include industrial dischargers for the time period between January 2002 and December 2005. There are other dischargers modeled (County Hospital, St. Joseph's Hospital, Navy Communications, Angelica Textile Services, New Stockton Poutry, and Niagara Bottling) for which data has not been gathered and therefore are not included in this summary.
2. For 2002, 2003, 2004, & 2005 summer is defined to be from May to Oct. inclusive.
3. For 2002, winter is defined to be from Jan. to April inclusive, and for 2002-2003, 2003-2004, and 2004-2005 it is from Nov. to Apri inclusive.
4. "Total" represents the monthly total flow for the columns that are specified by a month and year. For the maximum month flows, "total" means that the value is the maximum "total" month value that was found previously. The "total" for the average flow column is the sum of the averages for all of the industrial companies for that year. The other dischargers during these time periods have not been included here.
5. Winter 2002 only contains data from January 2002 through April 2002.

APPENDIX C

Comparison of Peak Flows Computed with City Standards to Peak Flows Generated by Wastewater Master Plan Model (HYDRA)

Appendix C

Discussion of Peak Sanitary Flows Produced by the Wastewater Master Plan Model

The City directed WYA to implement the City's standard peaking factor method to estimate peak sanitary flows in the Wastewater Master Plan hydraulic model. Figure C-1 illustrates how well the peak flows produced by the Master Plan model simulate the City Standard. Figure C-1 uses three different symbols to represent the ratio of the peak to average sanitary flow. A detailed explanation of each of the three symbols follows.

1. Square points – These points represent individual pipelines for which peak flows were computed using City Standards. The pipelines selected for these points were sewers with easily computed upstream acreage and land use. Additionally, the selected pipelines were selected over a wide range of diameters (and thus flows) encountered within the model. Hand calculations were used to determine the peak flows in these pipes according to City Standards.

2. Solid line – This trace is a simulation of City Standard peak flows. The trace produced by applying the City Standard (i.e. using the City's equations for both peaking factor computations and peak flow computations) over a wide range of incremental average flows. The trace was generated by first applying City Standards to each average sanitary flow value over the selected range to compute the peaking factors. Then the resulting peak factors were applied to the summation of average flow and I&I values over the range to compute peak flows. It was necessary to back-calculate the I&I component of flow used in the peak flow calculations. Computing I&I was accomplished by applying a factor of 400 gpd/acre to the upstream areas draining to a sewer line. Since average flows in this trace are theoretical (i.e peak flows are being computed with incremental average flow values not based upon any particular pipeline in the collection system) an upstream acreage estimate was required for the I&I portion of the flow calculation. The acreage was estimated for each average flow value by developing a relationship between average flow and acreage and then applying the I&I factor to the resulting acreage. The average flow-to-acreage relationship was developed by using the City design flow factor of 300 gpd/DU for single family residential land use in conjunction with an average buildout density. However, City Standards do not specify an average buildout density. Therefore it was necessary to estimate an appropriate density that best fits computed flows for actual sample locations which are represented by the square points, described above. The trace can then be used to compare with model results over a wide range of flows and areas. For a given buildout density, the upstream acreage was estimated by dividing the 300 gpd/DU factor by the buildout density value. Using this buildout density-to-upstream acreage relationship, it was determined that the trace simulating City Standard peak flows best fit the square points on the plot (i.e. City Standard peak flows computed based upon actual collection system tributary areas and densities) when a buildout density of 5.5 DUEs/acre was selected.

3. Triangular points – The triangular plotted points on Figure C-1 represent individual pipes modeled in the Wastewater Master Plan hydraulic model. City design standards use an average I&I rate of 400 gpd/ac which is then peaked using peaking factor equations resulting in a peak I&I range of approximately 540 to 3,400 gpd/ac depending on the

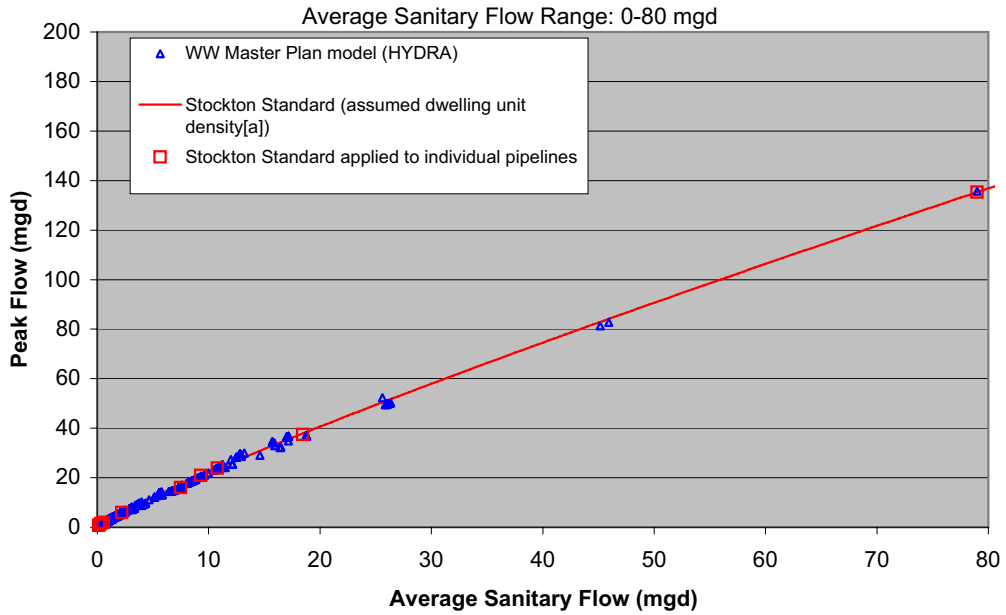
magnitude of total average sanitary flow from the upstream area draining to the pipeline being designed.

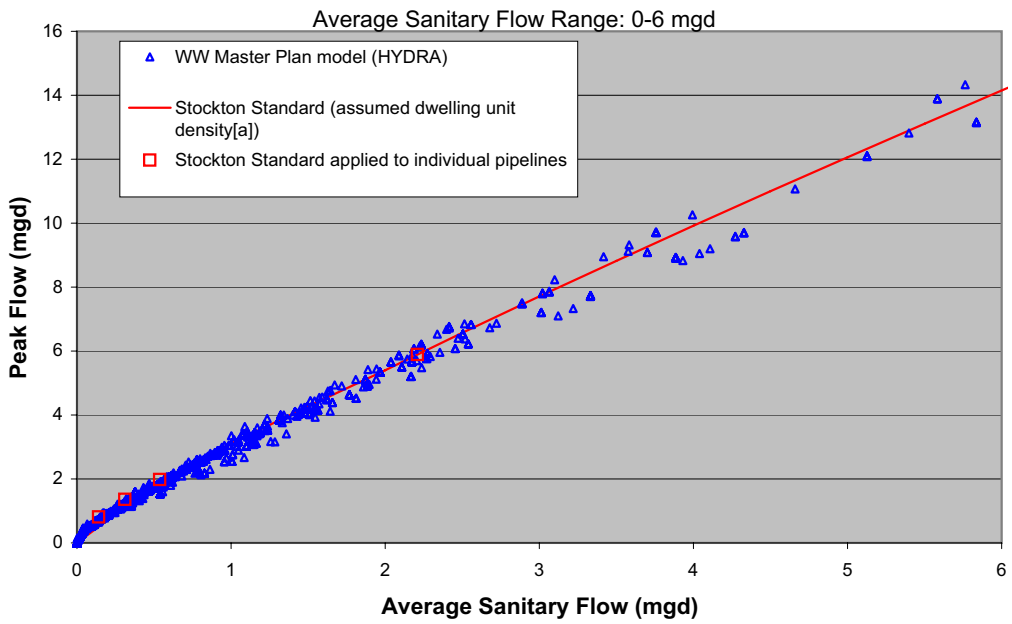
The HYDRA software used for developing the Wastewater Master Plan hydraulic model is designed to apply a peaking factor to the sanitary flow only. To simulate City Standards, it was necessary to develop a "peak I&I" rate for the design flow estimate. The peak I&I rate reflects the approximate typical product of the City design standard I&I rate and the variable peaking factor. Initially, WYA attempted to apply a single I&I rate to predict peak I&I. This approach produced modeled peak flow results that over-predicted City standards in pipelines with higher flows and under-predicted City standards in pipelines with lower flows. To more accurately duplicate City standards for peak flow in pipelines, it was necessary to apply three different I&I rates based upon pipeline diameter range:

- Less than or equal to 42-inch diameter; I&I rate = 700 gpd/ac
- 48-inch to 66-inch diameter; I&I rate = 650 gpd/ac
- Greater than 66-inch diameter; I&I rate = 550 gpd/ac

The triangular points plotted on Figure C-1 represent the resulting relationship between peak flows and average flows produced by the hydraulic model for each modeled pipeline. By inspection of the triangular points, the model produces peak flow results in the sewers that closely duplicate City standards.

Figure C-1. Comparison of Peak Flows Computed With City Standards To Peak Flows Generated By the Wastewater Master Plan Model (HYDRA)





[a] To compute peak flows using average flows using City standards, an assumption was required about the upstream development density to obtain the I&I portion of flow, since peak flow is the sum of average flow and I&I, peaked with the City peaking factor equation. A development density assumption of 5.5 DU/acre was selected by comparing peak flows computed using City standards and the development density assumption to peak flows computed using City standards and actual densities upstream of several pipes over a wide range of average flows throughout the City.

APPENDIX D

Basis of Unit Costs

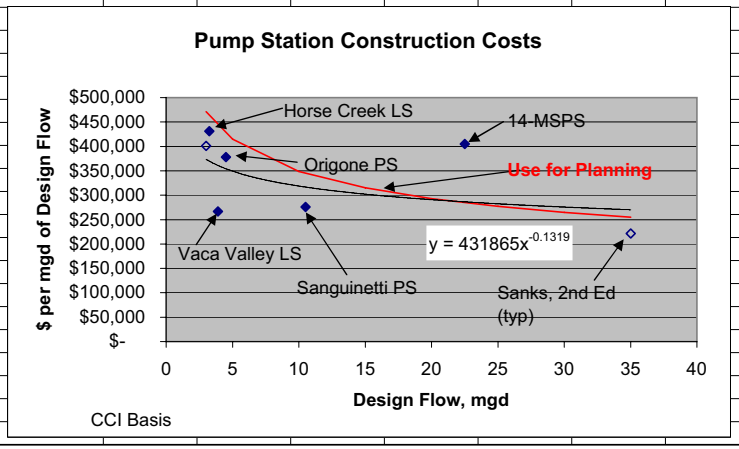
Basis of Unit Costs

Item Description	Examples		Value Selected	Current Unit Cost	Units
	Engineering News Record, 20-Cities Avg. Construction Cost Index				
	Basis (upon)		Basis	Current	
	7312		7312	8007	Aug-07
Pump Stations					
See "PS Unit Cost" Tab					
Use The Following For PS Construction Costs:					
Basis: ENR 20-Cities CCI = 8007 (Aug-2007)	7298				
Cost = 680,000xQdes^0.75	620,000			$ 680,000	Constant
Unit Cost ($/mgd) = Constant x Qdes ^ Exponent	-0.25			-0.25	Exponent
Large Diameter Gravity Sewer w/ manholes					
In Street, few conflicts	$ 11.06	$/in-diam/ft			
In Street, typical conflicts	$ 16.21	$/in-diam/ft			
Use higher basis cost than typical to account for additional unknowns (groundwater, additional conflicts).			18	20	$/in-diam/ft
Large Diameter Force Main w/ valves and appurtenances					
Single, In Street, few conflicts	$ 8.75	$/in-diam/ft			
Single, In Street, many conflicts	$ 11.67	$/in-diam/ft			
Single, New Development, before streets	$ 4.46	$/in-diam/ft			
Dual, Long Distance, Rural Roads (Planning Estimate)	$ 12.72	$/in-diam/ft			
Dual, rural area, 1 diameter separation (bid)	$ 13.85	$/total inch-diam/ft			
USE FOR PLANNING			14	15	$/in-diam/ft
Replacement Gravity Sewer					
Add 30% to New Sewer Unit Cost			23	25	$/in-diam/ft
Waterway or Major Highway Crossing					
Delta streams / channels or highway, HDD	$ 21.86	$/in-diam/ft			
Canal, open cut	$ 23.06	$/in-diam/ft			
Small Seasonal Stream, open cut	$ 26.25	$/in-diam/ft			
USE FOR PLANNING			25	27	$/in-carrier diam/ft
OR, For undefined crossings					
Large Channel: Assume 700 lf, 54-inch diam.			945,000	1,000,000	$, Each
Small Channel: Assume 400 lf, 48-inch diam.			480,000	500,000	$, Each
Major Highway Crossing (about 500 lf, 60-inch diam.)			750,000	800,000	$, Each
Minor Highway Crossing (about 350 lf, 54-inch diam.)			472,500	500,000	$, Each
Miscellaneous - USE FOR PLANNING					
Backpressure Sustaining Valve Vault Facility (11 mgd, 24-inch diam.)			300,000		$, Each
Backpressure Sustaining Valve Vault Facility (49 mgd, 48-inch diam.)			600,000		$, Each
Use average for planning:			450,000	500,000	$, Each
Railroad Crossing (Assume single track)			200,000	220,000	
- Assume typical crossing has two tracks adding 40% to single track cost			275,000	300,000	
Property Acquisition - USE FOR PLANNING					
Pipelines				7%	of pipeline construction cost
Pump Stations				0%	negligible if not included in pipeline property acquisition

Basis of Unit Costs

				Check Sanks Curves	
		ENR			
		7298		4500	
Data Source	Q des, mgd	$/mgd	$	$ (computed)	gpm
Sanks, 2nd Ed.	3	$ 400,729	$ 1,202,186	$ 741,277	2,083
Horse Creek Lift Station	3.26	$ 431,434	$ 1,406,476		2,264
Vaca Valley Parkway Lift Station	3.90	$ 267,026	$ 1,041,402		2,708
Origone Pump Station	4.5	$ 378,000	$ 1,701,000	$ 1,048,849	3,125
Sangunetti Pump Station	10.5	$ 276,000	$ 2,898,000	$ 1,786,928	7,292
14-Mile Slough Pump Station	22.5	$ 404,707	$ 9,105,914	$ 5,614,773	15,625
Sanks, 2nd Ed.	35	$ 221,784	$ 7,762,430	$ 4,786,371	24,306
	Basis of CCI:	7298	8007		
	Constant:	620000	680000		
	Exponent:	-0.25	0.75		
	Basis of CCI:	7298	8007		
	Q des, mgd	$/mgd	$		
	3	$ 471,098	1,550,000		
	5	$ 414,619	2,270,000		
	10	$ 348,652	3,820,000		
	15	$ 315,042	5,180,000		
	20	$ 293,180	6,430,000		
	25	$ 277,272	7,600,000		
	30	$ 264,918	8,720,000		
	35	$ 254,903	9,780,000		
	Use The Following For PS Construction Costs:				
	Cost = 680,000xQdes^0.75				
	Basis: ENR 20-Cities CCI = 8007 (Aug-2007)				

See Sanks, 2nd Edition, Figures 29-2 and 29-3:
The costs are near high end of range for submersible and mid to high end for wet pit-dry pit.
Use rounded-up constant and exponent values to be conservative.



Basis of Unit Costs

Source Data For Unit Cost Derivation						
Item Description	Unit Cost	Unit	Unit Cost	Unit		Source:
						Stockton Wastewater Collection System 9
Stockton Wastewater Collection System 9 (Bid: Design-Build GMP)						*Project Cost Estimate (ENR 20-Cities CCI = 7298, Sept. '04)*
24" diam. Force Main in streets, mature development area	$ 280	LF	$ 11.67	$/inch-diam/ft		24" dia. force main (FM) from Country Club to limit of Bid Item A (excluding pavement repairs)
24" diam. Force Main, before streets	$ 107	LF	$ 4.46	$/inch-diam/ft		24" dia. FM - Bid Item A (no traffic control, paving)
Backpressure Sustaining Valve Vault Facility (11 mgd)	$ 220,000	LS	$ 220,000	Each		Backpressure Sustaining Valve Vault Facility (11 mgd)
Railroad Crossing	$ 110,000	LS	$ 110,000	Track		Two Union Pacific Crossings
10.5 mgd Pump Station, about 30 ft deep w/ shoring	$ 2,900,000	LS	$ 276,000	$/mgd		Sanguinetti Pumping Station (PS)
4.5 mgd Pump Station, about 30 ft deep, some shoring	$ 1,700,000	LS	$ 378,000	$/mgd		North Pump Station
36" diam. Gravity Sewer in major street, few conflicts	$ 400	LF	$ 11.11	$/inch-diam/ft		36" dia. sewer from Wilson - McAllen intersection to Diverting Canal
30" diam. Gravity Sewer in orchard and highway shoulder	$ 330	LF	$ 11.00	$/inch-diam/ft		30" dia. sewer from Calaveras River to Wilson - McAllen intersection
16" diam. Force Main in orchard and frontage road	$ 140	LF	$ 8.75	$/inch-diam/ft		16" dia. FM from North PS to Calaveras River
Canal Crossing, open cut, 36" diam. carrier pipe	$ 830	LF	$ 23.06	$/inch carrier ID/ft		36" dia. sewer at Diverting Canal Crossing - Open Cut
River Crossing, small seasonal stream, open cut, 16" diam. carrier pipe	$ 420	LF	$ 26.25	$/inch carrier ID/ft		16" dia. FM at Calaveras River Crossing - Open Cut
Bore & Jack under high road embankment	$ 1,400	LF	$ 38.89	$/inch carrier ID/ft		36" dia. sewer from Wilson Way to limit of Bid Item C - Bore and Jack
Construction Contingency	5%					Construction Contingency
Engineering, Admin, Environmental	27%					Engineering, Admin, Environmental
14-Mile Slough Pump Station						*14-Mile Slough Pump Station - Winning Bid (ENR 20-Cities CCI = 7700, June. '06)*
14 mgd Pump Station, high groundwater, poor soils	9,600,000	LS	$ 427,000	$/mgd		14-Mile Slough Pump Station winning bid ($12.6M) - levee costs removed ($3.5M), estimated cost of additional pump equipment added ($0.5M) to increase capacity from the currently constructed capacity of 14.5 mgd to the Phase 2 capacity of 22.5 mgd.
						Pump Station Construction Costs -- Vacaville, CA
Horse Creek Lift Station	$ 1,180,800	LS	$ 362,209	$/mgd		Firm Capacity = 3.26-mgd., Nov-1999 CCI=6127
Vaca Valley Parkway Lift Station	$ 839,486	LS	$ 215,253	$/mgd		Firm Capacity = 3.9-mgd., Apr-1998 CCI=5883
Yolo Force Main						
Yolo Force Main, twin 66-inch diameter FM, wide trench with 1 diameter separation between the two pipes, very little pavement replacement	$ 1,828	LF	$ 13.85	$/total inch-diam/ft		Yolo Force Main Bid Results
Union Sanitary District Bid Summaries - 4 Gravity Sewer Projects, mostly small diameter						
	Equiv. Diameter		Current Unit Cost -- Basis: ENR 20-Cities CCI = 8007 (Aug-2007)			
Jarvis Avenue (April 1997)	20.2		17.53	$/inch-diam/ft		
Peach Tree Ave. Corridor Sewer, Reach A (July 1994)	12.0		19.66	$/inch-diam/ft		
Wells Avenue Sewer Replacement (August 1992)	10.0		26.81	$/inch-diam/ft		
Montrose Avenue Sewer (January 1998)	11.5		25.74	$/inch-diam/ft		

Basis of Unit Costs

Item	Description	Quantity	Units	Unit Cost	Cost	Share of Spread Costs	DB Conting. Fund	Unit Cost Basis	Unit Cost		
1.	24" dia. force main (FM) from Country Club to limit of Bid Item A (excluding pavement repairs)	15,270	LF	200	$ 3,054,000	$ 597,000	$ 564,000	$ 4,215,000	280		
2.	24" dia. FM - Bid Item A (no traffic control, paving)	920	LF	78	$ 71,760	14,000	13,000	98,760	107		
4.	Backpressure Sustaining Valve Vault Facility (11 mgd)	1	LS	157,500	$ 157,500	31,000	29,000	217,500	220,000		
3.	Two Union Pacific Crossings	1	LS	160,000	$ 160,000	31,000	30,000	221,000	220,000		
6.	Sanguinetti Pumping Station (PS)	1	LS	2,126,934	$ 2,126,934	415,000	392,000	2,933,934	2,900,000		
13.	North Pump Station	1	LS	1,215,391	$ 1,215,391	237,000	224,000	1,676,391	1,700,000		
9.	36" dia. sewer from Wilson - McAllen intersection to Diverting Canal	4,092	LF	290	$ 1,186,680	232,000	219,000	1,637,680	400		
10.	30" dia. sewer from Calaveras River to Wilson - McAllen intersection	1,658	LF	237	$ 392,946	77,000	73,000	542,946	330		
12.	16" dia. FM from North PS to Calaveras River	2,678	LF	100	$ 267,800	52,000	49,000	368,800	140		
						-	-	-			
7.	36" dia. sewer at Diverting Canal Crossing - Open Cut	643	LF	600	$ 385,800	75,000	71,000	531,800	830		
11.	16" dia. FM at Calaveras River Crossing - Open Cut	300	LF	300	$ 90,000	18,000	17,000	125,000	420		
8.	36" dia. sewer from Wilson Way to limit of Bid Item C - Bore and Jack	177	LF	1,000	$ 177,000	35,000	33,000	245,000	1,400		
					$ 9,285,811	$ 1,814,000	$ 1,714,000	$ 12,813,811			
21.	Structure Backfill @ Pump Stations (90% compaction)	1	LS	incl.							
5.	Pavement Repairs from Country Club to Limit of Bid Item A	15,270	LF	incl.							
26.	Relocate Water and Sewer Laterals	1	LS	incl.							
20.	Air Quality Permit for Generator Sets	1	LS	incl.							
24.	Pershing Avenue	1	LS	incl.							
16.	Traffic Control	1	LS	incl.							
Spread Costs											
14.	Owner's Representative Temporary Field Office	1	LS	50,000	$ 50,000						
15.	Sheeting and Shoring	1	LS	402,000	$ 402,000						
17.	Mobilization / Demobilization	1	LS	753,000	$ 753,000						
22.	Material Cost Escalation	1	LS	227,700	$ 227,700						
23.	Trucking Surcharge	1	LS	81,000	$ 81,000						
27.	Winter Maintenance & Extended Overhead	1	LS	300,000	$ 300,000						
total, Soft Costs					$ 1,813,700						
	Initial Approved Contract Amount				***$ 11,099,511***						
	Contingency Fund				***$ 1,713,350***						
	Guaranteed Maximum Price				**$ 12,812,861**						
	City Construction Contingency	5	%		$ 555,000						
	Construction Budget				**$ 13,367,861**						
Engineering/ Environmental/ Financial/ Public Participation											
Phase 1	Phasing & Alignment Study, Financial Plan, Public Participation				$ 258,400						
Phase 2	DB Document Preparation, Public Participation, Phase I ESA, Geotechnical Investigation, Surveying & Mapping, Environmental Review & Documentation, Permitting				$ 740,000						
Phase 3	Design Phase Assistance, Construction Contract Administration, Construction Monitoring, Environmental Impact Mitigation Monitoring				$ 1,040,100						
18.	Design	1	LS	956,000	$ 956,000						
19.	Project Management & QA/QC	1	LS	205,000	$ 205,000						
25.	Pot Holing	1	LS	37,500	$ 37,500						
	Subtotal, Engineering/ Environmental/ Financial, Phases 1, 2, & 3				$ 3,237,000			$ 3,237,000	25.26%		
Administrative and Other Costs											
	City Costs (Staff)				$ 250,000			$ 250,000	1.95%		
	Property Acquisition Allowance				$ 250,000			$ 250,000	7%		% of gravity sewer cost
	Permit Fee Allowance				$ 20,000			$ 20,000	0.16%		Grav. Sewer was mix of purchased easement and road R/W. FM was primarily road R/W
											One pump station site required easement purchase - ignore this to be conservative.
Other Project Contingencies		0.0%			$ -						
	Estimate of Total Project Cost (excluding financing)				***$ 17,124,861***						

Basis of Unit Costs

Current CCI													
Aug-07	**Bid Summaries (Primarily from Union Sanitary District Projects => generally poor soils)**												
8007													
ENR CCI		Diameter,		Weighted	Bids				Bids at Current ENR (8007, Aug-07)			
20-Cities	Project Description	inches	Length, ft	Diameter	Low	Second	Average	High	Low	Second	Average	High
	Jarvis Avenue (April 1997)				1,321,321	1,395,950	1,617,818	2,199,000				
	21-inch Sanitary Sewer	21	5,860									
	8-inch Sanitary Sewer	8	286									
	10-inch Sanitary Sewer	10	18									
	12-inch Sanitary Sewer	12	156									
5799	Total Length		6,320	20.2	10.37 $/in/ft	10.96 $/in/ft	12.70 $/in/ft	17.26 $/in/ft	14.32 $/in/ft	15.13 $/in/ft	17.53 $/in/ft	23.83 $/in/ft
	Peach Tree Ave. Corridor Sewer, Reach A (July 1994)				569,919	591,181	599,148	638,638				
	8-inch Sanitary Sewer	8	784									
	8-inch Sanitary Sewer	8	799									
	15-inch Sanitary Sewer	15	403									
	15-inch Sanitary Sewer	15	1,760									
5409	Total Length		3,746	12.0	12.63 $/in/ft	13.11 $/in/ft	13.28 $/in/ft	14.16 $/in/ft	18.70 $/in/ft	19.40 $/in/ft	19.66 $/in/ft	20.96 $/in/ft
	Wells Avenue Sewer Replacement (August 1992)				582,324	720,348	734,777	844,645				
	8-inch Sanitary Sewer	8	2,417									
	12-inch Sanitary Sewer	12	1,726									
	15-inch Sanitary Sewer	15	237									
5032	Total Length		4,380	10.0	13.36 $/in/ft	16.52 $/in/ft	16.85 $/in/ft	19.37 $/in/ft	21.25 $/in/ft	26.29 $/in/ft	26.81 $/in/ft	30.82 $/in/ft
	Montrose Avenue Sewer (January 1998)				780,951	832,732	827,517	868,868				
	21-inch Sanitary Sewer	21	32									
	15-inch Sanitary Sewer	15	1,855									
	10-inch Sanitary Sewer	10	50									
	8-inch Sanitary Sewer	8	1,859									
	6-inch Sanitary Sewer	6	20									
5852	Total Length		3,816	11.5	17.75 $/in/ft	18.93 $/in/ft	18.81 $/in/ft	19.75 $/in/ft	24.29 $/in/ft	25.90 $/in/ft	25.74 $/in/ft	27.03 $/in/ft
	Washington Blvd. Sewer Relocation (September 2003)				1,008,000	1,051,988	1,081,216	1,164,105				
	8-inch Sanitary Sewer	8	37									
	10-inch Sanitary Sewer	10	1,604									
	30-inch Casing / Carrier B&J	30	218									
	18-inch Casing / Carrier O/C	18	180									
	30-inch Casing / Carrier O/C	30	80									
6741	Total Length		2,119	13.5	35.35 $/in/ft	36.89 $/in/ft	37.92 $/in/ft	40.82 $/in/ft	41.99 $/in/ft	43.82 $/in/ft	45.04 $/in/ft	48.49 $/in/ft
	Summary											
				Range								
	Project	Equiv. Diam.	Average Bid	High	Low							
	Jarvis Avenue (April 1997)	20.2	17.53 $/in/ft	23.83 $/in/ft	14.32 $/in/ft							
	Peach Tree Ave. Corridor Sewer, Reach A (July 1994)	12.0	19.66 $/in/ft	20.96 $/in/ft	18.70 $/in/ft							
	Wells Avenue Sewer Replacement (August 1992)	10.0	26.81 $/in/ft	30.82 $/in/ft	21.25 $/in/ft							
	Montrose Avenue Sewer (January 1998)	11.5	25.74 $/in/ft	27.03 $/in/ft	24.29 $/in/ft							

APPENDIX E

Flow Diversion Data Used for Modeling

APPENDIX E

Rating curves at diversions were developed from previous modeling work that related inflow to diverted flow for various water levels in diversion structures. Information was gathered from the previous model that related bypassed flow to water levels in diversions. The rating curves were used to determine the fraction of peak inflow diverted at a particular diversion. Because HYDRA splits average flows at diversions rather than peak flows, a relationship is required to relate peak flow to average flow in order to use the previously developed rating curves. To determine this peak to average flow relationship at a diversion, an estimate of inflow and infiltration (I&I) upstream of the diversion is required. An estimate of I&I flowing to the diversion is required because peak flow is computed as the sum of both average flow and I&I, with a peaking factor applied to the sum. The I&I portion of flow upstream of diversions was estimated with the following procedure: (1) Convert average inflow to the pipeline to dwelling unit equivalents (DUEs) upstream using the City Design Standard flow factor for Single Family Residential land use (300 gpd/unit); (2) Back-calculate upstream acreage to the diversion using an assumed average density of 5.5 DUEs per acre. The value of 5.5 DUEs per acre was selected by comparing peak flows computed for various areas of the City using City Standards to theoretical peak flows computed using various assumed densities. (3) I&I was computed by applying the City Standard I&I factor (400 gpd/acre) to the resulting acreage from Step 2.

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
DIV_34M044=0 0 5.3 0 7 0.6 9 1 16 1.5 17.5 2.3 17.6 2.4 19.1 3.1 20.3 3.9 21.6 4.7				
0 0 5.3 0 7 0.6 9 1 16 1.5 17.5 2.3 17.6 2.4 19.1 3.1 20.3 3.9 21.6 4.7				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
5.3	0	2.19	#N/A	-
7	0.6	3.10	0.21	7%
9	1	4.18	0.34	8%
16	1.5	8.07	0.52	6%
17.5	2.3	8.94	0.79	9%
17.6	2.4	8.99	0.83	9%
19.1	3.1	9.87	1.11	11%
20.3	3.9	10.58	1.49	14%
21.6	4.7	11.36	1.87	16%
				10%
DIV_34M027=0 0 0.6 0.6 1 1 1.5 1.5 2.3 2.3 2.4 2.4 3.1 2.5 3.9 2.9 4.7 3.1 8.2 5.5				
0 0 0.6 0.6 1 1 1.5 1.5 2.3 2.3 2.4 2.4 3.1 2.5 3.9 2.9 4.7 3.1 8.2 5.5				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
0.6	0.6	0.21	0.21	100%
1	1	0.34	0.34	100%
1.5	1.5	0.52	0.52	100%
2.3	2.3	0.79	0.79	100%
2.4	2.4	0.83	0.83	100%
3.1	2.5	1.11	0.86	78%
3.9	2.9	1.49	1.01	68%
4.7	3.1	1.87	1.11	59%
8.2	5.5	3.76	2.29	61%
				85%
DIV_33M079=0 0 6.2 0 8.2 1.4 9.5 2.5 10.1 2.8 10.9 3.2 11.7 3.5 13.1 4 14.3 4.5 15.5 5				
0 0 6.2 0 8.2 1.4 9.5 2.5 10.1 2.8 10.9 3.2 11.7 3.5 13.1 4 14.3 4.5 15.5 5				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
6.2	0	2.67	#N/A	-
8.2	1.4	3.76	0.48	13%
9.5	2.5	4.45	0.86	19%
10.1	2.8	4.77	0.97	20%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
10.9	3.2	5.21	1.16	22%
11.7	3.5	5.64	1.30	23%
13.1	4	6.42	1.54	24%
14.3	4.5	7.10	1.78	25%
15.5	5	7.78	2.03	26%
				22%

DIV_34N092=0 0 25.6 0 28.7 1.4 36 5.5 45.8 12.4 49.2 13.8 53.8 14.8 62.9 17.4 70.9 19.6 78 21.6

0 0 25.6 0 28.7 1.4 36 5.5 45.8 12.4 49.2 13.8 53.8 14.8 62.9 17.4 70.9 19.6 78 21.6

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
25.6	0	13.79	#N/A	-
28.7	1.4	15.71	0.48	3%
36	5.5	20.35	2.29	11%
45.8	12.4	26.79	6.03	23%
49.2	13.8	29.07	6.81	23%
53.8	14.8	32.20	7.38	23%
62.9	17.4	38.49	8.88	23%
70.9	19.6	44.12	10.17	23%
78	21.6	49.20	11.36	23%
				19%

DIV_34M072=0 0 2.9 0 2.9 0 8.7 4 11.1 5.3 18.5 8 26.9 15.2 35.7 16.7 43 18.1 49 19.4

0 0 2.9 0 2.9 0 8.7 4 11.1 5.3 18.5 8 26.9 15.2 35.7 16.7 43 18.1 49 19.4

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
2.9	0	1.01	#N/A	-
2.9	0	1.01	#N/A	-
8.7	4	4.03	1.54	38%
11.1	5.3	5.32	2.19	41%
18.5	8	9.52	3.65	38%
26.9	15.2	14.59	7.61	52%
35.7	16.7	20.16	8.47	42%
43	18.1	24.93	9.29	37%
49	19.4	28.94	10.05	35%
				41%
11	87			

DIV_35M018=0 0 5.1 0.7 7 1.3 10.1 1.4 10.2 1.5 17.4 1.7 19.3 1.9 21.3 2.3 23 2.7 24.6 3

0 0 5.1 0.7 7 1.3 10.1 1.4 10.2 1.5 17.4 1.7 19.3 1.9 21.3 2.3 23 2.7 24.6 3

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
5.1	0.7	2.08	0.24	12%
7	1.3	3.10	0.45	14%
10.1	1.4	4.77	0.48	10%
10.2	1.5	4.82	0.52	11%
17.4	1.7	8.88	0.59	7%
19.3	1.9	9.99	0.65	7%
21.3	2.3	11.18	0.79	7%
23	2.7	12.21	0.93	8%
24.6	3	13.18	1.06	8%
				9%

DIV_31Q112=0 0 0.6 0.6 0.8 0.8 3.4 1.4 3.5 1.5 5.9 2.7 9.8 4.6 15.8 7.1 45.7 8.9 61.6 10.4

0 0 0.6 0.6 0.8 0.8 3.4 1.4 3.5 1.5 5.9 2.7 9.8 4.6 15.8 7.1 45.7 8.9 61.6 10.4

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
0.6	0.6	0.21	0.21	100%
0.8	0.8	0.28	0.28	100%
3.4	1.4	1.25	0.48	39%
3.5	1.5	1.30	0.52	40%
5.9	2.7	2.51	0.93	37%
9.8	4.6	4.61	1.82	40%
15.8	7.1	7.95	3.15	40%
45.7	8.9	26.73	4.13	15%
61.6	10.4	37.58	4.93	13%
				47%
11	81			

DIV_32P003=0 0 0.5 0 0.7 0 3.3 2 3.4 2 4.9 3.2 7.4 5.2 10.9 8 38.9 35.3 54.3 50.2

0 0 0.5 0 0.7 0 3.3 2 3.4 2 4.9 3.2 7.4 5.2 10.9 8 38.9 35.3 54.3 50.2

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
0.5	0	0.17	#N/A	-
0.7	0	0.24	#N/A	-
3.3	2	1.20	0.69	57%
3.4	2	1.25	0.69	55%
4.9	3.2	1.97	1.16	59%
7.4	5.2	3.32	2.13	64%
10.9	8	5.21	3.65	70%
38.9	35.3	22.24	19.90	90%
54.3	50.2	32.54	29.75	91%
				69%
11	86			

DIV_41Q025=0 0 2 2 2.6 2.6 3.2 3.2 4 4 11.9 5.2 24.3 7.6 42.2 15.5 67.7 24.3 90.8 30.7

0 0 2 2 2.6 2.6 3.2 3.2 4 4 11.9 5.2 24.3 7.6 42.2 15.5 67.7 24.3 90.8 30.7

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
2	2	0.69	0.69	100%
2.6	2.6	0.90	0.90	100%
3.2	3.2	1.16	1.16	100%
4	4	1.54	1.54	100%
11.9	5.2	5.75	2.13	37%
24.3	7.6	13.00	3.43	26%
42.2	15.5	24.40	7.78	32%
67.7	24.3	41.86	13.00	31%
90.8	30.7	58.52	16.97	29%
				62%
11	85			

DIV_34N064=0 0 0.5 0 1.2 0 4 1.6 6.8 2.5 8.9 4 12.4 6.2 22.8 14.3 26.7 17.3 31.1 20.6

0 0 0.5 0 1.2 0 4 1.6 6.8 2.5 8.9 4 12.4 6.2 22.8 14.3 26.7 17.3 31.1 20.6

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
0.5	0	0.17	#N/A	-
1.2	0	0.41	#N/A	-
4	1.6	1.54	0.55	36%
6.8	2.5	2.99	0.86	29%
8.9	4	4.13	1.54	37%
12.4	6.2	6.03	2.67	44%
22.8	14.3	12.08	7.10	59%
26.7	17.3	14.47	8.82	61%
31.1	20.6	17.22	10.76	62%
				47%
11	82			

DIV_34N073=0 0 0.5 0 1.2 0 2.5 0.6 4.4 2 6.8 2.4 8.8 4 13.3 6.1 18.4 9.2 22.4 11.5

0 0 0.5 0 1.2 0 2.5 0.6 4.4 2 6.8 2.4 8.8 4 13.3 6.1 18.4 9.2 22.4 11.5

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
0.5	0	0.17	#N/A	-
1.2	0	0.41	#N/A	-
2.5	0.6	0.86	0.21	24%
4.4	2	1.73	0.69	40%
6.8	2.4	2.99	0.83	28%
8.8	4	4.08	1.54	38%
13.3	6.1	6.53	2.61	40%
18.4	9.2	9.46	4.29	45%
22.4	11.5	11.84	5.53	47%
				37%
11	82			

DIV_21G051=0 0 1.1 0.4 1.6 0.6 3 1.1 3.1 1.2 3.5 1.3 4.1 1.4 5 1.7 5.8 1.9 6.5 2.1

0 0 1.1 0.4 1.6 0.6 3 1.1 3.1 1.2 3.5 1.3 4.1 1.4 5 1.7 5.8 1.9 6.5 2.1

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
1.1	0.4	0.38	0.14	36%
1.6	0.6	0.55	0.21	37%
3	1.1	1.06	0.38	36%
3.1	1.2	1.11	0.41	37%
3.5	1.3	1.30	0.45	34%
4.1	1.4	1.59	0.48	30%
5	1.7	2.03	0.59	29%
5.8	1.9	2.45	0.65	27%
6.5	2.1	2.83	0.72	26%
				33%
11	88			
DIV_35L027=0 0 0.5 0 1.8 0.5 3.3 1.6 3.6 1.6 4.9 2.4 9.4 4.5 10.1 4.8 17.9 9.7 23.2 12.8				
0 0 0.5 0 1.8 0.5 3.3 1.6 3.6 1.6 4.9 2.4 9.4 4.5 10.1 4.8 17.9 9.7 23.2 12.8				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
0.5	0	0.17	#N/A	-
1.8	0.5	0.62	0.17	28%
3.3	1.6	1.20	0.55	46%
3.6	1.6	1.35	0.55	41%
4.9	2.4	1.97	0.83	42%
9.4	4.5	4.40	1.78	40%
10.1	4.8	4.77	1.92	40%
17.9	9.7	9.17	4.56	50%
23.2	12.8	12.33	6.25	51%
				42%
11	82			
DIV_33N066=0 0 0.4 0.4 0.5 0.5 1.2 1.2 1.3 1.3 2.7 2 3.9 2.6 5.1 3 6.6 4.1 7.7 4.9				
0 0 0.4 0.4 0.5 0.5 1.2 1.2 1.3 1.3 2.7 2 3.9 2.6 5.1 3 6.6 4.1 7.7 4.9				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
0.4	0.4	0.14	0.14	100%
0.5	0.5	0.17	0.17	100%
1.2	1.2	0.41	0.41	100%
1.3	1.3	0.45	0.45	100%
2.7	2	0.93	0.69	74%
3.9	2.6	1.49	0.90	60%
5.1	3	2.08	1.06	51%
6.6	4.1	2.88	1.59	55%
7.7	4.9	3.48	1.97	57%
				77%
11	83			
DIV_34P025=0 0 2 0 10.2 0 19.3 0 20.9 0 22 0 28.2 5.1 42.6 18.5 46.9 21.8 50.4 24.3				
0 0 2 0 10.2 0 19.3 0 20.9 0 22 0 28.2 5.1 42.6 18.5 46.9 21.8 50.4 24.3				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
2	0	0.69	#N/A	-
10.2	0	4.82	#N/A	-
19.3	0	9.99	#N/A	-
20.9	0	10.94	#N/A	-
22	0	11.60	#N/A	-
28.2	5.1	15.40	2.08	14%
42.6	18.5	24.67	9.52	39%
46.9	21.8	27.53	11.48	42%
50.4	24.3	29.89	13.00	43%
				34%
11	93			
DIV_33T029=0 0 11.1 0.7 14.8 1.2 22.2 1.4 22.4 1.4 22.7 1.4 23.2 1.5 24 1.7 24.9 1.8 25.7 1.9				
0 0 11.1 0.7 14.8 1.2 22.2 1.4 22.4 1.4 22.7 1.4 23.2 1.5 24 1.7 24.9 1.8 25.7 1.9				

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
11.1	0.7	5.32	0.24	5%
14.8	1.2	7.38	0.41	6%
22.2	1.4	11.72	0.48	4%
22.4	1.4	11.84	0.48	4%
22.7	1.4	12.02	0.48	4%
23.2	1.5	12.33	0.52	4%
24	1.7	12.81	0.59	5%
24.9	1.8	13.36	0.62	5%
25.7	1.9	13.85	0.65	5%
				4%
11	95			

DIV_33P022=0 0 14.7 0.5 17.8 0.7 29.1 1.3 39.9 1.3 44.5 1.6 47.6 2.3 53.2 3.2 58.1 3.9 62.6 4.5

0 0 14.7 0.5 17.8 0.7 29.1 1.3 39.9 1.3 44.5 1.6 47.6 2.3 53.2 3.2 58.1 3.9 62.6 4.5

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
14.7	0.5	7.32	0.17	2%
17.8	0.7	9.11	0.24	3%
29.1	1.3	15.97	0.45	3%
39.9	1.3	22.89	0.45	2%
44.5	1.6	25.93	0.55	2%
47.6	2.3	28.00	0.79	3%
53.2	3.2	31.79	1.16	4%
58.1	3.9	35.15	1.49	4%
62.6	4.5	38.28	1.78	5%
				3%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
11	84			
DIV_31R030=0 0 0.9 0.5 1.5 0.8 2.4 1.3 3.1 2 3.2 2.1 3.5 2.4 4.1 2.9 4.6 3.4 5.1 3.8				
0 0 0.9 0.5 1.5 0.8 2.4 1.3 3.1 2 3.2 2.1 3.5 2.4 4.1 2.9 4.6 3.4 5.1 3.8				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
0.9	0.5	0.31	0.17	56%
1.5	0.8	0.52	0.28	53%
2.4	1.3	0.83	0.45	54%
3.1	2	1.11	0.69	62%
3.2	2.1	1.16	0.72	63%
3.5	2.4	1.30	0.83	64%
4.1	2.9	1.59	1.01	64%
4.6	3.4	1.82	1.25	69%
5.1	3.8	2.08	1.44	69%
				61%
12	84			
DIV_21G051A=0 0 1.5 0.4 2 0.6 3.2 1.1 3.9 1.2 5.3 1.3 6.2 1.4 8 1.7 9.5 1.9 10.7 2.1				
0 0 1.5 0.4 2 0.6 3.2 1.1 3.9 1.2 5.3 1.3 6.2 1.4 8 1.7 9.5 1.9 10.7 2.1				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
1.5	0.4	0.52	0.14	27%
2	0.6	0.69	0.21	30%
3.2	1.1	1.16	0.38	33%
3.9	1.2	1.49	0.41	28%
5.3	1.3	2.19	0.45	20%
6.2	1.4	2.67	0.48	18%
8	1.7	3.65	0.59	16%
9.5	1.9	4.45	0.65	15%
10.7	2.1	5.10	0.72	14%
				22%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
11	84			
DIV_26K013=0 0 2.4 0.1 2.5 0.2 4.1 0.5 5.2 0.7 6.8 0.8 10 1.4 17.5 2 23.7 2.5 28.6 3				
0 0 2.4 0.1 2.5 0.2 4.1 0.5 5.2 0.7 6.8 0.8 10 1.4 17.5 2 23.7 2.5 28.6 3				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
2.4	0.1	0.83	0.03	4%
2.5	0.2	0.86	0.07	8%
4.1	0.5	1.59	0.17	11%
5.2	0.7	2.13	0.24	11%
6.8	0.8	2.99	0.28	9%
10	1.4	4.72	0.48	10%
17.5	2	8.94	0.69	8%
23.7	2.5	12.63	0.86	7%
28.6	3	15.65	1.06	7%
				8%
11	79			
DIV_26K023=0 0 3 2.5 3.3 2.6 4.1 3 4.6 3.2 5.3 3.5 6.2 4 7.7 4.8 8.9 5.5 10 6.1				
0 0 3 2.5 3.3 2.6 4.1 3 4.6 3.2 5.3 3.5 6.2 4 7.7 4.8 8.9 5.5 10 6.1				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
3	2.5	1.06	0.86	81%
3.3	2.6	1.20	0.90	74%
4.1	3	1.59	1.06	67%
4.6	3.2	1.82	1.16	63%
5.3	3.5	2.19	1.30	59%
6.2	4	2.67	1.54	58%
7.7	4.8	3.48	1.92	55%
8.9	5.5	4.13	2.29	56%
10	6.1	4.72	2.61	55%
				63%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
11	88			

DIV_26K004=0 0 2.9 0.7 3.9 1 5.5 1.1 6.9 1.2 9.2 1.3 10.2 1.4 14.8 1.7 18.3 1.9 21.2 2.1

0 0 2.9 0.7 3.9 1 5.5 1.1 6.9 1.2 9.2 1.3 10.2 1.4 14.8 1.7 18.3 1.9 21.2 2.1

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
2.9	0.7	1.01	0.24	24%
3.9	1	1.49	0.34	23%
5.5	1.1	2.29	0.38	17%
6.9	1.2	3.05	0.41	14%
9.2	1.3	4.29	0.45	10%
10.2	1.4	4.82	0.48	10%
14.8	1.7	7.38	0.59	8%
18.3	1.9	9.40	0.65	7%
21.2	2.1	11.12	0.72	7%
				13%

11	91			

DIV_26K009=0 0 1.7 1.7 3.1 3.1 10.4 3.5 12.9 3.7 18 4.2 29.7 4.8 36.8 5.8 43.4 6.7 49.1 7.4

0 0 1.7 1.7 3.1 3.1 10.4 3.5 12.9 3.7 18 4.2 29.7 4.8 36.8 5.8 43.4 6.7 49.1 7.4

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
1.7	1.7	0.59	0.59	100%
3.1	3.1	1.11	1.11	100%
10.4	3.5	4.93	1.30	26%
12.9	3.7	6.31	1.39	22%
18	4.2	9.23	1.63	18%
29.7	4.8	16.34	1.92	12%
36.8	5.8	20.87	2.45	12%
43.4	6.7	25.20	2.94	12%
49.1	7.4	29.01	3.32	11%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
				35%
11	82			

DIV_23P006=1.1 0 5.5 0 7.8 0 10.3 0 11.7 0 12.9 0 14.6 0 16 0.9 19.6 4.1 29.6 13.6

1.1 0 5.5 0 7.8 0 10.3 0 11.7 0 12.9 0 14.6 0 16 0.9 19.6 4.1 29.6 13.6

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
1.1	0	0.38	#N/A	-
5.5	0	2.29	#N/A	-
7.8	0	3.54	#N/A	-
10.3	0	4.88	#N/A	-
11.7	0	5.64	#N/A	-
12.9	0	6.31	#N/A	-
14.6	0	7.27	#N/A	-
16	0.9	8.07	0.31	4%
19.6	4.1	10.17	1.59	16%
29.6	13.6	16.28	6.70	41%
				20%
11	85			

DIV_21M027=0 0 2 1 4.8 1.5 7.9 2.8 9.5 2.9 12.8 3.1 13.5 3.3 14.6 3.5 16.6 4 18.3 4.3

0 0 2 1 4.8 1.5 7.9 2.8 9.5 2.9 12.8 3.1 13.5 3.3 14.6 3.5 16.6 4 18.3 4.3

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
2	1	0.69	0.34	50%
4.8	1.5	1.92	0.52	27%
7.9	2.8	3.59	0.97	27%
9.5	2.9	4.45	1.01	23%
12.8	3.1	6.25	1.11	18%
13.5	3.3	6.64	1.20	18%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
14.6	3.5	7.27	1.30	18%
16.6	4	8.41	1.54	18%
18.3	4.3	9.40	1.68	18%
				24%
11	51			
DIV_21M029=0 0 1.1 0 3.7 0 7.3 0 12 0 14.9 0 17.4 0				
0 0 1.1 0 3.7 0 7.3 0 12 0 14.9 0 17.4 0				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
1.1	0	0.38	#N/A	-
3.7	0	1.39	#N/A	-
7.3	0	3.26	#N/A	-
12	0	5.81	#N/A	-
14.9	0	7.44	#N/A	-
17.4	0	8.88	#N/A	-
11	89			
DIV_21M021=0 0 2 1 4.8 3.4 7.9 5.1 9.5 6.6 12.2 9.2 13.5 10.2 14.5 11 16.5 12.5 18.2 13.9				
0 0 2 1 4.8 3.4 7.9 5.1 9.5 6.6 12.2 9.2 13.5 10.2 14.5 11 16.5 12.5 18.2 13.9				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
2	1	0.69	0.34	50%
4.8	3.4	1.92	1.25	65%
7.9	5.1	3.59	2.08	58%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
9.5	6.6	4.45	2.88	65%
12.2	9.2	5.92	4.29	72%
13.5	10.2	6.64	4.82	73%
14.5	11	7.21	5.26	73%
16.5	12.5	8.35	6.09	73%
18.2	13.9	9.34	6.87	74%
				67%
11	72			

DIV_21J022=0 0 1.7 0 5.6 0 8.4 0 10.9 0 16 0 18.9 0 22.4 0 25.4 0 28.1 0

0 0 1.7 0 5.6 0 8.4 0 10.9 0 16 0 18.9 0 22.4 0 25.4 0 28.1 0

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
1.7	0	0.59	#N/A	-
5.6	0	2.35	#N/A	-
8.4	0	3.87	#N/A	-
10.9	0	5.21	#N/A	-
16	0	8.07	#N/A	-
18.9	0	9.75	#N/A	-
22.4	0	11.84	#N/A	-
25.4	0	13.67	#N/A	-
28.1	0	15.34	#N/A	-
11	80			

DIV_21K041=0 0 8.9 0 13.5 0 27 0 60 0 86.2 0 106.1 0 122.9 0 140.5 2.9 159.7 8.8

0 0 8.9 0 13.5 0 27 0 60 0 86.2 0 106.1 0 122.9 0 140.5 2.9 159.7 8.8

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
8.9	0	4.13	#N/A	-
13.5	0	6.64	#N/A	-
27	0	14.66	#N/A	-
60	0	36.47	#N/A	-
86.2	0	55.15	#N/A	-
106.1	0	69.90	#N/A	-
122.9	0	82.67	#N/A	-
140.5	2.9	96.32	1.01	1%
159.7	8.8	111.49	4.08	4%
				2%
11	105			

DIV_31H086=0 0 15.9 5.3 17.6 7 25.4 8.5 27.5 10.6 41.3 13.8 60.3 20.1 183.4 122.3 317.7 211.8 410.2 273.5

0 0 15.9 5.3 17.6 7 25.4 8.5 27.5 10.6 41.3 13.8 60.3 20.1 183.4 122.3 317.7 211.8 410.2 273.5

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
15.9	5.3	8.01	2.19	27%
17.6	7	8.99	3.10	34%
25.4	8.5	13.67	3.92	29%
27.5	10.6	14.97	5.04	34%
41.3	13.8	23.81	6.81	29%
60.3	20.1	36.67	10.46	29%
183.4	122.3	130.57	82.21	63%
317.7	211.8	245.30	153.89	63%
410.2	273.5	328.31	206.81	63%
				41%
11	78			

DIV_42P003=0 0 1.3 1.3 1.3 1.3 2.2 2.2 2.7 2.7 3.5 3.5 4.4 4.4 5.8 5.8 7 7 8 8

0 0 1.3 1.3 1.3 1.3 2.2 2.2 2.7 2.7 3.5 3.5 4.4 4.4 5.8 5.8 7 7 8 8

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
1.3	1.3	0.45	0.45	100%
1.3	1.3	0.45	0.45	100%
2.2	2.2	0.76	0.76	100%
2.7	2.7	0.93	0.93	100%
3.5	3.5	1.30	1.30	100%
4.4	4.4	1.73	1.73	100%
5.8	5.8	2.45	2.45	100%
7	7	3.10	3.10	100%
8	8	3.65	3.65	100%
11	88			

DIV_42P900=0 0 1.1 1.1 1.7 1.7 2.8 2.8 4 4 5.7 5.7 7.5 7.5 10.2 10.2 12.3 12.3 14.1 14.1

0 0 1.1 1.1 1.7 1.7 2.8 2.8 4 4 5.7 5.7 7.5 7.5 10.2 10.2 12.3 12.3 14.1 14.1

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
1.1	1.1	0.38	0.38	100%
1.7	1.7	0.59	0.59	100%
2.8	2.8	0.97	0.97	100%
4	4	1.54	1.54	100%
5.7	5.7	2.40	2.40	100%
7.5	7.5	3.37	3.37	100%
10.2	10.2	4.82	4.82	100%
12.3	12.3	5.97	5.97	100%
14.1	14.1	6.98	6.98	100%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
11	97			
DIV_36H003=0 0 15.8 3.2 16.5 3.8 28.8 8.6 34.4 9.1 42.4 9.6 58.4 10.4 68.6 11.8 77.2 13 84.9 14.2				
0 0 15.8 3.2 16.5 3.8 28.8 8.6 34.4 9.1 42.4 9.6 58.4 10.4 68.6 11.8 77.2 13 84.9 14.2				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
15.8	3.2	7.95	1.16	15%
16.5	3.8	8.35	1.44	17%
28.8	8.6	15.78	3.97	25%
34.4	9.1	19.32	4.24	22%
42.4	9.6	24.53	4.50	18%
58.4	10.4	35.36	4.93	14%
68.6	11.8	42.49	5.70	13%
77.2	13	48.62	6.37	13%
84.9	14.2	54.20	7.04	13%
				17%
11	98			
DIV_36H013=0 0 34 2.9 34.8 3.7 84.7 7 85.1 7.4 111.9 9.3 136.6 12.2 218.7 16.6 315.4 20.1 333.9 23				
0 0 34 2.9 34.8 3.7 84.7 7 85.1 7.4 111.9 9.3 136.6 12.2 218.7 16.6 315.4 20.1 333.9 23				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
34	2.9	19.07	1.01	5%
34.8	3.7	19.58	1.39	7%
84.7	7	54.05	3.10	6%
85.1	7.4	54.34	3.32	6%
111.9	9.3	74.28	4.34	6%
136.6	12.2	93.28	5.92	6%
218.7	16.6	159.62	8.41	5%
315.4	20.1	243.30	10.46	4%
333.9	23	259.41	12.21	5%
				6%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
11	85			
DIV_24L074=0 0 18.9 1 23.1 1.5 37.1 1.9 51 2.3 56.9 2.8 59.1 3.5 63 4.5 66.6 5.3 70 6				
0 0 18.9 1 23.1 1.5 37.1 1.9 51 2.3 56.9 2.8 59.1 3.5 63 4.5 66.6 5.3 70 6				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
18.9	1	9.75	0.34	4%
23.1	1.5	12.27	0.52	4%
37.1	1.9	21.07	0.65	3%
51	2.3	30.29	0.79	3%
56.9	2.8	34.32	0.97	3%
59.1	3.5	35.84	1.30	4%
63	4.5	38.56	1.78	5%
66.6	5.3	41.08	2.19	5%
70	6	43.48	2.56	6%
				4%
11	87			
DIV_31R056=0 0 2.5 1.5 4 2.7 5 3 6.3 4.3 8.3 6.2 10.4 8.2 13.7 11.2 16.2 13.5 18.4 15.5				
0 0 2.5 1.5 4 2.7 5 3 6.3 4.3 8.3 6.2 10.4 8.2 13.7 11.2 16.2 13.5 18.4 15.5				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
2.5	1.5	0.86	0.52	60%
4	2.7	1.54	0.93	60%
5	3	2.03	1.06	52%
6.3	4.3	2.72	1.68	62%
8.3	6.2	3.81	2.67	70%
10.4	8.2	4.93	3.76	76%
13.7	11.2	6.76	5.37	79%
16.2	13.5	8.18	6.64	81%
18.4	15.5	9.46	7.78	82%
				69%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
11	79			
DIV_35P012=0 0 4.6 0 9.1 0 11.1 0 12.9 0 14.4 0 15.7 0 17.6 0 19.8 0.6 23.7 2.9				
0 0 4.6 0 9.1 0 11.1 0 12.9 0 14.4 0 15.7 0 17.6 0 19.8 0.6 23.7 2.9				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
4.6	0	1.82	#N/A	-
9.1	0	4.24	#N/A	-
11.1	0	5.32	#N/A	-
12.9	0	6.31	#N/A	-
14.4	0	7.15	#N/A	-
15.7	0	7.89	#N/A	-
17.6	0	8.99	#N/A	-
19.8	0.6	10.29	0.21	2%
23.7	2.9	12.63	1.01	8%
				5%
11	90			
DIV_34P051=0 0 7 2.2 10 3.6 15.2 5.6 15.2 5.6 27.1 9.7 33.1 13.8 40 19.6 45.5 24 50.2 27.7				
0 0 7 2.2 10 3.6 15.2 5.6 15.2 5.6 27.1 9.7 33.1 13.8 40 19.6 45.5 24 50.2 27.7				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
7	2.2	3.10	0.76	24%
10	3.6	4.72	1.35	29%
15.2	5.6	7.61	2.35	31%
15.2	5.6	7.61	2.35	31%
27.1	9.7	14.72	4.56	31%
33.1	13.8	18.49	6.81	37%
40	19.6	22.96	10.17	44%
45.5	24	26.59	12.81	48%
50.2	27.7	29.75	15.09	51%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
				36%
11	95			

DIV_35K030=0 0 4.8 3.4 4.8 3.4 6.7 4.5 8.2 5.5 10.4 6.8 17.6 12.3 20.7 13.6 33.1 24.5 41.8 31.8

0 0 4.8 3.4 4.8 3.4 6.7 4.5 8.2 5.5 10.4 6.8 17.6 12.3 20.7 13.6 33.1 24.5 41.8 31.8

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
4.8	3.4	1.92	1.25	65%
4.8	3.4	1.92	1.25	65%
6.7	4.5	2.94	1.78	61%
8.2	5.5	3.76	2.29	61%
10.4	6.8	4.93	2.99	61%
17.6	12.3	8.99	5.97	66%
20.7	13.6	10.82	6.70	62%
33.1	24.5	18.49	13.12	71%
41.8	31.8	24.14	17.67	73%
				65%
11	88			

DIV_34N034=0 0 3.6 2.1 3.6 2.1 5.6 3.1 7.2 4.1 10 6 12.2 6.3 13.3 7.1 22.5 9.7 28.7 11.8

0 0 3.6 2.1 3.6 2.1 5.6 3.1 7.2 4.1 10 6 12.2 6.3 13.3 7.1 22.5 9.7 28.7 11.8

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
3.6	2.1	1.35	0.72	54%
3.6	2.1	1.35	0.72	54%
5.6	3.1	2.35	1.11	47%
7.2	4.1	3.21	1.59	49%
10	6	4.72	2.56	54%
12.2	6.3	5.92	2.72	46%

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
13.3	7.1	6.53	3.15	48%
22.5	9.7	11.90	4.56	38%
28.7	11.8	15.71	5.70	36%
				47%
11	85			

DIV_34N043=0 0 1 0.4 2.1 0.6 3.8 1.4 4.5 1.5 5.5 1.5 8.1 2.6 10.8 4.7 16.2 7 20.2 8.7

0 0 1 0.4 2.1 0.6 3.8 1.4 4.5 1.5 5.5 1.5 8.1 2.6 10.8 4.7 16.2 7 20.2 8.7

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
1	0.4	0.34	0.14	40%
2.1	0.6	0.72	0.21	29%
3.8	1.4	1.44	0.48	33%
4.5	1.5	1.78	0.52	29%
5.5	1.5	2.29	0.52	23%
8.1	2.6	3.70	0.90	24%
10.8	4.7	5.15	1.87	36%
16.2	7	8.18	3.10	38%
20.2	8.7	10.52	4.03	38%
				32%
11	57			

DIV_22F113=0 0 4 0 8 0 12 0 16 0 20 0 24 0 28 0 32 0 36 0

0 0 4 0 8 0 12 0 16 0 20 0 24 0 28 0 32 0 36 0

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
4	0	1.54	#N/A	-
8	0	3.65	#N/A	-
12	0	5.81	#N/A	-

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
16	0	8.07	#N/A	-
20	0	10.41	#N/A	-
24	0	12.81	#N/A	-
28	0	15.28	#N/A	-
32	0	17.79	#N/A	-
36	0	20.35	#N/A	-
11	92			
DIV_27G135=0 0 6.2 0 12.4 6.2 18.2 6.2 22.2 6.2 26.2 6.2 30.2 6.2 34.2 6.2 38.2 6.2 42.2 6.2				
0 0 6.2 0 12.4 6.2 18.2 6.2 22.2 6.2 26.2 6.2 30.2 6.2 34.2 6.2 38.2 6.2 42.2 6.2				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
6.2	0	2.67	#N/A	-
12.4	6.2	6.03	2.67	44%
18.2	6.2	9.34	2.67	29%
22.2	6.2	11.72	2.67	23%
26.2	6.2	14.16	2.67	19%
30.2	6.2	16.66	2.67	16%
34.2	6.2	19.20	2.67	14%
38.2	6.2	21.78	2.67	12%
42.2	6.2	24.40	2.67	11%
				21%
11	70			
DIV_27N019=0 0 3 0 5.9 0 9.1 0 10 0 10.9 0 11.6 0 12.4 0 13.1 0 13.7 0				
0 0 3 0 5.9 0 9.1 0 10 0 10.9 0 11.6 0 12.4 0 13.1 0 13.7 0				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
3	0	1.06	#N/A	-
5.9	0	2.51	#N/A	-
9.1	0	4.24	#N/A	-
10	0	4.72	#N/A	-
10.9	0	5.21	#N/A	-
11.6	0	5.59	#N/A	-
12.4	0	6.03	#N/A	-
13.1	0	6.42	#N/A	-
13.7	0	6.76	#N/A	-
11	80			

DIV_26K030=0 0 1.4 0.5 2 0.9 2.8 1 3.5 1 3.9 1.1 4.4 1.2 5.2 1.4 5.9 1.6 6.5 1.7

0 0 1.4 0.5 2 0.9 2.8 1 3.5 1 3.9 1.1 4.4 1.2 5.2 1.4 5.9 1.6 6.5 1.7

Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
1.4	0.5	0.48	0.17	36%
2	0.9	0.69	0.31	45%
2.8	1	0.97	0.34	36%
3.5	1	1.30	0.34	27%
3.9	1.1	1.49	0.38	25%
4.4	1.2	1.73	0.41	24%
5.2	1.4	2.13	0.48	23%
5.9	1.6	2.51	0.55	22%
6.5	1.7	2.83	0.59	21%
				29%
11	87			

DIV_33N060=0 0 0.2 0.2 0.9 0.7 1.3 0.9 1.9 1.1 2.3 1.4 3.5 2.2 5 3.5 11.5 9.1 15.4 12.4

0 0 0.2 0.2 0.9 0.7 1.3 0.9 1.9 1.1 2.3 1.4 3.5 2.2 5 3.5 11.5 9.1 15.4 12.4

Flow Diversion Fractional Splits used for Modeling

Information taken from previous modeling (model file cf_sys9a1) and converted for use with Master Plan Model

				Diverted flow Fraction used for Modeling
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
0.2	0.2	0.07	0.07	100%
0.9	0.7	0.31	0.24	78%
1.3	0.9	0.45	0.31	69%
1.9	1.1	0.65	0.38	58%
2.3	1.4	0.79	0.48	61%
3.5	2.2	1.30	0.76	58%
5	3.5	2.03	1.30	64%
11.5	9.1	5.53	4.24	77%
15.4	12.4	7.72	6.03	78%
				71%
11	84			
DIV_32M066=0 0 3.1 0 3.3 0.2 3.4 0.3 3.6 0.5 3.6 0.5 4.9 1.8 5.7 2.6 6.2 3.1 6.7 3.6				
0 0 3.1 0 3.3 0.2 3.4 0.3 3.6 0.5 3.6 0.5 4.9 1.8 5.7 2.6 6.2 3.1 6.7 3.6				
Total Peak Flow (cfs)	Diverted Peak Flow (cfs)	Total Average Flow (cfs)	Total Diverted Average Flow (cfs)	
0	0	#N/A	#N/A	-
3.1	0	1.11	#N/A	-
3.3	0.2	1.20	0.07	6%
3.4	0.3	1.25	0.10	8%
3.6	0.5	1.35	0.17	13%
3.6	0.5	1.35	0.17	13%
4.9	1.8	1.97	0.62	31%
5.7	2.6	2.40	0.90	37%
6.2	3.1	2.67	1.11	42%
6.7	3.6	2.94	1.35	46%
				24%

APPENDIX F

Model Results with Bases Costs

Index for Appendix F Tables

Table ID	Description
F1	Existing Conditions - Base Costs Calculations for Existing Gravity Sewers
F2	Buildout Conditions - Base Cost Calculations for Existing Gravity Sewers
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F8	Crossings - Base Cost Calculations and Summary

Table F1 - Existing Conditions - Base Cost Calculations for Existing Gravity Sewers

System	Improvement ID	G_ID	Improvement Priority Existing Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Replacement Design Diameter, Inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
1	R1B	8	PRIORITY 4	15	1,170	1.47	1.55	18	$ 450	$ 527,000	5%	$ 27,000
1	R1A	16	PRIORITY 4	12	450	1.00	1.28	15	$ 375	$ 169,000	5%	$ 9,000
1	R1A	17	PRIORITY 3	12	262	1.03	1.29	15	$ 375	$ 99,000	20%	$ 20,000
1	R1C	19	PRIORITY 4	15	982	1.49	2.44	18	$ 450	$ 442,000	5%	$ 23,000
1	R1D	54	PRIORITY 4	12	1,151	0.93	0.93	15	$ 375	$ 432,000	5%	$ 22,000
1	R1E	111	PRIORITY 4	12	1,101	0.87	0.93	15	$ 375	$ 413,000	5%	$ 21,000
1	R1F	124	PRIORITY 4	12	622	1.03	1.38	15	$ 375	$ 234,000	5%	$ 12,000
1	R1C	725	PRIORITY 4	15	53	1.41	2.69	21	$ 525	$ 28,000	5%	$ 2,000
1	R1F	824	PRIORITY 4	12	62	1.14	4.34	21	$ 525	$ 33,000	5%	$ 2,000
2	R2C	39	PRIORITY 4	12	826	0.87	0.87	15	$ 375	$ 310,000	5%	$ 16,000
2	R2A	47	PRIORITY 1	12	1,876	0.70	1.31	18	$ 450	$ 845,000	75%	$ 634,000
2	R2AC	57	PRIORITY 1	15	1,245	1.71	2.77	21	$ 525	$ 654,000	75%	$ 491,000
2	R2A	59	PRIORITY 4	12	673	0.71	1.04	15	$ 375	$ 253,000	5%	$ 13,000
2	R2D	60	PRIORITY 4	12	823	1.06	1.28	15	$ 375	$ 309,000	5%	$ 16,000
2	R2A	62	PRIORITY 3	12	741	0.60	1.04	15	$ 375	$ 278,000	20%	$ 56,000
2	R2A	64	PRIORITY 1	12	1,526	0.94	1.84	18	$ 450	$ 687,000	75%	$ 516,000
2	R2X	65	PRIORITY 3	12	707	1.07	1.16	15	$ 375	$ 266,000	20%	$ 54,000
2	R2B	66	PRIORITY 4	15	862	1.32	1.34	18	$ 450	$ 388,000	5%	$ 20,000
2	R2D	71	PRIORITY 4	15	304	1.66	2.47	18	$ 450	$ 137,000	5%	$ 7,000
2	R2D	74	PRIORITY 1	12	1,558	0.77	2.47	21	$ 525	$ 818,000	75%	$ 614,000
2	R2AC	77	PRIORITY 3	15	994	1.64	2.79	21	$ 525	$ 522,000	20%	$ 105,000
2	R2Y	83	PRIORITY 3	15	1,041	1.54	2.00	18	$ 450	$ 469,000	20%	$ 94,000
2	R2W	87	PRIORITY 4	33	1,159	7.66	7.88	36	$ 900	$ 1,044,000	5%	$ 53,000
2	R2AI	90	PRIORITY 4	36	3,088	10.91	13.68	42	$ 1,050	$ 3,243,000	5%	$ 163,000
2	R2V	96	PRIORITY 4	15	150	1.60	1.98	18	$ 450	$ 68,000	5%	$ 4,000
2	R2V	97	PRIORITY 4	15	607	1.62	2.27	18	$ 450	$ 274,000	5%	$ 14,000
2	R2AM	100	PRIORITY 4	33	108	8.07	9.53	36	$ 900	$ 98,000	5%	$ 5,000
2	R2AM	102	PRIORITY 4	33	1,076	4.67	9.51	48	$ 1,200	$ 1,292,000	5%	$ 65,000
2	R2U	110	APPR FULL	24	34	4.35	4.09	27	$ 675	$ 23,000	0%	$ -
2	R2AO	113	PRIORITY 4	18	933	1.39	1.66	21	$ 525	$ 490,000	5%	$ 25,000
2	R2D	115	PRIORITY 1	12	614	1.31	2.80	18	$ 450	$ 277,000	75%	$ 208,000
2	R2T	117	APPR FULL	12	1,204	1.03	0.99	15	$ 375	$ 452,000	0%	$ -
2	R2F	119	PRIORITY 3	12	1,510	0.75	1.21	15	$ 375	$ 567,000	20%	$ 114,000
2	R2U	120	PRIORITY 3	12	1,366	0.88	1.33	15	$ 375	$ 513,000	20%	$ 103,000
2	R2T	127	APPR FULL	12	1,354	1.03	0.99	15	$ 375	$ 508,000	0%	$ -
2	#N/A	130	PRIORITY 4	42	40	20.61	26.76	48	$ 1,200	$ 48,000	5%	$ 3,000
2	R2G	142	APPR FULL	12	262	0.51	0.50	15	$ 375	$ 99,000	0%	$ -
2	R2M	150	PRIORITY 1	12	2,033	0.85	0.91	15	$ 375	$ 763,000	75%	$ 573,000
2	R2L	170	PRIORITY 2	18	987	1.02	2.04	24	$ 600	$ 593,000	50%	$ 297,000

Table F1 - Existing Conditions - Base Cost Calculations for Existing Gravity Sewers

System	Improvement ID	G_ID	Improvement Priority Existing Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Replacement Design Diameter, Inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
2	R2Q	182	PRIORITY 4	15	1,308	1.56	1.92	18	$ 450	$ 589,000	5%	$ 30,000
2	R2K	189	PRIORITY 4	30	1,641	6.49	8.84	36	$ 900	$ 1,477,000	5%	$ 74,000
2	R2R	198	PRIORITY 2	12	589	0.98	1.07	15	$ 375	$ 221,000	50%	$ 111,000
2	R2N	200	PRIORITY 4	30	552	5.54	6.08	33	$ 825	$ 456,000	5%	$ 23,000
2	R2N	204	PRIORITY 4	30	159	5.57	5.63	33	$ 825	$ 132,000	5%	$ 7,000
2	R2J	209	PRIORITY 4	15	1,332	2.18	2.71	18	$ 450	$ 600,000	5%	$ 30,000
2	R2AD	213	PRIORITY 1	15	2,151	1.62	2.26	18	$ 450	$ 968,000	75%	$ 726,000
2	R2AD	215	PRIORITY 1	15	742	1.35	2.74	21	$ 525	$ 390,000	75%	$ 293,000
2	R2J	216	PRIORITY 4	12	1,379	1.31	1.32	15	$ 375	$ 518,000	5%	$ 26,000
2	#N/A	220	PRIORITY 4	12	117	2.24	2.34	15	$ 375	$ 44,000	5%	$ 3,000
2	R2AD	224	PRIORITY 2	15	1,237	1.67	2.74	21	$ 525	$ 650,000	50%	$ 325,000
2	R2H	238	PRIORITY 2	12	2,373	0.99	1.51	15	$ 375	$ 890,000	50%	$ 445,000
2	R2Q	668	PRIORITY 4	15	1,486	1.68	1.87	18	$ 450	$ 669,000	5%	$ 34,000
2	R2S	670	APPR FULL	12	767	0.93	0.93	15	$ 375	$ 288,000	0%	$ -
2	R2O	683	PRIORITY 3	18	128	2.69	2.74	21	$ 525	$ 68,000	20%	$ 14,000
2	R2O	684	PRIORITY 3	18	794	2.32	2.78	21	$ 525	$ 417,000	20%	$ 84,000
2	R2AD	709	PRIORITY 1	12	648	0.75	1.14	15	$ 375	$ 243,000	75%	$ 183,000
2	R2AB	727	PRIORITY 4	16	327	1.76	3.16	21	$ 525	$ 172,000	5%	$ 9,000
2	R2Q	771	PRIORITY 4	15	1,753	1.63	1.78	18	$ 450	$ 789,000	5%	$ 40,000
2	R2R	772	PRIORITY 3	12	1,643	1.09	1.17	15	$ 375	$ 617,000	20%	$ 124,000
2	R2Q	833	PRIORITY 3	15	522	1.86	2.13	18	$ 450	$ 235,000	20%	$ 47,000
2	R2E	948	PRIORITY 2	16	1,473	1.35	2.34	21	$ 525	$ 774,000	50%	$ 387,000
2	R2AB	949	PRIORITY 2	16	274	1.75	2.40	21	$ 525	$ 144,000	50%	$ 72,000
2	R2Z	958	PRIORITY 4	36	1,698	4.32	10.18	54	$ 1,350	$ 2,293,000	5%	$ 115,000
2	R2AN	959	PRIORITY 3	12	1,287	0.78	1.15	15	$ 375	$ 483,000	20%	$ 97,000
2	R2AK	961	PRIORITY 4	36	3,943	12.29	14.16	42	$ 1,050	$ 4,141,000	5%	$ 208,000
2	R2L	968	PRIORITY 3	18	988	1.33	1.90	21	$ 525	$ 519,000	20%	$ 104,000
2	R2L	969	PRIORITY 1	12	1,182	0.51	1.29	18	$ 450	$ 532,000	75%	$ 399,000
2	R2L	973	PRIORITY 2	18	790	0.68	2.60	30	$ 750	$ 593,000	50%	$ 297,000
2	R2L	974	PRIORITY 1	12	2,032	0.80	1.90	18	$ 450	$ 915,000	75%	$ 687,000
2	R2AD	975	PRIORITY 1	15	1,048	1.18	1.46	18	$ 450	$ 472,000	75%	$ 354,000
2	R2AD	976	PRIORITY 1	10	228	0.48	1.14	15	$ 375	$ 86,000	75%	$ 65,000
2	R2AD	977	PRIORITY 1	12	683	0.83	1.14	15	$ 375	$ 257,000	75%	$ 193,000
2	R2AA	1076	PRIORITY 4	12	1,790	1.04	1.10	15	$ 375	$ 672,000	5%	$ 34,000
2	R2AE	1077	PRIORITY 4	15	2,593	2.48	2.49	18	$ 450	$ 1,167,000	5%	$ 59,000
3	R3O	242	PRIORITY 1	12	1,365	1.04	1.10	15	$ 375	$ 512,000	75%	$ 384,000
3	R3M	246	NO IMPRV	15	3,540	1.67	1.41	21	$ 525	$ 1,859,000	0%	$ -
3	R3P	256	PRIORITY 3	12	377	0.69	1.99	21	$ 525	$ 198,000	20%	$ 40,000
3	R3L	258	APPR FULL	24	1,582	3.34	3.23	30	$ 750	$ 1,187,000	0%	$ -

Table F1 - Existing Conditions - Base Cost Calculations for Existing Gravity Sewers

System	Improvement ID	G_ID	Improvement Priority Existing Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Replacement Design Diameter, Inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
3	R3P	263	PRIORITY 4	14	635	0.99	1.99	21	$ 525	$ 334,000	5%	$ 17,000
3	R3N	266	NO IMPRV	12	2,424	0.92	0.62	15	$ 375	$ 909,000	0%	$ -
3	R3I	268	PRIORITY 1	12	750	0.55	0.77	15	$ 375	$ 282,000	75%	$ 212,000
3	R3L	269	PRIORITY 4	24	920	3.38	3.46	30	$ 750	$ 690,000	5%	$ 35,000
3	R3C	272	PRIORITY 1	30	289	12.21	25.38	42	$ 1,050	$ 304,000	75%	$ 228,000
3	R3L	273	PRIORITY 3	24	853	2.79	3.46	33	$ 825	$ 704,000	20%	$ 141,000
3	R3K	274	PRIORITY 3	24	2,563	1.96	3.89	42	$ 1,050	$ 2,692,000	20%	$ 539,000
3	R3I	275	PRIORITY 1	12	1,177	0.66	0.77	15	$ 375	$ 442,000	75%	$ 332,000
3	R3C	276	PRIORITY 2	36	1,086	20.93	26.12	42	$ 1,050	$ 1,141,000	50%	$ 571,000
3	R3I	278	PRIORITY 1	12	1,124	0.80	1.23	18	$ 450	$ 506,000	75%	$ 380,000
3	R3Z	279	NO IMPRV	12	2,898	0.78	0.65	15	$ 375	$ 1,087,000	0%	$ -
3	R3H	283	PRIORITY 2	12	1,614	0.50	0.88	18	$ 450	$ 727,000	50%	$ 364,000
3	R3AB	286	NO IMPRV	12	824	1.08	0.86	15	$ 375	$ 309,000	0%	$ -
3	R3AB	287	APPR FULL	12	440	0.81	0.76	15	$ 375	$ 165,000	0%	$ -
3	R3J	288	PRIORITY 4	24	809	3.05	6.13	42	$ 1,050	$ 850,000	5%	$ 43,000
3	R3H	289	PRIORITY 2	16	1,293	1.64	2.26	21	$ 525	$ 679,000	50%	$ 340,000
3	R3Q	293	PRIORITY 2	12	771	0.34	0.48	15	$ 375	$ 290,000	50%	$ 145,000
3	R3H	294	APPR FULL	16	2,284	2.54	2.42	18	$ 450	$ 1,028,000	0%	$ -
3	R3Q	295	PRIORITY 2	12	765	0.49	0.87	18	$ 450	$ 345,000	50%	$ 173,000
3	R3B	298	PRIORITY 4	18	1,145	1.35	1.56	24	$ 600	$ 687,000	5%	$ 35,000
3	R3C	300	PRIORITY 3	42	2,287	14.36	27.09	60	$ 1,500	$ 3,431,000	20%	$ 687,000
3	R3A	301	PRIORITY 3	12	964	0.61	1.13	21	$ 525	$ 507,000	20%	$ 102,000
3	R3H	302	PRIORITY 3	14	54	1.16	2.42	21	$ 525	$ 29,000	20%	$ 6,000
3	R3G	303	PRIORITY 3	16	2,286	0.52	2.42	33	$ 825	$ 1,886,000	20%	$ 378,000
3	R3A	310	NO IMPRV	12	1,792	0.86	0.71	15	$ 375	$ 672,000	0%	$ -
3	R3F	311	PRIORITY 4	20	242	4.22	4.30	24	$ 600	$ 146,000	5%	$ 8,000
3	R3AC	330	PRIORITY 4	12	398	0.83	0.89	15	$ 375	$ 150,000	5%	$ 8,000
3	R3AC	331	PRIORITY 4	12	307	0.78	0.89	18	$ 450	$ 139,000	5%	$ 7,000
3	R3X	336	PRIORITY 3	12	727	0.91	0.96	15	$ 375	$ 273,000	20%	$ 55,000
3	R3U	345	PRIORITY 4	16	204	0.92	0.99	27	$ 675	$ 138,000	5%	$ 7,000
3	R3U	346	APPR FULL	16	25	0.99	0.97	27	$ 675	$ 17,000	0%	$ -
3	R3U	348	NO IMPRV	30	132	5.17	1.50	33	$ 825	$ 109,000	0%	$ -
3	R3U	349	NO IMPRV	16	1,538	0.95	0.73	21	$ 525	$ 808,000	0%	$ -
3	R3S	352	NO IMPRV	21	1,880	2.91	1.53	24	$ 600	$ 1,128,000	0%	$ -
3	R3AB	357	NO IMPRV	18	724	2.34	1.86	21	$ 525	$ 381,000	0%	$ -
3	R3S	358	APPR FULL	21	2,673	3.59	3.41	27	$ 675	$ 1,805,000	0%	$ -
3	R3S	364	APPR FULL	24	1,125	2.47	2.41	27	$ 675	$ 760,000	0%	$ -
3	R3S	368	PRIORITY 4	24	1,188	1.75	2.25	30	$ 750	$ 891,000	5%	$ 45,000
3	R3E	375	PRIORITY 4	18	769	0.69	1.18	27	$ 675	$ 520,000	5%	$ 26,000

Table F1 - Existing Conditions - Base Cost Calculations for Existing Gravity Sewers

System	Improvement ID	G_ID	Improvement Priority Existing Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Replacement Design Diameter, Inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
3	R3AB	378	NO IMPRV	18	1,177	2.13	1.73	21	$ 525	$ 618,000	0%	$ -
3	R5H	379	PRIORITY 1	12	314	0.83	2.74	24	$ 600	$ 189,000	75%	$ 142,000
3	R3AC	582	NO IMPRV	12	1,304	1.19	0.88	15	$ 375	$ 489,000	0%	$ -
3	R3D	583	PRIORITY 4	42	1,179	21.81	27.40	48	$ 1,200	$ 1,415,000	5%	$ 71,000
3	R3L	686	NO IMPRV	24	1,165	2.91	2.59	30	$ 750	$ 874,000	0%	$ -
3	R3J	730	PRIORITY 4	24	978	5.98	6.13	30	$ 750	$ 734,000	5%	$ 37,000
3	R3C	731	PRIORITY 3	42	1,815	19.35	26.13	48	$ 1,200	$ 2,178,000	20%	$ 436,000
3	R3U	766	NO IMPRV	27	29	3.73	1.49	33	$ 825	$ 24,000	0%	$ -
3	R3A	780	NO IMPRV	15	321	1.73	1.04	18	$ 450	$ 145,000	0%	$ -
3	R3T	847	APPR FULL	12	1,111	0.92	0.90	15	$ 375	$ 417,000	0%	$ -
3	R5M	886	PRIORITY 4	36	331	18.24	25.00	48	$ 1,200	$ 398,000	5%	$ 20,000
3	R5M	890	PRIORITY 2	36	2,626	22.05	25.11	42	$ 1,050	$ 2,758,000	50%	$ 1,379,000
3	R5K	891	PRIORITY 1	30	1,103	3.30	25.66	72	$ 1,800	$ 1,986,000	75%	$ 1,490,000
3	R3P	979	PRIORITY 2	18	1,727	1.49	1.98	24	$ 600	$ 1,037,000	50%	$ 519,000
3	R3W	980	NO IMPRV	12	2,590	1.12	0.86	15	$ 375	$ 972,000	0%	$ -
3	R3F	985	PRIORITY 4	24	818	3.47	4.29	30	$ 750	$ 614,000	5%	$ 31,000
3	R3R	987	PRIORITY 2	12	1,801	0.64	0.87	18	$ 450	$ 811,000	50%	$ 406,000
3	R3R	988	PRIORITY 3	12	1,459	0.59	1.22	21	$ 525	$ 766,000	20%	$ 154,000
3	R3S	989	NO IMPRV	21	1,145	2.63	2.35	27	$ 675	$ 773,000	0%	$ -
3	R3N	1086	NO IMPRV	12	1,041	0.92	0.62	15	$ 375	$ 391,000	0%	$ -
3	R3D	1163	NO IMPRV	48	48	30.03	12.85	54	$ 1,350	$ 65,000	0%	$ -
3	R3D	1164	NO IMPRV	48	109	29.56	12.80	54	$ 1,350	$ 148,000	0%	$ -
3	R3AA	1165	NO IMPRV	48	353	29.30	12.82	54	$ 1,350	$ 477,000	0%	$ -
3	R3AA	1166	NO IMPRV	48	702	29.38	12.82	54	$ 1,350	$ 948,000	0%	$ -
3	R3AA	1167	NO IMPRV	48	255	29.71	12.80	54	$ 1,350	$ 345,000	0%	$ -
3	R3AA	1168	NO IMPRV	48	622	29.38	12.81	54	$ 1,350	$ 840,000	0%	$ -
3	R3AA	1169	NO IMPRV	48	931	29.41	12.82	54	$ 1,350	$ 1,257,000	0%	$ -
3	R3AA	1170	NO IMPRV	48	929	29.44	12.48	54	$ 1,350	$ 1,255,000	0%	$ -
3	R3AA	1171	NO IMPRV	48	813	29.37	12.49	54	$ 1,350	$ 1,098,000	0%	$ -
3	R3AA	1182	NO IMPRV	48	1,207	29.46	12.40	54	$ 1,350	$ 1,630,000	0%	$ -
3	R3J	1183	NO IMPRV	48	89	29.59	12.18	54	$ 1,350	$ 121,000	0%	$ -
3	R3AA	1184	NO IMPRV	48	1,192	29.40	12.18	54	$ 1,350	$ 1,610,000	0%	$ -
3	R5H	1215	PRIORITY 1	12	406	0.38	2.72	33	$ 825	$ 335,000	75%	$ 252,000
3	R3AB	2655	NO IMPRV	12	511	1.03	0.75	15	$ 375	$ 192,000	0%	$ -
3	R3AD	2657	NO IMPRV	12	1,299	0.98	0.78	15	$ 375	$ 488,000	0%	$ -
4	R4A	271	PRIORITY 4	12	2,034	1.00	1.13	15	$ 375	$ 763,000	5%	$ 39,000
4	R4A	281	PRIORITY 4	12	97	0.41	1.58	24	$ 600	$ 59,000	5%	$ 3,000
4	R4A	282	PRIORITY 4	15	1,441	1.72	2.32	18	$ 450	$ 649,000	5%	$ 33,000
4	R4H	312	PRIORITY 4	15	1,093	0.80	0.81	18	$ 450	$ 492,000	5%	$ 25,000

Table F1 - Existing Conditions - Base Cost Calculations for Existing Gravity Sewers

System	Improvement ID	G_ID	Improvement Priority Existing Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Replacement Design Diameter, Inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
4	R4F	315	APPR FULL	12	2,094	0.92	0.87	15	$ 375	$ 786,000	0%	$ -
4	R4F	353	NO IMPRV	12	1,811	1.01	0.87	15	$ 375	$ 680,000	0%	$ -
4	R6H	360	APPR FULL	18	3,313	2.72	2.68	21	$ 525	$ 1,740,000	0%	$ -
4	R4G	380	PRIORITY 4	18	766	2.43	3.17	21	$ 525	$ 403,000	5%	$ 21,000
4	R6F	401	PRIORITY 3	18	2,071	2.68	3.18	21	$ 525	$ 1,088,000	20%	$ 218,000
4	R6G	408	PRIORITY 3	18	1,733	2.85	3.19	21	$ 525	$ 910,000	20%	$ 182,000
4	R6J	421	PRIORITY 4	27	719	4.03	4.07	30	$ 750	$ 540,000	5%	$ 27,000
4	R5B	448	NO IMPRV	27	1,268	4.61	3.74	30	$ 750	$ 951,000	0%	$ -
4	R5B	453	PRIORITY 2	27	1,191	2.01	3.75	42	$ 1,050	$ 1,251,000	50%	$ 626,000
4	R4D	843	PRIORITY 4	18	765	2.35	2.69	21	$ 525	$ 402,000	5%	$ 21,000
4	R6A	851	PRIORITY 1	18	3,602	2.68	3.15	21	$ 525	$ 1,892,000	75%	$ 1,419,000
4	R4C	943	PRIORITY 4	12	540	1.12	1.38	15	$ 375	$ 203,000	5%	$ 11,000
4	R5B	1001	PRIORITY 4	27	3,879	3.60	6.55	42	$ 1,050	$ 4,073,000	5%	$ 204,000
4	R4B	1073	APPR FULL	12	2,243	1.11	1.01	15	$ 375	$ 842,000	0%	$ -
4	R6K	1211	APPR FULL	27	1,933	4.47	4.12	30	$ 750	$ 1,450,000	0%	$ -
5	R5H	386	PRIORITY 1	12	388	0.44	2.73	30	$ 750	$ 291,000	75%	$ 219,000
5	R5H	392	PRIORITY 1	18	390	1.50	2.83	30	$ 750	$ 293,000	75%	$ 220,000
5	R5H	397	PRIORITY 1	12	349	0.81	2.90	27	$ 675	$ 236,000	75%	$ 177,000
5	R5F	410	PRIORITY 4	15	373	0.42	0.45	18	$ 450	$ 168,000	5%	$ 9,000
5	R5G	413	APPR FULL	18	770	3.39	3.10	21	$ 525	$ 405,000	0%	$ -
5	R5G	414	PRIORITY 3	18	385	2.55	3.08	24	$ 600	$ 231,000	20%	$ 47,000
5	R5C	436	NO IMPRV	12	883	0.88	0.49	18	$ 450	$ 398,000	0%	$ -
5	R5C	439	NO IMPRV	12	802	0.97	0.49	18	$ 450	$ 361,000	0%	$ -
5	R5D	467	PRIORITY 4	24	723	3.08	3.22	30	$ 750	$ 543,000	5%	$ 28,000
5	R5E	764	PRIORITY 3	12	985	1.26	1.92	18	$ 450	$ 444,000	20%	$ 89,000
5	R5A	778	PRIORITY 2	36	2,805	16.27	18.08	48	$ 1,200	$ 3,366,000	50%	$ 1,683,000
5	R5G	853	PRIORITY 3	16	1,165	1.49	3.14	27	$ 675	$ 787,000	20%	$ 158,000
5	R5J	893	PRIORITY 2	15	1,077	0.71	2.27	24	$ 600	$ 647,000	50%	$ 324,000
5	R5H	993	PRIORITY 1	12	386	0.94	2.89	24	$ 600	$ 232,000	75%	$ 174,000
5	R5O	1209	PRIORITY 4	12	266	0.47	1.77	21	$ 525	$ 140,000	5%	$ 7,000
6	R6A	304	NO IMPRV	18	424	3.95	0.63	21	$ 525	$ 223,000	0%	$ -
6	R6AA	324	APPR FULL	15	336	1.07	0.99	18	$ 450	$ 152,000	0%	$ -
6	R6AA	325	PRIORITY 4	16	1,054	1.26	1.50	18	$ 450	$ 475,000	5%	$ 24,000
6	R3U	343	NO IMPRV	24	28	2.77	0.63	30	$ 750	$ 21,000	0%	$ -
6	R3V	354	NO IMPRV	30	1,711	5.22	1.50	33	$ 825	$ 1,412,000	0%	$ -
6	R6E	394	PRIORITY 4	12	1,771	0.87	1.16	15	$ 375	$ 665,000	5%	$ 34,000
6	R6E	395	PRIORITY 3	12	1,794	0.67	0.87	15	$ 375	$ 673,000	20%	$ 135,000
6	R5I	403	PRIORITY 4	12	395	0.26	0.54	18	$ 450	$ 178,000	5%	$ 9,000
6	R6M	441	NO IMPRV	36	2,915	15.10	6.96	42	$ 1,050	$ 3,061,000	0%	$ -

Table F1 - Existing Conditions - Base Cost Calculations for Existing Gravity Sewers

System	Improvement ID	G_ID	Improvement Priority Existing Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Replacement Design Diameter, Inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
6	R6N	442	NO IMPRV	24	3,588	4.73	2.27	27	$ 675	$ 2,422,000	0%	$ -
6	R6N	444	NO IMPRV	24	1,249	5.91	2.64	27	$ 675	$ 844,000	0%	$ -
6	R6L	450	PRIORITY 4	12	1,090	0.52	0.52	15	$ 375	$ 409,000	5%	$ 21,000
6	R6D	451	NO IMPRV	12	946	1.03	0.83	15	$ 375	$ 355,000	0%	$ -
6	R6D	462	NO IMPRV	12	1,426	1.00	0.83	15	$ 375	$ 535,000	0%	$ -
6	R5L	478	NO IMPRV	48	2,206	14.42	12.70	60	$ 1,500	$ 3,309,000	0%	$ -
6	R6Q	482	APPR FULL	16	1,424	1.53	1.52	21	$ 525	$ 748,000	0%	$ -
6	R6S	486	PRIORITY 4	12	2,138	0.23	0.58	21	$ 525	$ 1,123,000	5%	$ 57,000
6	R6R	819	APPR FULL	12	701	0.81	0.77	15	$ 375	$ 263,000	0%	$ -
6	R6E	852	PRIORITY 4	12	85	0.61	0.87	15	$ 375	$ 32,000	5%	$ 2,000
6	R6M	855	NO IMPRV	36	1,318	13.88	6.97	42	$ 1,050	$ 1,384,000	0%	$ -
6	R6M	862	NO IMPRV	36	2,312	8.38	6.97	48	$ 1,200	$ 2,775,000	0%	$ -
6	R6V	1006	NO IMPRV	72	841	50.05	28.41	78	$ 1,950	$ 1,640,000	0%	$ -
6	R6V	1018	NO IMPRV	72	56	51.84	28.21	78	$ 1,950	$ 110,000	0%	$ -
6	R6Q	1088	NO IMPRV	16	1,408	1.84	1.31	21	$ 525	$ 740,000	0%	$ -
6	R6P	1089	PRIORITY 4	12	1,356	0.71	0.72	21	$ 525	$ 712,000	5%	$ 36,000
6	R6P	1090	NO IMPRV	12	1,632	0.82	0.72	18	$ 450	$ 735,000	0%	$ -
7	R7A	550	NO IMPRV	30	664	7.29	4.50	42	$ 1,050	$ 698,000	0%	$ -
7	R7A	553	NO IMPRV	30	368	6.19	4.52	42	$ 1,050	$ 387,000	0%	$ -
7	R7A	554	NO IMPRV	30	59	10.94	4.50	36	$ 900	$ 54,000	0%	$ -
7	R7A	556	NO IMPRV	30	492	6.22	4.52	42	$ 1,050	$ 517,000	0%	$ -
7	R7A	563	PRIORITY 4	30	150	2.66	4.40	60	$ 1,500	$ 225,000	5%	$ 12,000
7	R7A	565	NO IMPRV	30	308	7.42	3.17	42	$ 1,050	$ 324,000	0%	$ -
7	R7C	1043	NO IMPRV	42	316	13.72	5.04	48	$ 1,200	$ 380,000	0%	$ -
7	R7B	1045	NO IMPRV	48	422	15.69	4.85	54	$ 1,350	$ 570,000	0%	$ -
7	R7A	1047	NO IMPRV	30	585	8.79	4.50	42	$ 1,050	$ 615,000	0%	$ -
7	R7A	1049	NO IMPRV	30	619	7.77	4.50	42	$ 1,050	$ 650,000	0%	$ -
7	R7B	1050	NO IMPRV	42	876	11.23	4.90	54	$ 1,350	$ 1,183,000	0%	$ -
8	R8P	549	NO IMPRV	42	274	22.27	1.31	48	$ 1,200	$ 329,000	0%	$ -
8	R8P	551	NO IMPRV	42	463	24.04	1.31	48	$ 1,200	$ 556,000	0%	$ -
8	R8P	552	NO IMPRV	42	396	23.62	1.31	48	$ 1,200	$ 476,000	0%	$ -
8	R8M	557	APPR FULL	15	299	1.64	1.60	18	$ 450	$ 135,000	0%	$ -
8	R8B	558	NO IMPRV	15	2,237	1.62	1.36	18	$ 450	$ 1,007,000	0%	$ -
8	R8M	559	PRIORITY 4	15	335	1.55	1.60	18	$ 450	$ 151,000	5%	$ 8,000
8	R8M	560	APPR FULL	15	317	1.63	1.61	18	$ 450	$ 143,000	0%	$ -
8	R8M	561	APPR FULL	15	415	1.62	1.60	18	$ 450	$ 187,000	0%	$ -
8	R8M	564	PRIORITY 4	12	357	1.03	1.42	18	$ 450	$ 161,000	5%	$ 9,000
8	R8M	567	PRIORITY 4	12	355	1.03	1.42	18	$ 450	$ 160,000	5%	$ 8,000
8	R8M	568	PRIORITY 4	12	201	1.03	1.20	15	$ 375	$ 76,000	5%	$ 4,000

Table F1 - Existing Conditions - Base Cost Calculations for Existing Gravity Sewers

System	Improvement ID	G_ID	Improvement Priority Existing Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Replacement Design Diameter, Inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
8	R8M	569	PRIORITY 4	12	412	1.04	1.19	15	$ 375	$ 155,000	5%	$ 8,000
8	R8G	578	NO IMPRV	27	344	4.84	2.87	30	$ 750	$ 258,000	0%	$ -
8	R8G	579	NO IMPRV	27	567	4.91	2.87	30	$ 750	$ 426,000	0%	$ -
8	R8C	595	NO IMPRV	72	250	54.86	7.35	78	$ 1,950	$ 488,000	0%	$ -
8	R8E	599	NO IMPRV	66	280	45.03	6.18	72	$ 1,800	$ 504,000	0%	$ -
8	R8I	605	NO IMPRV	48	1,235	20.68	2.57	54	$ 1,350	$ 1,668,000	0%	$ -
8	R8Q	609	APPR FULL	12	336	0.50	0.50	15	$ 375	$ 126,000	0%	$ -
8	R8P	629	NO IMPRV	42	539	25.70	0.56	48	$ 1,200	$ 647,000	0%	$ -
8	R8P	630	NO IMPRV	42	537	25.74	0.56	48	$ 1,200	$ 645,000	0%	$ -
8	R8P	645	NO IMPRV	42	499	22.60	1.93	48	$ 1,200	$ 599,000	0%	$ -
8	R8P	646	NO IMPRV	42	382	22.61	1.93	48	$ 1,200	$ 459,000	0%	$ -
8	R8P	647	NO IMPRV	42	503	22.51	1.49	48	$ 1,200	$ 604,000	0%	$ -
8	R8P	648	NO IMPRV	42	515	22.24	1.49	48	$ 1,200	$ 618,000	0%	$ -
8	R8P	649	NO IMPRV	42	446	22.47	1.49	48	$ 1,200	$ 536,000	0%	$ -
8	R8P	650	NO IMPRV	42	548	22.27	1.31	48	$ 1,200	$ 658,000	0%	$ -
8	R8P	651	NO IMPRV	42	550	22.23	1.32	48	$ 1,200	$ 660,000	0%	$ -
8	R8P	652	NO IMPRV	42	332	26.40	1.32	48	$ 1,200	$ 399,000	0%	$ -
8	R8P	653	NO IMPRV	42	511	22.33	1.49	48	$ 1,200	$ 614,000	0%	$ -
8	R8P	654	NO IMPRV	42	354	26.21	1.93	48	$ 1,200	$ 425,000	0%	$ -
8	R8N	655	NO IMPRV	18	305	2.37	1.93	21	$ 525	$ 161,000	0%	$ -
8	R8N	656	NO IMPRV	21	449	3.14	2.29	24	$ 600	$ 270,000	0%	$ -
8	R8N	657	NO IMPRV	21	499	3.15	2.29	24	$ 600	$ 300,000	0%	$ -
8	R8N	658	NO IMPRV	21	358	2.97	2.29	24	$ 600	$ 215,000	0%	$ -
8	R8N	659	NO IMPRV	21	678	3.15	1.93	24	$ 600	$ 407,000	0%	$ -
8	R8N	660	NO IMPRV	18	349	2.60	1.78	21	$ 525	$ 184,000	0%	$ -
8	R8N	661	NO IMPRV	18	343	2.35	1.78	21	$ 525	$ 181,000	0%	$ -
8	R8N	662	NO IMPRV	18	748	2.36	1.93	21	$ 525	$ 393,000	0%	$ -
8	R8N	663	NO IMPRV	18	306	2.33	1.93	21	$ 525	$ 161,000	0%	$ -
8	R8N	664	NO IMPRV	18	374	2.36	1.93	21	$ 525	$ 197,000	0%	$ -
8	R8D	801	NO IMPRV	48	536	23.43	4.78	54	$ 1,350	$ 724,000	0%	$ -
8	R8H	808	PRIORITY 4	15	296	0.42	1.06	21	$ 525	$ 156,000	5%	$ 8,000
8	R8C	871	NO IMPRV	72	216	56.00	7.34	78	$ 1,950	$ 422,000	0%	$ -
8	R8C	872	NO IMPRV	72	281	54.28	7.35	78	$ 1,950	$ 548,000	0%	$ -
8	R8C	873	NO IMPRV	72	287	56.09	7.26	78	$ 1,950	$ 560,000	0%	$ -
8	R7D	875	NO IMPRV	72	460	52.74	7.19	78	$ 1,950	$ 897,000	0%	$ -
8	R8E	882	NO IMPRV	66	428	43.35	6.16	72	$ 1,800	$ 771,000	0%	$ -
8	R8P	912	NO IMPRV	42	600	24.76	1.31	48	$ 1,200	$ 720,000	0%	$ -
8	R8P	913	NO IMPRV	42	377	25.71	0.56	48	$ 1,200	$ 453,000	0%	$ -
8	R8P	915	NO IMPRV	42	458	25.70	0.56	48	$ 1,200	$ 550,000	0%	$ -

Table F1 - Existing Conditions - Base Cost Calculations for Existing Gravity Sewers

System	Improvement ID	G_ID	Improvement Priority Existing Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Replacement Design Diameter, Inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
8	R8P	916	NO IMPRV	42	454	25.81	0.56	48	$ 1,200	$ 545,000	0%	$ -
8	R8P	917	NO IMPRV	42	241	25.30	0.56	48	$ 1,200	$ 290,000	0%	$ -
8	R8P	918	NO IMPRV	42	542	25.62	0.56	48	$ 1,200	$ 651,000	0%	$ -
8	R8G	920	NO IMPRV	27	688	5.01	2.70	30	$ 750	$ 516,000	0%	$ -
8	R8A	925	NO IMPRV	18	200	2.59	1.80	21	$ 525	$ 105,000	0%	$ -
8	R8A	927	NO IMPRV	18	382	2.53	1.80	21	$ 525	$ 201,000	0%	$ -
8	R8A	928	NO IMPRV	18	87	2.63	1.81	21	$ 525	$ 46,000	0%	$ -
8	R8A	929	NO IMPRV	18	443	2.55	1.81	21	$ 525	$ 233,000	0%	$ -
8	R8A	930	NO IMPRV	18	458	2.54	1.81	21	$ 525	$ 241,000	0%	$ -
8	R8A	931	NO IMPRV	18	450	2.55	1.81	21	$ 525	$ 237,000	0%	$ -
8	R8A	932	NO IMPRV	18	401	2.59	1.81	21	$ 525	$ 211,000	0%	$ -
8	R8A	933	NO IMPRV	18	450	2.57	1.81	21	$ 525	$ 237,000	0%	$ -
8	R8A	934	NO IMPRV	18	448	2.55	1.81	21	$ 525	$ 236,000	0%	$ -
8	R8A	936	NO IMPRV	18	391	2.51	1.81	21	$ 525	$ 206,000	0%	$ -
8	R8G	937	APPR FULL	24	410	2.05	1.94	30	$ 750	$ 308,000	0%	$ -
8	R8G	938	NO IMPRV	24	233	3.59	2.48	27	$ 675	$ 158,000	0%	$ -
8	R8F	1085	NO IMPRV	18	1,101	2.15	0.91	21	$ 525	$ 579,000	0%	$ -
8	R8G	1098	PRIORITY 4	27	1,845	2.01	3.22	48	$ 1,200	$ 2,214,000	5%	$ 111,000
8	R8G	1099	NO IMPRV	27	193	5.40	2.86	30	$ 750	$ 145,000	0%	$ -
8	R8I	2632	NO IMPRV	48	1,716	20.95	0.00	54	$ 1,350	$ 2,317,000	0%	$ -
8	R8O	2674	NO IMPRV	12	615	1.04	0.50	15	$ 375	$ 231,000	0%	$ -
8	R8F	2687	NO IMPRV	12	1,749	0.90	0.43	15	$ 375	$ 656,000	0%	$ -
8	R8S	3766	NO IMPRV	12	444	0.86	0.52	15	$ 375	$ 167,000	0%	$ -
8	R8J	3912	NO IMPRV	8	411	0.28	0.55	12	$ 300	$ 124,000	0%	$ -
8	R8S	3917	NO IMPRV	15	1,953	1.27	0.52	18	$ 450	$ 879,000	0%	$ -
9	R9A	2649	NO IMPRV	36	2,586	10.54	0.00	42	$ 1,050	$ 2,716,000	0%	$ -
9	R9A	2652	NO IMPRV	36	1,480	12.61	0.00	42	$ 1,050	$ 1,554,000	0%	$ -
9	R9B	2727	NO IMPRV	15	2,628	1.29	0.56	18	$ 450	$ 1,183,000	0%	$ -
10	R10C	14	NO IMPRV	54	1,314	36.52	7.21	60	$ 1,500	$ 1,971,000	0%	$ -
10	R10I	776	PRIORITY 4	12	502	0.58	0.89	15	$ 375	$ 189,000	5%	$ 10,000
10	R10O	781	PRIORITY 4	30	662	4.00	5.92	36	$ 900	$ 596,000	5%	$ 30,000
10	R10A	1143	NO IMPRV	42	2,607	9.12	2.94	60	$ 1,500	$ 3,911,000	0%	$ -
10	R10A	1144	NO IMPRV	42	1,203	15.72	2.81	48	$ 1,200	$ 1,444,000	0%	$ -
10	R10A	1145	NO IMPRV	42	1,553	15.95	2.56	48	$ 1,200	$ 1,864,000	0%	$ -
10	R10A	1146	NO IMPRV	42	144	16.29	2.53	48	$ 1,200	$ 173,000	0%	$ -
10	R10A	1147	NO IMPRV	42	578	16.04	2.53	48	$ 1,200	$ 694,000	0%	$ -
10	R10A	1148	NO IMPRV	42	465	15.70	2.53	48	$ 1,200	$ 558,000	0%	$ -
10	R10A	1149	NO IMPRV	42	3,200	16.00	2.53	48	$ 1,200	$ 3,840,000	0%	$ -
10	R5J	1187	NO IMPRV	42	323	28.55	18.92	48	$ 1,200	$ 388,000	0%	$ -

Table F1 - Existing Conditions - Base Cost Calculations for Existing Gravity Sewers

System	Improvement ID	G_ID	Improvement Priority Existing Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Replacement Design Diameter, Inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
10	R10O	1192	PRIORITY 4	30	60	4.85	5.99	33	$ 825	$ 50,000	5%	$ 3,000
10	R10O	1193	PRIORITY 4	30	130	4.04	5.96	36	$ 900	$ 117,000	5%	$ 6,000
10	R10O	1198	PRIORITY 4	30	140	5.02	5.99	33	$ 825	$ 116,000	5%	$ 6,000
10	R10B	2607	NO IMPRV	24	915	4.60	0.00	27	$ 675	$ 618,000	0%	$ -
10	R10L	2634	NO IMPRV	12	1,197	0.97	0.08	15	$ 375	$ 449,000	0%	$ -
10	R10K	2707	NO IMPRV	15	2,041	1.80	1.34	18	$ 450	$ 919,000	0%	$ -

Table F2 - Buildout Conditions - Base Cost Calculations for Existing Gravity Sewers

			Improvement Priority										Existing Conditions			Buildout Conditions	
System	Improvement ID	G_ID	Existing Conditions	Buildout Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Change in Priority from Existing to Buildout	Replacement Design Diameter, inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget	Future Growth Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
1	R1A	16	PRIORITY 4	PRIORITY 4	12	450	1.00	1.28	NO CHANGE	15	$ 375	$ 169,000	5%	$ 9,000	$ -	5%	$ 9,000
1	R1A	17	PRIORITY 3	PRIORITY 3	12	262	1.03	1.29	NO CHANGE	15	$ 375	$ 99,000	20%	$ 20,000	$ -	20%	$ 20,000
1	R1B	8	PRIORITY 4	PRIORITY 4	15	1,170	1.47	1.55	NO CHANGE	18	$ 450	$ 527,000	5%	$ 27,000	$ -	5%	$ 27,000
1	R1C	19	PRIORITY 4	PRIORITY 4	15	982	1.49	2.44	NO CHANGE	18	$ 450	$ 442,000	5%	$ 23,000	$ -	5%	$ 23,000
1	R1C	725	PRIORITY 4	PRIORITY 4	15	53	1.41	2.69	NO CHANGE	21	$ 525	$ 28,000	5%	$ 2,000	$ -	5%	$ 2,000
1	R1D	54	PRIORITY 4	PRIORITY 4	12	1,151	0.93	0.93	NO CHANGE	15	$ 375	$ 432,000	5%	$ 22,000	$ -	5%	$ 22,000
1	R1E	111	PRIORITY 4	PRIORITY 4	12	1,101	0.87	0.93	NO CHANGE	15	$ 375	$ 413,000	5%	$ 21,000	$ -	5%	$ 21,000
1	R1F	124	PRIORITY 4	PRIORITY 4	12	622	1.03	1.38	NO CHANGE	15	$ 375	$ 234,000	5%	$ 12,000	$ -	5%	$ 12,000
1	R1F	824	PRIORITY 4	PRIORITY 4	12	62	1.14	4.34	NO CHANGE	21	$ 525	$ 33,000	5%	$ 2,000	$ -	5%	$ 2,000
2	R2AI	90	PRIORITY 4	PRIORITY 4	36	3,088	10.91	13.68	NO CHANGE	42	$ 1,050	$ 3,243,000	5%	$ 163,000	$ -	5%	$ 163,000
2	R2M	150	PRIORITY 1	PRIORITY 1	12	2,033	0.85	0.91	NO CHANGE	15	$ 375	$ 763,000	75%	$ 573,000	$ -	75%	$ 573,000
2	R2N	204	PRIORITY 4	PRIORITY 3	30	159	5.57	5.63	PRIORITY CHANGED	33	$ 825	$ 132,000	5%	$ 7,000	$ 125,000	100%	$ 132,000
2	R2A	47	PRIORITY 1	PRIORITY 1	12	1,876	0.70	1.31	NO CHANGE	18	$ 450	$ 845,000	75%	$ 634,000	$ -	75%	$ 634,000
2	R2A	59	PRIORITY 4	PRIORITY 3	12	673	0.71	1.04	PRIORITY CHANGED	15	$ 375	$ 253,000	5%	$ 13,000	$ 240,000	100%	$ 253,000
2	R2A	62	PRIORITY 3	PRIORITY 3	12	741	0.60	1.04	NO CHANGE	15	$ 375	$ 278,000	20%	$ 56,000	$ -	20%	$ 56,000
2	R2A	64	PRIORITY 1	PRIORITY 1	12	1,526	0.94	1.84	NO CHANGE	18	$ 450	$ 687,000	75%	$ 516,000	$ -	75%	$ 516,000
2	R2AA	1076	PRIORITY 4	PRIORITY 4	12	1,790	1.04	1.10	NO CHANGE	15	$ 375	$ 672,000	5%	$ 34,000	$ -	5%	$ 34,000
2	R2AB	727	PRIORITY 4	PRIORITY 4	16	327	1.76	3.16	NO CHANGE	21	$ 525	$ 172,000	5%	$ 9,000	$ -	5%	$ 9,000
2	R2AB	949	PRIORITY 2	PRIORITY 2	16	274	1.75	2.40	NO CHANGE	21	$ 525	$ 144,000	50%	$ 72,000	$ -	50%	$ 72,000
2	R2AC	57	PRIORITY 1	PRIORITY 1	15	1,245	1.71	2.77	NO CHANGE	21	$ 525	$ 654,000	75%	$ 491,000	$ -	75%	$ 491,000
2	R2AC	77	PRIORITY 3	PRIORITY 3	15	994	1.64	2.79	NO CHANGE	21	$ 525	$ 522,000	20%	$ 105,000	$ -	20%	$ 105,000
2	R2AD	213	PRIORITY 1	PRIORITY 1	15	2,151	1.62	2.26	NO CHANGE	18	$ 450	$ 968,000	75%	$ 726,000	$ -	75%	$ 726,000
2	R2AD	215	PRIORITY 1	PRIORITY 1	15	742	1.35	2.74	NO CHANGE	21	$ 525	$ 390,000	75%	$ 293,000	$ -	75%	$ 293,000
2	R2AD	224	PRIORITY 2	PRIORITY 1	15	1,237	1.67	2.74	PRIORITY CHANGED	21	$ 525	$ 650,000	50%	$ 325,000	$ 325,000	100%	$ 650,000
2	R2AD	709	PRIORITY 1	PRIORITY 1	12	648	0.75	1.14	NO CHANGE	15	$ 375	$ 243,000	75%	$ 183,000	$ -	75%	$ 183,000
2	R2AD	975	PRIORITY 1	PRIORITY 1	15	1,048	1.18	1.46	NO CHANGE	18	$ 450	$ 472,000	75%	$ 354,000	$ -	75%	$ 354,000
2	R2AD	976	PRIORITY 1	PRIORITY 1	10	228	0.48	1.14	NO CHANGE	15	$ 375	$ 86,000	75%	$ 65,000	$ -	75%	$ 65,000
2	R2AD	977	PRIORITY 1	PRIORITY 1	12	683	0.83	1.14	NO CHANGE	15	$ 375	$ 257,000	75%	$ 193,000	$ -	75%	$ 193,000
2	R2AE	1077	PRIORITY 4	PRIORITY 4	15	2,593	2.48	2.49	NO CHANGE	18	$ 450	$ 1,167,000	5%	$ 59,000	$ -	5%	$ 59,000
2	R2AK	961	PRIORITY 4	PRIORITY 4	36	3,943	12.29	14.16	NO CHANGE	42	$ 1,050	$ 4,141,000	5%	$ 208,000	$ -	5%	$ 208,000
2	R2AM	100	PRIORITY 4	PRIORITY 4	33	108	8.07	9.53	NO CHANGE	36	$ 900	$ 98,000	5%	$ 5,000	$ -	5%	$ 5,000
2	R2AM	102	PRIORITY 4	PRIORITY 4	33	1,076	4.67	9.51	NO CHANGE	48	$ 1,200	$ 1,292,000	5%	$ 65,000	$ -	5%	$ 65,000
2	R2AN	959	PRIORITY 3	PRIORITY 3	12	1,287	0.78	1.15	NO CHANGE	15	$ 375	$ 483,000	20%	$ 97,000	$ -	20%	$ 97,000
2	R2AO	113	PRIORITY 4	PRIORITY 4	18	933	1.39	1.66	NO CHANGE	21	$ 525	$ 490,000	5%	$ 25,000	$ -	5%	$ 25,000
2	R2B	66	PRIORITY 4	PRIORITY 4	15	862	1.32	1.34	NO CHANGE	18	$ 450	$ 388,000	5%	$ 20,000	$ -	5%	$ 20,000
2	R2C	39	PRIORITY 4	PRIORITY 4	12	826	0.87	0.87	NO CHANGE	15	$ 375	$ 310,000	5%	$ 16,000	$ -	5%	$ 16,000
2	R2D	60	PRIORITY 4	PRIORITY 4	12	823	1.06	1.28	NO CHANGE	15	$ 375	$ 309,000	5%	$ 16,000	$ -	5%	$ 16,000
2	R2D	71	PRIORITY 4	PRIORITY 4	15	304	1.66	2.47	NO CHANGE	18	$ 450	$ 137,000	5%	$ 7,000	$ -	5%	$ 7,000
2	R2D	74	PRIORITY 1	PRIORITY 1	12	1,558	0.77	2.47	NO CHANGE	21	$ 525	$ 818,000	75%	$ 614,000	$ -	75%	$ 614,000
2	R2D	115	PRIORITY 1	PRIORITY 1	12	614	1.31	2.80	NO CHANGE	18	$ 450	$ 277,000	75%	$ 208,000	$ -	75%	$ 208,000
2	R2E	948	PRIORITY 2	PRIORITY 2	16	1,473	1.35	2.34	NO CHANGE	21	$ 525	$ 774,000	50%	$ 387,000	$ -	50%	$ 387,000
2	R2F	119	PRIORITY 3	PRIORITY 3	12	1,510	0.75	1.21	NO CHANGE	15	$ 375	$ 567,000	20%	$ 114,000	$ -	20%	$ 114,000
2	R2G	142	APPR FULL	PRIORITY 1	12	262	0.51	0.50	PRIORITY CHANGED	15	$ 375	$ 99,000	0%	$ -	$ 99,000	100%	$ 99,000
2	R2H	238	PRIORITY 2	PRIORITY 2	12	2,373	0.99	1.51	NO CHANGE	15	$ 375	$ 890,000	50%	$ 445,000	$ -	50%	$ 445,000
2	R2J	209	PRIORITY 4	PRIORITY 4	15	1,332	2.18	2.71	NO CHANGE	18	$ 450	$ 600,000	5%	$ 30,000	$ -	5%	$ 30,000
2	R2J	216	PRIORITY 4	PRIORITY 4	12	1,379	1.31	1.32	NO CHANGE	15	$ 375	$ 518,000	5%	$ 26,000	$ -	5%	$ 26,000
2	R2K	189	PRIORITY 4	PRIORITY 4	30	1,641	6.49	8.84	NO CHANGE	36	$ 900	$ 1,477,000	5%	$ 74,000	$ -	5%	$ 74,000
2	R2L	170	PRIORITY 2	PRIORITY 2	18	987	1.02	2.04	NO CHANGE	24	$ 600	$ 593,000	50%	$ 297,000	$ -	50%	$ 297,000
2	R2L	968	PRIORITY 3	PRIORITY 3	18	988	1.33	1.90	NO CHANGE	21	$ 525	$ 519,000	20%	$ 104,000	$ -	20%	$ 104,000
2	R2L	969	PRIORITY 1	PRIORITY 1	12	1,182	0.51	1.29	NO CHANGE	18	$ 450	$ 532,000	75%	$ 399,000	$ -	75%	$ 399,000
2	R2L	973	PRIORITY 2	PRIORITY 2	18	790	0.68	2.60	NO CHANGE	30	$ 750	$ 593,000	50%	$ 297,000	$ -	50%	$ 297,000
2	R2L	974	PRIORITY 1	PRIORITY 1	12	2,032	0.80	1.90	NO CHANGE	18	$ 450	$ 915,000	75%	$ 687,000	$ -	75%	$ 687,000
2	R2N	200	PRIORITY 4	PRIORITY 3	30	552	5.54	6.08	PRIORITY CHANGED	33	$ 825	$ 456,000	5%	$ 23,000	$ 433,000	100%	$ 456,000
2	R2O	683	PRIORITY 3	PRIORITY 3	18	128	2.69	2.74	NO CHANGE	21	$ 525	$ 68,000	20%	$ 14,000	$ -	20%	$ 14,000
2	R2O	684	PRIORITY 3	PRIORITY 3	18	794	2.32	2.78	NO CHANGE	21	$ 525	$ 417,000	20%	$ 84,000	$ -	20%	$ 84,000
2	R2Q	182	PRIORITY 4	PRIORITY 4	15	1,308	1.56	1.92	NO CHANGE	18	$ 450	$ 589,000	5%	$ 30,000	$ -	5%	$ 30,000

Table F2 - Buildout Conditions - Base Cost Calculations for Existing Gravity Sewers

			Improvement Priority										Existing Conditions			Buildout Conditions	
System	Improvement ID	G_ID	Existing Conditions	Buildout Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Change in Priority from Existing to Buildout	Replacement Design Diameter, inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget	Future Growth Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
1	R1A	16	PRIORITY 4	PRIORITY 4	12	450	1.00	1.28	NO CHANGE	15	$ 375	$ 169,000	5%	$ 9,000	$ -	5%	$ 9,000
2	R2Q	668	PRIORITY 4	PRIORITY 4	15	1,486	1.68	1.87	NO CHANGE	18	$ 450	$ 669,000	5%	$ 34,000	$ -	5%	$ 34,000
2	R2Q	771	PRIORITY 4	PRIORITY 3	15	1,753	1.63	1.78	PRIORITY CHANGED	18	$ 450	$ 789,000	5%	$ 40,000	$ 749,000	100%	$ 789,000
2	R2Q	833	PRIORITY 3	PRIORITY 3	15	522	1.86	2.13	NO CHANGE	18	$ 450	$ 235,000	20%	$ 47,000	$ -	20%	$ 47,000
2	R2R	198	PRIORITY 2	PRIORITY 1	12	589	0.98	1.07	PRIORITY CHANGED	15	$ 375	$ 221,000	50%	$ 111,000	$ 110,000	100%	$ 221,000
2	R2R	772	PRIORITY 3	PRIORITY 2	12	1,643	1.09	1.17	PRIORITY CHANGED	15	$ 375	$ 617,000	20%	$ 124,000	$ 493,000	100%	$ 617,000
2	R2S	670	APPR FULL	PRIORITY 4	12	767	0.93	0.93	PRIORITY CHANGED	15	$ 375	$ 288,000	0%	$ -	$ 288,000	100%	$ 288,000
2	R2T	117	APPR FULL	PRIORITY 3	12	1,204	1.03	0.99	PRIORITY CHANGED	15	$ 375	$ 452,000	0%	$ -	$ 452,000	100%	$ 452,000
2	R2T	127	APPR FULL	PRIORITY 2	12	1,354	1.03	0.99	PRIORITY CHANGED	15	$ 375	$ 508,000	0%	$ -	$ 508,000	100%	$ 508,000
2	R2U	110	APPR FULL	PRIORITY 4	24	34	4.35	4.09	PRIORITY CHANGED	27	$ 675	$ 23,000	0%	$ -	$ 23,000	100%	$ 23,000
2	R2U	120	PRIORITY 3	PRIORITY 3	12	1,366	0.88	1.33	NO CHANGE	15	$ 375	$ 513,000	20%	$ 103,000	$ -	20%	$ 103,000
2	R2V	96	PRIORITY 4	PRIORITY 4	15	150	1.60	1.98	NO CHANGE	18	$ 450	$ 68,000	5%	$ 4,000	$ -	5%	$ 4,000
2	R2V	97	PRIORITY 4	PRIORITY 4	15	607	1.62	2.27	NO CHANGE	18	$ 450	$ 274,000	5%	$ 14,000	$ -	5%	$ 14,000
2	R2W	87	PRIORITY 4	PRIORITY 4	33	1,159	7.66	7.88	NO CHANGE	36	$ 900	$ 1,044,000	5%	$ 53,000	$ -	5%	$ 53,000
2	R2X	65	PRIORITY 3	PRIORITY 3	12	707	1.07	1.16	NO CHANGE	15	$ 375	$ 266,000	20%	$ 54,000	$ -	20%	$ 54,000
2	R2Y	83	PRIORITY 3	PRIORITY 3	15	1,041	1.54	2.00	NO CHANGE	18	$ 450	$ 469,000	20%	$ 94,000	$ -	20%	$ 94,000
2	R2Z	958	PRIORITY 4	PRIORITY 4	36	1,698	4.32	10.18	NO CHANGE	54	$ 1,350	$ 2,293,000	5%	$ 115,000	$ -	5%	$ 115,000
3	R3L	273	PRIORITY 3	PRIORITY 1	24	853	2.79	3.46	PRIORITY CHANGED	33	$ 825	$ 704,000	20%	$ 141,000	$ 563,000	100%	$ 704,000
3	R3A	301	PRIORITY 3	PRIORITY 1	12	964	0.61	1.13	PRIORITY CHANGED	21	$ 525	$ 507,000	20%	$ 102,000	$ 405,000	100%	$ 507,000
3	R3A	310	NO IMPRV	PRIORITY 1	12	1,792	0.86	0.71	PRIORITY CHANGED	15	$ 375	$ 672,000	0%	$ -	$ 672,000	100%	$ 672,000
3	R3A	780	NO IMPRV	PRIORITY 1	15	321	1.73	1.04	PRIORITY CHANGED	18	$ 450	$ 145,000	0%	$ -	$ 145,000	100%	$ 145,000
3	R3AA	1165	NO IMPRV	PRIORITY 4	48	353	29.30	12.82	PRIORITY CHANGED	54	$ 1,350	$ 477,000	0%	$ -	$ 477,000	100%	$ 477,000
3	R3AA	1166	NO IMPRV	PRIORITY 4	48	702	29.38	12.82	PRIORITY CHANGED	54	$ 1,350	$ 948,000	0%	$ -	$ 948,000	100%	$ 948,000
3	R3AA	1167	NO IMPRV	PRIORITY 4	48	255	29.71	12.80	PRIORITY CHANGED	54	$ 1,350	$ 345,000	0%	$ -	$ 345,000	100%	$ 345,000
3	R3AA	1168	NO IMPRV	PRIORITY 4	48	622	29.38	12.81	PRIORITY CHANGED	54	$ 1,350	$ 840,000	0%	$ -	$ 840,000	100%	$ 840,000
3	R3AA	1169	NO IMPRV	PRIORITY 4	48	931	29.41	12.82	PRIORITY CHANGED	54	$ 1,350	$ 1,257,000	0%	$ -	$ 1,257,000	100%	$ 1,257,000
3	R3AA	1170	NO IMPRV	PRIORITY 4	48	929	29.44	12.48	PRIORITY CHANGED	54	$ 1,350	$ 1,255,000	0%	$ -	$ 1,255,000	100%	$ 1,255,000
3	R3AA	1171	NO IMPRV	PRIORITY 4	48	813	29.37	12.49	PRIORITY CHANGED	54	$ 1,350	$ 1,098,000	0%	$ -	$ 1,098,000	100%	$ 1,098,000
3	R3AA	1182	NO IMPRV	PRIORITY 4	48	1,207	29.46	12.40	PRIORITY CHANGED	54	$ 1,350	$ 1,630,000	0%	$ -	$ 1,630,000	100%	$ 1,630,000
3	R3AA	1184	NO IMPRV	PRIORITY 4	48	1,192	29.40	12.18	PRIORITY CHANGED	54	$ 1,350	$ 1,610,000	0%	$ -	$ 1,610,000	100%	$ 1,610,000
3	R3AB	286	NO IMPRV	PRIORITY 2	12	824	1.08	0.86	PRIORITY CHANGED	15	$ 375	$ 309,000	0%	$ -	$ 309,000	100%	$ 309,000
3	R3AB	287	APPR FULL	PRIORITY 2	12	440	0.81	0.76	PRIORITY CHANGED	15	$ 375	$ 165,000	0%	$ -	$ 165,000	100%	$ 165,000
3	R3AB	357	NO IMPRV	PRIORITY 4	18	724	2.34	1.86	PRIORITY CHANGED	21	$ 525	$ 381,000	0%	$ -	$ 381,000	100%	$ 381,000
3	R3AB	378	NO IMPRV	PRIORITY 3	18	1,177	2.13	1.73	PRIORITY CHANGED	21	$ 525	$ 618,000	0%	$ -	$ 618,000	100%	$ 618,000
3	R3AB	2655	NO IMPRV	PRIORITY 2	12	511	1.03	0.75	PRIORITY CHANGED	15	$ 375	$ 192,000	0%	$ -	$ 192,000	100%	$ 192,000
3	R3AC	330	PRIORITY 4	PRIORITY 4	12	398	0.83	0.89	NO CHANGE	15	$ 375	$ 150,000	5%	$ 8,000	$ -	5%	$ 8,000
3	R3AC	331	PRIORITY 4	PRIORITY 3	12	307	0.78	0.89	PRIORITY CHANGED	18	$ 450	$ 139,000	5%	$ 7,000	$ 132,000	100%	$ 139,000
3	R3AC	582	NO IMPRV	PRIORITY 2	12	1,304	1.19	0.88	PRIORITY CHANGED	15	$ 375	$ 489,000	0%	$ -	$ 489,000	100%	$ 489,000
3	R3AD	2657	NO IMPRV	PRIORITY 4	12	1,299	0.98	0.78	PRIORITY CHANGED	15	$ 375	$ 488,000	0%	$ -	$ 488,000	100%	$ 488,000
3	R3B	298	PRIORITY 4	PRIORITY 3	18	1,145	1.35	1.56	PRIORITY CHANGED	24	$ 600	$ 687,000	5%	$ 35,000	$ 652,000	100%	$ 687,000
3	R3C	272	PRIORITY 1	PRIORITY 1	30	289	12.21	25.38	NO CHANGE	42	$ 1,050	$ 304,000	75%	$ 228,000	$ -	75%	$ 228,000
3	R3C	276	PRIORITY 2	PRIORITY 1	36	1,086	20.93	26.12	PRIORITY CHANGED	42	$ 1,050	$ 1,141,000	50%	$ 571,000	$ 570,000	100%	$ 1,141,000
3	R3C	300	PRIORITY 3	PRIORITY 3	42	2,287	14.36	27.09	NO CHANGE	60	$ 1,500	$ 3,431,000	20%	$ 687,000	$ -	20%	$ 687,000
3	R3C	731	PRIORITY 3	PRIORITY 2	42	1,815	19.35	26.13	PRIORITY CHANGED	48	$ 1,200	$ 2,178,000	20%	$ 436,000	$ 1,742,000	100%	$ 2,178,000
3	R3D	583	PRIORITY 4	PRIORITY 4	42	1,179	21.81	27.40	NO CHANGE	48	$ 1,200	$ 1,415,000	5%	$ 71,000	$ -	5%	$ 71,000
3	R3D	1163	NO IMPRV	PRIORITY 4	48	48	30.03	12.85	PRIORITY CHANGED	54	$ 1,350	$ 65,000	0%	$ -	$ 65,000	100%	$ 65,000
3	R3D	1164	NO IMPRV	PRIORITY 4	48	109	29.56	12.80	PRIORITY CHANGED	54	$ 1,350	$ 148,000	0%	$ -	$ 148,000	100%	$ 148,000
3	R3E	375	PRIORITY 4	PRIORITY 3	18	769	0.69	1.18	PRIORITY CHANGED	27	$ 675	$ 520,000	5%	$ 26,000	$ 494,000	100%	$ 520,000
3	R3F	311	PRIORITY 4	PRIORITY 4	20	242	4.22	4.30	NO CHANGE	24	$ 600	$ 146,000	5%	$ 8,000	$ -	5%	$ 8,000
3	R3F	985	PRIORITY 4	PRIORITY 3	24	818	3.47	4.29	PRIORITY CHANGED	30	$ 750	$ 614,000	5%	$ 31,000	$ 583,000	100%	$ 614,000
3	R3G	303	PRIORITY 3	PRIORITY 1	16	2,286	0.52	2.42	PRIORITY CHANGED	33	$ 825	$ 1,886,000	20%	$ 378,000	$ 1,508,000	100%	$ 1,886,000
3	R3H	283	PRIORITY 2	PRIORITY 1	12	1,614	0.50	0.88	PRIORITY CHANGED	18	$ 450	$ 727,000	50%	$ 364,000	$ 363,000	100%	$ 727,000
3	R3H	289	PRIORITY 2	PRIORITY 1	16	1,293	1.64	2.26	PRIORITY CHANGED	21	$ 525	$ 679,000	50%	$ 340,000	$ 339,000	100%	$ 679,000
3	R3H	294	APPR FULL	PRIORITY 1	16	2,284	2.54	2.42	PRIORITY CHANGED	18	$ 450	$ 1,028,000	0%	$ -	$ 1,028,000	100%	$ 1,028,000
3	R3H	302	PRIORITY 3	PRIORITY 1	14	54	1.16	2.42	PRIORITY CHANGED	21	$ 525	$ 29,000	20%	$ 6,000	$ 23,000	100%	$ 29,000
3	R3I	268	PRIORITY 1	PRIORITY 1	12	750	0.55	0.77	NO CHANGE	15	$ 375	$ 282,000	75%	$ 212,000	$ -	75%	$ 212,000

Table F2 - Buildout Conditions - Base Cost Calculations for Existing Gravity Sewers

			Improvement Priority										Existing Conditions			Buildout Conditions	
System	Improvement ID	G_ID	Existing Conditions	Buildout Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Change in Priority from Existing to Buildout	Replacement Design Diameter, inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget	Future Growth Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
1	R1A	16	PRIORITY 4	PRIORITY 4	12	450	1.00	1.28	NO CHANGE	15	$ 375	$ 169,000	5%	$ 9,000	$ -	5%	$ 9,000
3	R3I	275	PRIORITY 1	PRIORITY 1	12	1,177	0.66	0.77	NO CHANGE	15	$ 375	$ 442,000	75%	$ 332,000	$ -	75%	$ 332,000
3	R3I	278	PRIORITY 1	PRIORITY 1	12	1,124	0.80	1.23	NO CHANGE	18	$ 450	$ 506,000	75%	$ 380,000	$ -	75%	$ 380,000
3	R3J	288	PRIORITY 4	PRIORITY 3	24	809	3.05	6.13	PRIORITY CHANGED	42	$ 1,050	$ 850,000	5%	$ 43,000	$ 807,000	100%	$ 850,000
3	R3J	730	PRIORITY 4	PRIORITY 2	24	978	5.98	6.13	PRIORITY CHANGED	30	$ 750	$ 734,000	5%	$ 37,000	$ 697,000	100%	$ 734,000
3	R3J	1183	NO IMPRV	PRIORITY 4	48	89	29.59	12.18	PRIORITY CHANGED	54	$ 1,350	$ 121,000	0%	$ -	$ 121,000	100%	$ 121,000
3	R3K	274	PRIORITY 3	PRIORITY 1	24	2,563	1.96	3.89	PRIORITY CHANGED	42	$ 1,050	$ 2,692,000	20%	$ 539,000	$ 2,153,000	100%	$ 2,692,000
3	R3L	258	APPR FULL	PRIORITY 1	24	1,582	3.34	3.23	PRIORITY CHANGED	30	$ 750	$ 1,187,000	0%	$ -	$ 1,187,000	100%	$ 1,187,000
3	R3L	269	PRIORITY 4	PRIORITY 1	24	920	3.38	3.46	PRIORITY CHANGED	30	$ 750	$ 690,000	5%	$ 35,000	$ 655,000	100%	$ 690,000
3	R3L	686	NO IMPRV	PRIORITY 1	24	1,165	2.91	2.59	PRIORITY CHANGED	30	$ 750	$ 874,000	0%	$ -	$ 874,000	100%	$ 874,000
3	R3M	246	NO IMPRV	PRIORITY 1	15	3,540	1.67	1.41	PRIORITY CHANGED	21	$ 525	$ 1,859,000	0%	$ -	$ 1,859,000	100%	$ 1,859,000
3	R3N	266	NO IMPRV	PRIORITY 1	12	2,424	0.92	0.62	PRIORITY CHANGED	15	$ 375	$ 909,000	0%	$ -	$ 909,000	100%	$ 909,000
3	R3N	1086	NO IMPRV	PRIORITY 1	12	1,041	0.92	0.62	PRIORITY CHANGED	15	$ 375	$ 391,000	0%	$ -	$ 391,000	100%	$ 391,000
3	R3O	242	PRIORITY 1	PRIORITY 1	12	1,365	1.04	1.10	NO CHANGE	15	$ 375	$ 512,000	75%	$ 384,000	$ -	75%	$ 384,000
3	R3P	256	PRIORITY 3	PRIORITY 1	12	377	0.69	1.99	PRIORITY CHANGED	21	$ 525	$ 198,000	20%	$ 40,000	$ 158,000	100%	$ 198,000
3	R3P	263	PRIORITY 4	PRIORITY 1	14	635	0.99	1.99	PRIORITY CHANGED	21	$ 525	$ 334,000	5%	$ 17,000	$ 317,000	100%	$ 334,000
3	R3P	979	PRIORITY 2	PRIORITY 1	18	1,727	1.49	1.98	PRIORITY CHANGED	24	$ 600	$ 1,037,000	50%	$ 519,000	$ 518,000	100%	$ 1,037,000
3	R3Q	293	PRIORITY 2	PRIORITY 1	12	771	0.34	0.48	PRIORITY CHANGED	15	$ 375	$ 290,000	50%	$ 145,000	$ 145,000	100%	$ 290,000
3	R3Q	295	PRIORITY 2	PRIORITY 1	12	765	0.49	0.87	PRIORITY CHANGED	18	$ 450	$ 345,000	50%	$ 173,000	$ 172,000	100%	$ 345,000
3	R3R	987	PRIORITY 2	PRIORITY 1	12	1,801	0.64	0.87	PRIORITY CHANGED	18	$ 450	$ 811,000	50%	$ 406,000	$ 405,000	100%	$ 811,000
3	R3R	988	PRIORITY 3	PRIORITY 1	12	1,459	0.59	1.22	PRIORITY CHANGED	21	$ 525	$ 766,000	20%	$ 154,000	$ 612,000	100%	$ 766,000
3	R3S	352	NO IMPRV	PRIORITY 1	21	1,880	2.91	1.53	PRIORITY CHANGED	24	$ 600	$ 1,128,000	0%	$ -	$ 1,128,000	100%	$ 1,128,000
3	R3S	358	APPR FULL	PRIORITY 1	21	2,673	3.59	3.41	PRIORITY CHANGED	27	$ 675	$ 1,805,000	0%	$ -	$ 1,805,000	100%	$ 1,805,000
3	R3S	364	APPR FULL	PRIORITY 3	24	1,125	2.47	2.41	PRIORITY CHANGED	27	$ 675	$ 760,000	0%	$ -	$ 760,000	100%	$ 760,000
3	R3S	368	PRIORITY 4	PRIORITY 3	24	1,188	1.75	2.25	PRIORITY CHANGED	30	$ 750	$ 891,000	5%	$ 45,000	$ 846,000	100%	$ 891,000
3	R3S	989	NO IMPRV	PRIORITY 1	21	1,145	2.63	2.35	PRIORITY CHANGED	27	$ 675	$ 773,000	0%	$ -	$ 773,000	100%	$ 773,000
3	R3T	847	APPR FULL	PRIORITY 1	12	1,111	0.92	0.90	PRIORITY CHANGED	15	$ 375	$ 417,000	0%	$ -	$ 417,000	100%	$ 417,000
3	R3U	345	PRIORITY 4	PRIORITY 3	16	204	0.92	0.99	PRIORITY CHANGED	27	$ 675	$ 138,000	5%	$ 7,000	$ 131,000	100%	$ 138,000
3	R3U	346	APPR FULL	PRIORITY 3	16	25	0.99	0.97	PRIORITY CHANGED	27	$ 675	$ 17,000	0%	$ -	$ 17,000	100%	$ 17,000
3	R3U	348	NO IMPRV	PRIORITY 2	30	132	5.17	1.50	PRIORITY CHANGED	33	$ 825	$ 109,000	0%	$ -	$ 109,000	100%	$ 109,000
3	R3U	349	NO IMPRV	PRIORITY 1	16	1,538	0.95	0.73	PRIORITY CHANGED	21	$ 525	$ 808,000	0%	$ -	$ 808,000	100%	$ 808,000
3	R3U	766	NO IMPRV	PRIORITY 2	27	29	3.73	1.49	PRIORITY CHANGED	33	$ 825	$ 24,000	0%	$ -	$ 24,000	100%	$ 24,000
3	R3W	980	NO IMPRV	PRIORITY 1	12	2,590	1.12	0.86	PRIORITY CHANGED	15	$ 375	$ 972,000	0%	$ -	$ 972,000	100%	$ 972,000
3	R3X	336	PRIORITY 3	PRIORITY 1	12	727	0.91	0.96	PRIORITY CHANGED	15	$ 375	$ 273,000	20%	$ 55,000	$ 218,000	100%	$ 273,000
3	R3Z	279	NO IMPRV	PRIORITY 1	12	2,898	0.78	0.65	PRIORITY CHANGED	15	$ 375	$ 1,087,000	0%	$ -	$ 1,087,000	100%	$ 1,087,000
3	R5H	379	PRIORITY 1	PRIORITY 1	12	314	0.83	2.74	NO CHANGE	24	$ 600	$ 189,000	75%	$ 142,000	$ -	75%	$ 142,000
3	R5H	1215	PRIORITY 1	PRIORITY 1	12	406	0.38	2.72	NO CHANGE	33	$ 825	$ 335,000	75%	$ 252,000	$ -	75%	$ 252,000
3	R5K	891	PRIORITY 1	PRIORITY 1	30	1,103	3.30	25.66	NO CHANGE	72	$ 1,800	$ 1,986,000	75%	$ 1,490,000	$ -	75%	$ 1,490,000
3	R5M	886	PRIORITY 4	PRIORITY 3	36	331	18.24	25.00	PRIORITY CHANGED	48	$ 1,200	$ 398,000	5%	$ 20,000	$ 378,000	100%	$ 398,000
3	R5M	890	PRIORITY 2	PRIORITY 1	36	2,626	22.05	25.11	PRIORITY CHANGED	42	$ 1,050	$ 2,758,000	50%	$ 1,379,000	$ 1,379,000	100%	$ 2,758,000
4	R6G	408	PRIORITY 3	PRIORITY 2	18	1,733	2.85	3.19	PRIORITY CHANGED	21	$ 525	$ 910,000	20%	$ 182,000	$ 728,000	100%	$ 910,000
4	R6H	360	APPR FULL	PRIORITY 1	18	3,313	2.72	2.68	PRIORITY CHANGED	21	$ 525	$ 1,740,000	0%	$ -	$ 1,740,000	100%	$ 1,740,000
4	R4A	271	PRIORITY 4	PRIORITY 4	12	2,034	1.00	1.13	NO CHANGE	15	$ 375	$ 763,000	5%	$ 39,000	$ -	5%	$ 39,000
4	R4A	281	PRIORITY 4	PRIORITY 4	12	97	0.41	1.58	NO CHANGE	24	$ 600	$ 59,000	5%	$ 3,000	$ -	5%	$ 3,000
4	R4A	282	PRIORITY 4	PRIORITY 4	15	1,441	1.72	2.32	NO CHANGE	18	$ 450	$ 649,000	5%	$ 33,000	$ -	5%	$ 33,000
4	R4B	1073	APPR FULL	PRIORITY 4	12	2,243	1.11	1.01	PRIORITY CHANGED	15	$ 375	$ 842,000	0%	$ -	$ 842,000	100%	$ 842,000
4	R4C	943	PRIORITY 4	PRIORITY 4	12	540	1.12	1.38	NO CHANGE	15	$ 375	$ 203,000	5%	$ 11,000	$ -	5%	$ 11,000
4	R4D	843	PRIORITY 4	PRIORITY 4	18	765	2.35	2.69	NO CHANGE	21	$ 525	$ 402,000	5%	$ 21,000	$ -	5%	$ 21,000
4	R4F	315	APPR FULL	PRIORITY 4	12	2,094	0.92	0.87	PRIORITY CHANGED	15	$ 375	$ 786,000	0%	$ -	$ 786,000	100%	$ 786,000
4	R4F	353	NO IMPRV	PRIORITY 4	12	1,811	1.01	0.87	PRIORITY CHANGED	15	$ 375	$ 680,000	0%	$ -	$ 680,000	100%	$ 680,000
4	R4G	380	PRIORITY 4	PRIORITY 4	18	766	2.43	3.17	NO CHANGE	21	$ 525	$ 403,000	5%	$ 21,000	$ -	5%	$ 21,000
4	R4H	312	PRIORITY 4	PRIORITY 3	15	1,093	0.80	0.81	PRIORITY CHANGED	18	$ 450	$ 492,000	5%	$ 25,000	$ 467,000	100%	$ 492,000
4	R5B	448	NO IMPRV	PRIORITY 1	27	1,268	4.61	3.74	PRIORITY CHANGED	30	$ 750	$ 951,000	0%	$ -	$ 951,000	100%	$ 951,000
4	R5B	453	PRIORITY 2	PRIORITY 1	27	1,191	2.01	3.75	PRIORITY CHANGED	42	$ 1,050	$ 1,251,000	50%	$ 626,000	$ 625,000	100%	$ 1,251,000
4	R5B	1001	PRIORITY 4	PRIORITY 1	27	3,879	3.60	6.55	PRIORITY CHANGED	42	$ 1,050	$ 4,073,000	5%	$ 204,000	$ 3,869,000	100%	$ 4,073,000
4	R6A	851	PRIORITY 1	PRIORITY 1	18	3,602	2.68	3.15	NO CHANGE	21	$ 525	$ 1,892,000	75%	$ 1,419,000	$ -	75%	$ 1,419,000

Table F2 - Buildout Conditions - Base Cost Calculations for Existing Gravity Sewers

			Improvement Priority										Existing Conditions			Buildout Conditions	
System	Improvement ID	G_ID	Existing Conditions	Buildout Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Change in Priority from Existing to Buildout	Replacement Design Diameter, inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget	Future Growth Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
1	R1A	16	PRIORITY 4	PRIORITY 4	12	450	1.00	1.28	NO CHANGE	15	$ 375	$ 169,000	5%	$ 9,000	$ -	5%	$ 9,000
4	R6F	401	PRIORITY 3	PRIORITY 2	18	2,071	2.68	3.18	PRIORITY CHANGED	21	$ 525	$ 1,088,000	20%	$ 218,000	$ 870,000	100%	$ 1,088,000
4	R6J	421	PRIORITY 4	PRIORITY 3	27	719	4.03	4.07	PRIORITY CHANGED	30	$ 750	$ 540,000	5%	$ 27,000	$ 513,000	100%	$ 540,000
4	R6K	1211	APPR FULL	PRIORITY 3	27	1,933	4.47	4.12	PRIORITY CHANGED	30	$ 750	$ 1,450,000	0%	$ -	$ 1,450,000	100%	$ 1,450,000
5	R5A	778	PRIORITY 2	PRIORITY 1	36	2,805	16.27	18.08	PRIORITY CHANGED	48	$ 1,200	$ 3,366,000	50%	$ 1,683,000	$ 1,683,000	100%	$ 3,366,000
5	R5C	436	NO IMPRV	PRIORITY 1	12	883	0.88	0.49	PRIORITY CHANGED	18	$ 450	$ 398,000	0%	$ -	$ 398,000	100%	$ 398,000
5	R5C	439	NO IMPRV	PRIORITY 1	12	802	0.97	0.49	PRIORITY CHANGED	18	$ 450	$ 361,000	0%	$ -	$ 361,000	100%	$ 361,000
5	R5D	467	PRIORITY 4	PRIORITY 4	24	723	3.08	3.22	NO CHANGE	30	$ 750	$ 543,000	5%	$ 28,000	$ -	5%	$ 28,000
5	R5E	764	PRIORITY 3	PRIORITY 1	12	985	1.26	1.92	PRIORITY CHANGED	18	$ 450	$ 444,000	20%	$ 89,000	$ 355,000	100%	$ 444,000
5	R5F	410	PRIORITY 4	PRIORITY 3	15	373	0.42	0.45	PRIORITY CHANGED	18	$ 450	$ 168,000	5%	$ 9,000	$ 159,000	100%	$ 168,000
5	R5G	413	APPR FULL	PRIORITY 1	18	770	3.39	3.10	PRIORITY CHANGED	21	$ 525	$ 405,000	0%	$ -	$ 405,000	100%	$ 405,000
5	R5G	414	PRIORITY 3	PRIORITY 1	18	385	2.55	3.08	PRIORITY CHANGED	24	$ 600	$ 231,000	20%	$ 47,000	$ 184,000	100%	$ 231,000
5	R5G	853	PRIORITY 3	PRIORITY 1	16	1,165	1.49	3.14	PRIORITY CHANGED	27	$ 675	$ 787,000	20%	$ 158,000	$ 629,000	100%	$ 787,000
5	R5H	386	PRIORITY 1	PRIORITY 1	12	388	0.44	2.73	NO CHANGE	30	$ 750	$ 291,000	75%	$ 219,000	$ -	75%	$ 219,000
5	R5H	392	PRIORITY 1	PRIORITY 1	18	390	1.50	2.83	NO CHANGE	30	$ 750	$ 293,000	75%	$ 220,000	$ -	75%	$ 220,000
5	R5H	397	PRIORITY 1	PRIORITY 1	12	349	0.81	2.90	NO CHANGE	27	$ 675	$ 236,000	75%	$ 177,000	$ -	75%	$ 177,000
5	R5H	993	PRIORITY 1	PRIORITY 1	12	386	0.94	2.89	NO CHANGE	24	$ 600	$ 232,000	75%	$ 174,000	$ -	75%	$ 174,000
5	R5J	893	PRIORITY 2	PRIORITY 2	15	1,077	0.71	2.27	NO CHANGE	24	$ 600	$ 647,000	50%	$ 324,000	$ -	50%	$ 324,000
5	R5O	1209	PRIORITY 4	PRIORITY 4	12	266	0.47	1.77	NO CHANGE	21	$ 525	$ 140,000	5%	$ 7,000	$ -	5%	$ 7,000
6	R3V	354	NO IMPRV	PRIORITY 2	30	1,711	5.22	1.50	PRIORITY CHANGED	33	$ 825	$ 1,412,000	0%	$ -	$ 1,412,000	100%	$ 1,412,000
6	R6L	450	PRIORITY 4	PRIORITY 3	12	1,090	0.52	0.52	PRIORITY CHANGED	15	$ 375	$ 409,000	5%	$ 21,000	$ 388,000	100%	$ 409,000
6	R6Q	1088	NO IMPRV	PRIORITY 2	16	1,408	1.84	1.31	PRIORITY CHANGED	21	$ 525	$ 740,000	0%	$ -	$ 740,000	100%	$ 740,000
6	R3U	343	NO IMPRV	PRIORITY 2	24	28	2.77	0.63	PRIORITY CHANGED	30	$ 750	$ 21,000	0%	$ -	$ 21,000	100%	$ 21,000
6	R5I	403	PRIORITY 4	PRIORITY 3	12	395	0.26	0.54	PRIORITY CHANGED	18	$ 450	$ 178,000	5%	$ 9,000	$ 169,000	100%	$ 178,000
6	R5L	478	NO IMPRV	PRIORITY 4	48	2,206	14.42	12.70	PRIORITY CHANGED	60	$ 1,500	$ 3,309,000	0%	$ -	$ 3,309,000	100%	$ 3,309,000
6	R6A	304	NO IMPRV	PRIORITY 1	18	424	3.95	0.63	PRIORITY CHANGED	21	$ 525	$ 223,000	0%	$ -	$ 223,000	100%	$ 223,000
6	R6AA	324	APPR FULL	PRIORITY 2	15	336	1.07	0.99	PRIORITY CHANGED	18	$ 450	$ 152,000	0%	$ -	$ 152,000	100%	$ 152,000
6	R6AA	325	PRIORITY 4	PRIORITY 2	16	1,054	1.26	1.50	PRIORITY CHANGED	18	$ 450	$ 475,000	5%	$ 24,000	$ 451,000	100%	$ 475,000
6	R6D	451	NO IMPRV	PRIORITY 2	12	946	1.03	0.83	PRIORITY CHANGED	15	$ 375	$ 355,000	0%	$ -	$ 355,000	100%	$ 355,000
6	R6D	462	NO IMPRV	PRIORITY 2	12	1,426	1.00	0.83	PRIORITY CHANGED	15	$ 375	$ 535,000	0%	$ -	$ 535,000	100%	$ 535,000
6	R6E	394	PRIORITY 4	PRIORITY 2	12	1,771	0.87	1.16	PRIORITY CHANGED	15	$ 375	$ 665,000	5%	$ 34,000	$ 631,000	100%	$ 665,000
6	R6E	395	PRIORITY 3	PRIORITY 1	12	1,794	0.67	0.87	PRIORITY CHANGED	15	$ 375	$ 673,000	20%	$ 135,000	$ 538,000	100%	$ 673,000
6	R6E	852	PRIORITY 4	PRIORITY 2	12	85	0.61	0.87	PRIORITY CHANGED	15	$ 375	$ 32,000	5%	$ 2,000	$ 30,000	100%	$ 32,000
6	R6M	441	NO IMPRV	PRIORITY 3	36	2,915	15.10	6.96	PRIORITY CHANGED	42	$ 1,050	$ 3,061,000	0%	$ -	$ 3,061,000	100%	$ 3,061,000
6	R6M	855	NO IMPRV	PRIORITY 3	36	1,318	13.88	6.97	PRIORITY CHANGED	42	$ 1,050	$ 1,384,000	0%	$ -	$ 1,384,000	100%	$ 1,384,000
6	R6M	862	NO IMPRV	PRIORITY 3	36	2,312	8.38	6.97	PRIORITY CHANGED	48	$ 1,200	$ 2,775,000	0%	$ -	$ 2,775,000	100%	$ 2,775,000
6	R6N	442	NO IMPRV	PRIORITY 1	24	3,588	4.73	2.27	PRIORITY CHANGED	27	$ 675	$ 2,422,000	0%	$ -	$ 2,422,000	100%	$ 2,422,000
6	R6N	444	NO IMPRV	PRIORITY 2	24	1,249	5.91	2.64	PRIORITY CHANGED	27	$ 675	$ 844,000	0%	$ -	$ 844,000	100%	$ 844,000
6	R6P	1089	PRIORITY 4	PRIORITY 1	12	1,356	0.71	0.72	PRIORITY CHANGED	21	$ 525	$ 712,000	5%	$ 36,000	$ 676,000	100%	$ 712,000
6	R6P	1090	NO IMPRV	PRIORITY 1	12	1,632	0.82	0.72	PRIORITY CHANGED	18	$ 450	$ 735,000	0%	$ -	$ 735,000	100%	$ 735,000
6	R6Q	482	APPR FULL	PRIORITY 3	16	1,424	1.53	1.52	PRIORITY CHANGED	21	$ 525	$ 748,000	0%	$ -	$ 748,000	100%	$ 748,000
6	R6R	819	APPR FULL	PRIORITY 2	12	701	0.81	0.77	PRIORITY CHANGED	15	$ 375	$ 263,000	0%	$ -	$ 263,000	100%	$ 263,000
6	R6S	486	PRIORITY 4	PRIORITY 3	12	2,138	0.23	0.58	PRIORITY CHANGED	21	$ 525	$ 1,123,000	5%	$ 57,000	$ 1,066,000	100%	$ 1,123,000
6	R6V	1006	NO IMPRV	PRIORITY 4	72	841	50.05	28.41	PRIORITY CHANGED	78	$ 1,950	$ 1,640,000	0%	$ -	$ 1,640,000	100%	$ 1,640,000
6	R6V	1018	NO IMPRV	PRIORITY 4	72	56	51.84	28.21	PRIORITY CHANGED	78	$ 1,950	$ 110,000	0%	$ -	$ 110,000	100%	$ 110,000
7	R7A	550	NO IMPRV	PRIORITY 3	30	664	7.29	4.50	PRIORITY CHANGED	42	$ 1,050	$ 698,000	0%	$ -	$ 698,000	100%	$ 698,000
7	R7A	553	NO IMPRV	PRIORITY 2	30	368	6.19	4.52	PRIORITY CHANGED	42	$ 1,050	$ 387,000	0%	$ -	$ 387,000	100%	$ 387,000
7	R7A	554	NO IMPRV	PRIORITY 2	30	59	10.94	4.50	PRIORITY CHANGED	36	$ 900	$ 54,000	0%	$ -	$ 54,000	100%	$ 54,000
7	R7A	556	NO IMPRV	PRIORITY 3	30	492	6.22	4.52	PRIORITY CHANGED	42	$ 1,050	$ 517,000	0%	$ -	$ 517,000	100%	$ 517,000
7	R7A	563	PRIORITY 4	PRIORITY 2	30	150	2.66	4.40	PRIORITY CHANGED	60	$ 1,500	$ 225,000	5%	$ 12,000	$ 213,000	100%	$ 225,000
7	R7A	565	NO IMPRV	PRIORITY 2	30	308	7.42	3.17	PRIORITY CHANGED	42	$ 1,050	$ 324,000	0%	$ -	$ 324,000	100%	$ 324,000
7	R7A	1047	NO IMPRV	PRIORITY 3	30	585	8.79	4.50	PRIORITY CHANGED	42	$ 1,050	$ 615,000	0%	$ -	$ 615,000	100%	$ 615,000
7	R7A	1049	NO IMPRV	PRIORITY 4	30	619	7.77	4.50	PRIORITY CHANGED	42	$ 1,050	$ 650,000	0%	$ -	$ 650,000	100%	$ 650,000
7	R7B	1045	NO IMPRV	PRIORITY 4	48	422	15.69	4.85	PRIORITY CHANGED	54	$ 1,350	$ 570,000	0%	$ -	$ 570,000	100%	$ 570,000
7	R7B	1050	NO IMPRV	PRIORITY 4	42	876	11.23	4.90	PRIORITY CHANGED	54	$ 1,350	$ 1,183,000	0%	$ -	$ 1,183,000	100%	$ 1,183,000
7	R7C	1043	NO IMPRV	PRIORITY 4	42	316	13.72	5.04	PRIORITY CHANGED	48	$ 1,200	$ 380,000	0%	$ -	$ 380,000	100%	$ 380,000

Table F2 - Buildout Conditions - Base Cost Calculations for Existing Gravity Sewers

			Improvement Priority										Existing Conditions			Buildout Conditions	
System	Improvement ID	G_ID	Existing Conditions	Buildout Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Change in Priority from Existing to Buildout	Replacement Design Diameter, inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget	Future Growth Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
1	R1A	16	PRIORITY 4	PRIORITY 4	12	450	1.00	1.28	NO CHANGE	15	$ 375	$ 169,000	5%	$ 9,000	$ -	5%	$ 9,000
8	R8F	1085	NO IMPRV	PRIORITY 3	18	1,101	2.15	0.91	PRIORITY CHANGED	21	$ 525	$ 579,000	0%	$ -	$ 579,000	100%	$ 579,000
8	R8I	605	NO IMPRV	PRIORITY 4	48	1,235	20.68	2.57	PRIORITY CHANGED	54	$ 1,350	$ 1,668,000	0%	$ -	$ 1,668,000	100%	$ 1,668,000
8	R8P	654	NO IMPRV	PRIORITY 4	42	354	26.21	1.93	PRIORITY CHANGED	48	$ 1,200	$ 425,000	0%	$ -	$ 425,000	100%	$ 425,000
8	R7D	875	NO IMPRV	PRIORITY 4	72	460	52.74	7.19	PRIORITY CHANGED	78	$ 1,950	$ 897,000	0%	$ -	$ 897,000	100%	$ 897,000
8	R8A	925	NO IMPRV	PRIORITY 3	18	200	2.59	1.80	PRIORITY CHANGED	21	$ 525	$ 105,000	0%	$ -	$ 105,000	100%	$ 105,000
8	R8A	927	NO IMPRV	PRIORITY 3	18	382	2.53	1.80	PRIORITY CHANGED	21	$ 525	$ 201,000	0%	$ -	$ 201,000	100%	$ 201,000
8	R8A	928	NO IMPRV	PRIORITY 3	18	87	2.63	1.81	PRIORITY CHANGED	21	$ 525	$ 46,000	0%	$ -	$ 46,000	100%	$ 46,000
8	R8A	929	NO IMPRV	PRIORITY 3	18	443	2.55	1.81	PRIORITY CHANGED	21	$ 525	$ 233,000	0%	$ -	$ 233,000	100%	$ 233,000
8	R8A	930	NO IMPRV	PRIORITY 3	18	458	2.54	1.81	PRIORITY CHANGED	21	$ 525	$ 241,000	0%	$ -	$ 241,000	100%	$ 241,000
8	R8A	931	NO IMPRV	PRIORITY 3	18	450	2.55	1.81	PRIORITY CHANGED	21	$ 525	$ 237,000	0%	$ -	$ 237,000	100%	$ 237,000
8	R8A	932	NO IMPRV	PRIORITY 4	18	401	2.59	1.81	PRIORITY CHANGED	21	$ 525	$ 211,000	0%	$ -	$ 211,000	100%	$ 211,000
8	R8A	933	NO IMPRV	PRIORITY 4	18	450	2.57	1.81	PRIORITY CHANGED	21	$ 525	$ 237,000	0%	$ -	$ 237,000	100%	$ 237,000
8	R8A	934	NO IMPRV	PRIORITY 4	18	448	2.55	1.81	PRIORITY CHANGED	21	$ 525	$ 236,000	0%	$ -	$ 236,000	100%	$ 236,000
8	R8A	936	NO IMPRV	PRIORITY 4	18	391	2.51	1.81	PRIORITY CHANGED	21	$ 525	$ 206,000	0%	$ -	$ 206,000	100%	$ 206,000
8	R8B	558	NO IMPRV	PRIORITY 4	15	2,237	1.62	1.36	PRIORITY CHANGED	18	$ 450	$ 1,007,000	0%	$ -	$ 1,007,000	100%	$ 1,007,000
8	R8C	595	NO IMPRV	PRIORITY 3	72	250	54.86	7.35	PRIORITY CHANGED	78	$ 1,950	$ 488,000	0%	$ -	$ 488,000	100%	$ 488,000
8	R8C	871	NO IMPRV	PRIORITY 3	72	216	56.00	7.34	PRIORITY CHANGED	78	$ 1,950	$ 422,000	0%	$ -	$ 422,000	100%	$ 422,000
8	R8C	872	NO IMPRV	PRIORITY 3	72	281	54.28	7.35	PRIORITY CHANGED	78	$ 1,950	$ 548,000	0%	$ -	$ 548,000	100%	$ 548,000
8	R8C	873	NO IMPRV	PRIORITY 3	72	287	56.09	7.26	PRIORITY CHANGED	78	$ 1,950	$ 560,000	0%	$ -	$ 560,000	100%	$ 560,000
8	R8D	801	NO IMPRV	PRIORITY 4	48	536	23.43	4.78	PRIORITY CHANGED	54	$ 1,350	$ 724,000	0%	$ -	$ 724,000	100%	$ 724,000
8	R8E	599	NO IMPRV	PRIORITY 4	66	280	45.03	6.18	PRIORITY CHANGED	72	$ 1,800	$ 504,000	0%	$ -	$ 504,000	100%	$ 504,000
8	R8E	882	NO IMPRV	PRIORITY 4	66	428	43.35	6.16	PRIORITY CHANGED	72	$ 1,800	$ 771,000	0%	$ -	$ 771,000	100%	$ 771,000
8	R8F	2687	NO IMPRV	PRIORITY 1	12	1,749	0.90	0.43	PRIORITY CHANGED	15	$ 375	$ 656,000	0%	$ -	$ 656,000	100%	$ 656,000
8	R8G	578	NO IMPRV	PRIORITY 4	27	344	4.84	2.87	PRIORITY CHANGED	30	$ 750	$ 258,000	0%	$ -	$ 258,000	100%	$ 258,000
8	R8G	579	NO IMPRV	PRIORITY 4	27	567	4.91	2.87	PRIORITY CHANGED	30	$ 750	$ 426,000	0%	$ -	$ 426,000	100%	$ 426,000
8	R8G	920	NO IMPRV	PRIORITY 4	27	688	5.01	2.70	PRIORITY CHANGED	30	$ 750	$ 516,000	0%	$ -	$ 516,000	100%	$ 516,000
8	R8G	937	APPR FULL	PRIORITY 4	24	410	2.05	1.94	PRIORITY CHANGED	30	$ 750	$ 308,000	0%	$ -	$ 308,000	100%	$ 308,000
8	R8G	938	NO IMPRV	PRIORITY 4	24	233	3.59	2.48	PRIORITY CHANGED	27	$ 675	$ 158,000	0%	$ -	$ 158,000	100%	$ 158,000
8	R8G	1098	PRIORITY 4	PRIORITY 4	27	1,845	2.01	3.22	NO CHANGE	48	$ 1,200	$ 2,214,000	5%	$ 111,000	$ -	5%	$ 111,000
8	R8G	1099	NO IMPRV	PRIORITY 4	27	193	5.40	2.86	PRIORITY CHANGED	30	$ 750	$ 145,000	0%	$ -	$ 145,000	100%	$ 145,000
8	R8H	808	PRIORITY 4	PRIORITY 4	15	296	0.42	1.06	NO CHANGE	21	$ 525	$ 156,000	5%	$ 8,000	$ -	5%	$ 8,000
8	R8I	2632	NO IMPRV	PRIORITY 4	48	1,716	20.95	0.00	PRIORITY CHANGED	54	$ 1,350	$ 2,317,000	0%	$ -	$ 2,317,000	100%	$ 2,317,000
8	R8J	3912	NO IMPRV	PRIORITY 2	8	411	0.28	0.55	PRIORITY CHANGED	12	$ 300	$ 124,000	0%	$ -	$ 124,000	100%	$ 124,000
8	R8M	557	APPR FULL	PRIORITY 2	15	299	1.64	1.60	PRIORITY CHANGED	18	$ 450	$ 135,000	0%	$ -	$ 135,000	100%	$ 135,000
8	R8M	559	PRIORITY 4	PRIORITY 3	15	335	1.55	1.60	PRIORITY CHANGED	18	$ 450	$ 151,000	5%	$ 8,000	$ 143,000	100%	$ 151,000
8	R8M	560	APPR FULL	PRIORITY 3	15	317	1.63	1.61	PRIORITY CHANGED	18	$ 450	$ 143,000	0%	$ -	$ 143,000	100%	$ 143,000
8	R8M	561	APPR FULL	PRIORITY 3	15	415	1.62	1.60	PRIORITY CHANGED	18	$ 450	$ 187,000	0%	$ -	$ 187,000	100%	$ 187,000
8	R8M	564	PRIORITY 4	PRIORITY 1	12	357	1.03	1.42	PRIORITY CHANGED	18	$ 450	$ 161,000	5%	$ 9,000	$ 152,000	100%	$ 161,000
8	R8M	567	PRIORITY 4	PRIORITY 1	12	355	1.03	1.42	PRIORITY CHANGED	18	$ 450	$ 160,000	5%	$ 8,000	$ 152,000	100%	$ 160,000
8	R8M	568	PRIORITY 4	PRIORITY 1	12	201	1.03	1.20	PRIORITY CHANGED	15	$ 375	$ 76,000	5%	$ 4,000	$ 72,000	100%	$ 76,000
8	R8M	569	PRIORITY 4	PRIORITY 1	12	412	1.04	1.19	PRIORITY CHANGED	15	$ 375	$ 155,000	5%	$ 8,000	$ 147,000	100%	$ 155,000
8	R8N	655	NO IMPRV	PRIORITY 4	18	305	2.37	1.93	PRIORITY CHANGED	21	$ 525	$ 161,000	0%	$ -	$ 161,000	100%	$ 161,000
8	R8N	656	NO IMPRV	PRIORITY 4	21	449	3.14	2.29	PRIORITY CHANGED	24	$ 600	$ 270,000	0%	$ -	$ 270,000	100%	$ 270,000
8	R8N	657	NO IMPRV	PRIORITY 4	21	499	3.15	2.29	PRIORITY CHANGED	24	$ 600	$ 300,000	0%	$ -	$ 300,000	100%	$ 300,000
8	R8N	658	NO IMPRV	PRIORITY 4	21	358	2.97	2.29	PRIORITY CHANGED	24	$ 600	$ 215,000	0%	$ -	$ 215,000	100%	$ 215,000
8	R8N	659	NO IMPRV	PRIORITY 4	21	678	3.15	1.93	PRIORITY CHANGED	24	$ 600	$ 407,000	0%	$ -	$ 407,000	100%	$ 407,000
8	R8N	660	NO IMPRV	PRIORITY 4	18	349	2.60	1.78	PRIORITY CHANGED	21	$ 525	$ 184,000	0%	$ -	$ 184,000	100%	$ 184,000
8	R8N	661	NO IMPRV	PRIORITY 4	18	343	2.35	1.78	PRIORITY CHANGED	21	$ 525	$ 181,000	0%	$ -	$ 181,000	100%	$ 181,000
8	R8N	662	NO IMPRV	PRIORITY 4	18	748	2.36	1.93	PRIORITY CHANGED	21	$ 525	$ 393,000	0%	$ -	$ 393,000	100%	$ 393,000
8	R8N	663	NO IMPRV	PRIORITY 4	18	306	2.33	1.93	PRIORITY CHANGED	21	$ 525	$ 161,000	0%	$ -	$ 161,000	100%	$ 161,000
8	R8N	664	NO IMPRV	PRIORITY 4	18	374	2.36	1.93	PRIORITY CHANGED	21	$ 525	$ 197,000	0%	$ -	$ 197,000	100%	$ 197,000
8	R8O	2674	NO IMPRV	PRIORITY 4	12	615	1.04	0.50	PRIORITY CHANGED	15	$ 375	$ 231,000	0%	$ -	$ 231,000	100%	$ 231,000
8	R8P	549	NO IMPRV	PRIORITY 4	42	274	22.27	1.31	PRIORITY CHANGED	48	$ 1,200	$ 329,000	0%	$ -	$ 329,000	100%	$ 329,000
8	R8P	551	NO IMPRV	PRIORITY 4	42	463	24.04	1.31	PRIORITY CHANGED	48	$ 1,200	$ 556,000	0%	$ -	$ 556,000	100%	$ 556,000
8	R8P	552	NO IMPRV	PRIORITY 4	42	396	23.62	1.31	PRIORITY CHANGED	48	$ 1,200	$ 476,000	0%	$ -	$ 476,000	100%	$ 476,000

Table F2 - Buildout Conditions - Base Cost Calculations for Existing Gravity Sewers

			Improvement Priority										Existing Conditions			Buildout Conditions	
System	Improvement ID	G_ID	Existing Conditions	Buildout Conditions	Size, inches	Length, feet	Full Pipe Capacity, mgd	Existing Design Flow, mgd	Change in Priority from Existing to Buildout	Replacement Design Diameter, inches	Unit Cost, $/ft	Base Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget	Future Growth Cost, $	Projected % of Facilites Requiring Remediation	Predicted Replacement Budget
1	R1A	16	PRIORITY 4	PRIORITY 4	12	450	1.00	1.28	NO CHANGE	15	$ 375	$ 169,000	5%	$ 9,000	$ -	5%	$ 9,000
8	R8P	629	NO IMPRV	PRIORITY 4	42	539	25.70	0.56	PRIORITY CHANGED	48	$ 1,200	$ 647,000	0%	$ -	$ 647,000	100%	$ 647,000
8	R8P	630	NO IMPRV	PRIORITY 4	42	537	25.74	0.56	PRIORITY CHANGED	48	$ 1,200	$ 645,000	0%	$ -	$ 645,000	100%	$ 645,000
8	R8P	645	NO IMPRV	PRIORITY 4	42	499	22.60	1.93	PRIORITY CHANGED	48	$ 1,200	$ 599,000	0%	$ -	$ 599,000	100%	$ 599,000
8	R8P	646	NO IMPRV	PRIORITY 4	42	382	22.61	1.93	PRIORITY CHANGED	48	$ 1,200	$ 459,000	0%	$ -	$ 459,000	100%	$ 459,000
8	R8P	647	NO IMPRV	PRIORITY 4	42	503	22.51	1.49	PRIORITY CHANGED	48	$ 1,200	$ 604,000	0%	$ -	$ 604,000	100%	$ 604,000
8	R8P	648	NO IMPRV	PRIORITY 4	42	515	22.24	1.49	PRIORITY CHANGED	48	$ 1,200	$ 618,000	0%	$ -	$ 618,000	100%	$ 618,000
8	R8P	649	NO IMPRV	PRIORITY 4	42	446	22.47	1.49	PRIORITY CHANGED	48	$ 1,200	$ 536,000	0%	$ -	$ 536,000	100%	$ 536,000
8	R8P	650	NO IMPRV	PRIORITY 4	42	548	22.27	1.31	PRIORITY CHANGED	48	$ 1,200	$ 658,000	0%	$ -	$ 658,000	100%	$ 658,000
8	R8P	651	NO IMPRV	PRIORITY 4	42	550	22.23	1.32	PRIORITY CHANGED	48	$ 1,200	$ 660,000	0%	$ -	$ 660,000	100%	$ 660,000
8	R8P	652	NO IMPRV	PRIORITY 4	42	332	26.40	1.32	PRIORITY CHANGED	48	$ 1,200	$ 399,000	0%	$ -	$ 399,000	100%	$ 399,000
8	R8P	653	NO IMPRV	PRIORITY 4	42	511	22.33	1.49	PRIORITY CHANGED	48	$ 1,200	$ 614,000	0%	$ -	$ 614,000	100%	$ 614,000
8	R8P	912	NO IMPRV	PRIORITY 4	42	600	24.76	1.31	PRIORITY CHANGED	48	$ 1,200	$ 720,000	0%	$ -	$ 720,000	100%	$ 720,000
8	R8P	913	NO IMPRV	PRIORITY 4	42	377	25.71	0.56	PRIORITY CHANGED	48	$ 1,200	$ 453,000	0%	$ -	$ 453,000	100%	$ 453,000
8	R8P	915	NO IMPRV	PRIORITY 4	42	458	25.70	0.56	PRIORITY CHANGED	48	$ 1,200	$ 550,000	0%	$ -	$ 550,000	100%	$ 550,000
8	R8P	916	NO IMPRV	PRIORITY 4	42	454	25.81	0.56	PRIORITY CHANGED	48	$ 1,200	$ 545,000	0%	$ -	$ 545,000	100%	$ 545,000
8	R8P	917	NO IMPRV	PRIORITY 4	42	241	25.30	0.56	PRIORITY CHANGED	48	$ 1,200	$ 290,000	0%	$ -	$ 290,000	100%	$ 290,000
8	R8P	918	NO IMPRV	PRIORITY 4	42	542	25.62	0.56	PRIORITY CHANGED	48	$ 1,200	$ 651,000	0%	$ -	$ 651,000	100%	$ 651,000
8	R8Q	609	APPR FULL	PRIORITY 3	12	336	0.50	0.50	PRIORITY CHANGED	15	$ 375	$ 126,000	0%	$ -	$ 126,000	100%	$ 126,000
8	R8S	3766	NO IMPRV	PRIORITY 3	12	444	0.86	0.52	PRIORITY CHANGED	15	$ 375	$ 167,000	0%	$ -	$ 167,000	100%	$ 167,000
8	R8S	3917	NO IMPRV	PRIORITY 4	15	1,953	1.27	0.52	PRIORITY CHANGED	18	$ 450	$ 879,000	0%	$ -	$ 879,000	100%	$ 879,000
9	R9A	2649	NO IMPRV	PRIORITY 4	36	2,586	10.54	0.00	PRIORITY CHANGED	42	$ 1,050	$ 2,716,000	0%	$ -	$ 2,716,000	100%	$ 2,716,000
9	R9A	2652	NO IMPRV	PRIORITY 4	36	1,480	12.61	0.00	PRIORITY CHANGED	42	$ 1,050	$ 1,554,000	0%	$ -	$ 1,554,000	100%	$ 1,554,000
9	R9B	2727	NO IMPRV	PRIORITY 4	15	2,628	1.29	0.56	PRIORITY CHANGED	18	$ 450	$ 1,183,000	0%	$ -	$ 1,183,000	100%	$ 1,183,000
10	R10A	1143	NO IMPRV	PRIORITY 4	42	2,607	9.12	2.94	PRIORITY CHANGED	60	$ 1,500	$ 3,911,000	0%	$ -	$ 3,911,000	100%	$ 3,911,000
10	R10A	1144	NO IMPRV	PRIORITY 4	42	1,203	15.72	2.81	PRIORITY CHANGED	48	$ 1,200	$ 1,444,000	0%	$ -	$ 1,444,000	100%	$ 1,444,000
10	R10A	1145	NO IMPRV	PRIORITY 4	42	1,553	15.95	2.56	PRIORITY CHANGED	48	$ 1,200	$ 1,864,000	0%	$ -	$ 1,864,000	100%	$ 1,864,000
10	R10A	1146	NO IMPRV	PRIORITY 4	42	144	16.29	2.53	PRIORITY CHANGED	48	$ 1,200	$ 173,000	0%	$ -	$ 173,000	100%	$ 173,000
10	R10A	1147	NO IMPRV	PRIORITY 4	42	578	16.04	2.53	PRIORITY CHANGED	48	$ 1,200	$ 694,000	0%	$ -	$ 694,000	100%	$ 694,000
10	R10A	1148	NO IMPRV	PRIORITY 4	42	465	15.70	2.53	PRIORITY CHANGED	48	$ 1,200	$ 558,000	0%	$ -	$ 558,000	100%	$ 558,000
10	R10A	1149	NO IMPRV	PRIORITY 4	42	3,200	16.00	2.53	PRIORITY CHANGED	48	$ 1,200	$ 3,840,000	0%	$ -	$ 3,840,000	100%	$ 3,840,000
10	R10B	2607	NO IMPRV	PRIORITY 3	24	915	4.60	0.00	PRIORITY CHANGED	27	$ 675	$ 618,000	0%	$ -	$ 618,000	100%	$ 618,000
10	R10C	14	NO IMPRV	PRIORITY 4	54	1,314	36.52	7.21	PRIORITY CHANGED	60	$ 1,500	$ 1,971,000	0%	$ -	$ 1,971,000	100%	$ 1,971,000
10	R10I	776	PRIORITY 4	PRIORITY 4	12	502	0.58	0.89	NO CHANGE	15	$ 375	$ 189,000	5%	$ 10,000	$ -	5%	$ 10,000
10	R10K	2707	NO IMPRV	PRIORITY 4	15	2,041	1.80	1.34	PRIORITY CHANGED	18	$ 450	$ 919,000	0%	$ -	$ 919,000	100%	$ 919,000
10	R10L	2634	NO IMPRV	PRIORITY 4	12	1,197	0.97	0.08	PRIORITY CHANGED		$ -	$ -	0%	$ -	$ -	100%	$ -
10	R10O	781	PRIORITY 4	PRIORITY 4	30	662	4.00	5.92	NO CHANGE	36	$ 900	$ 596,000	5%	$ 30,000	$ -	5%	$ 30,000
10	R10O	1192	PRIORITY 4	PRIORITY 4	30	60	4.85	7.20	NO CHANGE	33	$ 825	$ 50,000	5%	$ 3,000	$ -	5%	$ 3,000
10	R10O	1193	PRIORITY 4	PRIORITY 4	30	130	4.04	5.96	NO CHANGE	36	$ 900	$ 117,000	5%	$ 6,000	$ -	5%	$ 6,000
10	R10O	1198	PRIORITY 4	PRIORITY 4	30	140	5.02	5.99	NO CHANGE	33	$ 825	$ 116,000	5%	$ 6,000	$ -	5%	$ 6,000
10	R5J	1187	NO IMPRV	PRIORITY 4	42	323	28.55	18.92	PRIORITY CHANGED	48	$ 1,200	$ 388,000	0%	$ -	$ 388,000	100%	$ 388,000

Table F3 - Existing Conditions - Base Cost Calculations for Force Mains

G_ID		Length, ft	Existing Diameter, Inches	Design Flow, cfs	Status	Area, sf	Velocity, fps	Design Diameter, inches	Unit Cost, $/in-dia/ft	Base Cost, $
48	Thornton & Davis P.S. FM	76	8	3.96	Existing	0.35	11.35	12	$ 15	$ 14,000
729	Smith Canal FM West	660	24	36.15	Existing	3.14	12.73	36	$ 15	$ 357,000
432	Smith Canal FM West	359	24	36.15	Existing	3.14	12.73	36	$ 15	$ 194,000
404	Smith Canal FM East	507	24	24.10	Existing	3.14	9.09	30	$ 15	$ 229,000
417	Smith Canal FM East	219	24	24.10	Existing	3.14	9.09	30	$ 15	$ 99,000
877	Weston Ranch P.S. FM	5,803	12	7.93	Existing	0.79	10.10	16	$ 15	$ 1,393,000

Table F4 - Buildout Conditions - Base Cost Calculations for Force Mains

G_ID	System Name	Length (ft)	Existing Diameter, Inches	Design Flow, cfs	Status	Area, sf	Velocity, fps	Design Diameter, inches	Unit Cost, $/in-dia/ft	Base Cost, $
48	Thornton & Davis P.S. FM	76	8	4.48	Existing	0.35	12.83	12	$ 15	$ 14,000
1200	Smith Canal FM West	4,562	30	49.55	Existing	4.91	10.09	38	$ 15	$ 2,601,000
729	Smith Canal FM West	660	24	49.55	Existing	3.14	15.77	38	$ 15	$ 377,000
422	Smith Canal FM West	1,552	30	49.55	Existing	4.91	10.09	38	$ 15	$ 885,000
432	Smith Canal FM West	359	24	49.55	Existing	3.14	15.77	38	$ 15	$ 205,000
892	Smith Canal FM West	301	30	49.55	Existing	4.91	10.09	38	$ 15	$ 172,000
1201	Smith Canal FM East	479	30	55.23	Existing	4.91	11.25	40	$ 15	$ 288,000
842	Smith Canal FM East	8,601	30	55.23	Existing	4.91	11.25	40	$ 15	$ 5,161,000
404	Smith Canal FM East	507	24	55.23	Existing	3.14	17.58	40	$ 15	$ 305,000
416	Smith Canal FM East	992	30	55.23	Existing	4.91	11.25	40	$ 15	$ 596,000
417	Smith Canal FM East	219	24	55.23	Existing	3.14	17.58	40	$ 15	$ 132,000
3125	System 13 East PS FM	54	27	26.84	Proposed	3.98	6.75	30	$ 15	$ 25,000
3408	System 13 East PS FM	511	27	26.84	Proposed	3.98	6.75	30	$ 15	$ 230,000
3093	System 13 East PS FM	217	27	26.84	Proposed	3.98	6.75	30	$ 15	$ 98,000
3380	Newton Road FM	1,193	16	8.17	Proposed	1.40	5.85	16	$ 15	$ 287,000
3863	Thompson PS FM	2,143	16	3.51	Proposed	1.40	2.51	16	$ 15	$ 515,000
2899	System 15 East PS FM	20,510	27	23.93	Proposed	3.98	6.02	30	$ 15	$ 9,230,000
3410	Central Stockton FM	20	36	36.44	Proposed	7.07	5.16	36	$ 15	$ 11,000
2909	Gateway PS FM	6,141	20	12.39	Proposed	2.18	5.68	20	$ 15	$ 1,843,000
2901	System 15 FM	11,061	36	33.79	Proposed	7.07	4.78	36	$ 15	$ 5,973,000
3443	System14 PS FM	8,143	20	13.42	Proposed	2.18	6.15	20	$ 15	$ 2,443,000
3128	Tidewater PS FM	10,792	27	26.14	Proposed	3.98	6.58	30	$ 15	$ 4,857,000
3405	Tidewater PS FM	10,775	27	26.14	Proposed	3.98	6.58	30	$ 15	$ 4,849,000
3151	Central Stockton FM	9,800	36	36.44	Proposed	7.07	5.16	36	$ 15	$ 5,292,000
3299	Central Stockton FM	33,201	36	36.44	Proposed	7.07	5.16	36	$ 15	$ 17,929,000
3421	Arch Road PS FM	4,391	24	19.04	Proposed	3.14	6.06	24	$ 15	$ 1,581,000
3501	Lincoln Street PS FM	4,821	16	8.09	Proposed	1.40	5.80	16	$ 15	$ 1,158,000
3413	Westside Parallel FM	15,296	48	80.31	Proposed	12.57	6.39	48	$ 15	$ 11,014,000
3412	Westside Parallel FM	4,258	48	85.06	Proposed	12.57	6.77	48	$ 15	$ 3,066,000
3904	Westside Parallel FM	16,033	48	85.06	Proposed	12.57	6.77	48	$ 15	$ 11,544,000
3935	Westside Parallel FM	522	48	85.06	Proposed	12.57	6.77	48	$ 15	$ 376,000
1122	System 6 North PS FM	4,691	14	3.42	Proposed	1.07	3.20	14	$ 15	$ 986,000
2806	Gateway PS FM	519	14	4.73	Proposed	1.07	4.42	16	$ 15	$ 125,000

Table F5 - Existing Conditions - Base Cost Summary for Pump Stations

Status	Sewer System Location	Pump Station Name	City Tag Number	Peak Inflow, mgd	Firm Capacity, mgd	Ratio of Peak Flow to Design Capacity	Comments	Additional/ New Capacity Reqd, mgd	Unit Cost, $/mgd or LS	Base Cost, $
Existing	System 1	Plymouth & 5 Mile Cr. P.S.	M41514	1.44	0.65	2.23	Construct new pump station with required additional capacity	0.80	$ 719,943	$ 573,000
Existing	System 1	Cumberland & 5 Mile Cr. P.S.	M41503	4.35	5.33	0.82	No Upgrade	0.00	$ -	$ -
Existing	System 2	Kelly & Mosher P.S.	M41524	2.73	1.44	1.90	Replace pumps and controls	1.29	$ 500,000	$ 645,000
Existing	System 2	Thornton & Davis P.S. (Stonewood)	M41517	2.56	1.22	2.10	Construct new pump station with required additional capacity	1.34	$ 632,122	$ 847,000
Existing	System 2	Don Ave. & Santiago L.S.	M41510	2.47	0.79	3.11	Construct new pump station with required additional capacity	1.68	$ 597,378	$ 1,003,000
Existing	System 2	Swenson & 5 Mile Cr. P.S. (North P.S.)	M41509	26.58	16.27	1.63	Replace pumps and controls	10.31	$ 500,000	$ 5,155,000
Existing	System 2	Blossom Ranch P.S.	SD3208	1.01	0.65	1.57	Replace pumps and controls	0.37	$ 500,000	$ 183,000
Existing	System 2	Camanche P.S.	M41526	2.13	1.20	1.78	Replace pumps and controls	0.93	$ 500,000	$ 467,000
Existing	System 2	Alexandria & 14 Mile Sl. P.S. (Quail Lake)	M41507& M41513	2.74	1.97	1.39	Replace pumps and controls	0.77	$ 500,000	$ 386,000
Existing	System 2	March-Brookside & I-5 P.S.	M41501	1.38	1.15	1.20	No Upgrade. Monitor actual run-times and/or flows	0.23	$ 25,000	$ 25,000
Existing	System 3	Kirk & Del Rio (County P.S.)		1.59	1.01	1.58	Replace pumps and controls	0.58	$ 500,000	$ 291,000
Existing	System 2/3/9	Smith Canal Pump Station		38.92	41.03	0.95	Monitor flow split. Adjust as appropriate	0	$ -	$ -
Existing	System 4	Waterloo & Roosevelt/North P.	M41529	2.69	2.73	0.99	No Upgrade	0.00	$ -	$ -
Existing	System 4	Drake & Hwy. 99/South P.S.	M41528	3.15	3.54	0.89	No Upgrade	0.00	$ -	$ -
Existing	System 5	Private P.S. (Navy)		1.77	1.01	1.75	Not a City facility	0.76	$ -	$ -
Existing	System 8/14	Weston Ranch P.S.	M41529	5.12	10.50	0.49	No Upgrade	0.00	$ -	$ -
Existing	System 8	Arch Road Industrial Park P.S	M41527	0.90	0.46	1.95	Future Replacement Pump Station	0.90	$ 500,000	$ 449,000
Existing	System 8	Grupe Business Park P.S.	M41500	0.14	0.87	0.16	No Upgrade	0.00	$ -	$ -
Existing	System 8	County P.S. (Hospital)		1.84	1.08	1.70	Pump station to be removed from service at buildout.	0.76	$ 500,000	$ 380,000
Existing	System 9	Origone PS		0.00	4.50	0.00	No Upgrade	0.00	$ -	$ -
Existing	System 9	Sanguinetti PS		0.53	10.50	0.05	No Upgrade	0.00	$ -	$ -
Existing	System 10	Brookside Pumping Station	M41532	6.23	7.69	0.81	No Upgrade	0.00	$ -	$ -
Existing	System 10	Buckley Cove P.S.	WW3304	0.09	0.30	0.30	No Upgrade	0.00	$ -	$ -
Existing	System 10	Westlake P.S.		0.00	4.40	0.00	No Upgrade	0.00	$ -	$ -
Existing	System 10	14 Mile Slough PS		7.31	14.00	0.52	No Upgrade	0.00	$ -	$ -

Table F6 - Buildout Conditions - Base Cost Summary for Pump Stations

Status	Collection System(s) Served	Pump Station Name	City Tag Number	Peak Inflow, mgd	Firm Capacity, mgd	Ratio of Peak Flow to Design Capacity	Comments	Additional/ New Capacity Reqd, mgd	Unit Cost, $/mgd or LS	Base Cost, $
Existing	1	Plymouth & 5 Mile Cr. P.S.	M41514	1.56	0.65	2.42	Construct new pump station with required additional capacity	0.92	$ 694,586	$ 639,000
Existing	1	Cumberland & 5 Mile Cr. P.S.	M41503	4.58	5.33	0.86	No Upgrade	0.00	$ -	$ -
Existing	2	Kelly & Mosher P.S.	M41524	2.72	1.44	1.89	Replace pumps and controls	1.28	$ 500,000	$ 640,000
Existing	2	Thornton & Davis P.S. (Stonewood)	M41517	2.89	1.22	2.37	Construct new pump station with required additional capacity	1.67	$ 597,896	$ 1,001,000
Existing	2	Don Ave. & Santiago L.S.	M41510	2.74	0.79	3.44	Construct new pump station with required additional capacity	1.94	$ 576,137	$ 1,119,000
Existing	2	Swenson & 5 Mile Cr. P.S. (North P.S.)	M41509	28.26	16.27	1.74	Replace pumps and controls	11.99	$ 500,000	$ 5,994,000
Existing	2	Blossom Ranch P.S.	SD3208	1.19	0.65	1.85	Replace pumps and controls	0.55	$ 500,000	$ 274,000
Existing	2	Camanche P.S.	M41526	2.42	1.20	2.01	Construct new pump station with required additional capacity	1.22	$ 647,412	$ 788,000
Existing	2	Alexandria & 14 Mile Sl. P.S. (Quail Lake)	M41507& M41513	2.81	1.97	1.43	Replace pumps and controls	0.84	$ 500,000	$ 422,000
Existing	2	March-Brookside & I-5 P.S.	M41501	1.60	1.15	1.39	Replace pumps and controls	0.45	$ 500,000	$ 224,000
Existing	3	Kirk & Del Rio (County P.S.)		2.66	1.01	2.64	Construct new pump station with required additional capacity	1.65	$ 599,816	$ 991,000
Existing	2,3,9	Smith Canal Pump Station	M41518	60.80	41.03	1.48	Replace pumps and controls	19.77	$ 500,000	$ 9,885,000
Existing	4	Waterloo & Roosevelt/North P.	M41529	3.46	2.73	1.27	Replace pumps and controls	0.73	$ 500,000	$ 366,000
Existing	4	Drake & Hwy. 99/South P.S.	M41528	3.16	3.54	0.89	No Upgrade	0.00	$ -	$ -
Existing	5	Private P.S. (Navy)		1.90	1.01	1.89	Not a City facility	0.90	$ -	$ -
Future	6	System 6 North PS		2.21	2.21		Future Pump Station	2.21	$ 557,634	$ 1,234,000
Future	7	Duck Creek PS		2.49	2.49		Future Pump Station	2.49	$ 541,326	$ 1,348,000
Existing	8,14	Weston Ranch P.S.	M41529	26.30	10.50	2.50	Construct new pump station with required additional capacity	15.79	$ 341,103	$ 5,388,000
Future	8	Arch Road Industrial Park P.S	M41527	12.30	12.30		Future Replacement Pump Station	12.30	$ 363,105	$ 4,467,000
Existing	8	Grupe Business Park P.S.	M41500	0.40	0.87	0.46	No Upgrade	0.00	$ -	$ -
Existing	8	County P.S. (Hospital)		0.00	1.08	0.00	No Upgrade	0.00	$ -	$ -
Existing	9	Origone PS		7.01	4.50	1.56	Replace pumps and controls	2.51	$ 500,000	$ 1,255,000
Existing	9	Sanguinetti PS		15.24	10.50	1.45	Replace pumps and controls	4.74	$ 500,000	$ 2,372,000
Existing	10	Brookside Pumping Station	M41532	6.44	7.69	0.84	No Upgrade	0.00	$ -	$ -
Existing	10	Buckley Cove P.S.	WW3304	0.09	0.30	0.30	No Upgrade	0.00	$ -	$ -
Existing	10	Westlake P.S.		4.00	4.40	0.91	No Upgrade	0.00	$ -	$ -
Existing	1,10,15	14 Mile Slough PS		71.51	14.00	5.11	Construct new pump station with required additional capacity	57.51	$ 246,926	$ 14,202,000
Future	15	Lincoln Street PS		5.23	5.23		Future Pump Station	5.23	$ 449,687	$ 2,352,000
Future	9	Newton Rd PS		5.28	5.28		Future Pump Station	5.28	$ 448,651	$ 2,368,000
Future	12	Mariposa PS		23.54	23.54		Future Pump Station	23.54	$ 308,705	$ 7,268,000
Future	13	System 13 East PS		17.34	17.34		Future Pump Station	17.34	$ 333,251	$ 5,778,000
Future	13	Tidewater PS		31.12	31.12		Future Pump Station	31.12	$ 287,904	$ 8,960,000
Future	14	System 14 PS		8.67	8.67		Future Pump Station	8.67	$ 396,297	$ 3,436,000
Future	15	Thompson PS		2.26	2.26		Future Pump Station	2.26	$ 554,343	$ 1,256,000
Future	15	Gateway PS		7.47	7.47		Future Pump Station	7.47	$ 411,289	$ 3,074,000
Future	15	System 15 East PS		15.46	15.46		Future Pump Station	15.46	$ 342,923	$ 5,303,000
Future	10	Sanctuary PS		4.48	4.48		Future Pump Station	4.48	$ 467,417	$ 2,094,000

Table F7 - Buildout Conditions - Base Costs Calculations for Future Pipes

System	G_ID	Length (ft)	Size (in)	Slope (ft/ft)	Design Flow (mgd)	Design Diameter (inches)	Unit Cost, $/ft	Base Cost, $
1	3974	117	12	0.0043	0.00	12	$ 240	$ 29,000
2	3659	1,208	12	0.0020	0.94	12	$ 240	$ 291,000
2	3662	1,733	15	0.0016	1.61	15	$ 300	$ 520,000
2	3677	1,722	12	0.0020	0.86	12	$ 240	$ 414,000
4	3720	1,493	12	0.0020	0.79	12	$ 240	$ 359,000
5	3496	94	27	0.0010	5.23	27	$ 540	$ 51,000
6	1115	1,567	24	0.0010	3.37	24	$ 480	$ 753,000
6	1116	1,240	21	0.0012	3.36	21	$ 420	$ 521,000
6	1117	323	21	0.0010	2.63	21	$ 420	$ 136,000
6	1118	1,711	21	0.0012	2.74	21	$ 420	$ 719,000
6	1119	1,159	18	0.0012	1.90	18	$ 360	$ 418,000
6	1120	1,014	18	0.0012	2.19	18	$ 360	$ 366,000
6	1123	2,079	18	0.0012	1.63	18	$ 360	$ 749,000
6	1124	849	18	0.0015	2.07	18	$ 360	$ 306,000
6	1125	2,725	15	0.0020	1.26	15	$ 300	$ 818,000
6	1126	1,989	12	0.0020	0.85	12	$ 240	$ 478,000
6	1127	705	21	0.0012	2.63	21	$ 420	$ 296,000
6	1129	1,463	18	0.0012	1.68	18	$ 360	$ 527,000
6	1130	631	21	0.0012	2.63	21	$ 420	$ 266,000
6	1131	598	21	0.0010	2.63	21	$ 420	$ 252,000
6	1132	510	21	0.0012	2.75	21	$ 420	$ 215,000
6	1133	1,257	21	0.0012	2.75	21	$ 420	$ 528,000
6	1134	880	21	0.0012	2.75	21	$ 420	$ 370,000
6	1135	669	21	0.0012	2.75	21	$ 420	$ 281,000
6	1136	2,101	21	0.0012	2.74	21	$ 420	$ 883,000
6	1137	1,566	21	0.0012	2.75	21	$ 420	$ 658,000
6	1138	447	21	0.0012	2.75	21	$ 420	$ 188,000
6	3728	881	12	0.0020	0.76	12	$ 240	$ 212,000
6	3731	1,785	12	0.0020	0.53	12	$ 240	$ 429,000
6	3733	2,611	15	0.0015	1.25	15	$ 300	$ 784,000
7	1140	884	12	0.0020	0.16	12	$ 240	$ 213,000
7	1141	522	12	0.0020	0.16	12	$ 240	$ 126,000
7	3493	5,633	54	0.0004	18.01	54	$ 1,080	$ 6,084,000
7	3736	1,384	12	0.0022	0.00	12	$ 240	$ 333,000
7	3740	749	12	0.0020	0.13	12	$ 240	$ 180,000
7	3742	1,674	12	0.0020	0.05	12	$ 240	$ 402,000
7	3745	640	12	0.0020	0.76	12	$ 240	$ 154,000
7	3809	1,538	12	0.0020	0.67	12	$ 240	$ 370,000
7	3811	1,802	12	0.0021	1.03	12	$ 240	$ 433,000
7	3813	2,125	15	0.0015	1.03	15	$ 300	$ 638,000
7	3816	414	12	0.0020	0.06	12	$ 240	$ 100,000
8	3182	2,395	15	0.0015	1.05	15	$ 300	$ 719,000
8	3185	659	27	0.0012	6.57	27	$ 540	$ 356,000
8	3186	855	15	0.0050	1.91	15	$ 300	$ 257,000
8	3188	973	15	0.0050	1.73	15	$ 300	$ 292,000
8	3414	5,286	30	0.0010	7.98	30	$ 600	$ 3,172,000
8	3419	3,528	18	0.0012	1.92	18	$ 360	$ 1,271,000
8	3425	3,548	24	0.0010	5.84	24	$ 480	$ 1,704,000
8	3455	1,066	12	0.0045	1.37	12	$ 240	$ 256,000
8	3457	1,177	12	0.0045	1.42	12	$ 240	$ 283,000
8	3459	1,075	12	0.0045	1.30	12	$ 240	$ 258,000
8	3462	1,039	21	0.0012	2.31	21	$ 420	$ 437,000
8	3464	2,323	21	0.0012	3.15	21	$ 420	$ 976,000
8	3466	1,327	12	0.0045	1.10	12	$ 240	$ 319,000
8	3468	3,259	27	0.0010	4.85	27	$ 540	$ 1,760,000
8	3488	1,653	30	0.0010	6.66	30	$ 600	$ 992,000
8	3490	3,748	24	0.0014	4.80	24	$ 480	$ 1,800,000
8	3491	5,980	66	0.0004	35.10	66	$ 1,320	$ 7,894,000

Table F7 - Buildout Conditions - Base Costs Calculations for Future Pipes

System	G_ID	Length (ft)	Size (in)	Slope (ft/ft)	Design Flow (mgd)	Design Diameter (inches)	Unit Cost, $/ft	Base Cost, $
8	3746	2,100	18	0.0012	1.78	18	$ 360	$ 756,000
8	3748	2,849	15	0.0020	1.05	15	$ 300	$ 855,000
8	3752	1,494	27	0.0010	9.11	27	$ 540	$ 807,000
8	3756	2,515	27	0.0010	9.57	27	$ 540	$ 1,359,000
8	3760	2,230	30	0.0010	9.88	30	$ 600	$ 1,338,000
8	3762	844	12	0.0021	1.02	12	$ 240	$ 203,000
8	3764	1,352	30	0.0010	9.88	30	$ 600	$ 812,000
8	3768	2,581	30	0.0010	10.34	30	$ 600	$ 1,549,000
8	3772	2,380	12	0.0020	0.88	12	$ 240	$ 572,000
8	3773	1,390	12	0.0045	1.06	12	$ 240	$ 334,000
8	3776	3,758	18	0.0015	2.00	18	$ 360	$ 1,353,000
8	3777	2,289	18	0.0050	1.62	18	$ 360	$ 824,000
8	3779	1,826	12	0.0045	1.24	12	$ 240	$ 439,000
8	3781	Removed		0.0020	3.05		$ -	
8	3784	Removed		0.0020	4.03		$ -	
8	3910	1,778	21	0.0010	1.44	21	$ 420	$ 747,000
8	3920	4,067	15	0.0020	1.14	15	$ 300	$ 1,221,000
8	4092	384	36	0.0018	17.07	36	$ 720	$ 277,000
9	2740	80	24	0.0010	3.19	24	$ 480	$ 39,000
9	3316	2,380	12	0.0045	1.05	12	$ 240	$ 572,000
9	3319	1,088	24	0.0010	4.49	24	$ 480	$ 523,000
9	3322	881	24	0.0010	4.49	24	$ 480	$ 423,000
9	3324	2,342	12	0.0020	0.51	12	$ 240	$ 562,000
9	3327	2,054	15	0.0015	1.45	15	$ 300	$ 617,000
9	3329	1,988	21	0.0010	2.75	21	$ 420	$ 835,000
9	3331	1,734	12	0.0045	1.08	12	$ 240	$ 417,000
9	3334	3,254	12	0.0020	0.61	12	$ 240	$ 781,000
9	3336	988	12	0.0020	0.66	12	$ 240	$ 238,000
9	3339	844	15	0.0015	1.50	15	$ 300	$ 254,000
9	3340	2,324	15	0.0015	1.35	15	$ 300	$ 698,000
9	3342	2,784	12	0.0050	1.60	12	$ 240	$ 669,000
9	3344	2,696	12	0.0020	0.88	12	$ 240	$ 648,000
9	3346	4,381	12	0.0020	0.86	12	$ 240	$ 1,052,000
9	3348	1,209	12	0.0045	1.13	12	$ 240	$ 291,000
9	3353	1,289	21	0.0010	2.56	21	$ 420	$ 542,000
9	3354	933	21	0.0011	3.23	21	$ 420	$ 393,000
9	3356	445	15	0.0017	1.65	15	$ 300	$ 134,000
9	3358	2,775	12	0.0030	1.11	12	$ 240	$ 666,000
9	3362	440	24	0.0010	4.13	24	$ 480	$ 212,000
9	3364	1,205	15	0.0015	1.42	15	$ 300	$ 362,000
9	3368	1,857	12	0.0045	1.42	12	$ 240	$ 446,000
9	3370	2,209	15	0.0015	1.38	15	$ 300	$ 663,000
9	3371	1,566	12	0.0020	0.53	12	$ 240	$ 376,000
9	3373	1,537	12	0.0046	1.51	12	$ 240	$ 369,000
9	3376	3,125	18	0.0012	2.09	18	$ 360	$ 1,125,000
9	3378	2,986	12	0.0045	1.15	12	$ 240	$ 717,000
9	3381	1,186	12	0.0045	1.26	12	$ 240	$ 285,000
9	3383	1,423	18	0.0013	2.36	18	$ 360	$ 513,000
9	3384	1,900	12	0.0045	1.12	12	$ 240	$ 457,000
9	3386	2,095	12	0.0020	0.78	12	$ 240	$ 503,000
9	3388	1,372	18	0.0012	2.15	18	$ 360	$ 495,000
9	3679	2,333	12	0.0020	0.69	12	$ 240	$ 560,000
9	3681	1,015	15	0.0015	1.12	15	$ 300	$ 305,000
9	3874	986	12	0.0020	0.91	12	$ 240	$ 237,000
10	2563	641	15	0.0015	0.54	15	$ 300	$ 193,000
10	2566	1,426	15	0.0015	1.30	15	$ 300	$ 428,000
10	2594	1,215	12	0.0022	0.99	12	$ 240	$ 292,000
10	2597	1,231	27	0.0008	5.14	27	$ 540	$ 665,000
10	2600	1,570	12	0.0014	0.76	12	$ 240	$ 377,000

Table F7 - Buildout Conditions - Base Costs Calculations for Future Pipes

System	G_ID	Length (ft)	Size (in)	Slope (ft/ft)	Design Flow (mgd)	Design Diameter (inches)	Unit Cost, $/ft	Base Cost, $
10	2603	539	15	0.0011	1.30	15	$ 300	$ 162,000
10	2605	620	24	0.0010	3.92	24	$ 480	$ 298,000
10	2609	566	27	0.0008	4.76	27	$ 540	$ 306,000
10	2612	1,570	12	0.0014	0.77	12	$ 240	$ 377,000
10	2614	693	24	0.0009	4.05	24	$ 480	$ 333,000
10	2615	881	27	0.0008	4.88	27	$ 540	$ 476,000
10	2616	1,501	27	0.0008	5.54	27	$ 540	$ 811,000
10	2617	2,376	12	0.0017	0.86	12	$ 240	$ 571,000
10	2619	1,486	15	0.0010	1.23	15	$ 300	$ 446,000
10	2721	484	30	0.0008	6.10	30	$ 600	$ 291,000
10	2767	194	30	0.0010	7.22	30	$ 600	$ 117,000
10	2769	851	30	0.0010	7.21	30	$ 600	$ 511,000
10	2770	2,092	30	0.0008	6.26	30	$ 600	$ 1,256,000
10	3133	2,626	12	0.0020	0.94	12	$ 240	$ 631,000
10	3135	2,175	24	0.0010	4.47	24	$ 480	$ 1,044,000
10	3138	3,470	24	0.0010	4.48	24	$ 480	$ 1,666,000
10	3140	1,410	27	0.0010	5.04	27	$ 540	$ 762,000
10	3142	1,165	27	0.0012	6.50	27	$ 540	$ 629,000
10	3143	979	15	0.0015	1.56	15	$ 300	$ 294,000
10	3147	2,236	21	0.0010	2.83	21	$ 420	$ 940,000
10	3305	2,910	18	0.0012	2.13	18	$ 360	$ 1,048,000
10	3307	1,601	21	0.0010	2.66	21	$ 420	$ 673,000
10	3309	1,905	24	0.0010	3.90	24	$ 480	$ 915,000
10	3311	1,100	24	0.0010	3.90	24	$ 480	$ 529,000
10	3315	847	27	0.0011	6.49	27	$ 540	$ 458,000
10	3469	2,475	15	0.0015	1.39	15	$ 300	$ 743,000
10	3471	2,184	15	0.0015	1.21	15	$ 300	$ 656,000
10	3492	4,578	60	0.0010	51.47	60	$ 1,200	$ 5,494,000
10	3494	2,001	21	0.0012	2.58	21	$ 420	$ 841,000
10	3544	2,880	15	0.0015	1.11	15	$ 300	$ 864,000
10	3608	2,099	12	0.0020	0.49	12	$ 240	$ 504,000
10	3616	2,235	12	0.0020	0.37	12	$ 240	$ 537,000
10	3618	2,095	12	0.0020	0.77	12	$ 240	$ 503,000
10	3620	1,714	12	0.0018	0.91	12	$ 240	$ 412,000
10	3623	1,525	15	0.0011	1.18	15	$ 300	$ 458,000
10	3625	2,787	18	0.0019	1.68	18	$ 360	$ 1,004,000
10	3626	3,405	12	0.0020	1.01	12	$ 240	$ 818,000
10	3628	2,025	12	0.0020	0.97	12	$ 240	$ 486,000
10	3630	1,840	12	0.0020	0.68	12	$ 240	$ 442,000
10	3633	1,344	15	0.0015	1.20	15	$ 300	$ 404,000
10	3635	1,375	27	0.0010	4.94	27	$ 540	$ 743,000
10	3636	1,578	27	0.0011	6.49	27	$ 540	$ 853,000
10	3637	1,644	12	0.0020	0.44	12	$ 240	$ 395,000
10	3640	1,696	12	0.0020	0.73	12	$ 240	$ 408,000
10	3642	1,594	15	0.0015	1.06	15	$ 300	$ 479,000
10	3643	1,848	12	0.0020	0.74	12	$ 240	$ 444,000
10	3645	2,237	12	0.0045	1.06	12	$ 240	$ 537,000
10	3648	1,061	15	0.0015	1.53	15	$ 300	$ 319,000
10	3651	2,268	12	0.0022	0.54	12	$ 240	$ 545,000
10	3655	1,961	12	0.0045	1.18	12	$ 240	$ 471,000
10	3657	435	12	0.0020	1.00	12	$ 240	$ 105,000
10	3663	959	21	0.0011	3.19	21	$ 420	$ 403,000
10	3665	1,146	12	0.0045	1.07	12	$ 240	$ 276,000
10	3667	1,597	18	0.0012	2.19	18	$ 360	$ 575,000
10	3669	1,894	12	0.0020	0.71	12	$ 240	$ 455,000
10	3671	1,294	12	0.0020	0.72	12	$ 240	$ 311,000
10	3673	1,559	15	0.0015	1.44	15	$ 300	$ 468,000
10	3675	1,194	12	0.0045	1.06	12	$ 240	$ 287,000
10	3682	1,346	12	0.0020	0.52	12	$ 240	$ 324,000

Table F7 - Buildout Conditions - Base Costs Calculations for Future Pipes

System	G_ID	Length (ft)	Size (in)	Slope (ft/ft)	Design Flow (mgd)	Design Diameter (inches)	Unit Cost, $/ft	Base Cost, $
10	3684	1,944	12	0.0020	0.55	12	$ 240	$ 467,000
10	3686	3,520	12	0.0020	0.72	12	$ 240	$ 845,000
10	3688	3,533	12	0.0020	0.66	12	$ 240	$ 848,000
10	3690	1,398	12	0.0020	0.99	12	$ 240	$ 336,000
10	3692	1,568	12	0.0020	0.85	12	$ 240	$ 377,000
10	3694	1,889	12	0.0020	0.56	12	$ 240	$ 454,000
10	3697	1,121	15	0.0015	1.23	15	$ 300	$ 337,000
10	3699	869	18	0.0012	1.78	18	$ 360	$ 313,000
10	3700	620	12	0.0020	0.68	12	$ 240	$ 149,000
10	3702	2,364	12	0.0020	0.68	12	$ 240	$ 568,000
10	3705	1,730	15	0.0015	1.46	15	$ 300	$ 520,000
10	3706	685	12	0.0020	0.67	12	$ 240	$ 165,000
10	3708	1,052	21	0.0010	2.48	21	$ 420	$ 442,000
10	3709	2,063	12	0.0020	0.94	12	$ 240	$ 496,000
10	3711	2,064	18	0.0012	1.84	18	$ 360	$ 743,000
12	3154	2,899	18	0.0012	2.18	18	$ 360	$ 1,044,000
12	3157	2,008	21	0.0010	2.62	21	$ 420	$ 844,000
12	3159	1,750	21	0.0011	3.33	21	$ 420	$ 736,000
12	3165	1,412	27	0.0011	6.20	27	$ 540	$ 763,000
12	3174	666	27	0.0010	5.72	27	$ 540	$ 360,000
12	3175	805	27	0.0010	6.20	27	$ 540	$ 435,000
12	3190	1,447	27	0.0011	6.28	27	$ 540	$ 782,000
12	3193	2,077	24	0.0011	4.67	24	$ 480	$ 997,000
12	3200	1,474	24	0.0015	4.66	24	$ 480	$ 708,000
12	3429	1,662	15	0.0015	1.09	15	$ 300	$ 499,000
12	3432	1,395	15	0.0015	1.10	15	$ 300	$ 419,000
12	3434	1,525	15	0.0015	1.06	15	$ 300	$ 458,000
12	3436	2,073	18	0.0012	1.77	18	$ 360	$ 747,000
12	3438	1,280	18	0.0012	1.66	18	$ 360	$ 461,000
12	3506	1,358	12	0.0020	0.71	12	$ 240	$ 326,000
12	3508	1,475	12	0.0020	0.50	12	$ 240	$ 354,000
12	3510	1,580	12	0.0020	0.97	12	$ 240	$ 380,000
12	3785	2,558	12	0.0045	1.28	12	$ 240	$ 614,000
12	3787	736	12	0.0020	0.83	12	$ 240	$ 177,000
12	3789	2,604	18	0.0012	1.85	18	$ 360	$ 938,000
12	3792	3,375	21	0.0010	3.15	21	$ 420	$ 1,418,000
12	3794	2,128	27	0.0010	5.75	27	$ 540	$ 1,150,000
12	3795	2,770	27	0.0010	5.75	27	$ 540	$ 1,496,000
12	3799	1,417	18	0.0012	1.94	18	$ 360	$ 511,000
12	3801	679	15	0.0015	1.12	15	$ 300	$ 204,000
12	3820	1,363	12	0.0045	0.91	12	$ 240	$ 328,000
12	3822	2,332	12	0.0020	0.77	12	$ 240	$ 560,000
12	3826	2,696	18	0.0015	2.48	18	$ 360	$ 971,000
12	3828	1,415	12	0.0045	1.38	12	$ 240	$ 340,000
12	3830	1,401	12	0.0020	0.83	12	$ 240	$ 337,000
12	3832	1,342	12	0.0045	1.20	12	$ 240	$ 323,000
12	3834	820	12	0.0020	0.92	12	$ 240	$ 197,000
12	3836	1,032	12	0.0020	0.57	12	$ 240	$ 248,000
12	3838	1,596	12	0.0045	1.12	12	$ 240	$ 383,000
12	3840	3,282	12	0.0020	0.77	12	$ 240	$ 788,000
12	3843	1,583	15	0.0015	1.24	15	$ 300	$ 475,000
12	3845	1,597	18	0.0012	1.97	18	$ 360	$ 575,000
12	3847	4,784	18	0.0012	2.32	18	$ 360	$ 1,723,000
12	3848	1,029	12	0.0020	0.54	12	$ 240	$ 247,000
12	3851	533	15	0.0015	1.22	15	$ 300	$ 160,000
12	3852	1,350	30	0.0010	7.87	30	$ 600	$ 810,000
12	3854	1,766	30	0.0011	8.39	30	$ 600	$ 1,060,000
12	3855	1,387	21	0.0010	3.01	21	$ 420	$ 583,000
12	3859	1,278	21	0.0012	3.33	21	$ 420	$ 537,000

Table F7 - Buildout Conditions - Base Costs Calculations for Future Pipes

System	G_ID	Length (ft)	Size (in)	Slope (ft/ft)	Design Flow (mgd)	Design Diameter (inches)	Unit Cost, $/ft	Base Cost, $
12	3878	2,285	12	0.0045	1.30	12	$ 240	$ 549,000
12	3900	710	15	0.0016	1.11	15	$ 300	$ 213,000
12	3921	1,707	21	0.0020	3.94	21	$ 420	$ 717,000
12	3923	854	12	0.0045	1.42	12	$ 240	$ 205,000
12	4077	1,530	12	0.0020	0.69	12	$ 240	$ 368,000
12	4078	1,283	12	0.0020	1.00	12	$ 240	$ 308,000
12	4079	2,853	33	0.0010	9.31	33	$ 660	$ 1,883,000
12	4080	2,682	45	0.0010	23.11	48	$ 960	$ 2,575,000
12	4081	1,445	15	0.0015	1.23	15	$ 300	$ 434,000
12	4083	1,016	36	0.0011	13.63	36	$ 720	$ 732,000
12	4084	1,442	39	0.0010	14.33	42	$ 840	$ 1,212,000
12	4085	1,131	12	0.0020	0.81	12	$ 240	$ 272,000
13	2910	1,037	12	0.0021	1.02	12	$ 240	$ 249,000
13	2913	850	15	0.0015	1.27	15	$ 300	$ 255,000
13	2916	1,526	15	0.0015	1.27	15	$ 300	$ 458,000
13	2918	1,187	12	0.0021	1.02	12	$ 240	$ 285,000
13	2920	1,527	12	0.0021	1.02	12	$ 240	$ 367,000
13	2921	1,152	12	0.0020	0.81	12	$ 240	$ 277,000
13	2930	568	12	0.0020	0.74	12	$ 240	$ 137,000
13	2933	2,331	12	0.0020	0.74	12	$ 240	$ 560,000
13	2939	940	12	0.0020	0.77	12	$ 240	$ 226,000
13	2942	497	12	0.0020	0.74	12	$ 240	$ 120,000
13	2943	1,254	15	0.0015	1.20	15	$ 300	$ 377,000
13	2945	1,597	15	0.0020	1.14	15	$ 300	$ 480,000
13	2948	1,778	18	0.0012	2.09	18	$ 360	$ 641,000
13	2951	1,935	18	0.0015	1.72	18	$ 360	$ 697,000
13	2954	1,935	12	0.0020	0.73	12	$ 240	$ 465,000
13	2957	1,218	24	0.0010	3.68	24	$ 480	$ 585,000
13	2959	1,908	12	0.0020	0.52	12	$ 240	$ 458,000
13	2962	696	24	0.0010	3.68	24	$ 480	$ 334,000
13	2963	220	12	0.0023	0.56	12	$ 240	$ 53,000
13	2966	151	12	0.0020	0.56	12	$ 240	$ 37,000
13	2972	751	18	0.0012	2.15	18	$ 360	$ 271,000
13	2974	1,060	21	0.0010	2.41	21	$ 420	$ 446,000
13	2975	1,663	12	0.0020	0.74	12	$ 240	$ 400,000
13	2978	578	15	0.0015	1.40	15	$ 300	$ 174,000
13	2980	1,380	12	0.0020	0.52	12	$ 240	$ 332,000
13	2982	562	18	0.0012	1.63	18	$ 360	$ 203,000
13	2984	1,577	12	0.0020	0.50	12	$ 240	$ 379,000
13	2986	1,134	18	0.0012	1.83	18	$ 360	$ 409,000
13	2988	379	18	0.0012	2.16	18	$ 360	$ 137,000
13	2989	854	12	0.0020	0.65	12	$ 240	$ 205,000
13	2991	1,082	27	0.0010	5.67	27	$ 540	$ 585,000
13	2993	2,312	12	0.0045	1.22	12	$ 240	$ 555,000
13	2996	1,942	18	0.0012	1.90	18	$ 360	$ 700,000
13	2997	1,058	21	0.0010	2.71	21	$ 420	$ 445,000
13	2999	246	21	0.0010	2.87	21	$ 420	$ 104,000
13	3001	984	12	0.0020	0.49	12	$ 240	$ 237,000
13	3003	1,757	12	0.0020	0.51	12	$ 240	$ 422,000
13	3005	1,490	12	0.0020	0.46	12	$ 240	$ 358,000
13	3007	3,433	45	0.0010	22.47	48	$ 960	$ 3,296,000
13	3008	4,142	42	0.0010	19.54	42	$ 840	$ 3,480,000
13	3010	2,255	12	0.0050	1.57	12	$ 240	$ 542,000
13	3013	1,702	21	0.0010	2.37	21	$ 420	$ 715,000
13	3015	3,726	21	0.0010	2.90	21	$ 420	$ 1,565,000
13	3017	865	12	0.0020	0.91	12	$ 240	$ 208,000
13	3020	1,501	12	0.0045	1.13	12	$ 240	$ 361,000
13	3022	2,956	18	0.0012	1.74	18	$ 360	$ 1,065,000
13	3024	2,595	24	0.0010	3.41	24	$ 480	$ 1,246,000

Table F7 - Buildout Conditions - Base Costs Calculations for Future Pipes

System	G_ID	Length (ft)	Size (in)	Slope (ft/ft)	Design Flow (mgd)	Design Diameter (inches)	Unit Cost, $/ft	Base Cost, $
13	3025	1,697	12	0.0020	0.77	12	$ 240	$ 408,000
13	3028	1,660	27	0.0010	5.21	27	$ 540	$ 897,000
13	3030	1,463	27	0.0010	5.21	27	$ 540	$ 790,000
13	3031	1,726	27	0.0010	6.01	27	$ 540	$ 932,000
13	3033	1,659	12	0.0020	0.83	12	$ 240	$ 399,000
13	3036	1,243	12	0.0020	0.76	12	$ 240	$ 299,000
13	3038	2,416	42	0.0010	19.53	42	$ 840	$ 2,030,000
13	3039	2,489	42	0.0010	18.35	42	$ 840	$ 2,091,000
13	3041	2,510	12	0.0020	0.69	12	$ 240	$ 603,000
13	3044	1,773	15	0.0020	1.30	15	$ 300	$ 532,000
13	3046	1,228	12	0.0020	0.75	12	$ 240	$ 295,000
13	3048	3,072	21	0.0010	2.50	21	$ 420	$ 1,291,000
13	3051	3,395	12	0.0045	1.07	12	$ 240	$ 815,000
13	3053	997	12	0.0045	1.31	12	$ 240	$ 240,000
13	3055	1,305	24	0.0010	3.90	24	$ 480	$ 627,000
13	3057	2,062	12	0.0045	1.44	12	$ 240	$ 495,000
13	3059	1,086	12	0.0020	0.83	12	$ 240	$ 261,000
13	3062	2,320	12	0.0020	0.83	12	$ 240	$ 557,000
13	3064	1,362	24	0.0011	4.83	24	$ 480	$ 654,000
13	3065	1,148	27	0.0010	5.86	27	$ 540	$ 620,000
13	3067	2,639	12	0.0045	1.48	12	$ 240	$ 634,000
13	3069	2,475	12	0.0045	1.22	12	$ 240	$ 594,000
13	3072	2,614	30	0.0010	6.81	30	$ 600	$ 1,569,000
13	3073	1,590	12	0.0020	0.72	12	$ 240	$ 382,000
13	3075	1,227	30	0.0010	7.84	30	$ 600	$ 737,000
13	3077	1,059	12	0.0020	0.97	12	$ 240	$ 255,000
13	3079	624	12	0.0045	1.11	12	$ 240	$ 150,000
13	3081	2,762	33	0.0010	8.94	33	$ 660	$ 1,823,000
13	3083	2,158	33	0.0010	9.45	33	$ 660	$ 1,425,000
13	3085	3,600	12	0.0020	0.99	12	$ 240	$ 864,000
13	3087	1,792	12	0.0045	1.17	12	$ 240	$ 431,000
13	3091	490	33	0.0010	9.95	33	$ 660	$ 324,000
13	3096	1,909	39	0.0011	17.34	42	$ 840	$ 1,604,000
13	3097	1,384	12	0.0036	0.79	12	$ 240	$ 333,000
13	3100	1,233	18	0.0016	2.35	18	$ 360	$ 444,000
13	3102	1,202	21	0.0010	2.36	21	$ 420	$ 505,000
13	3103	3,174	12	0.0045	1.48	12	$ 240	$ 762,000
13	3108	2,192	12	0.0045	1.21	12	$ 240	$ 527,000
13	3111	840	18	0.0012	2.30	18	$ 360	$ 303,000
13	3113	1,774	21	0.0010	2.82	21	$ 420	$ 745,000
13	3115	1,163	12	0.0045	1.11	12	$ 240	$ 280,000
13	3117	1,178	12	0.0020	0.87	12	$ 240	$ 283,000
13	3119	2,070	12	0.0020	0.79	12	$ 240	$ 497,000
13	3121	2,068	12	0.0020	0.93	12	$ 240	$ 497,000
13	3123	1,494	39	0.0010	15.23	42	$ 840	$ 1,255,000
13	3127	158	36	0.0042	26.73	36	$ 720	$ 114,000
13	3212	1,108	21	0.0012	3.34	21	$ 420	$ 466,000
13	3213	2,885	12	0.0020	1.00	12	$ 240	$ 693,000
13	3215	2,609	24	0.0011	4.64	24	$ 480	$ 1,253,000
13	3217	1,393	27	0.0010	5.91	27	$ 540	$ 753,000
13	3219	1,428	12	0.0020	0.81	12	$ 240	$ 343,000
13	3221	1,530	12	0.0020	0.90	12	$ 240	$ 368,000
13	3223	2,601	27	0.0011	6.37	27	$ 540	$ 1,405,000
13	3224	1,225	15	0.0020	1.34	15	$ 300	$ 368,000
13	3552	1,386	12	0.0020	0.85	12	$ 240	$ 333,000
13	3554	1,420	12	0.0020	0.75	12	$ 240	$ 341,000
13	3556	647	15	0.0015	1.58	15	$ 300	$ 195,000
13	3909	1,261	30	0.0010	7.53	30	$ 600	$ 757,000
13	3937	2,785	12	0.0020	0.87	12	$ 240	$ 669,000

Table F7 - Buildout Conditions - Base Costs Calculations for Future Pipes

System	G_ID	Length (ft)	Size (in)	Slope (ft/ft)	Design Flow (mgd)	Design Diameter (inches)	Unit Cost, $/ft	Base Cost, $
13	3938	1,117	12	0.0027	0.61	12	$ 240	$ 269,000
13	3939	458	39	0.0012	17.37	42	$ 840	$ 385,000
14	3229	2,326	24	0.0010	3.77	24	$ 480	$ 1,117,000
14	3232	1,438	42	0.0010	19.36	42	$ 840	$ 1,208,000
14	3234	979	42	0.0012	22.02	42	$ 840	$ 823,000
14	3235	4,070	12	0.0030	1.14	12	$ 240	$ 977,000
14	3240	1,029	15	0.0015	1.14	15	$ 300	$ 309,000
14	3242	2,037	21	0.0010	2.41	21	$ 420	$ 856,000
14	3243	2,092	18	0.0012	1.65	18	$ 360	$ 754,000
14	3248	2,761	18	0.0012	1.74	18	$ 360	$ 994,000
14	3250	673	12	0.0031	1.25	12	$ 240	$ 162,000
14	3262	2,352	18	0.0012	1.93	18	$ 360	$ 847,000
14	3278	929	12	0.0020	0.87	12	$ 240	$ 224,000
14	3280	2,052	15	0.0015	1.52	15	$ 300	$ 616,000
14	3289	1,540	18	0.0013	2.31	18	$ 360	$ 555,000
14	3445	1,529	15	0.0015	1.32	15	$ 300	$ 459,000
14	3447	1,525	18	0.0015	1.88	18	$ 360	$ 549,000
14	3449	1,668	15	0.0015	1.24	15	$ 300	$ 501,000
14	3451	1,602	15	0.0015	1.52	15	$ 300	$ 481,000
14	3453	1,006	15	0.0015	1.09	15	$ 300	$ 302,000
14	3512	2,168	21	0.0010	3.02	21	$ 420	$ 911,000
14	3514	544	12	0.0024	1.09	12	$ 240	$ 131,000
14	3880	790	12	0.0030	1.06	12	$ 240	$ 190,000
14	3882	1,001	12	0.0020	0.71	12	$ 240	$ 241,000
14	3884	1,050	12	0.0020	0.83	12	$ 240	$ 252,000
14	3886	1,099	12	0.0020	0.59	12	$ 240	$ 264,000
14	3888	998	12	0.0020	0.75	12	$ 240	$ 240,000
14	3890	666	12	0.0020	0.93	12	$ 240	$ 160,000
14	3907	209	15	0.0015	1.15	15	$ 300	$ 63,000
14	3944	1,650	18	0.0012	2.27	18	$ 360	$ 594,000
14	3945	1,809	12	0.0020	0.79	12	$ 240	$ 435,000
14	3946	1,285	12	0.0030	1.15	12	$ 240	$ 309,000
14	3948	365	12	0.0020	0.85	12	$ 240	$ 88,000
14	3950	3,475	21	0.0010	2.58	21	$ 420	$ 1,460,000
14	3952	618	21	0.0010	2.68	21	$ 420	$ 260,000
14	3953	2,749	42	0.0010	17.44	42	$ 840	$ 2,310,000
14	3958	1,830	12	0.0020	0.72	12	$ 240	$ 440,000
14	3960	3,491	18	0.0012	2.20	18	$ 360	$ 1,257,000
14	3961	856	12	0.0020	0.72	12	$ 240	$ 206,000
14	3963	980	12	0.0020	0.69	12	$ 240	$ 236,000
14	3967	1,279	12	0.0021	1.01	12	$ 240	$ 307,000
14	3970	761	12	0.0020	0.71	12	$ 240	$ 183,000
14	3973	965	12	0.0020	0.95	12	$ 240	$ 232,000
14	4098	2,629	15	0.0015	1.42	15	$ 300	$ 789,000
14	4099	2,042	21	0.0010	2.97	21	$ 420	$ 858,000
14	4100	2,756	24	0.0010	3.96	24	$ 480	$ 1,323,000
14	4101	3,153	27	0.0010	6.04	27	$ 540	$ 1,703,000
14	4102	1,597	21	0.0010	3.13	21	$ 420	$ 671,000
14	4104	1,340	12	0.0030	1.11	12	$ 240	$ 322,000
14	4105	1,721	12	0.0030	1.11	12	$ 240	$ 414,000
14	4107	1,246	21	0.0010	2.36	21	$ 420	$ 524,000
14	4108	899	33	0.0012	11.58	33	$ 660	$ 594,000
14	4109	2,344	36	0.0011	13.83	36	$ 720	$ 1,688,000
14	4111	323	21	0.0013	3.34	21	$ 420	$ 136,000
14	4112	72	24	0.0038	8.67	24	$ 480	$ 35,000
14	4113	2,857	15	0.0015	1.54	15	$ 300	$ 858,000
14	4114	3,190	12	0.0030	1.14	12	$ 240	$ 766,000
15	2742	1,495	12	0.0020	0.93	12	$ 240	$ 359,000
15	2745	1,526	15	0.0015	1.27	15	$ 300	$ 458,000

Table F7 - Buildout Conditions - Base Costs Calculations for Future Pipes

System	G_ID	Length (ft)	Size (in)	Slope (ft/ft)	Design Flow (mgd)	Design Diameter (inches)	Unit Cost, $/ft	Base Cost, $
15	2747	1,486	18	0.0012	2.16	18	$ 360	$ 535,000
15	2749	1,226	15	0.0015	1.50	15	$ 300	$ 368,000
15	2751	1,543	21	0.0011	3.21	21	$ 420	$ 649,000
15	2753	672	24	0.0010	3.96	24	$ 480	$ 323,000
15	2755	1,752	12	0.0020	0.62	12	$ 240	$ 421,000
15	2757	1,342	15	0.0015	1.48	15	$ 300	$ 403,000
15	2760	1,332	15	0.0015	1.28	15	$ 300	$ 400,000
15	2762	1,491	21	0.0010	3.07	21	$ 420	$ 627,000
15	2763	629	27	0.0012	6.52	27	$ 540	$ 340,000
15	2813	3,942	18	0.0012	2.26	18	$ 360	$ 1,420,000
15	2829	577	12	0.0020	0.52	12	$ 240	$ 139,000
15	2831	3,250	15	0.0015	1.23	15	$ 300	$ 975,000
15	2833	2,656	15	0.0015	1.15	15	$ 300	$ 797,000
15	2836	1,801	18	0.0015	1.65	18	$ 360	$ 649,000
15	2838	938	21	0.0010	3.02	21	$ 420	$ 394,000
15	2840	1,731	39	0.0010	15.07	42	$ 840	$ 1,455,000
15	2842	1,884	39	0.0010	15.07	42	$ 840	$ 1,583,000
15	2843	820	15	0.0015	1.29	15	$ 300	$ 246,000
15	2846	3,349	36	0.0010	12.48	36	$ 720	$ 2,412,000
15	2847	1,886	15	0.0015	1.31	15	$ 300	$ 566,000
15	2849	2,729	12	0.0020	0.85	12	$ 240	$ 655,000
15	2851	3,136	12	0.0020	0.89	12	$ 240	$ 753,000
15	2853	1,793	33	0.0010	9.17	33	$ 660	$ 1,184,000
15	2856	2,598	33	0.0010	10.42	33	$ 660	$ 1,715,000
15	2857	1,109	15	0.0015	1.25	15	$ 300	$ 333,000
15	2859	2,853	12	0.0020	0.51	12	$ 240	$ 685,000
15	2861	2,171	12	0.0020	0.57	12	$ 240	$ 522,000
15	2863	2,598	12	0.0020	0.61	12	$ 240	$ 624,000
15	2865	1,576	27	0.0010	6.08	27	$ 540	$ 852,000
15	2868	659	12	0.0045	1.19	12	$ 240	$ 159,000
15	2870	672	15	0.0015	1.33	15	$ 300	$ 202,000
15	2872	2,050	12	0.0020	0.76	12	$ 240	$ 492,000
15	2874	3,188	30	0.0010	7.59	30	$ 600	$ 1,913,000
15	2875	2,402	12	0.0020	0.71	12	$ 240	$ 577,000
15	2878	794	27	0.0010	5.12	27	$ 540	$ 429,000
15	2880	1,355	27	0.0010	5.12	27	$ 540	$ 732,000
15	2881	1,133	12	0.0045	1.14	12	$ 240	$ 272,000
15	2883	1,615	12	0.0020	0.94	12	$ 240	$ 388,000
15	2886	1,837	24	0.0010	4.14	24	$ 480	$ 882,000
15	2887	1,505	12	0.0020	0.64	12	$ 240	$ 362,000
15	2890	1,106	15	0.0015	1.06	15	$ 300	$ 332,000
15	2892	2,602	21	0.0010	3.03	21	$ 420	$ 1,093,000
15	2893	1,041	18	0.0012	1.74	18	$ 360	$ 375,000
15	2895	1,687	12	0.0020	0.60	12	$ 240	$ 405,000
15	2898	1,659	15	0.0015	1.16	15	$ 300	$ 498,000
15	2906	50	21	0.0010	3.09	21	$ 420	$ 21,000
15	2907	50	30	0.0010	8.01	30	$ 600	$ 30,000
15	3473	2,718	24	0.0010	3.43	24	$ 480	$ 1,305,000
15	3476	2,856	24	0.0010	4.29	24	$ 480	$ 1,371,000
15	3477	3,976	12	0.0020	0.85	12	$ 240	$ 955,000
15	3534	988	12	0.0020	0.90	12	$ 240	$ 238,000
15	3536	1,830	12	0.0045	1.14	12	$ 240	$ 440,000
15	3538	600	12	0.0020	0.47	12	$ 240	$ 144,000
15	3540	804	12	0.0020	0.50	12	$ 240	$ 193,000
15	3548	840	12	0.0020	0.00	12	$ 240	$ 202,000
15	3557	1,387	12	0.0020	0.72	12	$ 240	$ 333,000
15	3560	999	12	0.0020	0.82	12	$ 240	$ 240,000
15	3563	1,424	12	0.0020	0.58	12	$ 240	$ 342,000
15	3565	1,499	15	0.0015	1.22	15	$ 300	$ 450,000

Table F7 - Buildout Conditions - Base Costs Calculations for Future Pipes

System	G_ID	Length (ft)	Size (in)	Slope (ft/ft)	Design Flow (mgd)	Design Diameter (inches)	Unit Cost, $/ft	Base Cost, $
15	3566	1,658	15	0.0015	0.72	15	$ 300	$ 498,000
15	3568	1,007	15	0.0015	1.33	15	$ 300	$ 303,000
15	3570	975	18	0.0012	1.53	18	$ 360	$ 351,000
15	3571	1,109	12	0.0020	0.51	12	$ 240	$ 267,000
15	3592	586	12	0.0020	0.72	12	$ 240	$ 141,000
15	3594	1,547	12	0.0020	0.72	12	$ 240	$ 372,000
15	3596	1,172	12	0.0020	0.62	12	$ 240	$ 282,000
15	3598	1,942	12	0.0045	1.49	12	$ 240	$ 467,000
15	3600	2,316	12	0.0020	0.44	12	$ 240	$ 556,000
15	3602	1,673	12	0.0020	0.71	12	$ 240	$ 402,000
15	3604	1,648	12	0.0045	1.09	12	$ 240	$ 396,000
15	3606	2,418	12	0.0020	0.69	12	$ 240	$ 581,000
15	3712	1,973	21	0.0010	2.76	21	$ 420	$ 829,000
15	3714	1,762	12	0.0020	0.87	12	$ 240	$ 423,000
15	3860	765	21	0.0010	2.58	21	$ 420	$ 322,000
15	3870	938	12	0.0020	0.50	12	$ 240	$ 226,000
15	3899	203	21	0.0010	2.59	21	$ 420	$ 86,000
15	3925	1,195	12	0.0020	0.50	12	$ 240	$ 287,000
15	3930	2,573	12	0.0020	0.01	12	$ 240	$ 618,000
15	3941	1,737	12	0.0020	0.00	12	$ 240	$ 417,000
15	3980	2,187	30	0.0010	6.49	30	$ 600	$ 1,313,000
15	3983	1,682	21	0.0010	2.67	21	$ 420	$ 707,000
15	3985	2,314	18	0.0012	1.91	18	$ 360	$ 834,000
15	3987	363	15	0.0015	1.51	15	$ 300	$ 110,000
15	3989	2,240	15	0.0015	1.30	15	$ 300	$ 673,000
15	3991	1,360	12	0.0020	1.01	12	$ 240	$ 327,000
15	3994	2,816	21	0.0010	2.43	21	$ 420	$ 1,183,000
15	3997	1,681	24	0.0010	3.76	24	$ 480	$ 808,000
15	3999	2,072	12	0.0020	0.60	12	$ 240	$ 498,000
15	4002	1,333	12	0.0020	0.40	12	$ 240	$ 321,000
15	4005	1,822	15	0.0015	1.09	15	$ 300	$ 547,000
15	4007	1,735	12	0.0020	0.81	12	$ 240	$ 417,000
15	4010	862	12	0.0020	0.49	12	$ 240	$ 207,000
15	4013	2,817	15	0.0015	1.35	15	$ 300	$ 845,000
15	4016	1,371	15	0.0016	1.58	15	$ 300	$ 412,000
15	4017	938	30	0.0010	7.71	30	$ 600	$ 563,000
15	4019	1,119	30	0.0010	7.98	30	$ 600	$ 672,000
15	4021	992	12	0.0020	0.46	12	$ 240	$ 238,000
15	4023	597	12	0.0020	0.34	12	$ 240	$ 144,000
15	4025	748	12	0.0020	0.79	12	$ 240	$ 180,000
15	4026	870	12	0.0020	0.49	12	$ 240	$ 209,000
15	4029	1,421	12	0.0020	0.82	12	$ 240	$ 341,000
15	4031	418	15	0.0015	1.08	15	$ 300	$ 126,000
15	4033	473	15	0.0015	1.18	15	$ 300	$ 142,000
15	4035	709	18	0.0012	1.92	18	$ 360	$ 256,000
15	4037	812	18	0.0012	2.08	18	$ 360	$ 293,000
15	4038	1,259	21	0.0010	2.85	21	$ 420	$ 529,000
15	4039	652	12	0.0020	0.49	12	$ 240	$ 157,000
15	4042	508	12	0.0020	0.78	12	$ 240	$ 123,000
15	4044	1,680	12	0.0020	0.92	12	$ 240	$ 404,000
15	4046	1,381	12	0.0020	0.39	12	$ 240	$ 332,000
15	4049	2,678	12	0.0020	0.47	12	$ 240	$ 643,000
15	4051	2,568	12	0.0020	0.53	12	$ 240	$ 617,000
15	4054	507	12	0.0020	0.89	12	$ 240	$ 122,000
15	4055	3,599	15	0.0015	1.18	15	$ 300	$ 1,080,000
15	4056	682	33	0.0010	10.11	33	$ 660	$ 451,000
15	4057	732	12	0.0020	0.69	12	$ 240	$ 176,000
15	4060	701	12	0.0020	0.70	12	$ 240	$ 169,000
15	4062	2,247	12	0.0020	0.50	12	$ 240	$ 540,000

Table F7 - Buildout Conditions - Base Costs Calculations for Future Pipes

System	G_ID	Length (ft)	Size (in)	Slope (ft/ft)	Design Flow (mgd)	Design Diameter (inches)	Unit Cost, $/ft	Base Cost, $
15	4064	1,384	30	0.0010	7.08	30	$ 600	$ 831,000
15	4065	1,606	30	0.0010	7.42	30	$ 600	$ 964,000
15	4066	1,405	12	0.0020	0.93	12	$ 240	$ 338,000
15	4067	1,258	21	0.0010	3.05	21	$ 420	$ 529,000
15	4068	874	15	0.0015	1.18	15	$ 300	$ 263,000
15	4069	717	15	0.0015	1.32	15	$ 300	$ 216,000
15	4070	851	12	0.0020	0.97	12	$ 240	$ 205,000
15	4071	493	12	0.0020	0.80	12	$ 240	$ 119,000
15	4073	378	24	0.0010	4.31	24	$ 480	$ 182,000
15	4086	2,163	18	0.0012	2.28	18	$ 360	$ 779,000
15	4093	1,321	12	0.0020	0.50	12	$ 240	$ 318,000
15	4116	1,441	12	0.0020	0.62	12	$ 240	$ 346,000

APPENDIX G

Wastewater Treatment Plant Calculations & Costs

FLOW AND LOADS

1. Basis of Flows and Loads

RWCF Capacity Used in Base Agreement with OMI Following Completion of ICI Projects
Ref: OMI/Thames & City Agreement, Appendix 20, Table 9.2-6

Parameter	Units	Average Day Dry Weather	Average Day Max Month	Peak Day Maximum Month	Peak Hour Wet Weather	Concentration at Average Dry Weather Flow
Flow*	mgd	40	48	78	101	
BOD	lbs/day	142,100	252,200	261,000	NA	426 mg/l
TSS	lbs/day	136,800	200,200	249,000	NA	410 mg/l
Ammonia-N	lbs/day	8,340	10,000	16,800	NA	25 mg/l

* Note: Flows listed are from agreement and are used for the purpose of determining peaking factors and concentrations. They do not reflect current values.

Peaking Factors		ADWF x	ADMM x	ADWF x
Flow	Base	1.20	1.63	2.53
BOD	Base	1.77	1.03	NA
TSS	Base	1.46	1.24	NA
Ammonia-N	Base	1.20	1.68	NA
Wet Industry	Base	1.42	2.30	2.52

2. Buildout Conditions

2035 Design Buildout Population = 580,717 **

** Per City's Background Report Stockton General Plan posted on the Stockton Planning Department website (dated December 1, 2006), the projected population for 2035 Buildout is listed as 580,717.

Parameter	Units	Per capita values		Average Day Dry Weather	Average Day Max Month	Peak Day Maximum Month	Peak Hour Wet Weather
Flow	mgd						
Domestic/Commercial		112.0	gpcd	65.0	78.0	126.8	164.1
Wet Industrial				5.0 ***	7.2	11.5	12.6
Recycle				1.0	1.1	0.9	2.5
Totals				71.0	86.3	139.2	179.2

*** Per City, assume future average day dry weather wet industry flows will not increase beyond 5.0 mgd.

BOD	lbs/day						
Domestic/Commercial		0.31	lb/cap/day	180,000	180,000	180,000	NA
Wet Industrial				24,000	62,000	24,000	NA
Recycle				-	12,000	16,000	NA
Totals				204,000	254,000	220,000	NA
				345 mg/l	*429 mg/l*	*372 mg/l*	
TSS	lbs/day						
Domestic/Commercial		0.30	lb/cap/day	174,000	174,000	183,000	NA
Wet Industrial				6,200	27,000	7,000	NA
Recycle				-	12,000	17,000	NA
Totals				180,200	213,000	207,000	NA
NOTE: PDMM/ADWF = 1.05				*304 mg/l*	*360 mg/l*	*350 mg/l*	
Ammonia-N	lbs/day						
Domestic/Commercial		25	mg/l	13,600	16,300	27,400	NA
Wet Industrial				1,000	1,200	2,000	NA
Recycle				200	200	300	NA
Totals				14,800	17,700	29,700	NA
				25 mg/l	*30 mg/l*	*50 mg/l*	

Estimated Solids Production (Existing Conditions)

Source	Basis of Estimate		Average Day Dry Weather	Average Day Max Month	Peak Day Maximum Month
Estimated Solids Quantities, lbs/day					
Primary	70%	influent TSS removed	100,200	123,200	117,600
Inter. Clarifier	0.28	lb solids/lb influent BOD [1]	46,500	60,500	51,000
DAFTs	40.0	mg/l algae in effluent	18,200	19,900	20,100
Ter Filters	20.0	mg/l TSS reduced	9,100	10,000	10,100
Total estimated production			174,000	213,600	198,800
Estimated Solids Volumes, gallons per day					
Primary	6%	solids concentration	200,200	246,200	235,000
Inter. Clarifier	4%	"	139,400	181,400	152,900
DAFTs	3%	"	72,700	79,500	80,300
Ter Filters	3%	"	36,400	40,000	40,400
Total estimated production			448,700	547,100	508,600

1. Basis of factor: 30% percent BOD reduction through primaries
   50% BOD removed in biotower
   0.80 lb TSS produced in filters/ lb BOD removed in tower

Estimated Solids Production (Buildout Conditions)

Source	Basis of Estimate		Average Day Dry Weather	Average Day Max Month	Peak Day Maximum Month
Estimated Solids Quantities, lbs/day					
Primary	70%	influent TSS removed	126,100	149,100	144,900
Inter. Clarifier	0.28	lb solids/lb influent BOD [1]	57,100	71,100	61,600
DAFTs	40.0	mg/l algae in effluent	23,700	28,800	46,400
Ter Filters	20.0	mg/l TSS reduced	11,800	14,400	23,200
Total estimated production			218,700	263,400	276,100
Estimated Solids Volumes, gallons per day					
Primary	6%	solids concentration	252,000	298,000	289,600
Inter. Clarifier	4%	"	171,200	213,100	184,700
DAFTs	3%	"	94,700	115,100	185,500
Ter Filters	3%	"	47,200	57,600	92,700
Total estimated production			565,100	683,800	752,500

1. Basis of factor: 30% percent BOD reduction through primaries
   50% BOD removed in biotower
   0.80 lb TSS produced in filters/ lb BOD removed in tower

TREATMENT PLANT COMPONENTS

Existing: Items currently in place or that will remain in service following completion of the ICI WW39 Upgrades
ICI WW39: Additional facilities to be provided by OMI-Thames in the Package A Upgrades
Add'l for Buildout: Additional facilities required to accommodate Phase 1 expansion loading conditions

Bar Screens

Existing: Climber screens, 6' channel width x 6.25' depth, 5/8" bar spacing

	Number	Capacity, mgd Unit	Total	Required
Existing:	4	35	140	
ICI WW39: None added	0	35	0	
Add'l for Buildout:	2	35	70	
Totals	6		210	179.2

Grit Channels

	Number	Capacity, mgd Unit	Total	Required
Existing: 6 Aerated Channels	6	21	126	
ICI WW39: None added	0	21	0	
Add'l for Buildout:	3	21	63	
Totals	9		189	179.2

Estimated unit size
1. Assumed detention time 3 minutes at peak flow
3.0 minutes x 21.0 mgd = 5,849 cubic feet per channel

Influent Flow Meters

	Number	Capacity, mgd Unit	Total	Required
Existing: 6 Parshall Flumes with 2' throat widths	6	17	102	
ICI WW39: None added	0	17	0	
Add'l for Buildout:	5	17	85	
Totals			187	179.2

Influent Pumps

Existing: Mixed Flow Dry Pit Pumps

Pump ID	Capacity, mgd		
1	10		
2	34		
3	34		
4	37		
ICI WW39: None added	0		
Add'l for Buildout: 5	35	117	mgd additic
6	35		
7	35		
8	12		
Total Capacity	232		
Firm Capacity	195	179.2	Required

* space only

Primary Sedimentation Tanks

1. Capacities based upon Carollo recommendation to use 1,400 gpd/SF at ADMM

		Type	Number	Dimensions	Area, sf	Capacity, mgd [1]
Existing:	Nos 1 -4	Rectangular	4	140ft x 37ft	20,720	29.0
	Nos 5 & 6	Square	2	70ft x 70ft	9,800	13.7
	Nos 7 & 8	Rectangular	2	160ft x 30ft	9,600	13.4
ICI WW39:	None added					
Add'l for Buildout:			5	160ft x 30ft	24,000	33.6
		Total				89.7
					Required capacity =	86.3

Biotower Supply and Recirculation Pumps

The following information is based on Parsons/Carollo Draft MP at which time there were only 3 biotowers. There are now 6. But no information on the added pumps has been provided.

Supply Pumps		3 mixed flow centrifugal, 24.2 mgd each - one for each biotower	
	Existing:	Total Capacity:	72.6 mgd
		Firm Capacity:	48.4 mgd
Recirculation Pumps		Type: Propeller axial flow	
	Existing:	2 at 5.2 mgd each	10.4 mgd
		2 at 10.4 mgd each	20.8 mgd
		2 at 24.2 mgd each	48.4 mgd
			79.6 mgd

Biotowers

	Number	Diameter, Ft	Depth, ft	Area, SF	Volume, 1,000 CF	Capacity, lb/day [1]
Existing:	3	166	24	64,927	1,558	171,408
	3	166	24	64,927	1,558	171,408
ICI WW39:	0	166	24	-	-	-
Add'l for Buildout:	1	166	24	21,642	519	57,136
Subtotals	7			151,497	3,636	399,952
	Required capacity [2]					355,600

1. Capacities based upon Carollo recommendation for loading of 110 ppd BOD_5/1,000 CF
2. Required BOD capacity based upon projected peak day influent BOD less 30% removal in primaries and multiplied by 2 to account for recirculation.

Intermediate Clarifiers

4 Circular clarifiers, 100' diameter, 12' SWD 31,416 square feet

	Type	Number	Dimensions	Area, sf	Capacity, mgd [1]
Existing:	Circular, 12' SWD	4	100 ft dia.	31,416	43.98
ICI WW39:	None	0		-	-
Add'l for Buildout:	Circular, 12' SWD	4	100	31,416	43.98
	Subtotals	8		62,832	87.96
				Required capacity, mgd	78.00

1. Capacities based on Carollo recommended loading rate of 1400 gpd/SF at ADMM flows.

Secondary Effluent Pump Station (SEPS)

Axial Flow Propeller Type

		Number	Unit Capacity	Total Capacity
Existing:	Lead pumps:	3	34.6 mgd	103.8 mgd
	Backup:	2	15.8 mgd	31.6 mgd
ICI WW39: None added				
Add'l for Buildout:		2	34.6 mgd	69.2 mgd
	Total Capacity			204.6 mgd
	Firm Capacity			170.0 mgd
			Required firm capacity	164.1 mgd at PHWWF

Oxidation Ponds

		Area	Volume, acre-ft
Existing:	Pond 1	190 acres	874
	Pond 2	135	1,080
	Pond 3	125	1,000
	Pond 4	180	1,800
ICI WW39: Pond 4 to be converted to wetlands		-180	(1,800)
Add'l for Buildout:			-
	Totals	450 acres	2,954
			962 MG

Pond Circulation Pumps	Number	Unit Capacity	Total Capacity
Existing:	4	60 mgd	240 mgd
ICI WW39:	0		- mgd
Add'l for Buildout:			- mgd
Totals	4		240 mgd

Wetlands

		Size, acres
Existing: None		0
ICI WW39: Pond 4 converted to constructed wetlands		180
Add'l for Build No changes		0
Totals		180

Wetlands Pump Station

	Number	Unit Capacity	Total Capacity
Existing: None			
ICI WW39:	3		- mgd
Add'l for Buildout:			
Totals	3		- mgd

Nitrifying Biotower Recycle Pumps

	Number	Unit Capacity	Total Capacity
Existing: None			
ICI WW39:	3		- mgd
Add'l for Buildout:			
Totals	3		- mgd

Nitrifying Biotowers

This process unit will be added in the ICI WW39 project for the purpose of reducing the ammonia concentration in the effluent prior to discharge. The amount of ammonia remaining following the secondary biotowers, oxidation ponds and wetlands is unknown. Develop a scaling factor to apply to projected influent ammonia loads.

10,000 = ICI WW39 project influent ADMM ammonia design loading, lbs/day
929,459 = Volume of nitrifying biotowers in ICI WW39 project, CF
10.8 = Ammonia "loading rate", lbs ammonia/1,000 CF

17,700 = ADMM influent ammonia projected at buildout conditions, lbs/day
1,638,889 = CF Required for ammonia reduction at projected buildout ADMM ammonia load, CF

	Number	Diameter, ft	Depth, ft	Area, SF	Volume, 1,000 CF
Existing:	0	166	24	-	-
ICI WW39:	2	164	22	42,248	929
Add'l for Buildout:	2	164	22	42,248	929
Totals	4			84,496	1,859

Tertiary Raw Water Pumps

Axial Flow Pumps

	Number	Unit Capacity	Total Capacity
Existing:	3	13.75 mgd	41.3 mgd
	1	20.50 mgd	20.5 mgd
ICI WW39:	0		- mgd
Add'l for Buildout:	4	23.00 mgd	92.0 mgd
Totals	8		153.8 mgd

Required capacity (max day max month) = 139.2 mgd

Dissolved Air Flotation Thickener Tanks

Design to accommodate peak day maximum month flows = 139.2 mgd
Existing units rated at 57 mgd in 1999 Draft Master Plan
Resulting unit hydraulic loading rate would then be: 1.74 gpm/SF

	Number	Diameter, ft	Area, SF	Capacity, mgd
Existing:	4	85	22,698	57.0
ICI WW39: None			-	-
Add'l for Buildout:	6	85	34,047	85.5
Totals	10		56,745	142.5

Denitrification Columns Capacity req'd = ADWF = 65.0 mgd

	Number	Area, SF	Capacity, mgd
Existing: None			
ICI WW39: None			
Add'l for Buildout:	10	10,947	71.3
Totals			71.3

Cost Development 85.5 mgd Capacity Estimated cost, $

Equipment Quote, IDI Biofor fixed film reactors					5,500,000
Equipment installation	50% of equipment cost				2,750,000
Structural Components					
Equip Room & Gallery:	4,250	SF X	$ 300.00	/SF	1,280,000
Backwash Tnk:	57,000	CF X	$ 10.00	/CF	570,000
Biofor Cells:	249,600	CF X	$ 12.00	/CF	3,000,000
Bldg Mechanical:	50% of equipment cost				2,750,000
Bldg Electrical:	0% of equipment cost (1)				-
Total Estimated cost					15,850,000

1. Electrical assumed to be included in overall allowance for E&IC

Post Aeration/Methanol Oxidation Tanks

Detention Time at Maximum Month Average Daily Flow = 20 minutes

	Number	Unit Vol, CF	Total Vol, CF
Existing: None			
ICI WW39: None			
Add'l for Buildout:	8	25,000	200,000
Totals	8		200,000
Required Volume			160,242

Length of tanks if cross section is 20' deep x 30' wide = 42 ft

Tertiary Filters

Design to accommodate peak day maximum month flows = 139.2 mgd

	Number	Area, SF Unit	Area, SF Total	Capacity, mgd	
Dual media type					
Existing:	4	1,700	6,800	56.00	[1]
ICI WW39:	2	1,700	3,400	28.00	
Add'l for Buildout:	4	1,700	6,800	56.00	
Totals			17,000	140.00	

1. Existing units rated at 56 mgd total capacity in 1999 Draft Master Plan.
   5.7 gpm/SF loading rate

Filtered Water Pumps

Design to accommodate peak day maximum month flows = 139.2 mgd

	Type	Number	Capacity, mgd Each	Capacity, mgd Total
Existing:	Fixed Speed Axial Flow	1	21.5	21.5
	Variable Speed Axial Flow	2	21.5	43.0
ICI WW39:	Existing Pumps replaced. No data on capacities			
Add'l for Buildout:	Variable Speed Axial Flow	4	22.0	88.0
	Totals			152.5

Chlorine Contact Basins Phase out and replace with UV Disinfection

If utilized, provide 30 minutes contact time at peak day max month flow

139.2 mgd = peak day max month flowrate

	Volume, MG	Capacity, MGD
Existing: Single Chlorine Contact Canal	1.13	54.24
ICI WW39: None added		0
Add'l for Buildout:		0
	1.13	54.24

Chlorinators 8,000 lb/day each 10.00 mg/l design dosage (firm)

	Number	Feed rate, lbs/day	Firm Capacity, MGD
Existing:	6	48,000	
ICI WW39: None added			
Add'l for Buildout:			
Total capacity		48,000	
Firm capacity		40,000 lbs/day or	480 MGD

UV Disinfection

UV lamps required for recently bid Lodi Tertiary project	1,408	lamps
Design peak flow for recently bid Lodi project	16.3	mgd
Unit lamp requirement (rounded to nearest lamp)	86.0	lamps/mgd
Stockton peak flow to UV disinfection (Peak day, maximum month)	139.2	mgd
UV Lamps required for Stockton	11,970	lamps

Biotower Sludge Thickeners

Gravity Settling Type	Number	Diameter, ft	Area, SF	Capacity, mgd	
Existing:	2	70	7,697	56.0	[1]

Gravity Belt Type Thickeners	Number	Width ft	Capacity, mgd
ICI WW39:	2	10	
Add'l for Buildout:		10	
Total Capacity, both types of thickeners			56.0

1. Capacity rating per Carollo, assuming use for biotower solids only.

Anaerobic Digesters

		Average Day Dry Weather	Average Day Max Month	Peak Day Maximum Month
Total solids to digesers, lbs/day		218,700	263,400	276,100
Volatile solids to digesters, lbs VSS/day	[1]	157,500	189,600	198,800
Volume to digesters, gallons/day		565,100	683,800	752,500
Firm capacity required, 1,000 gallons	[2]	9,420	11,400	12,540
Firm capacity required, 1,000 CF		1,259	1,524	1,676
Output solids quantities, lbs/day	[3]	139,950	168,600	176,700
Net percent destroyed, lbs TSS in/lbs TSS out		36%	36%	36%

1. Assumes ratio of VSS to TSS of: 0.72 Ref: 1999 Draft Master Plan
2. Based upon providing 15 days solids retention time with 90% active volume
3. Estimated percent volatile solids destruction = 50%

Provide 15 days SRT at maximum loading condition with largest unit out of service

Type	Number	Diameter, ft	Depth, ft	Volume, 1,000 CF Each	Volume, 1,000 CF Total
Existing: Floating Cover	3	100	30	235.62	707
Fixed Dome	2	110	42	399.14	798
ICI WW39: None added					-
Add'l for Buildout:	2	110	42	399.14	798
Total Capacity					2,303
Firm Capacity					1,904
Capacity required					1,676

Digested Sludge Storage & Thickening Lagoons

		Area	Volume acre-ft	Volume MG
Existing:	Pond 1	2 acres	24.0	7.8
ICI WW39: None				
Add'l for Buildout:				
Totals		2	24.0	7.8

Biosolids Dewatering (Belt Presses)

		Number	Belt width, m	Capacity, lbs/day	Reused, lbs/day
Existing:		2	2.2	31,100	105,623
ICI WW39:	None added				
Add'l for Buildout:		3	2.2	46,600	-
				77,700	105,623
			Combined total =	183,323	
			Capacity required =	168,600	

1. Capacity based on following loading assumptions.
   80 hours/week operation in maximum month = 11.4 hours/day
   620 lbs solids/m/hour proccessing rate capacity

Standby Generator

	Number	Capacity, kW
Existing:	1	1750

Estimated Construction and Total Project Costs
City of Stockton RWCF Buildout Facilities

Description	Estimated Cost, $	Add'l Units Req'd Number	Add'l Units Req'd Value	Add'l Units Req'd Units	Cost Basis ENR	Cost Basis Size	Cost Basis Units	Cost Basis Pwr Fact.	Cost Basis Unit Cost	Notes
Component Costs										
Process Treatment Systems										
Bar Screens	2,200,000	2	1	ea	7100	2	ea	0.8000	1,699,000	Ref: Vacaville EWWTP values
Grit Channels	1,430,000	3	5,849	CF ea	7100	5814	CF ea	0.6346	420,000	Ref: Vacaville EWWTP values
Influent Flow Metering	included below									
Influent Pumping	9,920,000	1	117.0	mgd	7100	155.0	mgd	0.7966	11,000,000	Ref: Salem OR values
Primary Sedimentation Basins	10,840,000	5	4,800	SF ea	7100	5,022	SF ea	0.8271	1,996,000	Ref: Vacaville EWWTP values
Biofilters and Associated Pumping Systems	6,860,000	1	519,400	CF ea	6000	200,000	CF ea	0.9430	2,089,000	Ref: Benjes
Intermediate Clarifiers	6,820,000	4	7,854	SF ea	7100	11,310	SF ea	0.8271	2,044,000	Ref: Vacaville EWWTP values
Secondary Effluent Pumping	2,700,000	1	69.2	mgd	6400	36.0	mgd	0.7966	1,284,000	Ref: Vacaville permit compliance study
Nitrifying Biotowers and Associated Pumping Systems	12,350,000	2	465,000	CF ea	6000	200,000	CF ea	0.9430	2,089,000	Ref: Benjes
Teritiary Raw Water Pumps	3,390,000	1	92.0	mgd	6400	36.0	mgd	0.7966	1,284,000	Ref: Vacaville permit compliance study
Oxidation Ponds	None	0								
Constructed Wetlands	-	1	-	acres	7100	180	acres	0.9000	2,852,240	Ref: estimimte of ICI project component
Dissolved Air Flotation Thickeners	7,010,000	6	5,675	SF ea	7100	1,256	SF ea	0.7192	350,000	Ref: Vacaville EWWTP values
Denitrification Columns	16,020,000	1	10,947	SF total	7100	13,136	SF total	0.6000	15,850,000	Ref: IDI quote & independent takeoff
Post Aeration/Methanol Oxidation Tanks	4,900,000	1	200,000	CF total	7100	673,797	CF total	0.5900	8,900,000	Ref: Vacaville EWWTP values
Tertiary Filtration and Associated Pumping Systems	32,290,000	4	14.00	mgd ea	6400	1	mgd	0.9000	600,000	Ref: Vacaville & Galt studies
UV Disinfection System	18,270,000	1	11,970	lamps	7700	1408	lamps	0.8000	3,171,300	Ref: Lodi UV analysis & bids + 10%
Solids Handling Systems										
Gravity Belt Thickeners	None									
Anaerobic Digesters	5,860,000	2	399	KCF ea	6000	50.0	KCF ea	0.6242	600,000	Ref: South SFO study
Biosolids Storage Lagoons	None			MG	7100	1.2	MG	0.5000	600,000	Ref: Vacaville EWWTP Eng'rs est
Solids Dewatering System	2,650,000	1	3	BFP units	7100	2	BFP units	0.8000	1,700,000	Ref: Vacaville EWWTP values
Other Cost Components										
River DO Improvements	None									
Combined Component Subtotal	143,510,000									
Distributed Costs										
Mobilization & Demobilization	8%	11,700,000								
Demolition	1%	1,460,000								
Sitework	5%	7,310,000								
Piping	10%	14,620,000								
Electrical and Instrumentation	20%	29,240,000								
Standby Power, Admin, & Maintenance Facilities	15%	21,930,000								
Distributed Costs Subtotal		84,670,000								
Component and Distributed Costs Subtotal		228,180,000								
Estimating Contingencies	35%	79,860,000								
Subtotal		308,040,000								
Inflation to Construction Midpoint	0%	-								
Total Estimated Construction Bid		308,040,000								
Scope increases during construction & other change orders	0%	-								
Total Estimated Construction Cost		308,040,000								
Engineering, Administration and Project Contingencies	35%	107,810,000								
TOTAL PROJECT COSTS w/o Land		415,850,000								
Property Acquisition (or Pond Conversion) Allowance		1,400,000	1	10	acres		acre		140,000	Unit cost designated by City MUD staff in October 2005.
TOTAL PROJECT COSTS		417,250,000								

NOTES
1. 8007 = 20-City Average ENR CCI for Jan 2007 as basis of costs
2. Costs for 2035 Design Buildout Population = 580,717 persons

APPENDIX H

Land Use Information By Service Area

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	39.2	44,880	0.7	2,083	-	-	-	-	-	-	-	-	-	-
2	8.6	5,760	-	-	-	-	-	-	0.6	685	-	-	-	-
3	65.0	62,880	-	-	-	-	-	-	-	-	-	-	-	-
4	72.7	34,080	-	-	-	-	-	-	-	-	0.0	0	-	-
5	-	-	-	-	-	-	-	-	-	-	0.3	336	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	24.8	30,480	12.8	40,134	-	-	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	6.5	5,520	10.4	32,664	-	-	-	-	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	119.3	151,680	-	-	-	-	-	-	-	-	-	-	-	-
21	136.0	118,560	-	-	-	-	-	-	-	-	-	-	-	-
22	107.1	102,960	-	-	-	-	-	-	-	-	1.3	1,481	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	0.0	7	-	-
29	60.4	47,760	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	4.1	3,600	-	-	-	-	-	-	-	-	-	-	-	-
32	71.5	82,800	23.8	74,892	-	-	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-	-	0.0	41	-	-
35	103.9	91,200	0.4	1,280	-	-	-	-	-	-	-	-	-	-
36	140.8	141,840	34.9	109,761	-	-	-	-	-	-	-	-	-	-
37	119.5	126,000	28.7	90,228	-	-	-	-	-	-	0.4	444	-	-
38	45.6	13,200	0.0	64	-	-	-	-	-	-	-	-	-	-
39	75.8	85,200	13.6	42,801	-	-	-	-	-	-	0.6	624	-	-
40	32.8	37,440	-	-	-	-	-	-	-	-	-	-	-	-
41	1.1	480	-	-	-	-	-	-	-	-	0.4	476	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	1.4	-	1.4	4,546	-	-	-	-	-	-	-	-	-	-
44	103.0	126,480	0.1	314	-	-	-	-	-	-	-	-	-	-
45	102.4	83,280	-	-	0.2	1,184	-	-	-	-	4.7	5,182	-	-
49	21.7	35,520	-	-	-	-	-	-	-	-	-	-	-	-
50	71.1	71,760	24.1	75,874	-	-	-	-	-	-	-	-	-	-
51	137.1	168,000	54.0	169,726	-	-	-	-	-	-	-	-	-	-
52	30.2	36,000	1.6	5,112	-	-	-	-	-	-	0.1	65	-	-
53	50.3	38,880	0.2	625	-	-	-	-	-	-	7.5	8,287	-	-
55	125.6	114,960	-	-	3.2	17,664	-	-	-	-	0.1	112	-	-
56	127.8	163,680	16.0	50,216	-	-	-	-	-	-	2.0	2,199	-	-
57	39.2	56,640	30.7	96,623	-	-	-	-	-	-	-	-	-	-
58	81.0	95,280	10.9	34,203	-	-	-	-	-	-	0.2	233	-	-
59	107.5	114,480	31.4	98,702	-	-	-	-	1.0	1,082	0.7	772	-	-
60	23.6	14,400	8.1	25,565	-	-	-	-	5.0	5,474	8.2	9,045	-	-
62	107.5	127,200	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
63	41.4	61,680	-	-	0.0	5	-	-	-	-	-	-	-	-
64	66.5	66,720	6.2	19,469	0.0	0	-	-	-	-	-	-	-	-
65	77.0	87,120	23.3	73,216	7.4	41,481	-	-	-	-	6.3	6,912	-	-
66	64.1	17,520	-	-	-	-	-	-	-	-	7.3	8,005	-	-
67	-	-	0.1	157	-	-	-	-	8.4	9,230	7.1	7,778	-	-
68	90.7	73,200	0.1	265	-	-	-	-	-	-	-	-	-	-
69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70	0.4	-	52.7	165,688	6.9	38,381	-	-	-	-	7.2	7,900	8.1	11,277
71	11.1	9,600	3.0	9,301	-	-	-	-	-	-	2.5	2,701	-	-
72	63.8	8,400	0.4	1,102	-	-	-	-	-	-	-	-	-	-
73	45.3	44,400	1.1	3,509	-	-	-	-	-	-	-	-	-	-
75	72.5	87,360	13.3	41,932	-	-	-	-	-	-	-	-	14.3	19,976
77	82.6	89,040	13.5	42,355	0.0	262	-	-	-	-	4.9	5,343	-	-
78	87.5	59,280	0.6	2,043	-	-	-	-	-	-	8.9	9,834	-	-
79	67.2	109,680	-	-	-	-	-	-	-	-	1.1	1,180	-	-
80	103.7	130,800	-	-	-	-	-	-	-	-	46.6	51,282	0.9	1,305
81	117.7	133,920	10.2	31,958	1.9	10,782	-	-	1.1	1,254	13.6	15,012	-	-
82	66.5	86,400	19.0	59,705	-	-	-	-	0.5	528	32.5	35,780	-	-
83	12.6	20,880	22.3	70,094	-	-	-	-	4.2	4,618	-	-	-	-
84	55.8	62,880	21.2	66,496	19.9	110,991	-	-	-	-	0.1	86	-	-
85	65.4	71,280	15.0	47,192	8.8	49,229	-	-	-	-	1.5	1,623	-	-
86	54.2	22,800	-	-	-	-	-	-	-	-	89.4	98,350	-	-
87	12.4	16,800	4.7	14,725	4.0	22,013	-	-	0.3	290	8.2	9,061	-	-
88	-	-	-	-	-	-	-	-	-	-	-	-	-	-
91	47.7	50,400	24.6	77,221	1.5	8,318	-	-	11.8	12,986	15.0	16,464	-	-
92	83.4	85,680	35.1	110,471	-	-	-	-	-	-	15.5	17,044	-	-
93	46.6	58,800	0.6	1,942	-	-	-	-	-	-	-	-	-	-
94	-	-	-	-	-	-	-	-	-	-	58.5	64,360	1.2	1,742
95	43.1	2,160	2.0	6,386	0.2	1,326	-	-	-	-	18.6	20,409	-	-
96	95.8	108,960	29.9	93,891	9.1	50,810	-	-	4.7	5,197	34.1	37,519	-	-
97	61.1	64,800	14.9	46,772	17.7	98,309	-	-	-	-	-	-	-	-
98	0.0	240	-	-	-	-	-	-	-	-	2.8	3,096	-	-
99	7.3	8,160	-	-	-	-	-	-	-	-	68.2	73,045	15.1	21,140
100	35.8	40,800	31.2	98,184	-	-	-	-	-	-	0.0	0	5.9	8,258
101	62.8	93,600	3.1	9,749	0.0	78	-	-	-	-	67.8	74,634	2.2	3,100
102	45.2	12,000	5.2	16,226	1.0	5,603	-	-	-	-	6.2	6,766	-	-
103	0.9	2,160	0.0	91	-	-	-	-	-	-	0.0	21	-	-
104	23.4	3,360	0.0	38	-	-	-	-	10.4	11,410	9.8	10,739	16.8	23,456
106	98.8	116,400	0.0	133	-	-	-	-	-	-	0.8	897	-	-
107	46.6	63,840	-	-	4.5	24,974	-	-	0.7	734	17.9	19,728	-	-
109	66.1	57,120	-	-	-	-	-	-	-	-	-	-	-	-
110	80.2	83,280	0.2	717	4.1	22,888	-	-	2.7	2,996	0.0	26	-	-
111	73.1	61,200	-	-	-	-	-	-	-	-	-	-	-	-
112	25.5	21,840	45.7	143,608	4.6	25,848	-	-	-	-	10.8	11,831	-	-
113	37.0	46,080	2.5	7,790	-	-	-	-	-	-	-	-	-	-
114	108.1	1,200	-	-	0.3	1,656	-	-	-	-	37.6	41,375	-	-
115	4.0	1,440	4.2	13,204	17.3	96,126	-	-	10.2	11,205	35.0	38,540	-	-
116	64.7	76,080	5.6	17,639	-	-	-	-	-	-	-	-	-	-
117	82.2	101,520	1.7	5,192	-	-	-	-	4.8	5,253	12.8	14,066	-	-
118	47.3	65,280	36.1	113,522	0.0	4	-	-	-	-	-	-	-	-
120	20.7	24,240	0.1	169	6.1	33,732	-	-	-	-	-	-	-	-
121	171.0	182,640	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
122	1.2	-	9.8	30,869	11.1	61,667	-	-	3.4	3,736	19.1	21,028	-	-
123	0.0	480	-	-	3.2	18,062	-	-	-	-	2.3	2,520	-	-
124	25.1	24,000	7.1	22,444	-	-	-	-	-	-	9.4	10,347	-	-
125	47.1	1,680	-	-	0.0	80	-	-	-	-	0.1	93	-	-
126	32.1	38,400	0.0	2	-	-	-	-	1.1	1,181	-	-	-	-
127	-	-	-	-	0.0	196	-	-	-	-	-	-	3.4	4,786
128	5.7	240	23.3	73,151	26.6	148,073	-	-	-	-	11.3	12,474	-	-
129	2.2	1,920	4.3	13,608	23.4	130,456	-	-	0.1	63	-	-	-	-
130	112.6	5,040	2.6	8,183	0.0	9	-	-	-	-	2.1	2,364	-	-
131	17.2	13,680	-	-	3.8	21,301	-	-	-	-	2.2	2,375	-	-
132	33.5	35,760	0.5	1,549	0.6	3,328	-	-	-	-	-	-	-	-
133	0.0	240	-	-	13.9	77,188	-	-	-	-	0.8	906	-	-
134	25.1	21,840	0.2	514	-	-	-	-	-	-	3.9	4,336	-	-
135	40.5	38,880	0.7	2,134	-	-	-	-	-	-	-	-	-	-
136	26.9	19,200	2.0	6,438	9.4	52,235	-	-	0.4	464	-	-	-	-
137	52.0	-	0.5	1,488	-	-	-	-	-	-	-	-	-	-
138	44.3	46,320	1.9	6,068	-	-	-	-	-	-	-	-	-	-
139	3.8	240	-	-	-	-	-	-	-	-	-	-	-	-
140	35.1	27,120	-	-	3.0	16,595	-	-	-	-	5.1	5,577	-	-
141	63.8	240	-	-	-	-	-	-	-	-	-	-	-	-
142	-	-	-	-	-	-	-	-	-	-	0.0	2	2.2	3,036
143	0.0	1,920	-	-	0.0	1	-	-	11.3	12,378	26.1	28,703	-	-
144	73.1	84,480	6.3	19,903	3.0	16,972	-	-	12.1	13,262	55.2	60,758	-	-
145	0.0	2,640	-	-	21.7	120,614	-	-	19.1	20,966	23.5	25,883	-	-
146	7.9	2,160	1.7	5,244	6.3	34,969	-	-	-	-	31.7	34,893	-	-
147	63.8	52,560	-	-	-	-	-	-	-	-	-	-	-	-
148	-	-	-	-	-	-	-	-	-	-	-	-	-	-
149	40.2	60,240	8.1	25,337	0.5	2,996	-	-	-	-	8.1	8,930	-	-
150	73.2	75,360	14.5	45,544	0.0	180	-	-	-	-	0.3	347	-	-
151	2.8	480	37.4	117,619	0.1	759	-	-	8.5	9,348	0.7	760	-	-
152	0.2	240	-	-	-	-	-	-	-	-	-	-	-	-
153	-	-	-	-	-	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	0.4	414	0.8	868	-	-
155	2.2	-	-	-	-	-	-	-	1.1	1,221	6.3	6,877	-	-
156	77.1	66,480	23.7	74,445	0.0	2	-	-	-	-	-	-	-	-
157	132.1	138,240	0.8	2,586	0.3	1,612	-	-	-	-	-	-	-	-
158	1.8	-	-	-	-	-	-	-	19.3	21,240	10.4	11,471	-	-
159	-	-	-	-	-	-	-	-	-	-	-	-	-	-
160	11.6	9,600	2.6	8,028	58.3	324,743	-	-	-	-	2.3	2,513	-	-
161	4.1	720	-	-	-	-	-	-	-	-	53.6	58,992	-	-
162	32.2	30,720	3.8	11,962	-	-	-	-	-	-	-	-	-	-
163	1.0	1,200	0.3	920	42.2	235,133	-	-	-	-	-	-	-	-
164	72.8	68,640	1.7	5,388	22.2	123,360	-	-	-	-	-	-	-	-
165	40.1	44,160	0.0	58	19.7	109,800	-	-	10.1	11,092	11.4	12,510	-	-
166	37.6	42,480	6.5	20,355	6.6	36,560	-	-	24.5	26,912	0.0	20	-	-
167	4.3	3,840	0.1	180	5.4	30,131	-	-	-	-	-	-	-	-
168	80.6	72,240	-	-	-	-	-	-	-	-	-	-	-	-
169	51.2	45,120	-	-	0.1	710	-	-	-	-	0.0	32	85.9	120,237
170	53.7	49,920	0.1	325	22.2	123,549	-	-	-	-	0.0	4	-	-
171	69.7	96,960	0.0	0	-	-	-	-	7.8	8,591	-	-	-	-
172	0.1	-	-	-	3.5	19,426	-	-	4.6	5,044	43.4	47,685	-	-
173	42.9	60,480	-	-	13.7	76,304	-	-	-	-	0.3	280	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
174	0.1	-	-	-	-	-	-	-	-	-	0.5	576	36.9	51,661
175	61.0	74,880	-	-	2.5	14,179	-	-	-	-	-	-	-	-
176	-	-	-	-	-	-	-	-	-	-	39.5	43,424	0.2	245
177	23.7	24,480	-	-	-	-	-	-	10.2	11,203	67.4	74,186	-	-
178	5.8	6,960	1.0	3,012	38.8	216,226	-	-	34.9	38,348	23.7	26,095	-	-
179	14.3	16,080	30.1	94,503	0.0	203	-	-	7.7	8,431	15.1	16,641	-	-
180	46.8	53,760	-	-	-	-	-	-	1.0	1,112	9.7	10,705	-	-
181	66.7	95,760	-	-	-	-	-	-	-	-	-	-	-	-
182	-	-	-	-	-	-	-	-	-	-	32.5	35,733	1.7	2,410
183	89.3	99,600	-	-	-	-	-	-	-	-	15.3	16,796	1.0	1,387
184	0.0	-	4.6	14,541	9.8	54,804	-	-	4.0	4,415	12.8	14,088	-	-
185	58.7	76,560	-	-	-	-	-	-	-	-	5.0	5,478	-	-
186	-	-	-	-	-	-	-	-	-	-	24.2	26,572	-	-
187	84.7	72,240	22.9	72,009	14.3	79,360	-	-	18.9	20,802	12.3	13,579	-	-
188	69.9	61,200	0.1	264	4.4	24,656	-	-	-	-	-	-	-	-
189	97.9	92,400	-	-	-	-	-	-	-	-	-	-	-	-
190	1.5	1,440	-	-	-	-	-	-	37.3	41,029	9.2	10,164	-	-
191	16.1	18,480	6.1	19,031	9.8	54,629	-	-	-	-	0.0	11	-	-
192	21.8	17,520	-	-	-	-	-	-	-	-	-	-	-	-
193	33.4	32,400	-	-	-	-	-	-	1.1	1,160	12.1	13,364	-	-
194	29.7	45,600	1.4	4,364	-	-	-	-	-	-	4.8	5,240	-	-
195	63.7	51,120	-	-	-	-	-	-	0.8	914	4.3	4,684	-	-
196	11.9	14,880	0.7	2,322	-	-	-	-	0.5	560	-	-	7.8	10,950
197	70.5	54,480	-	-	-	-	-	-	-	-	29.9	32,853	37.6	52,683
198	59.3	42,480	-	-	-	-	-	-	-	-	0.0	17	-	-
199	45.5	68,640	24.9	78,303	-	-	-	-	12.8	14,096	-	-	-	-
200	27.5	40,080	9.3	29,295	-	-	-	-	-	-	0.3	358	-	-
201	146.2	131,040	-	-	-	-	-	-	-	-	0.5	556	-	-
202	140.5	178,800	3.3	10,394	7.2	39,931	-	-	4.7	5,212	9.6	10,527	-	-
203	6.8	-	-	-	-	-	-	-	-	-	-	-	-	-
204	59.5	54,480	-	-	-	-	-	-	-	-	-	-	-	-
205	102.5	98,640	-	-	-	-	-	-	-	-	-	-	-	-
206	37.8	23,280	-	-	-	-	-	-	-	-	-	-	-	-
207	59.8	44,640	0.5	1,519	-	-	-	-	-	-	-	-	-	-
208	119.1	114,000	-	-	-	-	-	-	-	-	5.7	6,309	-	-
209	103.2	106,800	-	-	-	-	-	-	-	-	24.1	26,517	9.2	12,940
210	126.7	85,920	-	-	-	-	-	-	-	-	-	-	-	-
211	-	-	-	-	-	-	-	-	-	-	-	-	-	-
212	7.1	12,720	41.3	129,816	-	-	-	-	14.6	16,006	3.4	3,700	-	-
213	48.4	70,080	35.3	110,986	-	-	-	-	4.0	4,357	16.9	18,595	-	-
214	73.4	74,160	0.5	1,683	-	-	-	-	-	-	13.8	15,152	21.0	29,431
215	51.2	38,880	-	-	-	-	-	-	-	-	-	-	-	-
216	88.8	80,400	-	-	-	-	-	-	-	-	-	-	-	-
217	110.7	74,160	-	-	-	-	-	-	-	-	16.4	17,998	22.2	31,063
218	124.3	115,920	-	-	-	-	-	-	-	-	-	-	-	-
219	68.6	68,160	0.0	0	-	-	-	-	-	-	-	-	-	-
220	12.6	13,920	2.1	6,725	-	-	-	-	-	-	8.7	9,515	-	-
221	0.1	-	-	-	-	-	-	-	-	-	-	-	86.0	120,376
222	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	84.4	47,280	-	-	-	-	-	-	-	-	-	-	-	-
224	18.5	19,920	7.6	24,021	-	-	-	-	0.1	87	0.0	54	-	-
225	33.8	30,960	1.0	3,115	-	-	-	-	-	-	-	-	1.8	2,477

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
226	45.0	39,840	-	-	-	-	-	-	-	-	1.4	1,549	-	-
227	67.6	79,200	-	-	-	-	-	-	-	-	3.3	3,663	-	-
228	92.1	83,760	0.2	661	-	-	-	-	-	-	-	-	0.6	776
229	45.1	52,560	3.1	9,752	-	-	-	-	-	-	33.5	36,899	11.6	16,226
230	4.7	5,760	-	-	-	-	-	-	-	-	-	-	-	-
232	16.9	25,920	5.4	17,133	-	-	-	-	4.6	5,084	1.8	1,988	-	-
233	123.6	127,680	-	-	-	-	-	-	-	-	-	-	0.1	107
234	0.4	-	-	-	-	-	-	-	-	-	-	-	0.2	241
235	0.6	-	-	-	-	-	-	-	-	-	1.8	1,943	-	-
236	1.4	1,920	-	-	-	-	-	-	-	-	-	-	-	-
237	34.9	36,480	-	-	-	-	-	-	0.2	169	-	-	-	-
238	30.2	18,000	-	-	-	-	-	-	-	-	4.2	4,612	15.8	22,167
239	34.1	34,080	-	-	19.6	109,120	-	-	28.8	31,721	24.5	26,975	-	-
240	47.7	27,120	-	-	-	-	-	-	-	-	-	-	-	-
241	6.3	5,760	1.0	3,027	16.1	89,700	-	-	-	-	-	-	-	-
243	106.6	119,520	-	-	-	-	-	-	-	-	7.3	8,047	13.5	18,962
244	43.8	49,920	1.3	4,001	4.9	27,536	-	-	4.6	5,020	4.3	4,675	-	-
245	3.2	1,680	-	-	-	-	-	-	-	-	-	-	-	-
246	45.4	74,880	3.5	11,076	0.0	13	-	-	-	-	-	-	-	-
247	40.3	45,840	6.2	19,563	-	-	-	-	-	-	4.1	4,528	9.1	12,770
248	61.6	83,040	-	-	-	-	-	-	-	-	-	-	-	-
249	37.6	49,440	-	-	-	-	-	-	-	-	-	-	-	-
250	1.1	240	19.0	59,729	20.7	115,185	-	-	-	-	20.0	22,001	9.3	13,051
251	61.0	66,240	-	-	-	-	-	-	-	-	-	-	-	-
252	72.2	82,320	-	-	-	-	-	-	-	-	-	-	-	-
253	1.1	2,160	0.2	538	-	-	-	-	-	-	-	-	39.9	55,907
254	21.5	26,640	-	-	-	-	-	-	-	-	-	-	-	-
255	0.7	1,440	11.5	36,011	-	-	-	-	-	-	-	-	6.4	8,926
256	60.9	50,880	-	-	-	-	-	-	-	-	-	-	18.1	25,375
257	24.0	28,320	-	-	1.9	10,788	-	-	8.5	9,402	-	-	-	-
258	63.0	49,920	0.1	205	0.0	207	-	-	-	-	0.3	366	-	-
259	0.2	240	10.6	33,430	-	-	-	-	-	-	1.2	1,365	21.2	29,727
260	11.1	1,200	-	-	-	-	-	-	-	-	8.1	8,873	-	-
261	61.4	75,120	-	-	-	-	-	-	-	-	0.9	991	-	-
262	35.5	47,520	2.3	7,293	-	-	-	-	-	-	-	-	-	-
263	2.4	2,880	-	-	-	-	-	-	-	-	-	-	-	-
264	40.4	39,120	-	-	-	-	-	-	-	-	-	-	-	-
265	70.3	59,280	-	-	-	-	-	-	-	-	7.1	7,816	-	-
266	33.3	32,880	-	-	13.0	72,422	-	-	8.0	8,747	2.5	2,765	-	-
267	30.9	31,680	-	-	3.0	16,736	-	-	-	-	-	-	6.8	9,571
268	39.5	50,880	4.6	14,619	-	-	-	-	0.4	386	1.8	2,016	-	-
269	-	-	1.7	5,266	-	-	-	-	-	-	-	-	3.8	5,360
270	27.0	23,520	30.1	94,508	14.5	80,914	-	-	-	-	4.1	4,505	12.7	11,327
271	23.0	2,400	15.7	49,287	0.6	3,262	-	-	-	-	-	-	27.0	37,859
272	20.3	6,240	-	-	-	-	-	-	-	-	-	-	-	-
273	20.8	29,520	-	-	-	-	-	-	-	-	-	-	-	-
274	-	-	-	-	-	-	-	-	-	-	0.0	4	-	-
275	29.7	34,320	0.5	1,496	-	-	-	-	-	-	-	-	-	-
276	38.3	46,560	13.7	42,963	4.9	27,248	-	-	-	-	4.7	5,168	-	-
277	15.2	16,320	-	-	-	-	-	-	-	-	1.9	2,106	-	-
278	1.1	2,400	-	-	6.1	34,242	-	-	0.6	651	33.1	36,440	-	-
279	14.2	19,680	4.1	12,907	-	-	-	-	-	-	5.6	6,174	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
280	0.1	-	1.3	4,237	-	-	-	-	-	-	3.3	3,661	2.1	2,936
281	32.4	31,440	-	-	-	-	-	-	-	-	5.5	6,037	-	-
282	21.4	25,920	9.3	29,283	-	-	-	-	-	-	8.6	9,434	-	-
284	45.0	480	-	-	-	-	-	-	-	-	3.7	4,070	-	-
285	5.1	7,440	0.5	1,585	7.5	42,033	-	-	-	-	2.7	2,956	-	-
286	14.9	15,600	8.2	25,657	-	-	-	-	-	-	1.9	2,046	-	-
287	-	-	-	-	-	-	-	-	-	-	29.3	32,196	-	-
288	34.8	50,160	14.3	44,852	-	-	-	-	-	-	5.2	5,749	0.1	100
289	22.1	24,000	2.9	9,208	-	-	-	-	-	-	3.2	3,558	0.0	22
290	67.4	70,560	-	-	-	-	-	-	-	-	18.4	20,238	-	-
291	81.1	66,240	-	-	-	-	-	-	-	-	17.3	19,051	-	-
292	22.5	24,240	5.6	17,539	-	-	-	-	-	-	-	-	0.1	102
293	-	-	-	-	-	-	-	-	-	-	26.3	28,978	5.1	7,196
294	-	-	-	-	-	-	-	-	-	-	-	-	23.0	32,263
295	-	-	-	-	27.3	152,018	-	-	-	-	11.5	12,647	-	-
296	0.2	240	9.3	29,347	-	-	-	-	-	-	2.8	3,067	0.0	7
297	-	-	-	-	-	-	-	-	6.4	7,034	-	-	-	-
298	8.6	1,680	0.1	180	-	-	-	-	-	-	12.8	14,127	54.4	76,152
299	22.1	20,880	-	-	2.9	16,360	-	-	-	-	3.8	4,131	20.0	28,041
300	-	-	-	-	-	-	-	-	-	-	20.3	22,314	-	-
301	45.3	2,400	-	-	-	-	-	-	-	-	-	-	-	-
302	55.8	43,200	-	-	-	-	-	-	-	-	-	-	-	-
303	78.7	52,800	-	-	-	-	-	-	-	-	-	-	13.6	19,044
304	8.7	960	27.6	86,770	-	-	-	-	-	-	4.4	4,851	1.8	2,581
305	40.2	21,840	-	-	-	-	-	-	-	-	-	-	-	-
306	9.7	3,120	12.7	39,811	-	-	-	-	-	-	5.8	6,332	11.2	15,741
307	96.8	58,560	-	-	-	-	-	-	-	-	-	-	-	-
308	-	-	-	-	-	-	-	-	-	-	-	-	135.3	189,410
309	-	-	-	-	-	-	-	-	-	-	-	-	107.0	149,802
310	0.0	240	-	-	-	-	-	-	-	-	0.4	482	37.7	52,805
311	27.0	39,600	3.9	12,342	-	-	-	-	-	-	-	-	-	-
312	36.6	35,280	1.6	4,944	-	-	-	-	-	-	18.4	20,256	-	-
313	38.9	44,160	0.6	1,995	-	-	-	-	-	-	9.0	9,946	12.7	17,741
314	62.9	61,200	-	-	-	-	-	-	-	-	30.7	33,793	0.2	343
315	0.2	240	-	-	-	-	-	-	-	-	7.4	11	1.3	24
316	28.1	31,680	4.3	13,508	-	-	-	-	-	-	-	-	-	-
317	-	-	-	-	-	-	-	-	-	-	-	-	3.5	4,187
318	0.0	-	-	-	-	-	-	-	-	-	-	-	0.0	-
319	35.5	37,680	10.4	32,007	-	-	-	-	-	-	18.0	19,767	5.4	7,503
321	0.1	-	-	-	-	-	-	-	-	-	-	-	38.9	54,511
322	55.1	42,480	0.7	2,250	-	-	-	-	-	-	0.3	353	-	-
323	38.4	29,760	-	-	-	-	-	-	-	-	1.1	1,223	-	-
324	0.3	240	-	-	-	-	-	-	-	-	-	-	2.9	4,110
325	0.1	-	-	-	-	-	-	-	-	-	-	-	118.5	-
326	54.4	58,560	-	-	-	-	-	-	-	-	15.2	16,675	-	-
327	0.0	-	-	-	-	-	-	-	-	-	-	-	29.3	36,835
328	-	-	-	-	-	-	-	-	-	-	17.3	19,034	3.8	5,328
329	-	-	-	-	-	-	-	-	-	-	0.2	189	23.9	33,422
330	29.6	44,400	0.2	777	-	-	-	-	-	-	16.8	18,474	-	-
331	62.3	67,200	-	-	-	-	-	-	-	-	9.6	10,588	-	-
332	4.6	5,040	-	-	-	-	-	-	-	-	10.8	11,917	-	-
333	-	-	-	-	-	-	-	-	-	-	-	-	69.0	96,589

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
334	-	-	-	-	-	-	-	-	-	-	-	-	18.0	25,244
335	-	-	-	-	-	-	-	-	-	-	-	-	14.1	19,740
336	5.1	2,880	-	-	-	-	-	-	-	-	39.6	42,843	4.3	6,056
337	39.3	25,680	-	-	-	-	-	-	-	-	-	-	12.3	17,159
338	37.0	-	4.1	-	-	-	-	-	-	-	2.3	-	-	-
339	-	-	-	-	-	-	-	-	-	-	-	-	6.2	8,722
340	0.1	-	-	-	-	-	-	-	-	-	0.3	-	8.0	-
341	20.4	-	0.7	-	0.4	-	-	-	-	-	10.2	1,258	3.8	6
342	27.3	34,560	-	-	-	-	-	-	-	-	5.7	6,304	-	-
343	0.0	-	0.0	-	6.8	-	-	-	-	-	-	-	-	-
344	24.2	15,120	-	-	-	-	-	-	-	-	-	-	-	-
345	24.8	25,200	-	-	-	-	-	-	-	-	-	-	-	-
346	11.2	240	-	-	-	-	-	-	-	-	-	-	27.8	38,308
347	121.5	125,280	4.0	12,542	0.0	12	-	-	-	-	7.0	6,956	-	-
348	23.6	8,160	-	-	-	-	-	-	-	-	-	-	-	-
349	45.3	46,560	-	-	-	-	-	-	-	-	0.0	43	-	-
350	30.7	-	0.1	-	-	-	-	-	-	-	-	-	-	-
351	-	-	-	-	-	-	-	-	-	-	1.0	-	16.9	-
352	14.9	12,240	-	-	-	-	-	-	-	-	0.6	214	-	-
353	2.5	3,120	-	-	-	-	-	-	-	-	0.7	773	18.3	22,952
354	61.8	-	0.3	-	-	-	-	-	-	-	-	-	-	-
355	22.6	480	0.1	-	-	-	-	-	-	-	1.3	-	-	-
356	29.5	-	-	-	-	-	-	-	-	-	1.1	-	-	-
357	1.9	240	-	-	-	-	-	-	-	-	-	-	0.1	-
358	10.1	8,160	-	-	-	-	-	-	-	-	3.2	-	-	-
359	12.7	-	0.2	-	-	-	-	-	-	-	28.1	-	-	-
360	52.2	480	0.9	-	-	-	-	-	-	-	5.9	529	-	-
361	2.2	-	-	-	-	-	-	-	-	-	2.7	-	3.5	-
362	3.7	-	25.8	-	-	-	-	-	-	-	1.6	-	-	-
363	0.1	-	-	-	-	-	-	-	-	-	-	-	0.6	-
364	-	-	-	-	-	-	-	-	-	-	-	-	7.0	2,989
365	33.1	48,960	-	-	-	-	-	-	-	-	-	-	0.0	0
366	29.0	43,680	-	-	-	-	-	-	-	-	-	-	0.1	75
367	21.7	-	-	-	-	-	-	-	-	-	-	-	-	-
368	11.5	1,200	-	-	-	-	-	-	-	-	-	-	-	-
369	63.4	4,800	0.8	-	-	-	-	-	-	-	-	-	-	-
370	45.6	480	-	-	-	-	-	-	-	-	2.7	1,213	-	-
371	1.1	-	-	-	8.4	46,870	-	-	-	-	13.4	14,056	-	-
372	9.1	-	-	-	-	-	-	-	-	-	1.1	-	16.1	-
373	39.8	-	-	-	-	-	-	-	-	-	-	-	-	-
374	0.4	-	25.8	-	-	-	-	-	-	-	0.3	-	-	-
375	80.5	-	2.6	-	-	-	-	-	-	-	3.8	-	-	-
376	-	-	-	-	-	-	-	-	-	-	-	-	3.7	3,657
377	51.8	-	0.2	-	-	-	-	-	-	-	0.0	-	-	-
378	28.7	44,640	-	-	-	-	-	-	-	-	-	-	-	-
380	1.8	4,080	-	-	-	-	-	-	-	-	-	-	-	-
381	7.2	9,360	-	-	-	-	-	-	-	-	-	-	-	-
382	15.5	25,680	-	-	-	-	-	-	-	-	-	-	-	-
383	9.1	18,240	-	-	-	-	-	-	-	-	-	-	-	-
385	21.7	41,040	-	-	-	-	-	-	-	-	-	-	-	-
386	8.0	16,080	-	-	-	-	-	-	-	-	-	-	-	-
387	-	-	-	-	-	-	-	-	-	-	0.5	590	1.1	1,514

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
388	28.1	-	-	-	-	-	-	-	-	-	-	-	0.0	2
389	26.6	-	-	-	-	-	-	-	-	-	1.0	-	-	-
390	12.2	-	-	-	-	-	-	-	-	-	-	-	1.2	-
391	-	-	-	-	-	-	-	-	-	-	-	-	27.7	-
392	1.6	-	-	-	-	-	-	-	-	-	1.6	1,795	-	-
393	77.3	-	-	-	-	-	-	-	-	-	-	-	0.0	14
394	28.4	48,960	-	-	-	-	-	-	-	-	-	-	-	-
395	6.1	-	0.3	-	-	-	-	-	-	-	-	-	-	-
396	27.5	-	-	-	-	-	-	-	-	-	0.0	-	1.5	22
397	0.3	-	0.0	-	-	-	-	-	-	-	-	-	-	-
398	20.4	31,440	-	-	-	-	-	-	-	-	-	-	-	-
399	8.6	17,280	-	-	-	-	-	-	-	-	-	-	-	-
400	20.7	-	-	-	-	-	-	-	-	-	-	-	-	-
401	33.4	-	-	-	-	-	-	-	-	-	-	-	-	-
402	-	-	-	-	-	-	-	-	-	-	-	-	-	-
403	39.8	1,680	-	-	-	-	-	-	-	-	-	-	-	-
404	160.8	215,040	0.9	2,929	-	-	-	-	-	-	3.3	3,616	0.1	131
405	1.7	5,040	0.0	-	-	-	-	-	-	-	0.1	-	-	-
406	-	-	-	-	-	-	-	-	-	-	-	-	-	-
408	0.0	-	-	-	-	-	-	-	-	-	0.0	1	13.0	18,170
409	-	-	-	-	-	-	-	-	-	-	-	-	67.0	93,833
410	0.3	-	-	-	-	-	-	-	-	-	2.5	-	-	-
411	-	-	-	-	-	-	-	-	-	-	-	-	15.5	-
412	20.9	-	-	-	-	-	-	-	-	-	0.1	-	1.2	-
413	13.9	-	-	-	-	-	-	-	-	-	22.7	-	-	-
414	-	-	-	-	-	-	-	-	-	-	-	-	46.4	-
415	37.1	42,960	-	-	-	-	-	-	-	-	-	-	-	-
416	35.2	42,240	-	-	-	-	-	-	-	-	-	-	-	-
417	39.7	48,000	-	-	-	-	-	-	-	-	-	-	-	-
418	-	-	-	-	-	-	-	-	-	-	-	-	3.0	-
419	29.8	30,960	-	-	-	-	-	-	-	-	-	-	-	-
420	29.8	-	-	-	-	-	-	-	-	-	6.6	21	0.4	14
421	0.0	-	-	-	-	-	-	-	-	-	-	-	48.1	67,393
422	2.2	960	-	-	-	-	-	-	-	-	0.5	530	51.1	71,483
423	34.1	-	-	-	-	-	-	-	-	-	2.9	3	-	-
424	0.0	240	-	-	-	-	-	-	-	-	-	-	55.6	77,854
425	42.0	51,600	-	-	-	-	-	-	-	-	-	-	-	-
426	23.0	33,360	-	-	1.7	9,208	-	-	-	-	14.8	16,262	-	-
427	68.0	92,160	-	-	-	-	-	-	-	-	-	-	-	-
428	34.1	42,480	-	-	-	-	-	-	-	-	-	-	-	-
429	-	-	-	-	-	-	-	-	-	-	0.0	9	89.4	125,105
430	-	-	-	-	-	-	-	-	-	-	3.2	3,501	69.8	97,788
431	-	-	-	-	-	-	-	-	-	-	-	-	2.6	3,670
432	-	-	-	-	-	-	-	-	-	-	-	-	-	-
433	37.0	47,760	-	-	-	-	-	-	-	-	-	-	-	-
434	48.1	74,160	-	-	3.6	20,130	-	-	-	-	66.1	72,660	10.1	13,718
435	43.7	720	-	-	-	-	-	-	-	-	0.1	109	0.3	382
436	34.2	43,200	-	-	-	-	-	-	-	-	-	-	-	-
437	39.5	43,920	-	-	-	-	-	-	-	-	-	-	-	-
438	17.6	25,200	-	-	-	-	-	-	-	-	0.2	229	-	-
439	22.6	31,920	-	-	-	-	-	-	-	-	-	-	-	-
440	15.3	21,360	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
441	-	-	-	-	-	-	-	-	-	-	7.1	7,824	70.2	98,266
442	-	-	-	-	-	-	-	-	-	-	-	-	41.1	57,206
443	22.0	31,440	-	-	-	-	-	-	-	-	-	-	-	-
444	-	-	-	-	-	-	-	-	-	-	18.8	20,652	55.4	77,620
445	-	-	-	-	-	-	-	-	-	-	-	-	44.8	62,669
446	130.8	168,960	-	-	-	-	-	-	-	-	-	-	-	-
447	154.3	112,800	-	-	-	-	-	-	-	-	-	-	-	-
448	208.7	185,760	-	-	-	-	-	-	-	-	-	-	-	-
451	52.4	68,640	-	-	-	-	-	-	0.2	212	-	-	-	-
452	22.5	3,360	-	-	-	-	-	-	1.0	1,062	10.9	12,012	5.4	6,035
453	-	-	-	-	-	-	-	-	-	-	-	-	64.6	90,399
508	30.4	20,880	-	-	5.7	31,984	-	-	-	-	17.4	19,195	-	-
509	0.0	6,480	-	-	-	-	-	-	-	-	-	-	-	-
510	5.8	4,320	-	-	-	-	-	-	-	-	-	-	21.8	30,566
511	-	-	-	-	-	-	-	-	-	-	0.0	36	22.0	30,816
512	11.4	18,240	1.2	3,906	-	-	-	-	-	-	-	-	-	-
513	33.5	2,400	-	-	-	-	-	-	-	-	-	-	-	-
514	0.9	-	5.0	15,760	0.8	4,660	-	-	-	-	1.7	1,905	-	-
515	-	-	1.7	5,313	13.6	75,821	-	-	-	-	1.9	2,119	-	-
516	23.9	16,320	0.5	1,565	-	-	-	-	-	-	-	-	-	-
517	2.1	3,600	26.5	83,244	-	-	-	-	-	-	-	-	-	-
518	22.3	25,440	0.2	525	-	-	-	-	-	-	-	-	-	-
519	53.1	48,960	-	-	-	-	-	-	-	-	-	-	-	-
520	45.5	40,560	-	-	0.1	593	-	-	-	-	-	-	-	-
521	48.4	39,600	-	-	2.1	11,859	-	-	-	-	0.1	117	-	-
522	26.8	10,560	-	-	-	-	-	-	-	-	-	-	-	-
523	167.6	7,440	0.0	0	-	-	-	-	-	-	2.3	2,551	-	-
524	1.6	2,640	0.0	1	-	-	-	-	-	-	-	-	-	-
525	31.6	5,760	0.2	570	6.0	33,637	-	-	-	-	8.2	9,020	-	-
526	31.4	22,800	-	-	-	-	-	-	-	-	-	-	-	-
527	30.4	26,160	-	-	-	-	-	-	-	-	-	-	-	-
528	15.4	21,840	4.8	15,046	-	-	-	-	-	-	-	-	-	-
529	25.3	33,600	3.6	11,332	-	-	-	-	-	-	-	-	-	-
530	28.9	34,080	7.0	22,037	-	-	-	-	-	-	-	-	-	-
531	18.5	17,760	0.1	401	-	-	-	-	-	-	-	-	-	-
532	2.6	4,080	26.1	82,141	19.0	105,517	-	-	-	-	7.5	8,270	-	-
533	11.8	13,680	-	-	-	-	-	-	-	-	-	-	-	-
534	12.2	19,440	10.6	33,235	0.3	1,784	-	-	-	-	1.3	1,418	-	-
535	8.0	16,080	-	-	-	-	-	-	-	-	-	-	-	-
536	13.2	17,520	1.0	3,244	-	-	-	-	-	-	-	-	-	-
537	2.0	3,360	0.5	1,676	-	-	-	-	-	-	13.4	14,724	-	-
538	31.4	40,560	7.5	23,726	7.6	42,412	-	-	-	-	4.1	4,491	-	-
539	23.8	24,000	0.4	1,126	-	-	-	-	0.6	641	0.0	1	-	-
540	28.6	31,920	-	-	-	-	-	-	-	-	0.0	9	-	-
541	22.5	37,680	-	-	-	-	-	-	0.0	15	0.8	925	-	-
542	12.2	14,400	-	-	-	-	-	-	0.0	0	0.0	37	-	-
543	-	-	0.1	259	0.0	9	-	-	0.0	1	27.8	30,564	-	-
544	17.0	32,160	-	-	-	-	-	-	-	-	-	-	-	-
545	20.6	36,480	0.2	526	-	-	-	-	-	-	-	-	-	-
546	12.9	17,280	-	-	-	-	-	-	-	-	-	-	-	-
547	55.2	68,160	0.6	1,760	22.8	126,849	-	-	-	-	14.1	15,510	-	-
548	7.9	11,760	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
549	-	-	-	-	13.9	77,395	-	-	-	-	22.1	24,317	11.8	16,492
550	-	-	-	-	9.4	52,130	-	-	-	-	27.4	30,098	10.0	14,007
551	-	-	-	-	-	-	-	-	-	-	-	-	38.0	-
552	1.2	-	-	-	-	-	-	-	-	-	-	-	40.8	0
553	-	-	-	-	-	-	-	-	-	-	-	-	36.6	51,283
554	-	-	-	-	-	-	-	-	-	-	-	-	46.0	64,446
555	10.9	12,960	0.0	0	-	-	-	-	-	-	-	-	-	-
556	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-
557	14.2	13,920	26.2	82,452	0.8	4,524	-	-	-	-	-	-	0.1	205
558	31.9	37,920	5.9	18,657	20.3	113,215	-	-	-	-	15.0	16,455	-	-
559	75.2	78,480	7.6	24,035	-	-	-	-	-	-	4.5	4,901	-	-
560	23.2	27,600	0.7	2,204	11.1	61,893	-	-	-	-	10.3	11,301	-	-
561	11.4	13,200	2.5	7,729	4.0	22,071	-	-	1.7	1,896	-	-	-	-
562	1.1	2,160	5.5	17,409	-	-	-	-	1.6	1,811	-	-	-	-
563	23.5	27,120	13.1	41,297	6.6	36,780	-	-	5.3	5,845	0.1	80	-	-
564	8.2	8,880	-	-	-	-	-	-	-	-	-	-	0.0	1
565	23.9	27,360	-	-	-	-	-	-	0.1	108	-	-	-	-
566	42.8	48,480	0.4	1,202	-	-	-	-	1.9	2,097	-	-	-	-
567	84.3	92,640	9.8	30,907	-	-	-	-	-	-	-	-	-	-
568	10.5	13,440	0.0	3	4.6	25,783	-	-	-	-	-	-	-	-
569	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-
570	23.2	25,200	-	-	18.3	102,028	-	-	-	-	-	-	-	-
571	105.0	125,520	-	-	2.0	11,181	-	-	-	-	41.7	43,845	40.5	56,693
572	58.8	21,600	-	-	-	-	-	-	-	-	-	-	-	-
573	10.4	11,040	-	-	-	-	-	-	-	-	-	-	-	-
574	30.9	44,640	-	-	-	-	-	-	-	-	-	-	-	-
576	-	-	-	-	-	-	-	-	0.1	80	75.7	83,248	4.5	6,294
579	-	-	-	-	-	-	-	-	-	-	40.2	44,253	-	-
580	-	-	-	-	-	-	-	-	-	-	9.4	10,380	-	-
581	4.2	960	-	-	-	-	-	-	-	-	-	-	-	-
582	15.1	3,360	-	-	-	-	-	-	-	-	-	-	-	-
583	31.6	6,000	0.0	89	-	-	-	-	-	-	-	-	-	-
584	1.2	-	-	-	-	-	-	-	-	-	-	-	-	-
585	16.1	2,400	-	-	-	-	-	-	-	-	0.1	155	-	-
586	124.1	107,040	-	-	-	-	-	-	-	-	-	-	-	-
587	-	-	-	-	-	-	-	-	-	-	-	-	1.7	196
589	-	-	-	-	-	-	-	-	-	-	-	-	34.3	47,976
590	8.9	720	-	-	-	-	-	-	-	-	5.8	6,327	0.3	476
591	-	-	-	-	-	-	-	-	-	-	-	-	3.6	5,101
592	-	-	-	-	-	-	-	-	-	-	-	-	2.1	2,988
593	-	-	-	-	-	-	-	-	-	-	-	-	-	-
594	-	-	-	-	-	-	-	-	-	-	39.0	42,931	2.5	3,551
596	-	-	-	-	-	-	-	-	-	-	-	-	-	-
597	-	-	-	-	-	-	-	-	-	-	0.3	322	33.7	47,149
598	-	-	-	-	-	-	-	-	-	-	-	-	19.6	27,438
599	-	-	-	-	-	-	-	-	-	-	-	-	50.1	70,124
600	-	-	-	-	-	-	-	-	-	-	-	-	36.2	50,732
601	-	-	-	-	-	-	-	-	-	-	-	-	46.9	65,716
602	12.9	17,040	-	-	-	-	-	-	-	-	2.5	2,748	11.4	15,954
603	65.3	87,360	0.2	768	-	-	-	-	-	-	17.0	18,717	0.0	21
604	-	-	-	-	-	-	-	-	-	-	4.5	4,911	0.4	587
605	26.6	21,360	7.6	23,814	-	-	-	-	-	-	26.1	28,755	7.8	10,940

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
606	1.0	1,200	0.0	8	-	-	-	-	-	-	2.1	2,273	0.1	195
607	-	-	-	-	-	-	-	-	-	-	0.3	-	6.5	-
608	-	-	-	-	-	-	-	-	-	-	2.8	-	0.8	-
609	-	-	-	-	-	-	-	-	-	-	-	-	47.8	66,985
610	-	-	-	-	-	-	-	-	-	-	-	-	13.9	19,506
611	5.4	1,440	-	-	-	-	-	-	-	-	0.2	270	0.2	213
612	-	-	-	-	-	-	-	-	-	-	0.0	7	-	-
617	-	-	-	-	-	-	-	-	-	-	-	-	-	-
620	56.2	52,800	2.9	9,254	-	-	-	-	-	-	-	-	-	-
621	87.6	76,560	-	-	-	-	-	-	-	-	-	-	-	-
623	0.8	1,200	14.0	43,957	-	-	-	-	-	-	20.7	22,727	0.7	914
624	0.6	720	12.6	39,761	-	-	-	-	-	-	2.9	3,171	38.7	54,130
625	0.3	-	-	-	-	-	-	-	-	-	3.7	4,029	60.8	85,154
626	108.8	93,600	-	-	-	-	-	-	-	-	41.7	45,905	1.8	2,528
627	21.9	30,720	-	-	-	-	-	-	-	-	8.4	9,195	-	-
628	0.1	480	-	-	-	-	-	-	-	-	18.7	20,575	-	-
629	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
630	21.1	-	0.0	-	-	-	-	-	-	-	9.2	-	-	-
631	11.6	6,480	-	-	-	-	-	-	-	-	0.7	-	-	-
632	6.8	4,560	-	-	-	-	-	-	-	-	0.0	-	-	-
633	34.6	41,760	-	-	-	-	-	-	-	-	-	-	8.1	11,306
634	16.2	1,200	-	-	-	-	-	-	-	-	0.9	-	-	-
635	1.3	1,680	-	-	0.0	91	-	-	-	-	0.8	836	-	-
636	9.2	1,680	-	-	-	-	-	-	-	-	-	-	-	-
637	5.3	3,120	-	-	-	-	-	-	-	-	-	-	-	-
638	85.5	101,760	-	-	-	-	-	-	-	-	-	-	-	-
639	100.0	100,320	-	-	-	-	-	-	-	-	-	-	-	-
640	0.0	240	-	-	-	-	-	-	-	-	-	-	48.8	85
641	-	-	-	-	-	-	-	-	-	-	-	-	3.6	-
642	-	-	-	-	-	-	-	-	-	-	-	-	41.9	249
643	14.5	2,880	-	-	-	-	-	-	-	-	-	-	11.9	11,798
644	0.0	-	-	-	-	-	-	-	-	-	-	-	15.6	11,372
646	-	-	-	-	-	-	-	-	-	-	-	-	200.4	280,602
647	-	-	-	-	-	-	-	-	-	-	-	-	9.2	12,817
650	-	-	1.0	3,180	-	-	-	-	-	-	-	-	22.4	31,296
652	-	-	-	-	-	-	-	-	-	-	-	-	13.3	18,614
653	0.5	240	15.6	48,911	-	-	-	-	-	-	-	-	4.6	6,373
654	-	-	0.0	49	-	-	-	-	-	-	1.2	1,298	45.1	63,156
655	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-
656	0.0	240	-	-	-	-	-	-	-	-	-	-	20.5	28,673
659	18.7	16,800	9.2	28,868	-	-	-	-	-	-	-	-	4.2	5,874
660	7.3	5,760	10.8	33,974	-	-	-	-	-	-	8.6	9,412	-	-
661	5.5	10,560	3.7	11,768	-	-	-	-	4.2	4,657	-	-	-	-
662	6.0	5,760	12.9	40,586	-	-	-	-	-	-	19.4	21,300	-	-
663	-	-	-	-	-	-	-	-	-	-	11.6	12,785	-	-
664	-	-	-	-	-	-	-	-	1.0	1,115	2.0	2,225	-	-
666	-	-	0.0	0	-	-	-	-	-	-	46.0	50,612	-	-
667	5.3	5,520	-	-	3.7	20,690	-	-	3.2	3,571	50.2	55,271	-	-
670	-	-	-	-	-	-	-	-	-	-	27.5	30,293	10.9	15,262
671	10.4	4,560	-	-	-	-	-	-	-	-	12.4	13,667	18.8	26,258
673	4.0	5,760	11.8	37,078	-	-	-	-	-	-	-	-	3.4	4,775
675	-	-	-	-	-	-	-	-	-	-	4.1	4,558	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
678	-	-	-	-	-	-	-	-	-	-	-	-	27.1	37,942
679	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-
681	-	-	-	-	-	-	-	-	-	-	0.6	675	63.6	89,095
683	0.7	-	-	-	-	-	-	-	-	-	-	-	0.7	979
686	0.7	-	-	-	-	-	-	-	-	-	0.3	-	7.9	-
689	21.9	18,000	-	-	-	-	-	-	0.0	6	2.2	2,432	0.1	130
690	-	-	11.1	35,019	-	-	-	-	15.8	17,358	3.1	3,418	-	-
692	69.3	70,080	-	-	-	-	-	-	-	-	6.9	7,580	-	-
693	60.6	68,160	-	-	-	-	-	-	-	-	-	-	-	-
694	121.7	128,160	4.6	14,391	-	-	-	-	-	-	-	-	-	-
695	-	-	-	-	-	-	-	-	-	-	-	-	28.1	39,398
697	-	-	-	-	-	-	-	-	-	-	0.2	262	18.3	25,636
698	-	-	-	-	-	-	-	-	-	-	0.0	29	20.9	29,191
699	-	-	-	-	-	-	-	-	-	-	-	-	64.4	90,221
700	-	-	-	-	-	-	-	-	-	-	-	-	1.7	2,441
701	-	-	-	-	-	-	-	-	-	-	-	-	27.8	38,865
702	-	-	-	-	-	-	-	-	-	-	0.0	8	2.7	3,811
703	-	-	-	-	-	-	-	-	-	-	-	-	-	-
704	-	-	-	-	-	-	-	-	-	-	-	-	1.9	2,625
705	-	-	-	-	-	-	-	-	-	-	-	-	13.9	19,482
706	-	-	-	-	-	-	-	-	-	-	-	-	16.0	22,357
707	-	-	-	-	-	-	-	-	-	-	0.0	21	22.9	32,038
708	35.2	25,920	-	-	-	-	-	-	-	-	-	-	1.8	2,532
709	4.5	480	0.1	471	0.5	3,026	-	-	-	-	12.8	14,108	-	-
710	22.8	22,320	-	-	27.2	151,588	-	-	-	-	1.8	1,951	-	-
714	5.8	240	-	-	-	-	-	-	-	-	-	-	0.1	179
715	0.3	-	-	-	-	-	-	-	-	-	8.5	-	1.2	-
717	-	-	-	-	-	-	-	-	-	-	11.3	12,466	-	-
719	-	-	-	-	-	-	-	-	-	-	1.5	1,699	-	-
720	-	-	-	-	0.6	3,198	-	-	-	-	1.2	1,269	0.1	176
721	-	-	-	-	-	-	-	-	-	-	10.0	11,054	-	-
722	-	-	-	-	10.3	57,356	-	-	2.0	2,188	1.7	1,819	0.1	133
723	29.6	-	-	-	-	-	-	-	-	-	-	-	-	-
724	-	-	-	-	-	-	-	-	-	-	-	-	-	-
725	-	-	-	-	-	-	-	-	-	-	-	-	0.0	6
726	34.0	240	7.0	22,067	-	-	-	-	-	-	1.7	1,892	-	-
727	-	-	-	-	-	-	-	-	-	-	-	-	-	-
728	0.0	480	0.0	2	-	-	-	-	-	-	-	-	-	-
729	-	-	-	-	-	-	-	-	-	-	-	-	-	-
730	47.8	56,640	-	-	-	-	-	-	-	-	3.5	3,880	-	-
731	-	-	-	-	-	-	-	-	-	-	-	-	-	-
732	-	-	-	-	-	-	-	-	-	-	-	-	-	-
733	15.7	-	-	-	-	-	-	-	-	-	4.0	-	0.8	-
734	40.5	37,200	-	-	-	-	-	-	-	-	-	-	-	-
735	91.4	102,240	-	-	-	-	-	-	-	-	-	-	-	-
736	111.1	119,280	-	-	-	-	-	-	-	-	-	-	-	-
738	20.2	13,680	-	-	-	-	-	-	-	-	-	-	-	-
739	-	-	-	-	-	-	-	-	-	-	-	-	-	-
740	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-
741	-	-	-	-	-	-	-	-	-	-	-	-	-	-
742	-	-	-	-	-	-	-	-	-	-	-	-	-	-
743	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
744	-	-	-	-	-	-	-	-	-	-	-	-	-	-
745	-	-	-	-	-	-	-	-	-	-	-	-	-	-
747	30.9	30,000	-	-	-	-	-	-	-	-	-	-	-	-
748	-	-	-	-	-	-	-	-	-	-	-	-	-	-
749	-	-	-	-	-	-	-	-	-	-	-	-	-	-
750	-	-	-	-	-	-	-	-	-	-	-	-	-	-
751	50.7	59,760	-	-	-	-	-	-	-	-	-	-	-	-
752	1.3	2,880	-	-	-	-	-	-	-	-	7.3	8,063	-	-
753	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-
754	21.8	37,920	-	-	-	-	-	-	-	-	-	-	-	-
755	-	-	-	-	-	-	-	-	-	-	-	-	-	-
756	-	-	-	-	-	-	-	-	-	-	-	-	-	-
757	-	-	-	-	-	-	-	-	-	-	-	-	-	-
758	-	-	-	-	-	-	-	-	-	-	-	-	-	-
759	-	-	-	-	-	-	-	-	-	-	-	-	-	-
760	-	-	-	-	-	-	-	-	-	-	-	-	-	-
761	-	-	-	-	-	-	-	-	-	-	-	-	-	-
762	-	-	-	-	-	-	-	-	-	-	-	-	-	-
763	-	-	-	-	-	-	-	-	-	-	0.0	1	12.9	18,051
764	-	-	-	-	-	-	-	-	-	-	-	-	-	-
765	-	-	-	-	-	-	-	-	-	-	-	-	0.2	274
766	-	-	-	-	-	-	-	-	-	-	-	-	-	-
767	-	-	-	-	-	-	-	-	-	-	-	-	-	-
768	-	-	-	-	-	-	-	-	-	-	-	-	-	-
769	-	-	-	-	-	-	-	-	-	-	-	-	-	-
770	-	-	-	-	-	-	-	-	-	-	-	-	-	-
771	-	-	-	-	-	-	-	-	-	-	-	-	-	-
772	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-
773	-	-	-	-	-	-	-	-	-	-	-	-	-	-
774	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-
775	-	-	-	-	-	-	-	-	-	-	-	-	-	-
776	-	-	-	-	-	-	-	-	-	-	-	-	-	-
777	-	-	-	-	-	-	-	-	-	-	-	-	-	-
778	-	-	-	-	-	-	-	-	-	-	-	-	-	-
779	-	-	-	-	-	-	-	-	-	-	-	-	-	-
780	-	-	-	-	-	-	-	-	-	-	-	-	-	-
781	-	-	-	-	-	-	-	-	-	-	-	-	-	-
782	-	-	-	-	-	-	-	-	-	-	-	-	-	-
783	-	-	-	-	-	-	-	-	-	-	-	-	-	-
784	-	-	-	-	-	-	-	-	-	-	-	-	-	-
785	-	-	-	-	-	-	-	-	-	-	-	-	-	-
786	-	-	-	-	-	-	-	-	-	-	-	-	-	-
787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
788	-	-	-	-	-	-	-	-	-	-	-	-	-	-
789	-	-	-	-	-	-	-	-	-	-	-	-	-	-
790	-	-	-	-	-	-	-	-	-	-	-	-	-	-
791	-	-	-	-	-	-	-	-	-	-	-	-	-	-
792	-	-	-	-	-	-	-	-	-	-	-	-	-	-
793	-	-	-	-	-	-	-	-	-	-	-	-	-	-
794	-	-	-	-	-	-	-	-	-	-	-	-	-	-
795	-	-	-	-	-	-	-	-	-	-	-	-	-	-
796	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
797	-	-	-	-	-	-	-	-	-	-	-	-	-	-
798	-	-	-	-	-	-	-	-	-	-	-	-	-	-
799	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
800	-	-	-	-	-	-	-	-	-	-	-	-	-	-
801	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802	-	-	-	-	-	-	-	-	-	-	-	-	-	-
803	-	-	-	-	-	-	-	-	-	-	-	-	-	-
804	-	-	-	-	-	-	-	-	-	-	-	-	-	-
805	-	-	-	-	-	-	-	-	-	-	-	-	-	-
806	-	-	-	-	-	-	-	-	-	-	-	-	-	-
807	-	-	-	-	-	-	-	-	-	-	-	-	-	-
808	-	-	-	-	-	-	-	-	-	-	-	-	-	-
809	-	-	-	-	-	-	-	-	-	-	-	-	-	-
810	-	-	-	-	-	-	-	-	-	-	-	-	-	-
811	-	-	-	-	-	-	-	-	-	-	-	-	-	-
812	-	-	-	-	-	-	-	-	-	-	-	-	-	-
813	-	-	-	-	-	-	-	-	-	-	-	-	-	-
814	-	-	-	-	-	-	-	-	-	-	-	-	-	-
815	-	-	-	-	-	-	-	-	-	-	-	-	-	-
816	-	-	-	-	-	-	-	-	-	-	-	-	-	-
817	-	-	-	-	-	-	-	-	-	-	-	-	-	-
818	-	-	-	-	-	-	-	-	-	-	-	-	-	-
819	-	-	-	-	-	-	-	-	-	-	-	-	-	-
820	-	-	-	-	-	-	-	-	-	-	-	-	-	-
821	-	-	-	-	-	-	-	-	-	-	-	-	-	-
822	-	-	-	-	-	-	-	-	-	-	-	-	-	-
823	-	-	-	-	-	-	-	-	-	-	-	-	-	-
824	-	-	-	-	-	-	-	-	-	-	-	-	-	-
825	-	-	-	-	-	-	-	-	-	-	-	-	-	-
826	-	-	-	-	-	-	-	-	-	-	-	-	-	-
827	-	-	-	-	-	-	-	-	-	-	-	-	-	-
828	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0
829	-	-	-	-	-	-	-	-	-	-	-	-	-	-
830	-	-	-	-	-	-	-	-	-	-	-	-	-	-
831	58.7	2,640	-	-	-	-	-	-	-	-	-	-	2.3	3,237
832	-	-	-	-	-	-	-	-	-	-	-	-	-	-
833	-	-	-	-	-	-	-	-	-	-	-	-	-	-
834	-	-	-	-	-	-	-	-	-	-	-	-	-	-
835	-	-	-	-	-	-	-	-	-	-	-	-	-	-
836	-	-	-	-	-	-	-	-	-	-	-	-	-	-
837	10.6	1,200	-	-	-	-	-	-	-	-	-	-	0.0	13
838	-	-	-	-	-	-	-	-	-	-	-	-	-	-
839	-	-	-	-	-	-	-	-	-	-	-	-	-	-
840	-	-	-	-	-	-	-	-	-	-	-	-	-	-
841	-	-	-	-	-	-	-	-	-	-	-	-	-	-
842	-	-	-	-	-	-	-	-	-	-	-	-	-	-
843	-	-	-	-	-	-	-	-	-	-	-	-	-	-
844	-	-	-	-	-	-	-	-	-	-	-	-	-	-
845	-	-	-	-	-	-	-	-	-	-	-	-	-	-
846	-	-	-	-	-	-	-	-	-	-	-	-	-	-
847	-	-	-	-	-	-	-	-	-	-	-	-	-	-
848	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
849	-	-	-	-	-	-	-	-	-	-	-	-	-	-
850	-	-	-	-	-	-	-	-	-	-	-	-	-	-
851	-	-	-	-	-	-	-	-	-	-	-	-	-	-
852	-	-	-	-	-	-	-	-	-	-	-	-	-	-
853	-	-	-	-	-	-	-	-	-	-	-	-	-	-
854	-	-	-	-	-	-	-	-	-	-	-	-	-	-
855	-	-	-	-	-	-	-	-	-	-	-	-	-	-
856	-	-	-	-	-	-	-	-	-	-	-	-	-	-
857	-	-	-	-	-	-	-	-	-	-	-	-	-	-
858	-	-	-	-	-	-	-	-	-	-	-	-	-	-
859	-	-	-	-	-	-	-	-	-	-	-	-	-	-
860	-	-	-	-	-	-	-	-	-	-	-	-	-	-
861	-	-	-	-	-	-	-	-	-	-	-	-	-	-
862	-	-	-	-	-	-	-	-	-	-	16.3	17,903	-	-
863	-	-	-	-	-	-	-	-	-	-	-	-	-	-
864	-	-	-	-	-	-	-	-	-	-	-	-	-	-
865	-	-	-	-	-	-	-	-	-	-	-	-	-	-
866	-	-	-	-	-	-	-	-	-	-	-	-	-	-
867	-	-	-	-	-	-	-	-	-	-	-	-	-	-
868	-	-	-	-	-	-	-	-	-	-	-	-	-	-
869	-	-	-	-	-	-	-	-	2.2	2,429	5.7	6,239	5.4	7,523
870	-	-	-	-	-	-	-	-	0.9	943	5.6	6,125	-	-
871	-	-	-	-	-	-	-	-	-	-	-	-	-	-
872	-	-	-	-	-	-	-	-	-	-	-	-	-	-
873	-	-	-	-	-	-	-	-	-	-	-	-	-	-
874	-	-	-	-	-	-	-	-	-	-	-	-	-	-
875	-	-	-	-	-	-	-	-	-	-	-	-	-	-
876	-	-	-	-	-	-	-	-	-	-	-	-	-	-
877	-	-	-	-	-	-	-	-	-	-	-	-	-	-
878	-	-	-	-	-	-	-	-	-	-	-	-	-	-
879	-	-	-	-	-	-	-	-	-	-	-	-	-	-
880	-	-	-	-	-	-	-	-	-	-	-	-	-	-
881	-	-	-	-	-	-	-	-	-	-	-	-	-	-
882	-	-	-	-	-	-	-	-	-	-	-	-	-	-
883	-	-	-	-	-	-	-	-	-	-	-	-	-	-
884	-	-	-	-	-	-	-	-	-	-	-	-	-	-
885	-	-	-	-	-	-	-	-	-	-	-	-	-	-
886	-	-	-	-	-	-	-	-	-	-	-	-	-	-
887	-	-	-	-	-	-	-	-	-	-	-	-	-	-
888	-	-	-	-	-	-	-	-	-	-	-	-	-	-
889	-	-	-	-	-	-	-	-	-	-	-	-	-	-
890	-	-	-	-	-	-	-	-	-	-	-	-	-	-
891	-	-	-	-	-	-	-	-	-	-	-	-	-	-
892	-	-	-	-	-	-	-	-	-	-	-	-	-	-
893	-	-	-	-	-	-	-	-	-	-	-	-	-	-
894	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-
895	-	-	-	-	-	-	-	-	-	-	-	-	-	-
896	0.0	-	-	-	-	-	-	-	-	-	0.0	10	5.6	7,871
897	-	-	-	-	-	-	-	-	-	-	8.7	9,550	3.6	4,978
898	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
899	12.0	240	-	-	-	-	-	-	-	-	-	-	-	-
900	1.0	-	-	-	-	-	-	-	-	-	-	-	7.2	10,111

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
901	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902	-	-	-	-	-	-	-	-	-	-	-	-	-	-
903	-	-	-	-	-	-	-	-	-	-	-	-	0.0	1
904	-	-	-	-	-	-	-	-	5.6	6,183	6.2	6,789	-	-
905	-	-	-	-	-	-	-	-	0.7	805	-	-	-	-
906	-	-	-	-	-	-	-	-	-	-	-	-	-	-
907	-	-	-	-	-	-	-	-	-	-	-	-	0.0	1
908	-	-	-	-	-	-	-	-	-	-	21.0	23,117	10.8	15,137
909	-	-	-	-	-	-	-	-	-	-	-	-	24.6	34,453
910	-	-	-	-	-	-	-	-	-	-	-	-	-	-
911	-	-	-	-	-	-	-	-	-	-	-	-	-	-
912	-	-	-	-	-	-	-	-	-	-	-	-	-	-
913	-	-	-	-	-	-	-	-	-	-	-	-	-	-
914	-	-	-	-	-	-	-	-	-	-	-	-	-	-
915	-	-	-	-	-	-	-	-	-	-	-	-	-	-
916	-	-	-	-	-	-	-	-	-	-	-	-	3.4	4,817
917	-	-	-	-	-	-	-	-	-	-	-	-	-	-
918	-	-	-	-	-	-	-	-	-	-	-	-	58.1	81,338
919	-	-	-	-	-	-	-	-	-	-	-	-	20.5	28,697
920	-	-	-	-	-	-	-	-	-	-	-	-	-	-
921	-	-	-	-	-	-	-	-	-	-	-	-	-	-
922	1.1	-	-	-	-	-	-	-	-	-	-	-	-	-
923	-	-	-	-	-	-	-	-	-	-	-	-	-	-
924	-	-	-	-	-	-	-	-	-	-	-	-	-	-
925	-	-	-	-	-	-	-	-	-	-	-	-	12.2	17,085
926	-	-	-	-	-	-	-	-	-	-	-	-	2.6	3,612
927	-	-	-	-	-	-	-	-	-	-	-	-	0.1	117
928	-	-	-	-	-	-	-	-	-	-	-	-	63.7	-
929	-	-	-	-	-	-	-	-	-	-	-	-	-	-
930	-	-	-	-	-	-	-	-	-	-	-	-	-	-
931	-	-	-	-	-	-	-	-	-	-	-	-	-	-
932	-	-	-	-	-	-	-	-	-	-	-	-	-	-
933	-	-	-	-	-	-	-	-	-	-	-	-	-	-
934	-	-	-	-	-	-	-	-	-	-	-	-	-	-
935	-	-	-	-	-	-	-	-	-	-	-	-	-	-
936	-	-	-	-	-	-	-	-	-	-	-	-	-	-
937	-	-	-	-	-	-	-	-	-	-	-	-	-	-
938	-	-	-	-	-	-	-	-	-	-	-	-	-	-
939	-	-	-	-	-	-	-	-	-	-	-	-	-	-
940	-	-	-	-	-	-	-	-	-	-	-	-	-	-
941	-	-	-	-	-	-	-	-	-	-	-	-	-	-
942	3.7	-	-	-	-	-	-	-	-	-	-	-	-	-
943	2.0	-	-	-	-	-	0.1	-	-	-	-	-	-	-
944	-	-	-	-	-	-	-	-	-	-	-	-	-	-
945	-	-	-	-	-	-	-	-	-	-	-	-	-	-
946	-	-	-	-	-	-	-	-	-	-	-	-	-	-
947	-	-	-	-	-	-	-	-	-	-	-	-	-	-
953	-	-	-	-	-	-	-	-	-	-	-	-	-	-
954	-	-	-	-	-	-	-	-	-	-	-	-	-	-
955	-	-	1.2	3,843	-	-	-	-	-	-	-	-	-	-
956	-	-	-	-	-	-	-	-	-	-	-	-	9.2	12,880
957	-	-	-	-	-	-	-	-	1.5	1,688	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
958	-	-	-	-	-	-	-	-	-	-	2.3	2,565	-	-
959	-	-	-	-	-	-	-	-	0.0	-	3.7	-	-	-
960	-	-	-	-	-	-	-	-	-	-	-	-	3.5	-
961	-	-	-	-	-	-	-	-	-	-	8.2	-	14.2	-
962	-	-	-	-	-	-	-	-	-	-	0.0	8	58.6	81,989
963	-	-	-	-	-	-	-	-	-	-	0.1	97	0.2	312
964	-	-	-	-	-	-	-	-	-	-	-	-	0.5	692
965	-	-	-	-	-	-	-	-	-	-	-	-	1.7	-
966	-	-	-	-	-	-	-	-	-	-	-	-	10.2	-
967	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-
968	0.4	-	0.2	-	-	-	-	-	-	-	-	-	40.0	-
969	-	-	-	-	-	-	-	-	-	-	-	-	16.0	-
970	-	-	-	-	-	-	-	-	-	-	-	-	4.2	5,919
971	0.7	-	-	-	-	-	-	-	-	-	0.9	-	14.3	-
972	0.9	-	-	-	-	-	-	-	-	-	-	-	27.6	-
973	-	-	-	-	-	-	-	-	-	-	-	-	12.2	-
974	-	-	-	-	-	-	-	-	-	-	-	-	8.9	-
975	-	-	-	-	-	-	-	-	-	-	-	-	38.1	-
976	-	-	-	-	-	-	-	-	-	-	0.0	0	0.0	8
977	-	-	-	-	-	-	-	-	-	-	-	-	1.0	1,298
978	-	-	-	-	-	-	-	-	-	-	-	-	27.8	-
979	-	-	-	-	-	-	-	-	-	-	-	-	-	-
980	-	-	-	-	-	-	-	-	-	-	19.8	21,773	7.1	9,986
981	-	-	-	-	-	-	-	-	-	-	0.0	-	-	-
982	-	-	-	-	-	-	-	-	-	-	11.2	3,970	78.2	2,739
983	27.0	32,400	-	-	9.6	53,623	-	-	-	-	86.4	95,059	22.2	31,019
984	85.8	107,520	-	-	-	-	-	-	-	-	-	-	-	-
985	104.6	114,240	-	-	4.8	26,494	-	-	-	-	7.0	7,664	-	-
986	-	-	-	-	-	-	-	-	-	-	-	-	-	-
987	-	-	-	-	-	-	-	-	-	-	-	-	-	-
988	-	-	-	-	-	-	-	-	-	-	-	-	-	-
989	-	-	-	-	-	-	-	-	-	-	-	-	-	-
990	-	-	-	-	-	-	-	-	-	-	-	-	-	-
991	-	-	-	-	-	-	-	-	-	-	-	-	-	-
992	-	-	-	-	-	-	-	-	-	-	-	-	-	-
993	-	-	-	-	-	-	-	-	-	-	-	-	-	-
994	-	-	-	-	-	-	-	-	-	-	-	-	-	-
995	-	-	-	-	-	-	-	-	-	-	-	-	2.0	2,855
996	-	-	-	-	-	-	-	-	-	-	-	-	-	-
997	-	-	-	-	-	-	-	-	-	-	-	-	-	-
998	-	-	-	-	-	-	-	-	-	-	-	-	-	-
999	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1001	-	-	-	-	-	-	-	-	-	-	0.0	0	-	-
1002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1003	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1004	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1005	-	-	-	-	-	-	-	-	-	-	-	-	0.0	12
1006	-	-	-	-	-	-	-	-	-	-	-	-	1.1	1,567
1007	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1009	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1010	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1012	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1013	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1014	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1015	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1016	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1017	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1021	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1022	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1023	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1024	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1025	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1026	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1027	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1028	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1029	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1030	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1031	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1032	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1033	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1034	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1035	0.9	-	-	-	-	-	-	-	-	-	-	-	53.6	74,999
1036	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1037	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1038	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1039	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1040	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1041	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1042	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1043	57.6	2,400	-	-	-	-	-	-	-	-	-	-	2.0	2,858
1044	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1045	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1046	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1047	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1048	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1049	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1050	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-
1051	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1052	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1053	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1054	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1055	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1056	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-
1057	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
1058	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1059	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1060	-	-	-	-	-	-	-	-	-	-	23.3	25,631	-	-
1061	-	-	-	-	-	-	-	-	-	-	5.5	6,013	40.0	55,969

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1062	0.0	-	-	-	-	-	-	-	-	-	-	-	0.4	532
1063	0.0	240	-	-	-	-	-	-	-	-	-	-	-	-
1064	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1068	-	-	-	-	-	-	-	-	-	-	5.0	5,475	-	-
1069	-	-	-	-	-	-	-	-	-	-	0.0	4	-	-
1070	0.0	480	-	-	-	-	-	-	-	-	-	-	-	-
1071	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1072	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1073	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1074	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1075	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1076	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1077	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1078	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1079	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1080	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1081	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1082	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1083	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1084	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1085	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1086	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1087	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1088	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1089	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1090	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1091	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1092	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1093	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1094	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1095	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1096	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1097	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1098	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-
1099	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-
1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1101	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1102	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1103	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1104	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1105	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1108	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1109	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1110	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1111	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1112	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1113	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1114	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1115	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1116	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1117	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1118	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1119	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1120	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1121	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1122	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1123	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1124	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1125	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1126	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1127	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1128	1.1	240	-	-	-	-	-	-	-	-	-	-	-	-
1129	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1130	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1131	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1132	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1133	-	-	-	-	-	-	-	-	-	-	0.0	17	-	-
1134	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1135	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1136	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1137	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1138	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1139	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1140	-	-	-	-	-	-	-	-	10.8	11,899	-	-	-	-
1141	-	-	-	-	-	-	-	-	1.2	1,278	-	-	-	-
1142	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1143	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1144	-	-	-	-	-	-	-	-	-	-	-	-	55.6	77,790
1145	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	5.0	5,527	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	0.0	18	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	55.6	61,116	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	-	-	-	-	-	-	9.9	10,943	-	-	-	-	-	-
21	-	-	-	-	-	-	3.2	3,495	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	0.1	143	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	0.1	161	-	-	-	-	-	-	-	-	-	-	-	-
36	0.0	9	-	-	-	-	11.2	12,276	-	-	-	-	-	-
37	-	-	-	-	-	-	4.6	5,024	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	0.7	719	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	0.0	41	-	-	-	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
53	-	-	-	-	-	-	13.3	14,638	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	13.1	14,419	-	-	-	-	-	-
57	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59	-	-	-	-	-	-	8.0	8,758	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62	-	-	-	-	-	-	9.8	10,789	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
63	-	-	-	-	-	-	0.1	104	-	-	-	-	-	-
64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	9.6	10,528	-	-	-	-	-	-
66	-	-	-	-	-	-	0.2	208	-	-	-	-	-	-
67	-	-	-	-	-	-	0.0	15	-	-	-	-	-	-
68	-	-	-	-	-	-	10.5	11,531	-	-	-	-	-	-
69	-	-	-	-	-	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71	-	-	-	-	-	-	5.1	5,556	-	-	-	-	-	-
72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
78	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81	-	-	-	-	-	-	0.0	17	-	-	-	-	-	-
82	-	-	-	-	-	-	8.5	9,396	-	-	-	-	-	-
83	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85	-	-	-	-	-	-	3.4	3,688	-	-	-	-	-	-
86	-	-	-	-	-	-	-	-	-	-	-	-	-	-
87	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88	-	-	-	-	-	-	-	-	-	-	-	-	-	-
91	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	-	-	-	-	-	-	-	-	-	-	-	-	-	-
93	-	-	-	-	-	-	9.9	10,848	-	-	-	-	-	-
94	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	-	-	-	-	-	-	5.6	6,120	-	-	-	-	-	-
96	-	-	-	-	-	-	-	-	-	-	-	-	-	-
97	-	-	-	-	-	-	6.8	7,480	-	-	-	-	-	-
98	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99	-	-	25.0	27,541	-	-	2.2	2,370	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
101	-	-	0.0	11	-	-	-	-	-	-	-	-	-	-
102	-	-	-	-	-	-	0.2	224	-	-	-	-	-	-
103	-	-	-	-	-	-	51.5	56,596	-	-	-	-	-	-
104	-	-	-	-	-	-	-	-	-	-	-	-	-	-
106	-	-	-	-	-	-	1.1	1,208	-	-	-	-	-	-
107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
109	-	-	-	-	-	-	-	-	-	-	-	-	-	-
110	-	-	-	-	-	-	22.3	24,534	-	-	-	-	-	-
111	-	-	-	-	-	-	71.7	78,901	-	-	-	-	-	-
112	-	-	-	-	-	-	-	-	-	-	-	-	-	-
113	-	-	-	-	-	-	-	-	-	-	-	-	-	-
114	-	-	-	-	-	-	7.8	8,621	-	-	-	-	-	-
115	-	-	-	-	-	-	6.1	6,719	-	-	-	-	-	-
116	-	-	-	-	-	-	4.8	5,315	-	-	-	-	-	-
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-
118	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120	-	-	-	-	-	-	11.5	12,680	-	-	-	-	-	-
121	-	-	-	-	-	-	12.1	13,305	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
122	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	-	-	-	-	-	-	-	-	-	-	-	-	-	-
125	-	-	-	-	-	-	0.0	3	-	-	-	-	-	-
126	-	-	-	-	-	-	26.1	28,692	-	-	-	-	-	-
127	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	-	-	-	-	-	-	-	-	-	-	-	-	-	-
129	-	-	-	-	-	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	13.3	14,620	-	-	-	-	-	-
131	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132	-	-	-	-	-	-	-	-	-	-	-	-	-	-
133	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134	-	-	-	-	-	-	-	-	-	-	-	-	-	-
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-
136	-	-	-	-	-	-	0.0	24	-	-	-	-	-	-
137	-	-	-	-	-	-	10.0	11,023	-	-	-	-	-	-
138	-	-	-	-	-	-	0.0	28	-	-	-	-	-	-
139	-	-	-	-	-	-	0.1	79	-	-	-	-	-	-
140	-	-	-	-	-	-	-	-	-	-	-	-	-	-
141	-	-	-	-	-	-	-	-	-	-	-	-	-	-
142	-	-	-	-	-	-	-	-	1.8	4,176	-	-	-	-
143	-	-	-	-	-	-	2.0	2,154	-	-	-	-	-	-
144	1.6	1,774	-	-	-	-	-	-	-	-	-	-	-	-
145	0.0	0	-	-	-	-	0.0	12	-	-	-	-	-	-
146	-	-	-	-	-	-	-	-	-	-	-	-	-	-
147	-	-	-	-	-	-	-	-	-	-	-	-	-	-
148	-	-	-	-	-	-	-	-	-	-	-	-	-	-
149	0.1	144	-	-	-	-	-	-	-	-	-	-	-	-
150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151	0.1	144	-	-	-	-	0.0	9	-	-	-	-	-	-
152	-	-	-	-	-	-	-	-	-	-	-	-	-	-
153	-	-	-	-	-	-	0.1	58	-	-	-	-	-	-
154	0.1	60	-	-	-	-	160.4	176,400	-	-	-	-	-	-
155	-	-	-	-	-	-	-	-	-	-	-	-	-	-
156	-	-	-	-	-	-	-	-	-	-	-	-	-	-
157	45.7	50,226	-	-	-	-	-	-	-	-	-	-	-	-
158	-	-	-	-	-	-	-	-	-	-	-	-	-	-
159	-	-	-	-	-	-	-	-	-	-	-	-	-	-
160	-	-	-	-	-	-	-	-	-	-	-	-	-	-
161	1.8	2,021	-	-	-	-	0.0	2	-	-	-	-	-	-
162	-	-	-	-	-	-	-	-	-	-	-	-	-	-
163	-	-	-	-	-	-	-	-	-	-	-	-	-	-
164	-	-	-	-	-	-	-	-	-	-	-	-	-	-
165	0.6	675	-	-	-	-	0.0	1	-	-	-	-	-	-
166	-	-	-	-	-	-	-	-	-	-	-	-	-	-
167	0.6	626	-	-	-	-	0.0	0	-	-	-	-	-	-
168	-	-	-	-	-	-	-	-	-	-	-	-	-	-
169	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-
170	-	-	-	-	-	-	-	-	-	-	-	-	-	-
171	-	-	-	-	-	-	3.7	4,082	-	-	-	-	-	-
172	0.4	488	-	-	-	-	0.3	301	-	-	-	-	-	-
173	-	-	-	-	-	-	3.7	4,033	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
174	-	-	-	-	-	-	-	-	-	-	-	-	-	-
175	-	-	-	-	-	-	-	-	-	-	-	-	-	-
176	-	-	-	-	-	-	-	-	-	-	-	-	-	-
177	-	-	-	-	-	-	-	-	-	-	-	-	-	-
178	0.0	0	-	-	-	-	5.9	6,459	-	-	-	-	-	-
179	0.0	15	-	-	-	-	-	-	-	-	-	-	-	-
180	-	-	-	-	-	-	0.0	13	-	-	-	-	-	-
181	-	-	-	-	-	-	-	-	-	-	-	-	-	-
182	-	-	-	-	-	-	-	-	-	-	-	-	-	-
183	-	-	-	-	-	-	0.4	466	-	-	-	-	-	-
184	21.7	23,874	-	-	-	-	55.4	60,931	-	-	-	-	-	-
185	3.3	3,588	-	-	-	-	8.7	9,562	-	-	-	-	-	-
186	-	-	-	-	-	-	-	-	-	-	-	-	-	-
187	1.1	1,186	-	-	-	-	0.2	225	-	-	-	-	-	-
188	0.7	789	-	-	-	-	3.3	3,598	-	-	-	-	-	-
189	-	-	-	-	-	-	3.6	3,947	-	-	-	-	-	-
190	-	-	-	-	-	-	0.1	112	-	-	-	-	-	-
191	5.7	6,247	-	-	-	-	57.4	63,096	-	-	-	-	-	-
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-
193	-	-	-	-	-	-	-	-	-	-	-	-	-	-
194	-	-	-	-	-	-	-	-	-	-	-	-	-	-
195	-	-	-	-	-	-	43.0	47,281	-	-	-	-	-	-
196	78.1	85,856	-	-	-	-	-	-	-	-	-	-	-	-
197	-	-	-	-	-	-	0.0	28	-	-	-	-	-	-
198	-	-	-	-	-	-	10.4	11,447	-	-	-	-	-	-
199	1.4	1,492	-	-	-	-	3.4	3,765	-	-	-	-	-	-
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201	-	-	-	-	-	-	9.6	10,559	-	-	-	-	-	-
202	0.8	840	-	-	-	-	0.1	68	-	-	-	-	-	-
203	-	-	-	-	-	-	0.1	64	-	-	-	-	-	-
204	-	-	-	-	-	-	13.5	14,870	-	-	-	-	-	-
205	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	-	-	-	-	-	-	7.1	7,846	-	-	-	-	-	-
209	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	-	-	-	-	-	-	-	-	-	-	-	-	-	-
211	-	-	-	-	-	-	-	-	-	-	-	-	-	-
212	3.1	3,412	-	-	-	-	-	-	-	-	-	-	-	-
213	-	-	-	-	-	-	0.1	86	-	-	-	-	-	-
214	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	2.3	2,556	-	-	-	-	0.1	72	-	-	-	-	-	-
217	-	-	-	-	-	-	42.0	46,229	-	-	-	-	-	-
218	-	-	-	-	-	-	0.1	103	-	-	-	-	-	-
219	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220	-	-	-	-	-	-	5.4	5,938	-	-	-	-	-	-
221	-	-	-	-	-	-	-	-	-	-	-	-	-	-
222	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-
225	-	-	-	-	-	-	10.3	11,326	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
226	-	-	-	-	-	-	-	-	-	-	-	-	-	-
227	-	-	-	-	-	-	0.3	304	-	-	-	-	-	-
228	-	-	-	-	-	-	-	-	-	-	-	-	-	-
229	-	-	-	-	-	-	-	-	0.2	464	-	-	-	-
230	-	-	-	-	-	-	31.9	35,139	-	-	-	-	-	-
232	-	-	-	-	-	-	10.8	11,862	-	-	-	-	-	-
233	-	-	-	-	-	-	-	-	-	-	-	-	-	-
234	-	-	-	-	-	-	18.9	20,817	-	-	-	-	-	-
235	0.1	80	-	-	-	-	113.7	125,121	3.4	7,820	-	-	-	-
236	-	-	-	-	-	-	-	-	-	-	-	-	-	-
237	-	-	-	-	-	-	-	-	-	-	-	-	-	-
238	-	-	-	-	-	-	-	-	-	-	-	-	-	-
239	-	-	-	-	-	-	10.6	11,608	-	-	-	-	-	-
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-
241	-	-	-	-	-	-	0.0	1	-	-	-	-	-	-
243	-	-	-	-	-	-	0.0	10	-	-	-	-	-	-
244	-	-	-	-	-	-	0.0	31	-	-	-	-	-	-
245	0.0	1	-	-	-	-	-	-	-	-	-	-	-	-
246	-	-	-	-	-	-	-	-	-	-	-	-	-	-
247	-	-	-	-	-	-	-	-	-	-	-	-	-	-
248	-	-	-	-	-	-	-	-	-	-	-	-	-	-
249	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	0.0	17	0.1	135	-	-	-	-
251	-	-	-	-	-	-	-	-	-	-	-	-	-	-
252	-	-	-	-	-	-	5.0	5,546	-	-	-	-	-	-
253	-	-	-	-	-	-	-	-	-	-	-	-	-	-
254	-	-	-	-	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	-	-	-	-	-
256	-	-	-	-	-	-	-	-	-	-	-	-	-	-
257	-	-	2.4	2,615	-	-	1.2	1,321	-	-	-	-	-	-
258	-	-	-	-	-	-	-	-	-	-	-	-	-	-
259	-	-	-	-	-	-	-	-	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	-	-	-	-	-	-
261	-	-	-	-	-	-	-	-	-	-	-	-	-	-
262	-	-	-	-	-	-	-	-	-	-	-	-	-	-
263	-	-	-	-	-	-	-	-	-	-	-	-	-	-
264	-	-	-	-	-	-	-	-	-	-	-	-	-	-
265	-	-	-	-	-	-	-	-	-	-	-	-	-	-
266	2.7	2,930	-	-	-	-	-	-	-	-	-	-	-	-
267	-	-	-	-	-	-	14.5	15,947	-	-	-	-	-	-
268	-	-	-	-	-	-	-	-	-	-	-	-	-	-
269	-	-	-	-	-	-	-	-	-	-	-	-	-	-
270	2.3	2,480	-	-	-	-	-	-	-	-	-	-	-	-
271	-	-	-	-	-	-	-	-	-	-	-	-	-	-
272	-	-	-	-	-	-	-	-	-	-	-	-	-	-
273	-	-	-	-	-	-	-	-	-	-	-	-	-	-
274	-	-	-	-	-	-	-	-	-	-	-	-	-	-
275	-	-	-	-	-	-	-	-	-	-	-	-	-	-
276	-	-	-	-	-	-	-	-	-	-	-	-	-	-
277	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
278	4.3	4,730	-	-	-	-	-	-	0.9	2,166	-	-	-	-
279	-	-	-	-	-	-	-	-	19.8	45,445	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
280	-	-	-	-	-	-	-	-	-	-	-	-	-	-
281	-	-	-	-	-	-	7.5	8,258	-	-	-	-	-	-
282	-	-	-	-	-	-	-	-	-	-	-	-	-	-
284	-	-	-	-	-	-	16.9	82	-	-	-	-	-	-
285	-	-	-	-	-	-	-	-	-	-	-	-	-	-
286	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287	-	-	-	-	-	-	-	-	-	-	-	-	-	-
288	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289	-	-	-	-	-	-	-	-	-	-	-	-	-	-
290	-	-	-	-	-	-	0.0	31	-	-	-	-	-	-
291	-	-	-	-	-	-	0.0	51	-	-	-	-	-	-
292	-	-	-	-	-	-	-	-	-	-	-	-	-	-
293	-	-	-	-	-	-	-	-	-	-	-	-	-	-
294	0.8	855	-	-	-	-	-	-	-	-	-	-	-	-
295	-	-	-	-	-	-	-	-	-	-	-	-	-	-
296	16.4	18,013	-	-	-	-	-	-	-	-	-	-	-	-
297	-	-	-	-	-	-	-	-	-	-	-	-	-	-
298	-	-	-	-	-	-	-	-	-	-	-	-	-	-
299	-	-	-	-	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
301	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	-	-	-	-	-	-	0.1	90	-	-	-	-	-	-
303	-	-	-	-	-	-	4.0	4,398	-	-	-	-	-	-
304	0.0	16	-	-	-	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	0.7	787	-	-	-	-	-	-	-	-	-	-	-	-
309	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	-	-	-	-	-	-	10.2	11,205	-	-	-	-	-	-
313	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	3.2	3,523	-	-	-	-	-	-	-	-	-	-	-	-
315	111.7	57	-	-	-	-	-	-	-	-	-	-	-	-
316	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	30.1	30,245	-	-	-	-	-	-	-	-	-	-	-	-
318	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	-	-	-	-	-	-	5.0	5,526	-	-	-	-	-	-
321	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	-	-	-	-	-	-	-	-	-	-	-	-	-	-
324	-	-	-	-	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	-	-	-	-	-	-	-	-	-	-	-	-	-	-
327	3.5	3,873	-	-	-	-	-	-	-	-	-	-	-	-
328	2.7	2,952	-	-	-	-	-	-	-	-	-	-	-	-
329	-	-	-	-	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	-	-	-	-	-	-	-	-	-	-	-	-	-	-
332	-	-	-	-	-	-	41.7	45,840	-	-	-	-	-	-
333	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
334	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	-	-	-	-	-	-	-	-	-	-	-	-	-	-
336	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	2.6	-	-	-	-	-	3.5	-	-	-	-	-	-	-
339	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341	1.0	730	-	-	-	-	-	-	-	-	-	-	-	-
342	-	-	-	-	-	-	2.1	1,637	-	-	-	-	-	-
343	4.5	-	-	-	-	-	0.0	-	-	-	-	-	-	-
344	-	-	-	-	-	-	28.9	31,736	-	-	-	-	-	-
345	0.0	0	-	-	-	-	-	-	-	-	-	-	-	-
346	-	-	-	-	-	-	-	-	-	-	-	-	-	-
347	-	-	-	-	-	-	1.2	1,363	-	-	-	-	-	-
348	-	-	-	-	-	-	-	-	-	-	-	-	-	-
349	-	-	-	-	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-
351	-	-	-	-	-	-	-	-	-	-	-	-	-	-
352	-	-	-	-	-	-	3.1	42	-	-	-	-	-	-
353	-	-	-	-	-	-	-	-	-	-	-	-	-	-
354	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-
355	-	-	-	-	-	-	-	-	-	-	-	-	-	-
356	-	-	-	-	-	-	-	-	-	-	-	-	-	-
357	-	-	-	-	-	-	0.0	2	-	-	-	-	-	-
358	-	-	-	-	-	-	-	-	-	-	-	-	-	-
359	-	-	-	-	-	-	-	-	-	-	-	-	-	-
360	-	-	-	-	-	-	-	-	-	-	-	-	-	-
361	-	-	-	-	-	-	-	-	-	-	-	-	-	-
362	-	-	-	-	-	-	8.2	-	-	-	-	-	-	-
363	-	-	-	-	-	-	-	-	-	-	-	-	-	-
364	-	-	-	-	-	-	-	-	-	-	-	-	-	-
365	-	-	-	-	-	-	-	-	-	-	-	-	-	-
366	-	-	-	-	-	-	-	-	-	-	-	-	-	-
367	-	-	-	-	-	-	9.0	-	-	-	-	-	-	-
368	-	-	-	-	-	-	-	-	-	-	-	-	-	-
369	-	-	-	-	-	-	1.0	-	-	-	-	-	-	-
370	-	-	-	-	-	-	5.8	2,317	-	-	-	-	-	-
371	-	-	-	-	-	-	0.0	7	-	-	-	-	-	-
372	-	-	-	-	-	-	-	-	-	-	-	-	-	-
373	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-
374	-	-	-	-	-	-	-	-	-	-	-	-	-	-
375	-	-	-	-	-	-	-	-	-	-	-	-	-	-
376	-	-	-	-	-	-	-	-	-	-	-	-	-	-
377	-	-	-	-	-	-	-	-	-	-	-	-	-	-
378	-	-	-	-	-	-	-	-	-	-	-	-	-	-
380	-	-	-	-	-	-	-	-	-	-	-	-	-	-
381	-	-	-	-	-	-	-	-	-	-	-	-	-	-
382	-	-	-	-	-	-	-	-	-	-	-	-	-	-
383	-	-	-	-	-	-	-	-	-	-	-	-	-	-
385	-	-	-	-	-	-	-	-	-	-	-	-	-	-
386	-	-	-	-	-	-	-	-	-	-	-	-	-	-
387	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
388	-	-	-	-	-	-	9.0	-	-	-	-	-	-	-
389	-	-	-	-	-	-	-	-	-	-	-	-	-	-
390	-	-	-	-	-	-	-	-	-	-	-	-	-	-
391	-	-	-	-	-	-	-	-	-	-	-	-	-	-
392	-	-	-	-	-	-	-	-	-	-	-	-	-	-
393	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-
394	-	-	-	-	-	-	-	-	-	-	-	-	-	-
395	-	-	-	-	-	-	-	-	-	-	-	-	-	-
396	-	-	-	-	-	-	-	-	-	-	-	-	-	-
397	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-
398	-	-	-	-	-	-	-	-	-	-	-	-	-	-
399	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
401	-	-	-	-	-	-	-	-	-	-	-	-	-	-
402	-	-	-	-	-	-	-	-	-	-	-	-	-	-
403	-	-	-	-	-	-	-	-	-	-	-	-	-	-
404	-	-	-	-	-	-	-	-	-	-	-	-	-	-
405	-	-	-	-	-	-	-	-	-	-	-	-	-	-
406	-	-	-	-	-	-	-	-	-	-	-	-	-	-
408	-	-	-	-	-	-	-	-	-	-	-	-	-	-
409	-	-	-	-	-	-	-	-	-	-	-	-	-	-
410	-	-	-	-	-	-	-	-	-	-	-	-	-	-
411	-	-	-	-	-	-	-	-	-	-	-	-	-	-
412	-	-	-	-	-	-	-	-	-	-	-	-	-	-
413	4.7	-	-	-	-	-	4.9	-	-	-	-	-	-	-
414	-	-	-	-	-	-	-	-	-	-	-	-	-	-
415	-	-	-	-	-	-	-	-	-	-	-	-	-	-
416	-	-	-	-	-	-	-	-	-	-	-	-	-	-
417	-	-	-	-	-	-	-	-	-	-	-	-	-	-
418	-	-	-	-	-	-	-	-	-	-	-	-	-	-
419	-	-	-	-	-	-	-	-	-	-	-	-	-	-
420	-	-	-	-	-	-	-	-	-	-	-	-	-	-
421	1.8	1,966	-	-	-	-	-	-	-	-	-	-	-	-
422	-	-	-	-	-	-	-	-	-	-	-	-	-	-
423	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
424	1.5	1,674	-	-	-	-	-	-	-	-	-	-	-	-
425	-	-	-	-	-	-	-	-	-	-	-	-	-	-
426	-	-	-	-	-	-	-	-	-	-	-	-	-	-
427	-	-	-	-	-	-	-	-	-	-	-	-	-	-
428	-	-	-	-	-	-	-	-	-	-	-	-	-	-
429	5.1	5,574	-	-	-	-	-	-	-	-	-	-	-	-
430	-	-	-	-	-	-	-	-	-	-	-	-	-	-
431	-	-	-	-	-	-	-	-	-	-	-	-	-	-
432	-	-	-	-	-	-	-	-	-	-	-	-	-	-
433	-	-	-	-	-	-	-	-	-	-	-	-	-	-
434	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
435	-	-	-	-	-	-	-	-	-	-	-	-	-	-
436	-	-	-	-	-	-	-	-	-	-	-	-	-	-
437	-	-	-	-	-	-	15.2	16,735	-	-	-	-	-	-
438	-	-	-	-	-	-	-	-	-	-	-	-	-	-
439	-	-	-	-	-	-	-	-	-	-	-	-	-	-
440	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
441	2.0	2,174	-	-	-	-	-	-	-	-	-	-	-	-
442	-	-	-	-	-	-	-	-	-	-	-	-	-	-
443	-	-	-	-	-	-	-	-	-	-	-	-	-	-
444	-	-	-	-	-	-	-	-	-	-	-	-	-	-
445	-	-	-	-	-	-	-	-	-	-	-	-	-	-
446	-	-	-	-	-	-	20.8	22,879	-	-	-	-	-	-
447	-	-	-	-	-	-	-	-	-	-	-	-	-	-
448	-	-	-	-	-	-	-	-	-	-	-	-	-	-
451	-	-	-	-	-	-	-	-	-	-	-	-	-	-
452	-	-	-	-	-	-	-	-	-	-	-	-	-	-
453	-	-	-	-	-	-	-	-	-	-	-	-	-	-
508	-	-	-	-	-	-	-	-	-	-	-	-	-	-
509	-	-	-	-	-	-	-	-	1.4	3,119	-	-	-	-
510	-	-	-	-	-	-	-	-	-	-	-	-	-	-
511	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512	-	-	-	-	-	-	-	-	-	-	-	-	-	-
513	-	-	-	-	-	-	-	-	-	-	-	-	-	-
514	-	-	-	-	-	-	-	-	-	-	-	-	-	-
515	-	-	-	-	-	-	-	-	-	-	-	-	-	-
516	-	-	-	-	-	-	0.3	347	-	-	-	-	-	-
517	-	-	-	-	-	-	5.7	6,240	-	-	-	-	-	-
518	-	-	-	-	-	-	0.0	1	-	-	-	-	-	-
519	-	-	-	-	-	-	0.0	17	-	-	-	-	-	-
520	-	-	-	-	-	-	0.0	11	-	-	-	-	-	-
521	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522	-	-	-	-	-	-	-	-	-	-	-	-	-	-
523	-	-	-	-	-	-	9.2	10,066	-	-	-	-	-	-
524	-	-	-	-	-	-	-	-	-	-	-	-	-	-
525	-	-	-	-	-	-	0.8	852	-	-	-	-	-	-
526	-	-	-	-	-	-	-	-	-	-	-	-	-	-
527	-	-	-	-	-	-	-	-	-	-	-	-	-	-
528	-	-	-	-	-	-	-	-	-	-	-	-	-	-
529	-	-	-	-	-	-	-	-	-	-	-	-	-	-
530	-	-	-	-	-	-	0.8	857	-	-	-	-	-	-
531	-	-	-	-	-	-	0.0	6	-	-	-	-	-	-
532	-	-	-	-	-	-	9.0	9,929	-	-	-	-	-	-
533	-	-	-	-	-	-	-	-	-	-	-	-	-	-
534	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535	-	-	-	-	-	-	-	-	-	-	-	-	-	-
536	-	-	-	-	-	-	-	-	-	-	-	-	-	-
537	-	-	-	-	-	-	-	-	-	-	-	-	-	-
538	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
539	-	-	-	-	-	-	-	-	-	-	-	-	-	-
540	-	-	-	-	-	-	-	-	-	-	-	-	-	-
541	-	-	-	-	-	-	0.0	7	-	-	-	-	-	-
542	-	-	-	-	-	-	-	-	-	-	-	-	-	-
543	-	-	-	-	-	-	-	-	-	-	-	-	-	-
544	-	-	-	-	-	-	-	-	-	-	-	-	-	-
545	-	-	-	-	-	-	-	-	-	-	-	-	-	-
546	-	-	-	-	-	-	-	-	-	-	-	-	-	-
547	-	-	-	-	-	-	6.1	6,684	-	-	-	-	-	-
548	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
549	-	-	-	-	-	-	1.1	1,249	1.1	2,543	-	-	-	-
550	-	-	-	-	-	-	1.8	1,941	-	-	-	-	-	-
551	-	-	-	-	-	-	-	-	-	-	-	-	-	-
552	-	-	-	-	-	-	-	-	-	-	-	-	-	-
553	1.5	1,666	-	-	-	-	-	-	-	-	-	-	-	-
554	-	-	-	-	-	-	-	-	-	-	-	-	-	-
555	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
556	-	-	-	-	-	-	-	-	-	-	-	-	-	-
557	-	-	-	-	-	-	-	-	-	-	-	-	-	-
558	-	-	-	-	-	-	-	-	-	-	-	-	-	-
559	-	-	-	-	-	-	0.0	8	-	-	-	-	-	-
560	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561	0.8	883	-	-	-	-	0.0	29	-	-	-	-	-	-
562	0.3	364	-	-	-	-	0.0	32	-	-	-	-	-	-
563	-	-	-	-	-	-	-	-	-	-	-	-	-	-
564	-	-	-	-	-	-	-	-	-	-	-	-	-	-
565	-	-	-	-	-	-	-	-	-	-	-	-	-	-
566	-	-	-	-	-	-	-	-	-	-	-	-	-	-
567	1.1	1,230	-	-	-	-	-	-	-	-	-	-	-	-
568	6.1	6,687	-	-	-	-	117.3	129,001	-	-	-	-	-	-
569	-	-	-	-	-	-	-	-	-	-	-	-	-	-
570	-	-	-	-	-	-	-	-	-	-	-	-	-	-
571	-	-	-	-	-	-	-	-	-	-	-	-	-	-
572	-	-	-	-	-	-	-	-	-	-	-	-	-	-
573	-	-	-	-	-	-	-	-	-	-	-	-	-	-
574	-	-	-	-	-	-	-	-	-	-	-	-	-	-
576	-	-	-	-	-	-	-	-	-	-	-	-	-	-
579	-	-	-	-	-	-	-	-	-	-	-	-	-	-
580	2.7	3,019	-	-	-	-	-	-	-	-	-	-	-	-
581	-	-	-	-	-	-	9.4	10,371	-	-	-	-	-	-
582	-	-	-	-	-	-	-	-	-	-	-	-	-	-
583	-	-	-	-	-	-	-	-	-	-	-	-	-	-
584	-	-	-	-	-	-	-	-	-	-	-	-	-	-
585	-	-	-	-	-	-	-	-	-	-	-	-	-	-
586	0.0	0	-	-	-	-	-	-	-	-	-	-	-	-
587	-	-	-	-	-	-	-	-	-	-	-	-	-	-
589	-	-	-	-	-	-	-	-	-	-	-	-	-	-
590	-	-	-	-	-	-	-	-	-	-	-	-	-	-
591	0.8	874	-	-	-	-	-	-	-	-	-	-	-	-
592	2.0	2,195	-	-	-	-	-	-	-	-	-	-	-	-
593	89.2	98,127	-	-	-	-	-	-	-	-	-	-	-	-
594	129.7	142,721	-	-	-	-	-	-	-	-	-	-	-	-
596	-	-	-	-	-	-	-	-	-	-	-	-	-	-
597	2.2	2,438	-	-	-	-	-	-	-	-	-	-	-	-
598	2.8	3,114	-	-	-	-	-	-	-	-	-	-	-	-
599	2.5	2,710	-	-	-	-	-	-	-	-	-	-	-	-
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
601	-	-	-	-	-	-	-	-	-	-	-	-	-	-
602	-	-	-	-	-	-	-	-	-	-	-	-	-	-
603	-	-	-	-	-	-	-	-	-	-	-	-	-	-
604	-	-	-	-	-	-	-	-	-	-	-	-	-	-
605	-	-	-	-	-	-	0.0	1	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
606	-	-	-	-	-	-	-	-	-	-	-	-	-	-
607	-	-	-	-	-	-	-	-	-	-	-	-	-	-
608	-	-	-	-	-	-	-	-	-	-	-	-	-	-
609	-	-	-	-	-	-	-	-	-	-	-	-	-	-
610	1.1	1,221	-	-	-	-	-	-	-	-	-	-	-	-
611	-	-	-	-	-	-	-	-	-	-	-	-	-	-
612	-	-	-	-	-	-	-	-	-	-	-	-	-	-
617	-	-	-	-	-	-	-	-	-	-	-	-	-	-
620	0.1	141	-	-	-	-	14.9	16,439	0.2	478	-	-	-	-
621	-	-	-	-	-	-	0.0	50	0.7	1,665	-	-	-	-
623	4.1	4,542	-	-	-	-	-	-	-	-	-	-	-	-
624	-	-	-	-	-	-	0.9	979	-	-	-	-	-	-
625	-	-	-	-	-	-	-	-	-	-	-	-	-	-
626	-	-	-	-	-	-	0.0	53	-	-	-	-	-	-
627	-	-	-	-	-	-	-	-	-	-	-	-	-	-
628	-	-	-	-	-	-	3.8	4,182	-	-	-	-	-	-
629	-	-	-	-	-	-	30.5	-	-	-	-	-	-	-
630	-	-	-	-	-	-	2.7	-	-	-	-	-	-	-
631	-	-	-	-	-	-	-	-	-	-	-	-	-	-
632	-	-	-	-	-	-	-	-	-	-	-	-	-	-
633	-	-	-	-	-	-	-	-	-	-	-	-	-	-
634	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-
635	-	-	-	-	-	-	-	-	-	-	-	-	-	-
636	-	-	-	-	-	-	-	-	-	-	-	-	-	-
637	-	-	-	-	-	-	-	-	-	-	-	-	-	-
638	-	-	-	-	-	-	-	-	-	-	-	-	-	-
639	-	-	-	-	-	-	-	-	-	-	-	-	-	-
640	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-
641	34.8	3,037	-	-	-	-	-	-	-	-	-	-	-	-
642	-	-	-	-	-	-	-	-	-	-	-	-	-	-
643	-	-	-	-	-	-	-	-	-	-	-	-	-	-
644	-	-	-	-	-	-	-	-	-	-	-	-	-	-
646	0.4	458	-	-	-	-	-	-	-	-	-	-	-	-
647	-	-	-	-	-	-	-	-	-	-	-	-	-	-
650	-	-	-	-	-	-	-	-	-	-	-	-	-	-
652	-	-	-	-	-	-	-	-	-	-	-	-	-	-
653	-	-	-	-	-	-	-	-	-	-	-	-	-	-
654	-	-	-	-	-	-	-	-	-	-	-	-	-	-
655	-	-	-	-	-	-	0.0	30	-	-	-	-	-	-
656	-	-	-	-	-	-	-	-	-	-	-	-	-	-
659	-	-	-	-	-	-	-	-	-	-	-	-	-	-
660	-	-	-	-	-	-	-	-	-	-	-	-	-	-
661	-	-	-	-	-	-	-	-	-	-	-	-	-	-
662	-	-	-	-	-	-	-	-	0.4	977	-	-	-	-
663	-	-	-	-	-	-	-	-	-	-	-	-	-	-
664	-	-	-	-	-	-	10.5	11,529	-	-	-	-	-	-
666	-	-	-	-	-	-	-	-	-	-	-	-	-	-
667	0.4	394	-	-	-	-	-	-	0.9	2,163	-	-	-	-
670	-	-	-	-	-	-	-	-	-	-	-	-	-	-
671	0.6	680	-	-	-	-	-	-	-	-	-	-	-	-
673	-	-	-	-	-	-	-	-	-	-	-	-	-	-
675	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
678	-	-	-	-	-	-	-	-	-	-	-	-	-	-
679	-	-	-	-	-	-	-	-	-	-	-	-	-	-
681	1.4	1,562	-	-	-	-	-	-	-	-	-	-	-	-
683	-	-	-	-	-	-	-	-	-	-	-	-	-	-
686	-	-	-	-	-	-	-	-	-	-	-	-	-	-
689	53.5	58,830	-	-	-	-	-	-	0.5	1,185	-	-	-	-
690	0.1	114	-	-	-	-	-	-	-	-	-	-	-	-
692	-	-	-	-	-	-	-	-	-	-	-	-	-	-
693	-	-	-	-	-	-	-	-	-	-	-	-	-	-
694	5.3	5,873	-	-	-	-	11.6	12,728	-	-	-	-	-	-
695	-	-	-	-	-	-	-	-	-	-	-	-	-	-
697	-	-	-	-	-	-	-	-	-	-	-	-	-	-
698	-	-	-	-	-	-	-	-	-	-	-	-	-	-
699	-	-	-	-	-	-	-	-	-	-	-	-	-	-
700	-	-	-	-	-	-	-	-	-	-	-	-	-	-
701	-	-	-	-	-	-	-	-	-	-	-	-	-	-
702	-	-	-	-	-	-	-	-	-	-	-	-	-	-
703	-	-	-	-	-	-	-	-	-	-	-	-	-	-
704	-	-	-	-	-	-	-	-	-	-	-	-	-	-
705	-	-	-	-	-	-	-	-	-	-	-	-	-	-
706	-	-	-	-	-	-	-	-	0.1	125	-	-	-	-
707	-	-	-	-	-	-	18.8	20,626	-	-	-	-	-	-
708	-	-	-	-	-	-	0.1	64	-	-	-	-	-	-
709	0.4	483	-	-	-	-	-	-	-	-	-	-	-	-
710	1.5	1,610	-	-	-	-	2.6	2,909	-	-	-	-	-	-
714	-	-	-	-	-	-	-	-	-	-	-	-	-	-
715	-	-	-	-	-	-	-	-	-	-	-	-	-	-
717	-	-	-	-	-	-	-	-	-	-	-	-	-	-
719	-	-	-	-	-	-	-	-	-	-	-	-	-	-
720	-	-	-	-	-	-	-	-	-	-	-	-	-	-
721	-	-	-	-	-	-	-	-	-	-	-	-	-	-
722	-	-	-	-	-	-	-	-	-	-	-	-	-	-
723	-	-	-	-	-	-	-	-	-	-	-	-	-	-
724	-	-	-	-	-	-	-	-	-	-	-	-	-	-
725	-	-	-	-	-	-	-	-	-	-	-	-	-	-
726	-	-	-	-	-	-	-	-	13.7	31,451	-	-	-	-
727	-	-	-	-	-	-	-	-	-	-	-	-	-	-
728	-	-	-	-	-	-	-	-	-	-	-	-	-	-
729	-	-	-	-	-	-	-	-	-	-	-	-	-	-
730	-	-	-	-	-	-	-	-	-	-	-	-	-	-
731	-	-	-	-	-	-	-	-	-	-	-	-	-	-
732	-	-	-	-	-	-	-	-	-	-	-	-	-	-
733	-	-	-	-	-	-	-	-	-	-	-	-	-	-
734	-	-	-	-	-	-	-	-	-	-	-	-	-	-
735	-	-	-	-	-	-	-	-	-	-	-	-	-	-
736	-	-	-	-	-	-	-	-	-	-	-	-	-	-
738	-	-	-	-	-	-	-	-	7.6	17,516	-	-	-	-
739	-	-	-	-	-	-	-	-	23.3	53,654	-	-	-	-
740	-	-	-	-	-	-	-	-	33.7	77,544	-	-	-	-
741	0.2	250	-	-	-	-	-	-	33.9	78,039	-	-	-	-
742	-	-	-	-	-	-	-	-	-	-	-	-	-	-
743	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
744	-	-	-	-	-	-	-	-	-	-	-	-	-	-
745	-	-	-	-	-	-	-	-	-	-	-	-	-	-
747	-	-	-	-	-	-	-	-	-	-	-	-	-	-
748	-	-	-	-	-	-	-	-	-	-	-	-	-	-
749	-	-	-	-	-	-	-	-	-	-	-	-	-	-
750	-	-	-	-	-	-	-	-	-	-	-	-	-	-
751	-	-	-	-	-	-	0.0	39	-	-	-	-	-	-
752	-	-	-	-	-	-	-	-	-	-	-	-	-	-
753	-	-	-	-	-	-	-	-	-	-	-	-	-	-
754	-	-	-	-	-	-	-	-	-	-	-	-	-	-
755	-	-	-	-	-	-	-	-	-	-	-	-	-	-
756	-	-	-	-	-	-	-	-	-	-	-	-	-	-
757	-	-	-	-	-	-	-	-	-	-	-	-	-	-
758	-	-	-	-	-	-	-	-	-	-	-	-	-	-
759	-	-	-	-	-	-	-	-	-	-	-	-	-	-
760	-	-	-	-	-	-	-	-	-	-	-	-	-	-
761	-	-	-	-	-	-	-	-	-	-	-	-	-	-
762	-	-	-	-	-	-	-	-	-	-	-	-	-	-
763	-	-	-	-	-	-	-	-	-	-	-	-	-	-
764	-	-	-	-	-	-	-	-	-	-	-	-	-	-
765	-	-	-	-	-	-	-	-	-	-	-	-	-	-
766	-	-	-	-	-	-	-	-	-	-	-	-	-	-
767	-	-	-	-	-	-	-	-	-	-	-	-	-	-
768	-	-	-	-	-	-	-	-	-	-	-	-	-	-
769	-	-	-	-	-	-	-	-	-	-	-	-	-	-
770	-	-	-	-	-	-	-	-	-	-	-	-	-	-
771	-	-	-	-	-	-	-	-	-	-	-	-	-	-
772	-	-	-	-	-	-	-	-	-	-	-	-	-	-
773	-	-	-	-	-	-	-	-	-	-	-	-	-	-
774	-	-	-	-	-	-	-	-	-	-	-	-	-	-
775	-	-	-	-	-	-	-	-	-	-	-	-	-	-
776	-	-	-	-	-	-	-	-	-	-	-	-	-	-
777	-	-	-	-	-	-	-	-	-	-	-	-	-	-
778	-	-	-	-	-	-	-	-	-	-	-	-	-	-
779	-	-	-	-	-	-	-	-	-	-	-	-	-	-
780	-	-	-	-	-	-	-	-	-	-	-	-	-	-
781	-	-	-	-	-	-	-	-	-	-	-	-	-	-
782	-	-	-	-	-	-	-	-	-	-	-	-	-	-
783	-	-	-	-	-	-	-	-	-	-	-	-	-	-
784	-	-	-	-	-	-	-	-	-	-	-	-	-	-
785	-	-	-	-	-	-	-	-	-	-	-	-	-	-
786	-	-	-	-	-	-	-	-	-	-	-	-	-	-
787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
788	-	-	-	-	-	-	-	-	-	-	-	-	-	-
789	-	-	-	-	-	-	-	-	-	-	-	-	-	-
790	-	-	-	-	-	-	-	-	-	-	-	-	-	-
791	-	-	-	-	-	-	-	-	-	-	-	-	-	-
792	-	-	-	-	-	-	-	-	-	-	-	-	-	-
793	-	-	-	-	-	-	-	-	-	-	-	-	-	-
794	-	-	-	-	-	-	-	-	-	-	-	-	-	-
795	-	-	-	-	-	-	-	-	-	-	-	-	-	-
796	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
797	-	-	-	-	-	-	-	-	-	-	-	-	-	-
798	-	-	-	-	-	-	-	-	-	-	-	-	-	-
799	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800	-	-	-	-	-	-	-	-	-	-	-	-	-	-
801	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802	-	-	-	-	-	-	-	-	-	-	-	-	-	-
803	-	-	-	-	-	-	-	-	-	-	-	-	-	-
804	-	-	-	-	-	-	-	-	-	-	-	-	-	-
805	-	-	-	-	-	-	-	-	-	-	-	-	-	-
806	-	-	-	-	-	-	-	-	-	-	-	-	-	-
807	-	-	-	-	-	-	-	-	-	-	-	-	-	-
808	-	-	-	-	-	-	-	-	-	-	-	-	-	-
809	-	-	-	-	-	-	-	-	-	-	-	-	-	-
810	-	-	-	-	-	-	-	-	-	-	-	-	-	-
811	-	-	-	-	-	-	-	-	-	-	-	-	-	-
812	-	-	-	-	-	-	-	-	-	-	-	-	-	-
813	-	-	-	-	-	-	-	-	-	-	-	-	-	-
814	-	-	-	-	-	-	-	-	-	-	-	-	-	-
815	-	-	-	-	-	-	-	-	-	-	-	-	-	-
816	-	-	-	-	-	-	-	-	-	-	-	-	-	-
817	-	-	-	-	-	-	-	-	-	-	-	-	-	-
818	-	-	-	-	-	-	-	-	-	-	-	-	-	-
819	-	-	-	-	-	-	-	-	-	-	-	-	-	-
820	-	-	-	-	-	-	-	-	-	-	-	-	-	-
821	-	-	-	-	-	-	-	-	-	-	-	-	-	-
822	-	-	-	-	-	-	-	-	-	-	-	-	-	-
823	-	-	-	-	-	-	-	-	-	-	-	-	-	-
824	-	-	-	-	-	-	-	-	0.0	2	-	-	-	-
825	-	-	-	-	-	-	-	-	-	-	-	-	-	-
826	-	-	-	-	-	-	-	-	-	-	-	-	-	-
827	-	-	-	-	-	-	-	-	-	-	-	-	-	-
828	-	-	-	-	-	-	-	-	-	-	-	-	-	-
829	-	-	-	-	-	-	-	-	-	-	-	-	-	-
830	-	-	-	-	-	-	-	-	-	-	-	-	-	-
831	-	-	-	-	-	-	-	-	-	-	-	-	-	-
832	-	-	-	-	-	-	-	-	-	-	-	-	-	-
833	-	-	-	-	-	-	-	-	-	-	-	-	-	-
834	-	-	-	-	-	-	-	-	-	-	-	-	-	-
835	-	-	-	-	-	-	-	-	-	-	-	-	-	-
836	-	-	-	-	-	-	-	-	-	-	-	-	-	-
837	-	-	-	-	-	-	-	-	-	-	-	-	-	-
838	-	-	-	-	-	-	-	-	-	-	-	-	-	-
839	-	-	-	-	-	-	-	-	-	-	-	-	-	-
840	-	-	-	-	-	-	-	-	-	-	-	-	-	-
841	-	-	-	-	-	-	-	-	-	-	-	-	-	-
842	-	-	-	-	-	-	-	-	-	-	-	-	-	-
843	-	-	-	-	-	-	-	-	-	-	-	-	-	-
844	-	-	-	-	-	-	-	-	-	-	-	-	-	-
845	-	-	-	-	-	-	-	-	-	-	-	-	-	-
846	-	-	-	-	-	-	-	-	-	-	-	-	-	-
847	-	-	-	-	-	-	-	-	-	-	-	-	-	-
848	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
849	-	-	-	-	-	-	-	-	-	-	-	-	-	-
850	-	-	-	-	-	-	-	-	-	-	-	-	-	-
851	-	-	-	-	-	-	-	-	-	-	-	-	-	-
852	-	-	-	-	-	-	-	-	-	-	-	-	-	-
853	-	-	-	-	-	-	-	-	-	-	-	-	-	-
854	-	-	-	-	-	-	-	-	-	-	-	-	-	-
855	-	-	-	-	-	-	-	-	-	-	-	-	-	-
856	-	-	-	-	-	-	-	-	-	-	-	-	-	-
857	-	-	-	-	-	-	-	-	-	-	-	-	-	-
858	-	-	-	-	-	-	-	-	-	-	-	-	-	-
859	-	-	-	-	-	-	-	-	-	-	-	-	-	-
860	-	-	-	-	-	-	-	-	-	-	-	-	-	-
861	-	-	-	-	-	-	-	-	-	-	-	-	-	-
862	-	-	-	-	-	-	-	-	-	-	-	-	-	-
863	-	-	-	-	-	-	-	-	-	-	-	-	-	-
864	-	-	-	-	-	-	-	-	-	-	-	-	-	-
865	-	-	-	-	-	-	-	-	-	-	-	-	-	-
866	-	-	-	-	-	-	-	-	-	-	-	-	-	-
867	-	-	-	-	-	-	-	-	-	-	-	-	-	-
868	-	-	-	-	-	-	-	-	-	-	-	-	-	-
869	-	-	-	-	-	-	-	-	-	-	-	-	-	-
870	-	-	-	-	-	-	-	-	-	-	-	-	-	-
871	-	-	-	-	-	-	-	-	-	-	-	-	-	-
872	-	-	-	-	-	-	-	-	-	-	-	-	-	-
873	-	-	-	-	-	-	-	-	-	-	-	-	-	-
874	-	-	-	-	-	-	-	-	-	-	-	-	-	-
875	-	-	-	-	-	-	-	-	-	-	-	-	-	-
876	-	-	-	-	-	-	-	-	-	-	-	-	-	-
877	-	-	-	-	-	-	-	-	-	-	-	-	-	-
878	-	-	-	-	-	-	-	-	-	-	-	-	-	-
879	-	-	-	-	-	-	-	-	-	-	-	-	-	-
880	-	-	-	-	-	-	-	-	-	-	-	-	-	-
881	-	-	-	-	-	-	-	-	-	-	-	-	-	-
882	-	-	-	-	-	-	-	-	-	-	-	-	-	-
883	-	-	-	-	-	-	-	-	-	-	-	-	-	-
884	-	-	-	-	-	-	-	-	-	-	-	-	-	-
885	-	-	-	-	-	-	-	-	-	-	-	-	-	-
886	-	-	-	-	-	-	-	-	-	-	-	-	-	-
887	-	-	-	-	-	-	-	-	-	-	-	-	-	-
888	-	-	-	-	-	-	-	-	-	-	-	-	-	-
889	-	-	-	-	-	-	-	-	-	-	-	-	-	-
890	-	-	-	-	-	-	-	-	-	-	-	-	-	-
891	-	-	-	-	-	-	-	-	-	-	-	-	-	-
892	-	-	-	-	-	-	-	-	-	-	-	-	-	-
893	-	-	-	-	-	-	-	-	-	-	-	-	-	-
894	-	-	-	-	-	-	-	-	-	-	-	-	-	-
895	-	-	-	-	-	-	-	-	-	-	-	-	-	-
896	-	-	-	-	-	-	-	-	-	-	-	-	-	-
897	-	-	-	-	-	-	-	-	-	-	-	-	-	-
898	-	-	-	-	-	-	-	-	-	-	-	-	-	-
899	-	-	-	-	-	-	-	-	-	-	-	-	-	-
900	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
901	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902	-	-	-	-	-	-	-	-	-	-	-	-	-	-
903	0.0	16	-	-	-	-	-	-	-	-	-	-	-	-
904	-	-	-	-	-	-	-	-	-	-	-	-	-	-
905	3.3	3,581	-	-	-	-	-	-	-	-	-	-	-	-
906	-	-	-	-	-	-	-	-	-	-	-	-	-	-
907	-	-	-	-	-	-	-	-	-	-	-	-	-	-
908	-	-	-	-	-	-	-	-	-	-	-	-	-	-
909	-	-	-	-	-	-	-	-	-	-	-	-	-	-
910	-	-	-	-	-	-	-	-	-	-	-	-	-	-
911	-	-	-	-	-	-	-	-	-	-	-	-	-	-
912	-	-	-	-	-	-	-	-	-	-	-	-	-	-
913	-	-	-	-	-	-	-	-	-	-	-	-	-	-
914	-	-	-	-	-	-	-	-	-	-	-	-	-	-
915	-	-	-	-	-	-	-	-	-	-	-	-	-	-
916	-	-	-	-	-	-	-	-	-	-	-	-	-	-
917	-	-	-	-	-	-	-	-	-	-	-	-	-	-
918	-	-	-	-	-	-	-	-	-	-	-	-	-	-
919	-	-	-	-	-	-	-	-	-	-	-	-	-	-
920	-	-	-	-	-	-	-	-	-	-	-	-	-	-
921	-	-	-	-	-	-	-	-	-	-	-	-	-	-
922	-	-	-	-	-	-	-	-	-	-	-	-	-	-
923	-	-	-	-	-	-	-	-	-	-	-	-	-	-
924	-	-	-	-	-	-	-	-	-	-	-	-	-	-
925	0.2	210	-	-	-	-	-	-	-	-	-	-	-	-
926	-	-	-	-	-	-	-	-	-	-	-	-	-	-
927	-	-	-	-	-	-	-	-	-	-	-	-	-	-
928	-	-	-	-	-	-	-	-	-	-	-	-	-	-
929	-	-	-	-	-	-	-	-	-	-	-	-	-	-
930	-	-	-	-	-	-	-	-	-	-	-	-	-	-
931	-	-	-	-	-	-	-	-	-	-	-	-	-	-
932	-	-	-	-	-	-	-	-	-	-	-	-	-	-
933	-	-	-	-	-	-	-	-	-	-	-	-	-	-
934	-	-	-	-	-	-	-	-	-	-	-	-	-	-
935	-	-	-	-	-	-	-	-	-	-	-	-	-	-
936	-	-	-	-	-	-	-	-	-	-	-	-	-	-
937	-	-	-	-	-	-	-	-	-	-	-	-	-	-
938	-	-	-	-	-	-	-	-	-	-	-	-	-	-
939	-	-	-	-	-	-	-	-	-	-	-	-	-	-
940	-	-	-	-	-	-	-	-	-	-	-	-	-	-
941	-	-	-	-	-	-	-	-	-	-	-	-	-	-
942	-	-	-	-	-	-	-	-	-	-	-	-	-	-
943	-	-	-	-	-	-	-	-	-	-	-	-	-	-
944	-	-	-	-	-	-	-	-	-	-	-	-	-	-
945	-	-	-	-	-	-	-	-	-	-	-	-	-	-
946	-	-	-	-	-	-	-	-	-	-	-	-	-	-
947	-	-	-	-	-	-	-	-	-	-	-	-	-	-
953	-	-	-	-	-	-	-	-	-	-	-	-	-	-
954	-	-	-	-	-	-	-	-	-	-	-	-	-	-
955	-	-	-	-	-	-	55.4	60,924	-	-	-	-	-	-
956	-	-	-	-	-	-	-	-	-	-	-	-	-	-
957	0.1	70	8.1	8,873	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
958	-	-	-	-	-	-	-	-	-	-	-	-	-	-
959	-	-	-	-	-	-	-	-	-	-	-	-	-	-
960	-	-	-	-	-	-	-	-	-	-	-	-	-	-
961	-	-	-	-	-	-	-	-	-	-	-	-	-	-
962	-	-	-	-	-	-	-	-	-	-	-	-	-	-
963	-	-	-	-	-	-	-	-	-	-	-	-	-	-
964	-	-	-	-	-	-	-	-	-	-	-	-	-	-
965	-	-	-	-	-	-	-	-	-	-	-	-	-	-
966	-	-	-	-	-	-	-	-	-	-	-	-	-	-
967	-	-	-	-	-	-	-	-	-	-	-	-	-	-
968	-	-	-	-	-	-	-	-	-	-	-	-	-	-
969	-	-	-	-	-	-	-	-	-	-	-	-	-	-
970	-	-	-	-	-	-	-	-	-	-	-	-	-	-
971	-	-	-	-	-	-	-	-	-	-	-	-	-	-
972	-	-	-	-	-	-	-	-	-	-	-	-	-	-
973	-	-	-	-	-	-	-	-	-	-	-	-	-	-
974	-	-	-	-	-	-	-	-	-	-	-	-	-	-
975	-	-	-	-	-	-	-	-	-	-	-	-	-	-
976	441.8	485,931	-	-	-	-	-	-	-	-	-	-	-	-
977	66.3	42	-	-	744.0	30	-	-	-	-	-	-	-	-
978	1,428.0	-	-	-	0.0	-	-	-	-	-	-	-	-	-
979	-	-	-	-	-	-	-	-	-	-	-	-	-	-
980	-	-	-	-	-	-	-	-	-	-	-	-	-	-
981	127.4	-	-	-	-	-	-	-	-	-	-	-	-	-
982	-	-	-	-	-	-	-	-	-	-	-	-	-	-
983	-	-	-	-	-	-	-	-	-	-	-	-	-	-
984	-	-	-	-	-	-	-	-	-	-	-	-	-	-
985	-	-	-	-	-	-	-	-	-	-	-	-	-	-
986	-	-	-	-	-	-	-	-	12.3	28,250	-	-	-	-
987	-	-	-	-	-	-	-	-	-	-	-	-	-	-
988	-	-	-	-	-	-	-	-	-	-	-	-	-	-
989	-	-	-	-	-	-	-	-	-	-	-	-	-	-
990	-	-	-	-	-	-	-	-	-	-	-	-	-	-
991	-	-	-	-	-	-	-	-	-	-	-	-	-	-
992	-	-	-	-	-	-	-	-	-	-	-	-	-	-
993	-	-	-	-	-	-	-	-	-	-	-	-	-	-
994	-	-	-	-	-	-	-	-	-	-	-	-	-	-
995	-	-	-	-	-	-	-	-	-	-	-	-	-	-
996	-	-	-	-	-	-	-	-	-	-	-	-	-	-
997	-	-	-	-	-	-	-	-	-	-	-	-	-	-
998	-	-	-	-	-	-	-	-	-	-	-	-	-	-
999	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1001	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1003	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1004	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1005	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1006	127.3	139,988	-	-	-	-	-	-	-	-	-	-	-	-
1007	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1009	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1010	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1012	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1013	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1014	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1015	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1016	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1017	120.7	132,791	-	-	-	-	-	-	-	-	-	-	-	-
1018	108.4	119,270	-	-	-	-	-	-	-	-	-	-	-	-
1019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1021	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1022	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1023	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1024	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1025	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1026	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1027	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1028	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1029	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1030	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1031	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1032	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1033	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1034	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1035	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1036	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1037	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1038	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1039	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1040	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1041	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1042	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1043	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1044	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1045	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1046	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1047	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1048	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1049	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1051	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1052	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1053	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1054	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1055	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1056	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1057	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1058	66.9	73,636	-	-	-	-	-	-	-	-	-	-	-	-
1059	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1060	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1061	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1062	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1063	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1064	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1068	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1069	0.2	226	-	-	-	-	-	-	0.2	372	-	-	-	-
1070	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
1071	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1072	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1073	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1074	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1075	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1076	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1077	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1078	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1079	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1080	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1081	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1082	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1083	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1084	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1085	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1086	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1087	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1088	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1089	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1090	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1091	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1092	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1093	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1094	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1095	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1096	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1097	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1098	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1099	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1101	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1102	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1103	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1104	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1105	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1108	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1109	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1110	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1111	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1112	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1113	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1114	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1115	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1116	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1117	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1118	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1119	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1120	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1121	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1122	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1123	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1124	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1125	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1126	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1127	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1128	-	-	-	-	-	-	0.0	2	-	-	-	-	-	-
1129	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1130	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1131	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1132	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1133	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1134	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1135	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1136	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1137	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1138	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1139	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1140	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1141	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1142	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1143	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1144	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1145	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
0	-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	0.0	0	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	0.4	98	1.8	442	89.4	21,456	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	0.0	0	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	1.0	241	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	-	-	-	-	-	-
20	0.1	19	-	-	4.4	1,067	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	0.0	7	-	-	0.5	119	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	-	-	-	-
25	-	-	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-
30	0.0	0	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-	-	-	-
36	5.7	1,370	-	-	-	-	-	-	-	-	-	-
37	-	-	-	-	-	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-	-	-	-
39	-	-	-	-	3.6	853	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-
41	-	-	-	-	-	-	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-
43	-	-	-	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-	-	-	-
45	0.0	4	-	-	-	-	-	-	-	-	-	-
49	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-
51	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	-	-	-
53	-	-	-	-	-	-	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	0.1	27	-	-	-	-	-	-
57	-	-	-	-	6.7	1,617	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	-	-	-	-
59	0.8	189	-	-	5.4	1,296	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-	-	-	-
62	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
63	-	-	-	-	-	-	-	-	-	-	-	-
64	-	-	-	-	-	-	-	-	-	-	-	-
65	0.0	0	-	-	-	-	-	-	-	-	-	-
66	0.0	1	-	-	-	-	-	-	-	-	-	-
67	-	-	-	-	-	-	-	-	-	-	-	-
68	-	-	-	-	-	-	-	-	-	-	-	-
69	-	-	-	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-	-	-	-
71	-	-	-	-	-	-	-	-	-	-	-	-
72	-	-	-	-	-	-	-	-	-	-	-	-
73	-	-	-	-	-	-	-	-	-	-	-	-
75	-	-	-	-	-	-	-	-	-	-	-	-
77	0.0	0	-	-	-	-	-	-	-	-	-	-
78	-	-	-	-	-	-	-	-	-	-	-	-
79	-	-	-	-	-	-	-	-	-	-	-	-
80	-	-	-	-	-	-	-	-	-	-	-	-
81	6.2	1,493	-	-	-	-	-	-	-	-	-	-
82	-	-	-	-	-	-	-	-	-	-	-	-
83	-	-	-	-	-	-	-	-	-	-	-	-
84	-	-	-	-	-	-	-	-	-	-	-	-
85	1.6	392	-	-	-	-	-	-	-	-	-	-
86	-	-	-	-	-	-	-	-	-	-	-	-
87	-	-	-	-	-	-	-	-	-	-	-	-
88	-	-	-	-	-	-	-	-	-	-	-	-
91	-	-	-	-	-	-	-	-	-	-	-	-
92	-	-	-	-	-	-	-	-	-	-	-	-
93	-	-	-	-	-	-	-	-	-	-	-	-
94	-	-	-	-	-	-	-	-	-	-	-	-
95	-	-	-	-	-	-	-	-	-	-	-	-
96	0.7	175	-	-	-	-	-	-	-	-	-	-
97	9.4	2,252	-	-	-	-	-	-	-	-	-	-
98	-	-	-	-	-	-	-	-	-	-	-	-
99	-	-	-	-	-	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-	-	-	-	-
101	-	-	-	-	-	-	-	-	-	-	-	-
102	-	-	-	-	-	-	-	-	-	-	-	-
103	-	-	-	-	-	-	-	-	-	-	-	-
104	-	-	-	-	-	-	-	-	-	-	-	-
106	0.0	4	0.4	102	-	-	-	-	-	-	-	-
107	-	-	-	-	-	-	-	-	-	-	-	-
109	-	-	-	-	-	-	-	-	-	-	-	-
110	15.2	3,640	-	-	-	-	-	-	-	-	-	-
111	1.7	401	0.0	2	-	-	-	-	-	-	-	-
112	0.2	56	-	-	-	-	0.0	7	-	-	-	-
113	-	-	-	-	-	-	-	-	-	-	-	-
114	-	-	-	-	-	-	-	-	-	-	-	-
115	-	-	-	-	-	-	-	-	-	-	-	-
116	2.3	546	-	-	-	-	-	-	-	-	-	-
117	2.5	609	8.2	1,968	-	-	-	-	-	-	-	-
118	-	-	-	-	-	-	-	-	-	-	-	-
120	-	-	-	-	-	-	-	-	-	-	-	-
121	5.6	1,352	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
122	-	-	-	-	-	-	-	-	-	-	-	-
123	-	-	-	-	-	-	-	-	-	-	-	-
124	-	-	-	-	-	-	-	-	-	-	-	-
125	-	-	-	-	-	-	-	-	-	-	-	-
126	-	-	-	-	-	-	-	-	-	-	-	-
127	-	-	-	-	-	-	-	-	-	-	-	-
128	-	-	-	-	-	-	-	-	-	-	-	-
129	-	-	-	-	-	-	-	-	-	-	-	-
130	0.2	52	0.0	10	-	-	-	-	-	-	-	-
131	-	-	-	-	-	-	-	-	-	-	-	-
132	-	-	-	-	-	-	-	-	-	-	-	-
133	-	-	-	-	-	-	-	-	-	-	-	-
134	-	-	-	-	-	-	-	-	-	-	-	-
135	-	-	-	-	-	-	-	-	-	-	-	-
136	-	-	-	-	-	-	-	-	-	-	-	-
137	-	-	-	-	-	-	-	-	-	-	-	-
138	6.1	1,460	-	-	-	-	-	-	-	-	-	-
139	0.1	13	-	-	-	-	-	-	-	-	-	-
140	-	-	-	-	-	-	-	-	-	-	-	-
141	-	-	-	-	-	-	-	-	-	-	-	-
142	-	-	-	-	-	-	-	-	-	-	-	-
143	-	-	-	-	-	-	-	-	-	-	-	-
144	0.2	45	-	-	-	-	-	-	-	-	-	-
145	-	-	-	-	-	-	-	-	-	-	-	-
146	-	-	-	-	-	-	-	-	-	-	-	-
147	0.4	104	-	-	-	-	-	-	-	-	-	-
148	-	-	-	-	-	-	-	-	-	-	-	-
149	22.4	5,375	-	-	-	-	-	-	-	-	-	-
150	0.0	6	-	-	-	-	-	-	-	-	-	-
151	-	-	-	-	-	-	-	-	-	-	-	-
152	0.0	0	-	-	-	-	-	-	-	-	-	-
153	-	-	-	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-	-	-	-
155	-	-	-	-	-	-	-	-	-	-	-	-
156	-	-	-	-	-	-	-	-	-	-	-	-
157	-	-	-	-	-	-	-	-	-	-	-	-
158	-	-	-	-	-	-	-	-	-	-	-	-
159	-	-	-	-	-	-	-	-	-	-	-	-
160	4.6	1,095	-	-	-	-	-	-	-	-	-	-
161	-	-	-	-	-	-	-	-	-	-	-	-
162	10.8	2,589	-	-	-	-	-	-	-	-	-	-
163	-	-	-	-	-	-	-	-	-	-	-	-
164	3.0	711	-	-	-	-	-	-	-	-	-	-
165	-	-	11.0	2,639	-	-	-	-	-	-	-	-
166	-	-	-	-	-	-	-	-	-	-	-	-
167	-	-	0.1	23	-	-	-	-	-	-	-	-
168	-	-	-	-	-	-	-	-	-	-	-	-
169	4.2	1,005	-	-	-	-	-	-	-	-	-	-
170	-	-	-	-	-	-	-	-	-	-	-	-
171	-	-	-	-	-	-	-	-	-	-	-	-
172	-	-	-	-	-	-	-	-	-	-	-	-
173	27.5	6,610	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
174	-	-	-	-	-	-	-	-	-	-	-	-
175	-	-	-	-	-	-	-	-	-	-	-	-
176	-	-	-	-	-	-	-	-	-	-	-	-
177	-	-	-	-	-	-	-	-	-	-	-	-
178	-	-	-	-	-	-	-	-	-	-	-	-
179	-	-	-	-	-	-	-	-	-	-	-	-
180	1.3	320	-	-	11.0	2,638	-	-	-	-	-	-
181	-	-	-	-	0.0	1	-	-	-	-	-	-
182	-	-	-	-	-	-	-	-	-	-	-	-
183	-	-	-	-	-	-	-	-	-	-	-	-
184	-	-	-	-	-	-	-	-	-	-	-	-
185	-	-	-	-	-	-	-	-	-	-	-	-
186	-	-	-	-	-	-	-	-	-	-	-	-
187	-	-	-	-	-	-	-	-	-	-	-	-
188	-	-	-	-	-	-	-	-	-	-	-	-
189	-	-	-	-	-	-	-	-	-	-	-	-
190	-	-	-	-	-	-	-	-	-	-	-	-
191	-	-	-	-	-	-	-	-	-	-	-	-
192	-	-	-	-	-	-	-	-	-	-	-	-
193	-	-	-	-	-	-	-	-	-	-	-	-
194	-	-	-	-	-	-	-	-	-	-	-	-
195	-	-	-	-	-	-	37.2	8,936	-	-	-	-
196	1.0	230	-	-	-	-	-	-	-	-	-	-
197	-	-	-	-	-	-	-	-	-	-	-	-
198	-	-	-	-	-	-	-	-	-	-	-	-
199	-	-	-	-	-	-	-	-	-	-	-	-
200	-	-	-	-	-	-	-	-	-	-	-	-
201	-	-	-	-	-	-	-	-	-	-	-	-
202	3.4	815	-	-	-	-	-	-	-	-	-	-
203	11.5	2,759	5.2	1,254	-	-	-	-	-	-	-	-
204	-	-	-	-	-	-	29.1	6,996	-	-	-	-
205	-	-	-	-	-	-	-	-	-	-	-	-
206	-	-	-	-	0.1	15	40.5	9,731	-	-	-	-
207	-	-	-	-	-	-	-	-	-	-	-	-
208	4.2	1,016	-	-	-	-	-	-	-	-	-	-
209	-	-	14.5	3,489	-	-	-	-	-	-	-	-
210	2.5	597	0.2	37	0.5	126	35.0	8,404	-	-	-	-
211	0.0	0	26.4	6,326	-	-	-	-	-	-	-	-
212	-	-	-	-	-	-	-	-	-	-	-	-
213	-	-	-	-	-	-	-	-	-	-	-	-
214	-	-	-	-	-	-	-	-	-	-	-	-
215	-	-	-	-	-	-	24.4	5,847	-	-	-	-
216	-	-	-	-	-	-	-	-	-	-	-	-
217	-	-	-	-	-	-	-	-	-	-	-	-
218	-	-	-	-	-	-	-	-	-	-	-	-
219	-	-	-	-	-	-	-	-	-	-	-	-
220	1.5	359	-	-	-	-	-	-	-	-	-	-
221	-	-	-	-	-	-	-	-	-	-	-	-
222	-	-	-	-	-	-	-	-	-	-	-	-
223	-	-	0.0	11	-	-	-	-	-	-	-	-
224	-	-	-	-	-	-	-	-	-	-	-	-
225	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
226	-	-	-	-	-	-	-	-	-	-	-	-
227	-	-	-	-	-	-	-	-	-	-	-	-
228	-	-	-	-	-	-	-	-	-	-	-	-
229	-	-	-	-	-	-	-	-	-	-	-	-
230	-	-	-	-	-	-	-	-	-	-	-	-
232	-	-	-	-	-	-	-	-	-	-	-	-
233	-	-	-	-	-	-	-	-	-	-	-	-
234	-	-	-	-	-	-	-	-	-	-	-	-
235	-	-	-	-	-	-	-	-	-	-	-	-
236	-	-	129.0	30,957	-	-	-	-	-	-	-	-
237	9.2	2,219	-	-	-	-	-	-	-	-	-	-
238	-	-	-	-	-	-	-	-	-	-	-	-
239	2.8	667	-	-	-	-	-	-	-	-	-	-
240	-	-	0.4	93	-	-	-	-	-	-	-	-
241	-	-	-	-	-	-	-	-	-	-	-	-
243	-	-	-	-	-	-	-	-	-	-	-	-
244	-	-	-	-	-	-	-	-	-	-	-	-
245	-	-	-	-	-	-	-	-	-	-	-	-
246	-	-	-	-	-	-	-	-	-	-	-	-
247	-	-	-	-	-	-	-	-	-	-	-	-
248	0.4	107	0.1	32	-	-	-	-	-	-	-	-
249	0.2	52	0.1	14	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-	-	-	-	-	-
251	-	-	-	-	-	-	-	-	-	-	-	-
252	-	-	-	-	-	-	-	-	-	-	-	-
253	-	-	-	-	-	-	-	-	-	-	-	-
254	9.6	2,301	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	-	-	-
256	-	-	-	-	-	-	-	-	-	-	-	-
257	-	-	-	-	-	-	-	-	-	-	-	-
258	-	-	-	-	-	-	-	-	-	-	-	-
259	-	-	-	-	-	-	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	-	-	-	-
261	-	-	-	-	-	-	-	-	-	-	-	-
262	-	-	-	-	-	-	-	-	-	-	-	-
263	0.0	0	22.5	5,400	-	-	-	-	-	-	-	-
264	-	-	-	-	-	-	-	-	-	-	-	-
265	-	-	-	-	-	-	-	-	-	-	-	-
266	2.4	569	-	-	-	-	-	-	-	-	-	-
267	4.8	1,150	-	-	-	-	-	-	-	-	-	-
268	0.2	53	0.1	14	-	-	-	-	-	-	-	-
269	-	-	-	-	-	-	-	-	-	-	-	-
270	0.9	218	-	-	-	-	-	-	-	-	-	-
271	-	-	-	-	-	-	-	-	-	-	-	-
272	-	-	-	-	-	-	-	-	-	-	-	-
273	-	-	-	-	-	-	-	-	-	-	-	-
274	0.7	170	-	-	-	-	-	-	-	-	-	-
275	-	-	0.1	18	-	-	-	-	-	-	-	-
276	-	-	-	-	-	-	-	-	-	-	-	-
277	-	-	-	-	-	-	-	-	-	-	-	-
278	5.2	1,251	0.6	142	-	-	-	-	-	-	-	-
279	0.0	3	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
280	-	-	-	-	-	-	-	-	-	-	-	-
281	-	-	-	-	-	-	-	-	-	-	-	-
282	-	-	-	-	-	-	-	-	-	-	-	-
284	-	-	-	-	-	-	-	-	-	-	-	-
285	-	-	-	-	-	-	-	-	-	-	-	-
286	-	-	-	-	-	-	-	-	-	-	-	-
287	5.3	1,262	-	-	4.6	1,113	-	-	-	-	-	-
288	-	-	-	-	-	-	-	-	-	-	-	-
289	-	-	-	-	-	-	-	-	-	-	-	-
290	-	-	-	-	-	-	-	-	-	-	-	-
291	-	-	-	-	-	-	-	-	-	-	-	-
292	-	-	-	-	-	-	-	-	-	-	-	-
293	-	-	-	-	-	-	-	-	-	-	-	-
294	-	-	-	-	-	-	-	-	-	-	-	-
295	2.2	522	-	-	-	-	-	-	-	-	-	-
296	0.0	11	-	-	-	-	-	-	-	-	-	-
297	-	-	-	-	-	-	-	-	-	-	-	-
298	-	-	-	-	-	-	-	-	-	-	-	-
299	2.5	591	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-	-	-
301	-	-	-	-	-	-	-	-	-	-	-	-
302	-	-	-	-	-	-	-	-	-	-	-	-
303	2.8	678	-	-	-	-	-	-	-	-	-	-
304	-	-	-	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-	-	-	-
306	-	-	-	-	-	-	-	-	-	-	-	-
307	-	-	-	-	-	-	-	-	-	-	-	-
308	-	-	-	-	-	-	-	-	-	-	-	-
309	-	-	-	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-	-	-	-
311	-	-	-	-	-	-	-	-	-	-	-	-
312	3.0	712	-	-	-	-	-	-	-	-	-	-
313	2.1	512	-	-	-	-	-	-	-	-	-	-
314	-	-	-	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-	-	-	-
316	-	-	-	-	-	-	-	-	-	-	-	-
317	-	-	-	-	-	-	-	-	-	-	-	-
318	-	-	-	-	-	-	-	-	-	-	-	-
319	-	-	-	-	-	-	-	-	-	-	-	-
321	-	-	-	-	-	-	-	-	-	-	-	-
322	-	-	-	-	-	-	-	-	-	-	-	-
323	-	-	-	-	-	-	-	-	-	-	-	-
324	-	-	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-	-	-
326	-	-	-	-	-	-	-	-	-	-	-	-
327	-	-	-	-	-	-	-	-	-	-	-	-
328	-	-	-	-	-	-	-	-	-	-	-	-
329	-	-	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-	-	-
331	-	-	-	-	-	-	-	-	-	-	-	-
332	-	-	-	-	-	-	-	-	-	-	-	-
333	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
334	-	-	-	-	-	-	-	-	-	-	-	-
335	-	-	-	-	-	-	-	-	-	-	-	-
336	-	-	-	-	-	-	-	-	-	-	-	-
337	-	-	-	-	-	-	-	-	-	-	-	-
338	13.8	-	-	-	-	-	-	-	-	-	-	-
339	-	-	-	-	-	-	-	-	-	-	-	-
340	-	-	-	-	-	-	-	-	-	-	-	-
341	-	-	-	-	-	-	-	-	-	-	-	-
342	-	-	-	-	-	-	-	-	-	-	-	-
343	0.5	-	-	-	-	-	-	-	-	-	-	-
344	0.0	0	-	-	-	-	-	-	-	-	-	-
345	-	-	-	-	-	-	-	-	-	-	-	-
346	-	-	-	-	-	-	-	-	-	-	-	-
347	0.1	35	-	-	12.8	3,080	-	-	-	-	-	-
348	-	-	-	-	-	-	-	-	-	-	-	-
349	-	-	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	-	-	-	-	-	-
351	-	-	-	-	-	-	-	-	-	-	-	-
352	-	-	-	-	-	-	-	-	-	-	-	-
353	0.2	50	-	-	0.0	0	-	-	-	-	-	-
354	-	-	-	-	-	-	-	-	-	-	-	-
355	-	-	-	-	-	-	-	-	-	-	-	-
356	-	-	-	-	-	-	-	-	-	-	-	-
357	-	-	-	-	16.6	-	-	-	-	-	-	-
358	-	-	-	-	-	-	-	-	-	-	-	-
359	-	-	-	-	-	-	-	-	-	-	-	-
360	-	-	-	-	-	-	-	-	-	-	-	-
361	-	-	-	-	-	-	-	-	-	-	-	-
362	-	-	-	-	-	-	-	-	-	-	-	-
363	-	-	-	-	-	-	-	-	-	-	-	-
364	-	-	-	-	-	-	-	-	-	-	-	-
365	5.1	1,217	-	-	-	-	-	-	-	-	-	-
366	0.0	2	-	-	-	-	-	-	-	-	-	-
367	-	-	-	-	-	-	-	-	-	-	-	-
368	-	-	-	-	-	-	-	-	-	-	-	-
369	-	-	-	-	-	-	-	-	-	-	-	-
370	-	-	-	-	-	-	-	-	-	-	-	-
371	0.0	5	-	-	9.7	2,328	-	-	-	-	-	-
372	3.2	-	0.5	-	-	-	-	-	-	-	-	-
373	-	-	-	-	-	-	-	-	-	-	-	-
374	-	-	-	-	-	-	-	-	-	-	-	-
375	10.2	-	-	-	-	-	-	-	-	-	-	-
376	-	-	-	-	-	-	-	-	-	-	-	-
377	-	-	-	-	-	-	-	-	-	-	-	-
378	-	-	-	-	-	-	-	-	-	-	-	-
380	0.5	114	-	-	-	-	73.3	17,600	-	-	-	-
381	-	-	-	-	-	-	-	-	-	-	-	-
382	-	-	-	-	-	-	-	-	-	-	-	-
383	0.0	11	-	-	-	-	-	-	-	-	-	-
385	-	-	-	-	-	-	-	-	-	-	-	-
386	0.1	33	-	-	-	-	-	-	-	-	-	-
387	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
388	2.0	-	-	-	-	-	-	-	-	-	-	-
389	-	-	-	-	-	-	-	-	-	-	-	-
390	-	-	-	-	-	-	-	-	-	-	-	-
391	-	-	-	-	-	-	-	-	-	-	-	-
392	-	-	-	-	-	-	-	-	-	-	-	-
393	-	-	-	-	-	-	-	-	-	-	-	-
394	-	-	-	-	-	-	-	-	-	-	-	-
395	1.0	-	-	-	-	-	0.0	-	-	-	-	-
396	-	-	-	-	-	-	-	-	-	-	-	-
397	1.1	-	-	-	-	-	0.0	-	-	-	-	-
398	-	-	-	-	-	-	-	-	-	-	-	-
399	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-	-	-	-	-
401	-	-	-	-	-	-	-	-	-	-	-	-
402	-	-	-	-	-	-	-	-	-	-	-	-
403	0.1	25	-	-	-	-	-	-	-	-	-	-
404	0.3	71	-	-	5.4	1,286	-	-	-	-	-	-
405	2.2	-	-	-	-	-	96.7	2,986	-	-	-	-
406	-	-	-	-	-	-	-	-	-	-	-	-
408	-	-	-	-	-	-	-	-	-	-	-	-
409	-	-	-	-	-	-	-	-	-	-	-	-
410	1.3	-	-	-	-	-	-	-	-	-	-	-
411	-	-	-	-	-	-	-	-	-	-	-	-
412	-	-	-	-	-	-	-	-	-	-	-	-
413	7.1	-	-	-	-	-	-	-	-	-	-	-
414	-	-	-	-	-	-	-	-	-	-	-	-
415	-	-	-	-	-	-	-	-	-	-	-	-
416	-	-	-	-	-	-	-	-	-	-	-	-
417	-	-	-	-	-	-	-	-	-	-	-	-
418	-	-	-	-	-	-	-	-	-	-	-	-
419	-	-	-	-	-	-	-	-	-	-	-	-
420	-	-	-	-	-	-	-	-	-	-	-	-
421	0.2	46	-	-	0.3	79	-	-	-	-	-	-
422	-	-	-	-	-	-	-	-	-	-	-	-
423	-	-	-	-	-	-	-	-	-	-	-	-
424	-	-	-	-	-	-	-	-	-	-	-	-
425	-	-	-	-	-	-	-	-	-	-	-	-
426	-	-	-	-	-	-	-	-	-	-	-	-
427	-	-	-	-	-	-	-	-	-	-	-	-
428	-	-	-	-	0.1	28	-	-	-	-	-	-
429	-	-	-	-	-	-	-	-	-	-	-	-
430	-	-	-	-	-	-	-	-	-	-	-	-
431	-	-	-	-	-	-	-	-	-	-	-	-
432	-	-	-	-	-	-	-	-	-	-	-	-
433	-	-	-	-	-	-	-	-	-	-	-	-
434	-	-	-	-	-	-	-	-	-	-	-	-
435	-	-	-	-	-	-	-	-	-	-	-	-
436	-	-	-	-	-	-	-	-	-	-	-	-
437	-	-	-	-	23.8	5,701	-	-	-	-	-	-
438	-	-	-	-	-	-	-	-	-	-	-	-
439	-	-	-	-	-	-	-	-	-	-	-	-
440	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
441	-	-	-	-	-	-	-	-	-	-	-	-
442	-	-	-	-	-	-	-	-	-	-	-	-
443	-	-	-	-	-	-	-	-	-	-	-	-
444	-	-	-	-	-	-	-	-	-	-	-	-
445	-	-	-	-	-	-	-	-	-	-	-	-
446	5.9	1,405	1.2	291	2.3	556	-	-	-	-	-	-
447	-	-	-	-	-	-	-	-	-	-	-	-
448	-	-	-	-	-	-	-	-	-	-	-	-
451	0.2	54	-	-	-	-	-	-	-	-	-	-
452	-	-	-	-	-	-	-	-	-	-	-	-
453	-	-	-	-	-	-	-	-	-	-	-	-
508	-	-	-	-	-	-	-	-	-	-	-	-
509	9.5	2,277	167.2	40,122	-	-	-	-	-	-	-	-
510	-	-	-	-	-	-	-	-	-	-	-	-
511	-	-	-	-	-	-	-	-	-	-	-	-
512	-	-	-	-	-	-	-	-	-	-	-	-
513	-	-	-	-	-	-	-	-	-	-	-	-
514	-	-	-	-	-	-	-	-	-	-	-	-
515	-	-	-	-	-	-	-	-	-	-	-	-
516	0.1	31	-	-	-	-	-	-	-	-	-	-
517	0.5	115	-	-	-	-	-	-	-	-	-	-
518	-	-	0.0	0	-	-	0.1	30	-	-	-	-
519	0.0	0	0.3	62	-	-	-	-	-	-	-	-
520	0.1	24	0.0	3	-	-	-	-	-	-	-	-
521	-	-	-	-	-	-	-	-	-	-	-	-
522	-	-	-	-	-	-	-	-	-	-	-	-
523	-	-	2.2	518	-	-	-	-	-	-	-	-
524	1.6	379	161.3	38,722	-	-	39.2	9,397	-	-	-	-
525	-	-	1.8	432	-	-	-	-	-	-	-	-
526	0.0	1	4.5	1,083	-	-	-	-	-	-	-	-
527	0.0	0	4.7	1,128	-	-	-	-	-	-	-	-
528	-	-	-	-	-	-	-	-	-	-	-	-
529	-	-	-	-	-	-	-	-	-	-	-	-
530	15.3	3,665	-	-	-	-	-	-	-	-	-	-
531	-	-	-	-	-	-	-	-	-	-	-	-
532	-	-	-	-	-	-	-	-	-	-	-	-
533	0.7	171	-	-	-	-	-	-	-	-	-	-
534	1.8	424	-	-	-	-	-	-	-	-	-	-
535	-	-	-	-	-	-	-	-	-	-	-	-
536	-	-	-	-	-	-	-	-	-	-	-	-
537	-	-	-	-	-	-	-	-	-	-	-	-
538	0.0	0	-	-	-	-	-	-	-	-	-	-
539	-	-	-	-	-	-	-	-	-	-	-	-
540	-	-	-	-	-	-	-	-	-	-	-	-
541	-	-	-	-	-	-	-	-	-	-	-	-
542	-	-	-	-	-	-	-	-	-	-	-	-
543	-	-	-	-	-	-	-	-	-	-	-	-
544	-	-	-	-	-	-	-	-	-	-	-	-
545	0.6	155	6.1	1,473	-	-	-	-	-	-	-	-
546	-	-	-	-	-	-	-	-	-	-	-	-
547	3.3	791	-	-	-	-	-	-	-	-	-	-
548	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
549	-	-	-	-	-	-	-	-	-	-	-	-
550	2.1	507	-	-	-	-	-	-	-	-	-	-
551	-	-	-	-	-	-	-	-	-	-	-	-
552	-	-	-	-	-	-	-	-	-	-	-	-
553	-	-	-	-	-	-	-	-	-	-	-	-
554	-	-	-	-	-	-	-	-	-	-	-	-
555	-	-	-	-	-	-	-	-	-	-	-	-
556	-	-	-	-	-	-	-	-	-	-	-	-
557	-	-	-	-	-	-	-	-	-	-	-	-
558	-	-	-	-	-	-	-	-	-	-	-	-
559	-	-	-	-	-	-	-	-	-	-	-	-
560	-	-	-	-	-	-	-	-	-	-	-	-
561	-	-	0.1	23	-	-	-	-	-	-	-	-
562	-	-	-	-	-	-	-	-	-	-	-	-
563	-	-	-	-	-	-	-	-	-	-	-	-
564	-	-	-	-	-	-	-	-	-	-	-	-
565	-	-	-	-	-	-	-	-	-	-	-	-
566	-	-	-	-	-	-	-	-	-	-	-	-
567	-	-	-	-	-	-	-	-	-	-	-	-
568	-	-	-	-	-	-	-	-	-	-	-	-
569	27.1	6,502	-	-	-	-	-	-	-	-	-	-
570	5.8	1,395	-	-	-	-	-	-	-	-	-	-
571	2.7	648	-	-	2.1	514	-	-	-	-	-	-
572	-	-	0.1	31	-	-	-	-	-	-	-	-
573	-	-	-	-	-	-	-	-	-	-	-	-
574	-	-	-	-	-	-	-	-	-	-	-	-
576	-	-	-	-	-	-	-	-	-	-	-	-
579	0.7	169	-	-	-	-	-	-	-	-	-	-
580	1.7	400	-	-	-	-	-	-	-	-	-	-
581	0.1	12	-	-	3.8	916	-	-	-	-	-	-
582	-	-	-	-	-	-	-	-	-	-	-	-
583	-	-	-	-	-	-	-	-	-	-	-	-
584	-	-	-	-	-	-	-	-	-	-	-	-
585	-	-	-	-	-	-	-	-	-	-	-	-
586	0.0	11	-	-	2.5	606	-	-	-	-	-	-
587	-	-	-	-	-	-	-	-	-	-	-	-
589	-	-	-	-	-	-	-	-	-	-	-	-
590	-	-	-	-	-	-	-	-	-	-	-	-
591	62.7	15,049	-	-	-	-	-	-	-	-	-	-
592	-	-	-	-	-	-	-	-	-	-	-	-
593	-	-	-	-	-	-	-	-	-	-	-	-
594	1.0	228	-	-	-	-	-	-	-	-	-	-
596	-	-	-	-	-	-	-	-	-	-	-	-
597	-	-	-	-	-	-	-	-	-	-	-	-
598	-	-	-	-	-	-	-	-	-	-	-	-
599	-	-	-	-	-	-	-	-	-	-	-	-
600	-	-	-	-	-	-	-	-	-	-	-	-
601	-	-	-	-	-	-	-	-	-	-	-	-
602	-	-	-	-	-	-	-	-	-	-	-	-
603	-	-	-	-	-	-	-	-	-	-	-	-
604	-	-	-	-	-	-	-	-	-	-	-	-
605	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
606	-	-	-	-	-	-	-	-	-	-	-	-
607	-	-	-	-	-	-	-	-	-	-	-	-
608	-	-	-	-	-	-	-	-	-	-	-	-
609	-	-	-	-	-	-	-	-	-	-	-	-
610	-	-	-	-	-	-	-	-	-	-	-	-
611	-	-	-	-	-	-	-	-	-	-	-	-
612	-	-	-	-	-	-	-	-	-	-	-	-
617	-	-	-	-	-	-	-	-	-	-	-	-
620	0.0	1	-	-	5.5	1,324	-	-	-	-	-	-
621	-	-	0.0	0	-	-	-	-	-	-	-	-
623	1.6	374	17.8	4,276	-	-	-	-	-	-	-	-
624	-	-	-	-	-	-	-	-	-	-	-	-
625	-	-	0.0	4	-	-	-	-	-	-	-	-
626	-	-	-	-	-	-	-	-	-	-	-	-
627	-	-	0.2	45	-	-	-	-	-	-	-	-
628	-	-	-	-	-	-	-	-	-	-	-	-
629	-	-	-	-	-	-	-	-	-	-	-	-
630	-	-	-	-	-	-	-	-	-	-	-	-
631	-	-	-	-	-	-	-	-	-	-	-	-
632	-	-	-	-	-	-	-	-	-	-	-	-
633	-	-	-	-	-	-	-	-	-	-	-	-
634	-	-	-	-	-	-	-	-	-	-	-	-
635	-	-	-	-	-	-	-	-	-	-	-	-
636	-	-	-	-	-	-	-	-	-	-	-	-
637	-	-	-	-	-	-	-	-	-	-	-	-
638	-	-	-	-	-	-	-	-	-	-	-	-
639	0.2	55	-	-	4.7	1,132	-	-	-	-	-	-
640	-	-	-	-	-	-	-	-	-	-	-	-
641	-	-	-	-	-	-	-	-	-	-	-	-
642	-	-	-	-	-	-	-	-	-	-	-	-
643	-	-	-	-	-	-	-	-	-	-	-	-
644	-	-	-	-	-	-	-	-	-	-	-	-
646	-	-	-	-	-	-	-	-	-	-	-	-
647	-	-	-	-	-	-	-	-	-	-	-	-
650	-	-	-	-	-	-	-	-	-	-	-	-
652	-	-	-	-	-	-	-	-	-	-	-	-
653	-	-	-	-	-	-	-	-	-	-	-	-
654	-	-	-	-	-	-	-	-	-	-	-	-
655	-	-	-	-	-	-	-	-	-	-	-	-
656	-	-	-	-	-	-	-	-	-	-	-	-
659	-	-	-	-	-	-	-	-	-	-	-	-
660	0.0	1	-	-	0.2	50	-	-	-	-	-	-
661	-	-	-	-	-	-	-	-	-	-	-	-
662	1.1	253	-	-	-	-	-	-	-	-	-	-
663	1.1	262	-	-	-	-	-	-	-	-	-	-
664	-	-	-	-	-	-	-	-	-	-	-	-
666	0.6	141	-	-	-	-	-	-	-	-	-	-
667	0.6	143	-	-	-	-	-	-	-	-	-	-
670	-	-	-	-	-	-	-	-	-	-	-	-
671	-	-	-	-	-	-	-	-	-	-	-	-
673	-	-	-	-	-	-	-	-	-	-	-	-
675	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
678	-	-	-	-	-	-	-	-	-	-	-	-
679	-	-	-	-	-	-	-	-	-	-	-	-
681	-	-	-	-	-	-	-	-	-	-	-	-
683	-	-	-	-	-	-	-	-	-	-	-	-
686	-	-	-	-	-	-	-	-	-	-	-	-
689	-	-	-	-	-	-	-	-	-	-	-	-
690	-	-	-	-	-	-	-	-	-	-	-	-
692	-	-	-	-	-	-	-	-	-	-	-	-
693	-	-	-	-	-	-	-	-	-	-	-	-
694	1.1	258	-	-	14.4	3,450	-	-	-	-	-	-
695	-	-	-	-	-	-	-	-	-	-	-	-
697	-	-	-	-	-	-	-	-	-	-	-	-
698	-	-	-	-	-	-	-	-	-	-	-	-
699	-	-	-	-	-	-	-	-	-	-	-	-
700	-	-	-	-	-	-	-	-	-	-	-	-
701	-	-	-	-	-	-	-	-	-	-	-	-
702	-	-	-	-	-	-	-	-	-	-	-	-
703	-	-	-	-	-	-	-	-	-	-	-	-
704	-	-	-	-	-	-	-	-	-	-	-	-
705	-	-	-	-	-	-	-	-	-	-	-	-
706	-	-	-	-	-	-	-	-	-	-	-	-
707	-	-	-	-	-	-	-	-	-	-	-	-
708	-	-	-	-	-	-	-	-	-	-	-	-
709	-	-	-	-	-	-	-	-	-	-	-	-
710	-	-	-	-	-	-	-	-	-	-	-	-
714	-	-	-	-	-	-	-	-	-	-	-	-
715	-	-	-	-	-	-	-	-	-	-	-	-
717	-	-	-	-	-	-	-	-	-	-	-	-
719	-	-	-	-	-	-	-	-	-	-	-	-
720	0.2	55	-	-	-	-	-	-	-	-	-	-
721	-	-	-	-	-	-	-	-	-	-	-	-
722	-	-	-	-	-	-	-	-	-	-	-	-
723	-	-	-	-	-	-	-	-	-	-	-	-
724	-	-	-	-	-	-	-	-	-	-	-	-
725	-	-	-	-	-	-	-	-	-	-	-	-
726	3.0	717	-	-	-	-	-	-	-	-	-	-
727	-	-	-	-	-	-	-	-	-	-	-	-
728	-	-	-	-	-	-	-	-	-	-	-	-
729	-	-	-	-	-	-	-	-	-	-	-	-
730	-	-	-	-	-	-	-	-	-	-	-	-
731	-	-	-	-	-	-	-	-	-	-	-	-
732	-	-	-	-	-	-	-	-	-	-	-	-
733	-	-	-	-	-	-	-	-	-	-	-	-
734	-	-	-	-	-	-	-	-	-	-	-	-
735	0.0	0	-	-	-	-	-	-	-	-	-	-
736	-	-	-	-	-	-	-	-	-	-	-	-
738	1.4	325	-	-	-	-	-	-	-	-	-	-
739	-	-	-	-	-	-	-	-	-	-	-	-
740	-	-	-	-	-	-	-	-	-	-	-	-
741	-	-	-	-	-	-	-	-	-	-	-	-
742	-	-	-	-	-	-	-	-	-	-	-	-
743	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
744	-	-	-	-	-	-	-	-	-	-	-	-
745	-	-	-	-	-	-	-	-	-	-	-	-
747	-	-	-	-	-	-	-	-	-	-	-	-
748	-	-	-	-	-	-	-	-	-	-	-	-
749	-	-	-	-	-	-	-	-	-	-	-	-
750	-	-	-	-	-	-	-	-	-	-	-	-
751	4.6	1,102	-	-	0.0	3	-	-	-	-	-	-
752	-	-	-	-	-	-	-	-	-	-	-	-
753	-	-	-	-	-	-	-	-	-	-	-	-
754	-	-	-	-	-	-	-	-	-	-	-	-
755	-	-	-	-	-	-	-	-	-	-	-	-
756	-	-	-	-	-	-	-	-	-	-	-	-
757	-	-	-	-	-	-	-	-	-	-	-	-
758	-	-	-	-	-	-	-	-	-	-	-	-
759	-	-	-	-	-	-	-	-	-	-	-	-
760	-	-	-	-	-	-	-	-	-	-	-	-
761	-	-	-	-	-	-	-	-	-	-	-	-
762	-	-	-	-	-	-	-	-	-	-	-	-
763	-	-	-	-	-	-	-	-	-	-	-	-
764	-	-	-	-	-	-	-	-	-	-	-	-
765	-	-	-	-	-	-	-	-	-	-	-	-
766	-	-	-	-	-	-	-	-	-	-	-	-
767	-	-	-	-	-	-	-	-	-	-	-	-
768	-	-	-	-	-	-	-	-	-	-	-	-
769	-	-	-	-	-	-	-	-	-	-	-	-
770	-	-	-	-	-	-	-	-	-	-	-	-
771	-	-	-	-	-	-	-	-	-	-	-	-
772	-	-	-	-	-	-	-	-	-	-	-	-
773	-	-	-	-	-	-	-	-	-	-	-	-
774	-	-	-	-	-	-	-	-	-	-	-	-
775	-	-	-	-	-	-	-	-	-	-	-	-
776	-	-	-	-	-	-	-	-	-	-	-	-
777	-	-	-	-	-	-	-	-	-	-	-	-
778	-	-	-	-	-	-	-	-	-	-	-	-
779	-	-	-	-	-	-	-	-	-	-	-	-
780	-	-	-	-	-	-	-	-	-	-	-	-
781	-	-	-	-	-	-	-	-	-	-	-	-
782	-	-	-	-	-	-	-	-	-	-	-	-
783	-	-	-	-	-	-	-	-	-	-	-	-
784	-	-	-	-	-	-	-	-	-	-	-	-
785	-	-	-	-	-	-	-	-	-	-	-	-
786	-	-	-	-	-	-	-	-	-	-	-	-
787	-	-	-	-	-	-	-	-	-	-	-	-
788	-	-	-	-	-	-	-	-	-	-	-	-
789	-	-	-	-	-	-	-	-	-	-	-	-
790	-	-	-	-	-	-	-	-	-	-	-	-
791	-	-	-	-	-	-	-	-	-	-	-	-
792	-	-	-	-	-	-	-	-	-	-	-	-
793	-	-	-	-	-	-	-	-	-	-	-	-
794	-	-	-	-	-	-	-	-	-	-	-	-
795	-	-	-	-	-	-	-	-	-	-	-	-
796	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
797	-	-	-	-	-	-	-	-	-	-	-	-
798	-	-	-	-	-	-	-	-	-	-	-	-
799	-	-	-	-	-	-	-	-	-	-	-	-
800	-	-	-	-	-	-	-	-	-	-	-	-
801	-	-	-	-	-	-	-	-	-	-	-	-
802	-	-	-	-	-	-	-	-	-	-	-	-
803	-	-	-	-	-	-	-	-	-	-	-	-
804	-	-	-	-	-	-	-	-	-	-	-	-
805	-	-	-	-	-	-	-	-	-	-	-	-
806	-	-	-	-	-	-	-	-	-	-	-	-
807	-	-	-	-	-	-	-	-	-	-	-	-
808	-	-	-	-	-	-	-	-	-	-	-	-
809	-	-	-	-	-	-	-	-	-	-	-	-
810	-	-	-	-	-	-	-	-	-	-	-	-
811	-	-	-	-	-	-	-	-	-	-	-	-
812	-	-	-	-	-	-	-	-	-	-	-	-
813	-	-	-	-	-	-	-	-	-	-	-	-
814	-	-	-	-	-	-	-	-	-	-	-	-
815	-	-	-	-	-	-	-	-	-	-	-	-
816	-	-	-	-	-	-	-	-	-	-	-	-
817	-	-	-	-	-	-	-	-	-	-	-	-
818	-	-	-	-	-	-	-	-	-	-	-	-
819	-	-	-	-	-	-	-	-	-	-	-	-
820	-	-	-	-	-	-	-	-	-	-	-	-
821	-	-	-	-	-	-	-	-	-	-	-	-
822	-	-	-	-	-	-	-	-	-	-	-	-
823	-	-	-	-	-	-	-	-	-	-	-	-
824	1.4	342	-	-	-	-	-	-	-	-	-	-
825	-	-	-	-	-	-	-	-	-	-	-	-
826	-	-	-	-	-	-	-	-	-	-	-	-
827	-	-	-	-	-	-	-	-	-	-	-	-
828	-	-	-	-	-	-	-	-	-	-	-	-
829	-	-	-	-	-	-	-	-	-	-	-	-
830	-	-	-	-	-	-	-	-	-	-	-	-
831	-	-	-	-	-	-	-	-	-	-	-	-
832	-	-	-	-	-	-	-	-	-	-	-	-
833	-	-	-	-	-	-	-	-	-	-	-	-
834	-	-	-	-	-	-	-	-	-	-	-	-
835	-	-	-	-	-	-	-	-	-	-	-	-
836	-	-	-	-	-	-	-	-	-	-	-	-
837	-	-	-	-	-	-	-	-	-	-	-	-
838	-	-	-	-	-	-	-	-	-	-	-	-
839	-	-	-	-	-	-	-	-	-	-	-	-
840	-	-	-	-	-	-	-	-	-	-	-	-
841	-	-	-	-	-	-	-	-	-	-	-	-
842	-	-	-	-	-	-	-	-	-	-	-	-
843	-	-	-	-	-	-	-	-	-	-	-	-
844	-	-	-	-	-	-	-	-	-	-	-	-
845	-	-	-	-	-	-	-	-	-	-	-	-
846	-	-	-	-	-	-	-	-	-	-	-	-
847	-	-	-	-	-	-	-	-	-	-	-	-
848	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
849	-	-	-	-	-	-	-	-	-	-	-	-
850	-	-	-	-	-	-	-	-	-	-	-	-
851	-	-	-	-	-	-	-	-	-	-	-	-
852	-	-	-	-	-	-	-	-	-	-	-	-
853	-	-	-	-	-	-	-	-	-	-	-	-
854	-	-	-	-	-	-	-	-	-	-	-	-
855	-	-	-	-	-	-	-	-	-	-	-	-
856	-	-	-	-	-	-	-	-	-	-	-	-
857	-	-	-	-	-	-	-	-	-	-	-	-
858	-	-	-	-	-	-	-	-	-	-	-	-
859	-	-	-	-	-	-	-	-	-	-	-	-
860	-	-	-	-	-	-	-	-	-	-	-	-
861	-	-	-	-	-	-	-	-	-	-	-	-
862	-	-	-	-	-	-	-	-	-	-	-	-
863	-	-	-	-	-	-	-	-	-	-	-	-
864	-	-	-	-	-	-	-	-	-	-	-	-
865	-	-	-	-	-	-	-	-	-	-	-	-
866	-	-	-	-	-	-	-	-	-	-	-	-
867	-	-	-	-	-	-	-	-	-	-	-	-
868	-	-	-	-	-	-	-	-	-	-	-	-
869	-	-	-	-	-	-	-	-	-	-	-	-
870	-	-	-	-	-	-	-	-	-	-	-	-
871	-	-	-	-	-	-	-	-	-	-	-	-
872	-	-	-	-	-	-	-	-	-	-	-	-
873	-	-	-	-	-	-	-	-	-	-	-	-
874	-	-	-	-	-	-	-	-	-	-	-	-
875	-	-	-	-	-	-	-	-	-	-	-	-
876	-	-	-	-	-	-	-	-	-	-	-	-
877	-	-	-	-	-	-	-	-	-	-	-	-
878	-	-	-	-	-	-	-	-	-	-	-	-
879	-	-	-	-	-	-	-	-	-	-	-	-
880	-	-	-	-	-	-	-	-	-	-	-	-
881	-	-	-	-	-	-	-	-	-	-	-	-
882	-	-	-	-	-	-	-	-	-	-	-	-
883	-	-	-	-	-	-	-	-	-	-	-	-
884	-	-	-	-	-	-	-	-	-	-	-	-
885	-	-	-	-	-	-	-	-	-	-	-	-
886	-	-	-	-	-	-	-	-	-	-	-	-
887	-	-	-	-	-	-	-	-	-	-	-	-
888	-	-	-	-	-	-	-	-	-	-	-	-
889	-	-	-	-	-	-	-	-	-	-	-	-
890	-	-	-	-	-	-	-	-	-	-	-	-
891	-	-	-	-	-	-	-	-	-	-	-	-
892	-	-	-	-	-	-	-	-	-	-	-	-
893	-	-	-	-	-	-	-	-	-	-	-	-
894	-	-	-	-	-	-	-	-	-	-	-	-
895	-	-	-	-	-	-	-	-	-	-	-	-
896	-	-	-	-	-	-	-	-	-	-	-	-
897	-	-	-	-	-	-	-	-	-	-	-	-
898	-	-	-	-	-	-	-	-	-	-	-	-
899	-	-	-	-	-	-	-	-	-	-	-	-
900	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
901	-	-	-	-	-	-	-	-	-	-	-	-
902	-	-	-	-	-	-	-	-	-	-	-	-
903	-	-	-	-	-	-	-	-	-	-	-	-
904	-	-	-	-	-	-	-	-	-	-	-	-
905	-	-	-	-	-	-	-	-	-	-	-	-
906	-	-	-	-	-	-	-	-	-	-	-	-
907	-	-	-	-	-	-	-	-	-	-	-	-
908	-	-	-	-	-	-	-	-	-	-	-	-
909	-	-	-	-	-	-	-	-	-	-	-	-
910	-	-	-	-	-	-	-	-	-	-	-	-
911	-	-	-	-	-	-	-	-	-	-	-	-
912	-	-	-	-	-	-	-	-	-	-	-	-
913	-	-	-	-	-	-	-	-	-	-	-	-
914	-	-	-	-	-	-	-	-	-	-	-	-
915	-	-	-	-	-	-	-	-	-	-	-	-
916	-	-	-	-	-	-	-	-	-	-	-	-
917	-	-	-	-	-	-	-	-	-	-	-	-
918	-	-	-	-	-	-	-	-	-	-	-	-
919	-	-	-	-	-	-	-	-	-	-	-	-
920	-	-	-	-	-	-	-	-	-	-	-	-
921	-	-	-	-	-	-	-	-	-	-	-	-
922	-	-	-	-	-	-	-	-	-	-	-	-
923	-	-	-	-	-	-	-	-	-	-	-	-
924	-	-	-	-	-	-	-	-	-	-	-	-
925	-	-	-	-	-	-	-	-	-	-	-	-
926	-	-	-	-	-	-	-	-	-	-	-	-
927	-	-	-	-	-	-	-	-	-	-	-	-
928	-	-	-	-	-	-	-	-	-	-	-	-
929	-	-	-	-	-	-	-	-	-	-	-	-
930	-	-	-	-	-	-	-	-	-	-	-	-
931	-	-	-	-	-	-	-	-	-	-	-	-
932	-	-	-	-	-	-	-	-	-	-	-	-
933	-	-	-	-	-	-	-	-	-	-	-	-
934	-	-	-	-	-	-	-	-	-	-	-	-
935	-	-	-	-	-	-	-	-	-	-	-	-
936	-	-	-	-	-	-	-	-	-	-	-	-
937	-	-	-	-	-	-	-	-	-	-	-	-
938	53.6	12,872	-	-	-	-	-	-	-	-	-	-
939	-	-	-	-	-	-	-	-	-	-	-	-
940	-	-	-	-	-	-	-	-	-	-	-	-
941	0.0	1	-	-	-	-	-	-	-	-	-	-
942	0.0	0	-	-	-	-	-	-	-	-	-	-
943	-	-	-	-	-	-	-	-	-	-	-	-
944	-	-	-	-	-	-	-	-	-	-	-	-
945	-	-	-	-	-	-	-	-	-	-	-	-
946	-	-	-	-	-	-	-	-	-	-	-	-
947	-	-	-	-	-	-	-	-	-	-	-	-
953	-	-	-	-	-	-	-	-	-	-	-	-
954	-	-	-	-	-	-	-	-	-	-	-	-
955	10.0	2,408	-	-	-	-	-	-	-	-	-	-
956	-	-	-	-	-	-	-	-	-	-	-	-
957	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
958	-	-	-	-	-	-	-	-	-	-	-	-
959	0.0	-	-	-	-	-	-	-	-	-	-	-
960	-	-	-	-	-	-	-	-	-	-	-	-
961	-	-	-	-	-	-	-	-	-	-	-	-
962	-	-	-	-	-	-	-	-	-	-	-	-
963	-	-	-	-	-	-	-	-	-	-	-	-
964	-	-	-	-	-	-	-	-	-	-	-	-
965	-	-	-	-	-	-	-	-	-	-	-	-
966	-	-	-	-	-	-	-	-	-	-	-	-
967	-	-	-	-	-	-	-	-	-	-	-	-
968	-	-	-	-	-	-	-	-	-	-	-	-
969	-	-	-	-	-	-	-	-	-	-	-	-
970	-	-	-	-	-	-	-	-	-	-	-	-
971	-	-	-	-	-	-	-	-	-	-	-	-
972	-	-	-	-	-	-	-	-	-	-	-	-
973	-	-	-	-	-	-	-	-	-	-	-	-
974	-	-	-	-	-	-	-	-	-	-	-	-
975	-	-	-	-	-	-	-	-	-	-	-	-
976	0.1	32	-	-	-	-	-	-	-	-	-	-
977	-	-	-	-	-	-	-	-	-	-	-	-
978	-	-	6.9	-	-	-	-	-	-	-	-	-
979	-	-	-	-	-	-	-	-	-	-	-	-
980	-	-	-	-	-	-	-	-	-	-	-	-
981	-	-	-	-	-	-	-	-	-	-	-	-
982	-	-	-	-	-	-	-	-	-	-	-	-
983	2.2	521	-	-	-	-	-	-	-	-	-	-
984	4.3	1,024	-	-	-	-	-	-	-	-	-	-
985	-	-	-	-	-	-	-	-	-	-	-	-
986	-	-	-	-	-	-	-	-	-	-	-	-
987	-	-	-	-	-	-	-	-	-	-	-	-
988	-	-	-	-	-	-	-	-	-	-	-	-
989	-	-	-	-	-	-	-	-	-	-	-	-
990	-	-	-	-	-	-	-	-	-	-	-	-
991	-	-	-	-	-	-	-	-	-	-	-	-
992	-	-	-	-	-	-	-	-	-	-	-	-
993	-	-	-	-	-	-	-	-	-	-	-	-
994	-	-	-	-	-	-	-	-	-	-	-	-
995	-	-	-	-	-	-	-	-	-	-	-	-
996	-	-	-	-	-	-	-	-	-	-	-	-
997	-	-	-	-	-	-	-	-	-	-	-	-
998	-	-	-	-	-	-	-	-	-	-	-	-
999	-	-	-	-	-	-	-	-	-	-	-	-
1000	-	-	-	-	-	-	-	-	-	-	-	-
1001	-	-	-	-	-	-	-	-	-	-	-	-
1002	-	-	-	-	-	-	-	-	-	-	-	-
1003	-	-	-	-	-	-	-	-	-	-	-	-
1004	-	-	-	-	-	-	-	-	-	-	-	-
1005	-	-	-	-	-	-	-	-	-	-	-	-
1006	-	-	-	-	-	-	-	-	-	-	-	-
1007	-	-	-	-	-	-	-	-	-	-	-	-
1008	-	-	-	-	-	-	-	-	-	-	-	-
1009	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1010	-	-	-	-	-	-	-	-	-	-	-	-
1011	-	-	-	-	-	-	-	-	-	-	-	-
1012	-	-	-	-	-	-	-	-	-	-	-	-
1013	-	-	-	-	-	-	-	-	-	-	-	-
1014	-	-	-	-	-	-	-	-	-	-	-	-
1015	-	-	-	-	-	-	-	-	-	-	-	-
1016	-	-	-	-	-	-	-	-	-	-	-	-
1017	-	-	-	-	-	-	-	-	-	-	-	-
1018	-	-	-	-	-	-	-	-	-	-	-	-
1019	-	-	-	-	-	-	-	-	-	-	-	-
1020	-	-	-	-	-	-	-	-	-	-	-	-
1021	-	-	-	-	-	-	-	-	-	-	-	-
1022	-	-	-	-	-	-	-	-	-	-	-	-
1023	-	-	-	-	-	-	-	-	-	-	-	-
1024	-	-	-	-	-	-	-	-	-	-	-	-
1025	-	-	-	-	-	-	-	-	-	-	-	-
1026	-	-	-	-	-	-	-	-	-	-	-	-
1027	-	-	-	-	-	-	-	-	-	-	-	-
1028	-	-	-	-	-	-	-	-	-	-	-	-
1029	-	-	-	-	-	-	-	-	-	-	-	-
1030	-	-	-	-	-	-	-	-	-	-	-	-
1031	-	-	-	-	-	-	-	-	-	-	-	-
1032	-	-	-	-	-	-	-	-	-	-	-	-
1033	-	-	-	-	-	-	-	-	-	-	-	-
1034	-	-	-	-	-	-	-	-	-	-	-	-
1035	-	-	-	-	-	-	-	-	-	-	-	-
1036	-	-	-	-	-	-	-	-	-	-	-	-
1037	-	-	-	-	-	-	-	-	-	-	-	-
1038	-	-	-	-	-	-	-	-	-	-	-	-
1039	-	-	-	-	-	-	-	-	-	-	-	-
1040	-	-	-	-	-	-	-	-	-	-	-	-
1041	-	-	-	-	-	-	-	-	-	-	-	-
1042	-	-	-	-	-	-	-	-	-	-	-	-
1043	-	-	-	-	-	-	-	-	-	-	-	-
1044	-	-	-	-	-	-	-	-	-	-	-	-
1045	-	-	-	-	-	-	-	-	-	-	-	-
1046	-	-	-	-	-	-	-	-	-	-	-	-
1047	-	-	-	-	-	-	-	-	-	-	-	-
1048	-	-	-	-	-	-	-	-	-	-	-	-
1049	-	-	-	-	-	-	-	-	-	-	-	-
1050	-	-	-	-	-	-	-	-	-	-	-	-
1051	-	-	-	-	-	-	-	-	-	-	-	-
1052	-	-	-	-	-	-	-	-	-	-	-	-
1053	-	-	-	-	-	-	-	-	-	-	-	-
1054	-	-	-	-	-	-	-	-	-	-	-	-
1055	-	-	-	-	-	-	-	-	-	-	-	-
1056	-	-	-	-	-	-	-	-	-	-	-	-
1057	-	-	-	-	-	-	-	-	-	-	-	-
1058	-	-	-	-	-	-	-	-	-	-	-	-
1059	-	-	-	-	-	-	-	-	-	-	-	-
1060	-	-	-	-	-	-	-	-	-	-	-	-
1061	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1062	-	-	-	-	-	-	-	-	-	-	-	-
1063	-	-	-	-	-	-	-	-	-	-	-	-
1064	-	-	-	-	-	-	-	-	-	-	-	-
1068	-	-	-	-	-	-	-	-	-	-	-	-
1069	-	-	-	-	-	-	-	-	-	-	-	-
1070	-	-	-	-	-	-	-	-	-	-	-	-
1071	-	-	-	-	-	-	-	-	-	-	-	-
1072	-	-	-	-	-	-	-	-	-	-	-	-
1073	-	-	-	-	-	-	-	-	-	-	-	-
1074	-	-	-	-	-	-	-	-	-	-	-	-
1075	-	-	-	-	-	-	-	-	-	-	-	-
1076	-	-	-	-	-	-	-	-	-	-	-	-
1077	-	-	-	-	-	-	-	-	-	-	-	-
1078	-	-	-	-	-	-	-	-	-	-	-	-
1079	-	-	-	-	-	-	-	-	-	-	-	-
1080	-	-	-	-	-	-	-	-	-	-	-	-
1081	-	-	-	-	-	-	-	-	-	-	-	-
1082	-	-	-	-	-	-	-	-	-	-	-	-
1083	-	-	-	-	-	-	-	-	-	-	-	-
1084	-	-	-	-	-	-	-	-	-	-	-	-
1085	-	-	-	-	-	-	-	-	-	-	-	-
1086	-	-	-	-	-	-	-	-	-	-	-	-
1087	-	-	-	-	-	-	-	-	-	-	-	-
1088	-	-	-	-	-	-	-	-	-	-	-	-
1089	-	-	-	-	-	-	-	-	-	-	-	-
1090	-	-	-	-	-	-	-	-	-	-	-	-
1091	-	-	-	-	-	-	-	-	-	-	-	-
1092	-	-	-	-	-	-	-	-	-	-	-	-
1093	-	-	-	-	-	-	-	-	-	-	-	-
1094	-	-	-	-	-	-	-	-	-	-	-	-
1095	-	-	-	-	-	-	-	-	-	-	-	-
1096	-	-	-	-	-	-	-	-	-	-	-	-
1097	-	-	-	-	-	-	-	-	-	-	-	-
1098	0.6	132	-	-	-	-	-	-	-	-	-	-
1099	-	-	-	-	-	-	-	-	-	-	-	-
1100	-	-	-	-	-	-	-	-	-	-	-	-
1101	-	-	-	-	-	-	-	-	-	-	-	-
1102	-	-	-	-	-	-	-	-	-	-	-	-
1103	-	-	-	-	-	-	-	-	-	-	-	-
1104	-	-	-	-	-	-	-	-	-	-	-	-
1105	-	-	-	-	-	-	-	-	-	-	-	-
1106	-	-	-	-	-	-	-	-	-	-	-	-
1107	-	-	-	-	-	-	-	-	-	-	-	-
1108	-	-	-	-	-	-	-	-	-	-	-	-
1109	-	-	-	-	-	-	-	-	-	-	-	-
1110	-	-	-	-	-	-	-	-	-	-	-	-
1111	-	-	-	-	-	-	-	-	-	-	-	-
1112	-	-	-	-	-	-	-	-	-	-	-	-
1113	-	-	-	-	-	-	-	-	-	-	-	-
1114	-	-	-	-	-	-	-	-	-	-	-	-
1115	-	-	-	-	-	-	-	-	-	-	-	-
1116	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1117	-	-	-	-	-	-	-	-	-	-	-	-
1118	-	-	-	-	-	-	-	-	-	-	-	-
1119	-	-	-	-	-	-	-	-	-	-	-	-
1120	-	-	-	-	-	-	-	-	-	-	-	-
1121	-	-	-	-	-	-	-	-	-	-	-	-
1122	-	-	-	-	-	-	-	-	-	-	-	-
1123	-	-	-	-	-	-	-	-	-	-	-	-
1124	-	-	-	-	-	-	-	-	-	-	-	-
1125	-	-	-	-	-	-	-	-	-	-	-	-
1126	-	-	-	-	-	-	-	-	-	-	-	-
1127	-	-	-	-	-	-	-	-	-	-	-	-
1128	-	-	-	-	-	-	-	-	-	-	-	-
1129	-	-	-	-	-	-	-	-	-	-	-	-
1130	-	-	-	-	-	-	-	-	-	-	-	-
1131	-	-	-	-	-	-	-	-	-	-	-	-
1132	-	-	-	-	-	-	-	-	-	-	-	-
1133	-	-	-	-	-	-	-	-	-	-	-	-
1134	-	-	-	-	-	-	-	-	-	-	-	-
1135	-	-	-	-	-	-	-	-	-	-	-	-
1136	-	-	-	-	-	-	-	-	-	-	-	-
1137	-	-	-	-	-	-	-	-	-	-	-	-
1138	-	-	-	-	-	-	-	-	-	-	-	-
1139	-	-	-	-	-	-	-	-	-	-	-	-
1140	-	-	-	-	-	-	-	-	-	-	-	-
1141	-	-	-	-	-	-	-	-	-	-	-	-
1142	-	-	-	-	-	-	-	-	-	-	-	-
1143	-	-	-	-	-	-	-	-	-	-	-	-
1144	-	-	-	-	-	-	-	-	-	-	-	-
1145	-	-	-	-	-	-	-	-	-	-	-	-

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
0	-	-	-	-		-	-	-	-	-		-	-			
1	-	-	-	-		39.8	1,179	0.0	240	-		46,963	0			
2	-	-	-	-		8.6	673	0.6	1,100	-		5,760	685			
3	-	-	-	-		65.0	967	5.0	1,100	-		62,880	5,527			
4	-	-	-	-		72.7	469	2.2	240	-		34,080	540			
5	-	-	-	-		-	-	0.3	1,100	-		-	336			
6	-	-	-	-		-	-	-	-	-		-	-			
7	-	-	-	-		-	-	-	-	-		-	-			
8	-	-	-	-		-	-	-	-	-		-	-			
9	-	-	-	-		-	-	-	-	-		-	-			
10	-	-	-	-		-	-	-	-	-		-	-			
12	-	-	-	-		-	-	-	-	-		-	-			
14	-	-	-	-		37.5	1,881	0.0	1,042	-		70,614	18			
15	-	-	-	-		-	-	-	-	-		-	-			
16	-	-	-	-		16.9	2,258	56.6	1,085	-		38,184	61,357			
17	-	-	-	-		-	-	-	-	-		-	-			
18	-	-	-	-		-	-	-	-	-		-	-			
20	-	-	-	-		119.3	1,272	14.5	831	-		151,680	12,029			
21	-	-	-	-		136.0	872	3.2	1,100	-		118,560	3,495			
22	-	-	-	-		107.1	961	1.4	1,081	-		102,960	1,488			
23	-	-	-	-		-	-	-	-	-		-	-			
24	-	-	-	-		-	-	-	-	-		-	-			
25	-	-	-	-		-	-	-	-	-		-	-			
26	-	-	-	-		-	-	0.0	1,100	-		-	7			
29	-	-	-	-		60.4	791	-	-	-		47,760	-			
30	-	-	-	-		-	-	0.0	240	-		-	0			
31	-	-	-	-		4.1	875	-	-	-		3,600	-			
32	-	-	-	-		95.3	1,654	0.1	1,100	-		157,692	143			
33	-	-	-	-		-	-	0.0	1,100	-		-	41			
35	-	-	-	-		104.3	887	0.1	1,100	-		92,480	161			
36	-	-	-	-		175.7	1,432	16.9	809	-		251,601	13,655			
37	-	-	-	-		148.2	1,459	5.0	1,100	-		216,228	5,467			
38	-	-	-	-		45.6	291	-	-	-		13,264	-			
39	-	-	-	-		89.4	1,432	4.1	358	-		128,001	1,477			
40	-	-	-	-		32.8	1,140	-	-	-		37,440	-			
41	-	-	-	-		1.1	422	1.1	1,100	-		480	1,195			
42	-	-	-	-		-	-	-	-	-		-	-			
43	-	-	-	-		2.8	1,615	-	-	-		4,546	-			
44	-	-	-	-		103.1	1,230	0.0	1,100	-		126,794	41			
45	-	-	-	-		102.6	823	4.7	1,097	-		84,464	5,186			
49	-	-	-	-		21.7	1,639	-	-	-		35,520	-			
50	-	-	-	-		95.2	1,551	-	-	-		147,634	-			
51	-	-	-	-		191.1	1,767	-	-	-		337,726	-			
52	-	-	-	-		31.8	1,291	0.1	1,100	-		41,112	66			
53	-	-	-	-		50.5	783	20.8	1,100	-		39,505	22,924			
55	-	-	-	-		128.7	1,030	0.1	1,100	-		132,624	112			
56	-	-	-	-		143.8	1,488	15.2	1,094	-		213,896	16,646			
57	-	-	-	-		70.0	2,191	6.7	240	-		153,263	1,617			
58	-	-	-	-		91.9	1,409	0.2	1,100	-		129,483	233			
59	-	-	-	-		138.9	1,535	15.8	764	-		213,182	12,096			
60	-	-	-	-		31.7	1,261	13.2	1,100	-		39,965	14,519			
62	-	-	-	-		107.5	1,183	9.8	1,100	-		127,200	10,789			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
63	-	-	-	-		41.4	1,491	0.1	1,100	-		61,685	104			
64	-	-	-	-		72.7	1,186	-	-	-		86,189	-			
65	-	-	-	-		107.8	1,873	15.9	1,100	-		201,817	17,439			
66	-	-	-	-		64.1	273	7.5	1,099	-		17,520	8,215			
67	-	-	-	-		0.1	3,144	15.5	1,100	-		157	17,023			
68	-	-	-	-		90.8	809	10.5	1,100	-		73,465	11,531			
69	-	-	-	-		-	-	-	-	-		-	-			
70	-	-	-	-		60.0	3,402	15.2	1,259	-		204,068	19,177			
71	-	-	-	-		14.1	1,342	7.5	1,100	-		18,901	8,257			
72	-	-	-	-		64.2	148	-	-	-		9,502	-			
73	-	-	-	-		46.4	1,031	-	-	-		47,909	-			
75	-	-	-	-		85.9	1,506	14.3	1,400	-		129,292	19,976			
77	-	-	-	-		96.1	1,370	4.9	1,100	-		131,656	5,343			
78	-	-	-	-		88.2	695	8.9	1,100	-		61,323	9,834			
79	-	-	-	-		67.2	1,633	1.1	1,100	-		109,680	1,180			
80	-	-	-	-		103.7	1,262	47.6	1,106	-		130,800	52,587			
81	-	-	-	-		129.8	1,361	21.0	846	-		176,660	17,776			
82	-	-	-	-		85.5	1,709	41.5	1,100	-		146,105	45,704			
83	-	-	-	-		34.9	2,609	4.2	1,100	-		90,974	4,618			
84	-	-	-	-		96.9	2,480	0.1	1,100	-		240,367	86			
85	-	-	-	-		89.2	1,880	6.5	883	-		167,701	5,703			
86	-	-	-	-		54.2	420	89.4	1,100	-		22,800	98,350			
87	-	-	-	-		21.1	2,542	8.5	1,100	-		53,538	9,352			
88	-	-	-	-		-	-	-	-	-		-	-			
91	-	-	-	-		73.8	1,843	26.8	1,100	-		135,938	29,451			
92	-	-	-	-		118.5	1,655	15.5	1,100	-		196,151	17,044			
93	-	-	-	-		47.2	1,287	9.9	1,100	-		60,742	10,848			
94	-	-	-	-		-	-	59.8	1,106	-		-	66,102			
95	-	-	-	-		45.3	218	24.1	1,100	-		9,872	26,529			
96	-	-	-	-		134.8	1,882	39.6	1,084	-		253,661	42,891			
97	-	-	-	-		93.7	2,241	16.2	601	-		209,881	9,732			
98	-	-	-	-		0.0	245,396	2.8	1,100	-		240	3,096			
99	-	-	-	-		7.3	1,113	110.5	1,123	18,000		8,160	124,096			Parsons Engineering Science
100	-	-	-	-		67.0	2,074	5.9	1,400	-		138,984	8,258			
101	-	-	-	-		65.9	1,569	70.1	1,109	-		103,427	77,744			
102	-	-	-	-		51.3	659	6.4	1,100	-		33,829	6,991			
103	-	-	-	-		0.9	2,514	51.5	1,100	-		2,251	56,617			
104	-	-	-	-		23.4	145	36.9	1,236	-		3,398	45,604			
106	-	-	-	-		98.9	1,178	2.4	939	-		116,533	2,211			
107	-	-	-	-		51.1	1,738	18.6	1,100	-		88,814	20,461			
109	-	-	-	-		66.1	865	-	-	-		57,120	-			
110	-	-	-	-		84.5	1,265	40.2	776	-		106,885	31,196			
111	-	-	-	-		73.1	837	73.4	1,080	-		61,200	79,304			
112	-	-	-	-		75.8	2,523	11.0	1,082	-		191,296	11,887			
113	-	-	-	-		39.5	1,364	-	-	-		53,870	-			
114	-	-	-	-		108.4	26	45.5	1,100	-		2,856	49,996			
115	-	-	-	-		25.4	4,353	51.3	1,100	-		110,770	56,464			
116	-	-	-	-		70.3	1,332	7.1	825	-		93,719	5,861			
117	-	-	-	-		83.8	1,273	28.3	774	-		106,712	21,896			
118	-	-	-	-		83.4	2,144	-	-	-		178,806	-			
120	-	-	-	-		26.8	2,166	11.5	1,100	-		58,142	12,680			
121	-	-	-	-		171.0	1,068	17.7	827	-		182,640	14,657			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing										
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
122	-	-	-	-		22.1	4,192	22.5	1,100	-		92,536	24,764			
123	-	-	-	-		3.2	5,716	2.3	1,100	-		18,542	2,520			
124	-	-	-	-		32.2	1,442	9.4	1,100	-		46,444	10,347			
125	-	-	-	-		47.1	37	0.1	1,100	-		1,760	96			
126	-	-	-	-		32.1	1,197	27.2	1,100	-		38,402	29,873			
127	-	-	-	-		0.0	5,568	3.4	1,400	-		196	4,786			
128	-	-	-	-		55.6	3,983	11.3	1,100	-		221,465	12,474			
129	-	-	-	-		30.0	4,870	0.1	1,100	-		145,984	63			
130	-	-	-	-		115.2	115	15.7	1,086	-		13,231	17,046			
131	-	-	-	-		21.0	1,664	2.2	1,100	-		34,981	2,375			
132	-	-	-	-		34.6	1,174	-	-	-		40,637	-			
133	-	-	-	-		13.9	5,583	0.8	1,100	-		77,428	906			
134	-	-	-	-		25.2	886	3.9	1,100	-		22,354	4,336			
135	-	-	-	-		41.1	997	-	-	-		41,014	-			
136	-	-	-	-		38.3	2,031	0.4	1,100	-		77,873	488			
137	-	-	-	-		52.5	28	10.0	1,100	-		1,488	11,023			
138	-	-	-	-		46.3	1,133	6.1	244	-		52,388	1,488			
139	-	-	-	-		3.8	64	0.1	730	-		240	92			
140	-	-	-	-		38.1	1,147	5.1	1,100	-		43,715	5,577			
141	-	-	-	-		63.8	4	-	-	-		240	-			
142	-	-	-	-		-	-	4.0	1,810	-		-	7,213			
143	-	-	-	-		0.0	207,792	39.3	1,100	-		1,921	43,236			
144	-	-	-	-		82.5	1,471	69.1	1,098	-		121,355	75,839			
145	-	-	-	-		21.7	5,686	42.6	1,100	-		123,254	46,861			
146	-	-	-	-		15.8	2,678	31.7	1,100	-		42,373	34,893			
147	-	-	-	-		63.8	824	0.4	240	-		52,560	104			
148	-	-	-	-		-	-	-	-	-		-	-			
149	-	-	-	-		48.8	1,814	30.6	472	-		88,572	14,450			
150	-	-	-	-		87.7	1,380	0.3	1,037	-		121,084	353			
151	-	-	-	-		40.3	2,946	9.3	1,100	-		118,858	10,261			
152	-	-	-	-		0.2	984	0.0	240	-		240	0			
153	-	-	-	-		-	-	0.1	1,100	-		-	58			
154	-	-	-	-		-	-	161.6	1,100	-		-	177,741			
155	-	-	-	-		2.2	-	7.4	1,100	-		-	8,098			
156	-	-	-	-		100.8	1,399	-	-	-		140,927	-			
157	-	-	-	-		133.2	1,070	45.7	1,100	-		142,438	50,226			
158	-	-	-	-		1.8	-	29.7	1,100	-		-	32,711			
159	-	-	-	-		-	-	-	-	-		-	-			
160	-	-	-	-		72.5	4,722	6.8	527	-		342,371	3,608			
161	-	-	-	-		4.1	177	55.5	1,100	-		720	61,015			
162	-	-	-	-		36.0	1,186	10.8	240	-		42,682	2,589			
163	-	-	-	-		43.6	5,447	-	-	-		237,253	-			
164	-	-	-	-		96.7	2,042	3.0	240	-		197,388	711			
165	-	-	-	-		59.8	2,576	33.1	814	-		154,018	26,916			
166	-	-	-	-		50.7	1,961	24.5	1,100	-		99,395	26,932			
167	-	-	-	-		9.8	3,493	0.7	977	-		34,151	649			
168	-	-	-	-		80.6	896	-	-	-		72,240	-			
169	-	-	-	-		51.3	893	90.1	1,346	-		45,830	121,276			
170	-	-	-	-		76.0	2,287	0.0	1,100	-		173,793	4			
171	-	-	-	-		69.7	1,391	11.5	1,100	-		96,960	12,673			
172	-	-	-	-		3.6	5,377	48.7	1,100	-		19,426	53,519			
173	-	-	-	-		56.6	2,415	31.5	347	-		136,784	10,922			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing										
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
174	-	-	-	-		0.1	-	37.4	1,396	-		-	52,237			
175	-	-	-	-		63.5	1,402	-	-	-		89,059	-			
176	-	-	-	-		-	-	39.7	1,101	-		-	43,670			
177	-	-	-	-		23.7	1,034	77.6	1,100	-		24,480	85,390			
178	-	-	-	-		45.6	4,958	64.5	1,100	-		226,199	70,902			
179	-	-	-	-		44.4	2,497	22.8	1,100	-		110,786	25,087			
180	-	-	-	-		46.8	1,148	23.1	641	-		53,760	14,788			
181	-	-	-	-		66.7	1,435	0.0	240	-		95,760	1			
182	-	-	-	-		-	-	34.2	1,115	-		-	38,144			
183	-	-	-	-		89.3	1,116	16.7	1,118	-		99,600	18,649			
184	-	-	-	-		14.5	4,793	93.9	1,100	-		69,345	103,308			
185	-	-	-	-		58.7	1,305	16.9	1,100	-		76,560	18,628			
186	-	-	-	-		-	-	24.2	1,100	-		-	26,572			
187	-	-	-	-		121.9	1,835	32.5	1,100	-		223,608	35,792			
188	-	-	-	-		74.4	1,157	4.0	1,100	-		86,120	4,387			
189	-	-	-	-		97.9	944	3.6	1,100	-		92,400	3,947			
190	-	-	-	-		1.5	961	46.6	1,100	-		1,440	51,305			
191	-	-	-	-		31.9	2,886	63.0	1,100	-		92,140	69,354			
192	-	-	-	-		21.8	803	-	-	-		17,520	-			
193	-	-	-	-		33.4	971	13.2	1,100	-		32,400	14,524			
194	-	-	-	-		31.1	1,605	4.8	1,100	-		49,964	5,240			
195	-	-	-	-		63.7	803	48.1	1,100	-		51,120	52,879			
196	-	-	-	-		12.7	1,360	87.3	1,117	-		17,202	97,596			
197	-	-	-	-		70.5	772	67.5	1,267	-		54,480	85,564			
198	-	-	-	-		59.3	716	10.4	1,100	-		42,480	11,464			
199	-	-	-	-		70.4	2,087	17.6	1,100	-		146,943	19,353			
200	-	-	-	-		36.8	1,885	0.3	1,100	-		69,375	358			
201	-	-	-	-		146.2	896	10.1	1,100	-		131,040	11,114			
202	-	-	-	-		151.0	1,518	18.5	942	-		229,124	17,462			
203	-	-	-	-		6.8	-	16.8	243	-		-	4,077			
204	-	-	-	-		59.5	916	13.5	1,100	-		54,480	14,870			
205	-	-	-	-		102.5	962	-	-	-		98,640	-			
206	-	-	-	-		37.8	615	0.1	240	-		23,280	15			
207	-	-	-	-		60.3	766	-	-	-		46,159	-			
208	-	-	-	-		119.1	957	17.1	887	-		114,000	15,171			
209	-	-	-	-		103.2	1,035	47.9	897	-		106,800	42,946			
210	-	-	-	-		126.7	678	3.2	240	-		85,920	760			
211	-	-	-	-		-	-	26.4	240	-		-	6,326			
212	-	-	-	-		48.4	2,948	21.0	1,100	-		142,536	23,117			
213	-	-	-	-		83.7	2,163	20.9	1,100	-		181,066	23,037			
214	-	-	-	-		74.0	1,025	34.8	1,281	-		75,843	44,583			
215	-	-	-	-		51.2	759	-	-	-		38,880	-			
216	-	-	-	-		88.8	906	2.4	1,100	-		80,400	2,628			
217	-	-	-	-		110.7	670	80.6	1,183	-		74,160	95,289			
218	-	-	-	-		124.3	932	0.1	1,100	-		115,920	103			
219	-	-	-	-		68.6	994	-	-	-		68,160	-			
220	-	-	-	-		14.7	1,401	15.5	1,017	-		20,645	15,812			
221	-	-	-	-		0.1	-	86.0	1,400	-		-	120,376			
222	-	-	-	-		-	-	-	-	-		-	-			
223	-	-	-	-		84.4	560	0.0	240	-		47,280	11			
224	-	-	-	-		26.2	1,680	0.1	1,100	-		43,941	142			
225	-	-	-	-		34.8	981	12.1	1,144	-		34,075	13,803			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
226	-	-	-	-		45.0	886	1.4	1,100	-		39,840	1,549			
227	-	-	-	-		67.6	1,171	3.6	1,100	-		79,200	3,967			
228	-	-	-	-		92.3	915	0.6	1,400	-		84,421	776			
229	-	-	-	-		48.2	1,293	45.3	1,182	-		62,312	53,589			
230	-	-	-	-		4.7	1,217	31.9	1,100	-		5,760	35,139			
232	-	-	-	-		22.3	1,930	17.2	1,100	-		43,053	18,934			
233	-	-	-	-		123.6	1,033	0.1	1,400	-		127,680	107			
234	-	-	-	-		0.4	-	19.1	1,103	-		-	21,059			
235	-	-	-	-		0.6	-	119.0	1,134	-		-	134,964			
236	-	-	-	-		1.4	1,327	129.0	240	-		1,920	30,957			
237	-	-	-	-		34.9	1,044	9.4	254	-		36,480	2,388			
238	-	-	-	-		30.2	596	20.0	1,337	-		18,000	26,779			
239	-	-	-	-		53.7	2,668	66.7	1,064	-		143,200	70,972			
240	-	-	-	-		47.7	569	0.4	240	-		27,120	93			
241	-	-	-	-		23.3	4,220	0.0	1,100	-		98,488	1			
243	-	-	-	-		106.6	1,121	20.9	1,295	-		119,520	27,019			
244	-	-	-	-		50.0	1,628	8.8	1,100	-		81,457	9,726			
245	-	-	-	-		3.2	528	0.0	1,100	-		1,680	1			
246	-	-	-	-		48.9	1,758	-	-	-		85,969	-			
247	-	-	-	-		46.6	1,405	13.2	1,307	-		65,403	17,298			
248	-	-	-	-		61.6	1,347	0.6	240	-		83,040	139			
249	-	-	-	-		37.6	1,314	0.3	240	-		49,440	65			
250	-	-	-	-		40.8	4,291	29.4	1,198	-		175,154	35,204			
251	-	-	-	-		61.0	1,087	-	-	-		66,240	-			
252	-	-	-	-		72.2	1,140	5.0	1,100	-		82,320	5,546			
253	-	-	-	-		1.3	2,141	39.9	1,400	-		2,698	55,907			
254	-	-	-	-		21.5	1,239	9.6	240	-		26,640	2,301			
255	-	-	-	-		12.2	3,078	6.4	1,400	-		37,451	8,926			
256	-	-	-	-		60.9	836	18.1	1,400	-		50,880	25,375			
257	-	-	-	-		26.0	1,507	12.1	1,100	-		39,108	13,339			
258	-	-	-	-		63.1	798	0.3	1,100	-		50,332	366			
259	-	-	-	-		10.9	3,095	22.5	1,383	-		33,670	31,092			
260	-	-	-	-		11.1	108	8.1	1,100	-		1,200	8,873			
261	-	-	-	-		61.4	1,224	0.9	1,100	-		75,120	991			
262	-	-	-	-		37.8	1,450	-	-	-		54,813	-			
263	-	-	-	-		2.4	1,194	22.5	240	-		2,880	5,400			
264	-	-	-	-		40.4	968	-	-	-		39,120	-			
265	-	-	-	-		70.3	843	7.1	1,100	-		59,280	7,816			
266	-	-	-	-		46.3	2,274	15.5	969	-		105,302	15,010			
267	-	-	-	-		33.9	1,429	26.1	1,021	-		48,416	26,668			
268	-	-	-	-		44.2	1,482	2.5	1,003	-		65,499	2,468			
269	-	-	-	-		1.7	3,144	3.8	1,400	-		5,266	5,360			
270	-	-	-	-		71.6	2,779	20.0	927	7,890		198,943	18,530			Duraflame
271	-	-	-	-		39.3	1,399	27.0	1,400	-		54,949	37,859			
272	-	-	-	-		20.3	308	-	-	-		6,240	-			
273	-	-	-	-		20.8	1,417	-	-	-		29,520	-			
274	-	-	-	-		-	-	0.7	244	-		-	173			
275	-	-	-	-		30.2	1,188	0.1	240	-		35,816	18			
276	-	-	-	-		56.9	2,053	4.7	1,100	-		116,771	5,168			
277	-	-	-	-		15.2	1,075	1.9	1,100	-		16,320	2,106			
278	-	-	-	-		7.2	5,070	44.8	1,014	-		36,642	45,380			
279	-	-	-	-		18.3	1,785	25.4	2,034	-		32,587	51,623			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
280	-	-	-	-		1.5	2,868	5.4	1,216	-		4,237	6,597			
281	-	-	-	-		32.4	972	13.0	1,100	-		31,440	14,294			
282	-	-	-	-		30.8	1,794	8.6	1,100	-		55,203	9,434			
284	-	-	-	-		45.0	11	20.6	201	-		480	4,153			
285	-	-	-	-		13.2	3,868	2.7	1,100	-		51,058	2,956			
286	-	-	-	-		23.1	1,787	1.9	1,100	-		41,257	2,046			
287	-	-	-	-		-	-	39.2	883	-		-	34,572			
288	-	-	-	-		49.1	1,936	5.3	1,104	-		95,012	5,849			
289	-	-	-	-		25.0	1,328	3.2	1,101	-		33,208	3,580			
290	-	-	-	-		67.4	1,047	18.4	1,100	-		70,560	20,269			
291	-	-	-	-		81.1	817	17.4	1,100	-		66,240	19,102			
292	-	-	-	-		28.1	1,489	0.1	1,400	-		41,779	102			
293	-	-	-	-		-	-	31.5	1,149	-		-	36,175			
294	-	-	-	-		-	-	23.8	1,390	-		-	33,117			
295	-	-	-	-		27.3	5,568	13.7	963	-		152,018	13,169			
296	-	-	-	-		9.5	3,105	19.2	1,098	-		29,587	21,099			
297	-	-	-	-		-	-	6.4	1,100	-		-	7,034			
298	-	-	-	-		8.7	215	67.2	1,343	-		1,860	90,279			
299	-	-	-	-		25.0	1,489	26.2	1,248	-		37,240	32,763			
300	-	-	-	-		-	-	20.3	1,100	-		-	22,314			
301	-	-	-	-		45.3	53	-	-	-		2,400	-			
302	-	-	-	-		55.8	774	0.1	1,100	-		43,200	90			
303	-	-	-	-		78.7	671	20.4	1,181	-		52,800	24,120			
304	-	-	-	-		36.3	2,415	6.3	1,188	-		87,730	7,448			
305	-	-	-	-		40.2	544	-	-	-		21,840	-			
306	-	-	-	-		22.4	1,917	17.0	1,298	-		42,931	22,073			
307	-	-	-	-		96.8	605	-	-	-		58,560	-			
308	-	-	-	-		-	-	136.0	1,398	-		-	190,198			
309	-	-	-	-		-	-	107.0	1,400	-		-	149,802			
310	-	-	-	-		0.0	49,671	38.2	1,397	-		240	53,287			
311	-	-	-	-		30.9	1,681	-	-	-		51,942	-			
312	-	-	-	-		38.2	1,054	31.6	1,019	-		40,224	32,174			
313	-	-	-	-		39.5	1,167	23.8	1,182	-		46,155	28,199			
314	-	-	-	-		62.9	973	34.2	1,102	-		61,200	37,660			
315	-	-	-	-		0.2	1,057	120.4	1	-		240	91			
316	-	-	-	-		32.4	1,394	-	-	-		45,188	-			
317	-	-	-	-		-	-	33.6	1,023	-		-	34,432			
318	-	-	-	-		0.0	-	0.0	-	-		-	-			
319	-	-	-	-		45.9	1,519	28.4	1,157	4,547		69,687	32,796			Tanker Wash USA
321	-	-	-	-		0.1	-	38.9	1,400	-		-	54,511			
322	-	-	-	-		55.8	802	0.3	1,100	-		44,730	353			
323	-	-	-	-		38.4	776	1.1	1,100	-		29,760	1,223			
324	-	-	-	-		0.3	686	2.9	1,400	-		240	4,110			
325	-	-	-	-		0.1	-	118.5	-	5,084		-	-			American Sunny Foods
326	-	-	-	-		54.4	1,076	15.2	1,100	-		58,560	16,675			
327	-	-	-	-		0.0	-	32.8	1,241	11,290		-	40,708			Stockton Sanitary Wash Rack
328	-	-	-	-		-	-	23.8	1,148	-		-	27,314			
329	-	-	-	-		-	-	24.0	1,398	-		-	33,612			
330	-	-	-	-		29.9	1,512	16.8	1,100	-		45,177	18,474			
331	-	-	-	-		62.3	1,079	9.6	1,100	-		67,200	10,588			
332	-	-	-	-		4.6	1,087	52.5	1,100	-		5,040	57,757			
333	-	-	-	-		-	-	69.0	1,400	-		-	96,589			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
334	-	-	-	-		-	-	18.0	1,400	-		-	25,244			
335	-	-	-	-		-	-	14.1	1,400	-		-	19,740			
336	-	-	-	-		5.1	569	43.9	1,113	-		2,880	48,899			
337	-	-	-	-		39.3	654	12.3	1,400	-		25,680	17,159			
338	-	-	-	-		41.1	-	22.2	-	-		-	-			
339	-	-	-	-		-	-	6.2	1,400	-		-	8,722			
340	-	-	-	-		0.1	-	8.2	-	10,274		-	-			BJJ Trucking
341	-	-	-	-		21.6	-	14.9	134	-		-	1,995			
342	-	-	-	-		27.3	1,265	7.9	1,011	-		34,560	7,941			
343	-	-	-	-		6.8	-	5.1	-	-		-	-			
344	-	-	-	-		24.2	624	28.9	1,100	-		15,120	31,736			
345	-	-	-	-		24.8	1,018	0.0	1,100	-		25,200	0			
346	-	-	-	-		11.2	22	27.8	1,379	-		240	38,308			
347	-	-	-	-		125.5	1,099	21.2	538	-		137,834	11,435			
348	-	-	-	-		23.6	346	-	-	-		8,160	-			
349	-	-	-	-		45.3	1,028	0.0	1,100	-		46,560	43			
350	-	-	-	-		30.9	-	0.0	-	-		-	-			
351	-	-	-	-		-	-	17.9	-	-		-	-			
352	-	-	-	-		14.9	822	3.6	70	-		12,240	256			
353	-	-	-	-		2.5	1,225	19.2	1,240	-		3,120	23,775			
354	-	-	-	-		62.1	-	0.0	-	-		-	-			
355	-	-	-	-		22.8	21	1.3	-	-		480	-			
356	-	-	-	-		29.5	-	1.1	-	-		-	-			
357	-	-	-	-		1.9	128	16.7	0	-		240	2			
358	-	-	-	-		10.1	807	3.2	-	-		8,160	-			
359	-	-	-	-		12.9	-	28.1	-	-		-	-			
360	-	-	-	-		53.1	9	5.9	90	-		480	529			
361	-	-	-	-		2.2	-	6.2	-	-		-	-			
362	-	-	-	-		29.4	-	9.8	-	-		-	-			
363	-	-	-	-		0.1	-	0.6	-	-		-	-			
364	-	-	-	-		-	-	7.0	430	-		-	2,989			
365	-	-	-	-		33.1	1,478	5.1	240	-		48,960	1,217			
366	-	-	-	-		29.0	1,508	0.1	1,271	-		43,680	77			
367	-	-	-	-		21.7	-	9.0	-	-		-	-			
368	-	-	-	-		11.5	104	-	-	-		1,200	-			
369	-	-	-	-		64.2	75	1.0	-	-		4,800	-			
370	-	-	-	-		45.6	11	8.5	416	-		480	3,530			
371	-	-	-	-		9.5	4,933	23.1	710	-		46,870	16,396			
372	-	-	-	-		9.1	-	21.0	-	-		-	-			
373	-	-	-	-		39.8	-	0.3	-	-		-	-			
374	-	-	-	-		26.2	-	0.3	-	-		-	-			
375	-	-	-	-		83.2	-	14.1	-	-		-	-			
376	-	-	-	-		-	-	3.7	977	-		-	3,657			
377	-	-	-	-		52.0	-	0.0	-	-		-	-			
378	-	-	-	-		28.7	1,557	-	-	-		44,640	-			
380	-	-	-	-		1.8	2,266	0.5	240	-		4,080	114			
381	-	-	-	-		7.2	1,303	-	-	-		9,360	-			
382	-	-	-	-		15.5	1,659	-	-	-		25,680	-			
383	-	-	-	-		9.1	1,998	0.0	240	-		18,240	11			
385	-	-	-	-		21.7	1,893	-	-	-		41,040	-			
386	-	-	-	-		8.0	2,016	0.1	240	-		16,080	33			
387	-	-	-	-		-	-	1.6	1,301	-		-	2,104			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
388	-	-	-	-		28.1	-	11.0	0	-		-	2			
389	-	-	-	-		26.6	-	1.0	-	-		-	-			
390	-	-	-	-		12.2	-	1.2	-	-		-	-			
391	-	-	-	-		-	-	27.7	-	-		-	-			
392	-	-	-	-		1.6	-	1.6	1,100	-		-	1,795			
393	-	-	-	-		77.3	-	0.2	58	-		-	14			
394	-	-	-	-		28.4	1,722	-	-	-		48,960	-			
395	-	-	-	-		6.5	-	1.0	-	-		-	-			
396	-	-	-	-		27.5	-	1.5	14	-		-	22			
397	-	-	-	-		0.3	-	1.3	-	-		-	-			
398	-	-	-	-		20.4	1,539	-	-	-		31,440	-			
399	-	-	-	-		8.6	2,010	-	-	-		17,280	-			
400	-	-	-	-		20.7	-	-	-	-		-	-			
401	-	-	-	-		33.4	-	-	-	-		-	-			
402	-	-	-	-		-	-	-	-	-		-	-			
403	-	-	-	-		39.8	42	0.1	240	-		1,680	25			
404	-	-	-	-		161.7	1,348	9.0	565	-		217,969	5,103			
405	-	-	-	-		1.7	2,926	2.4	-	-		5,040	-			
406	-	-	-	-		-	-	-	-	-		-	-			
408	-	-	-	-		0.0	-	13.0	1,400	-		-	18,171			
409	-	-	-	-		-	-	67.0	1,400	-		-	93,833			
410	-	-	-	-		0.3	-	3.8	-	-		-	-			
411	-	-	-	-		-	-	15.5	-	-		-	-			
412	-	-	-	-		20.9	-	1.4	-	-		-	-			
413	-	-	-	-		13.9	-	39.3	-	-		-	-			
414	-	-	-	-		-	-	46.4	-	-		-	-			
415	-	-	-	-		37.1	1,157	-	-	-		42,960	-			
416	-	-	-	-		35.2	1,199	-	-	-		42,240	-			
417	-	-	-	-		39.7	1,208	-	-	-		48,000	-			
418	-	-	-	-		-	-	3.0	-	-		-	-			
419	-	-	-	-		29.8	1,040	-	-	-		30,960	-			
420	-	-	-	-		29.8	-	7.0	5	-		-	35			
421	-	-	-	-		0.0	-	50.4	1,377	-		-	69,482			
422	-	-	-	-		2.2	443	51.5	1,397	-		960	72,013			
423	-	-	-	-		34.1	-	3.0	1	-		-	3			
424	-	-	-	-		0.0	54,013	57.1	1,392	-		240	79,528			
425	-	-	-	-		42.0	1,228	-	-	-		51,600	-			
426	-	-	-	-		24.7	1,725	14.8	1,100	-		42,568	16,262			
427	-	-	-	-		68.0	1,356	-	-	-		92,160	-			
428	-	-	-	-		34.1	1,245	0.1	240	-		42,480	28			
429	-	-	-	-		-	-	94.4	1,384	-		-	130,688			
430	-	-	-	-		-	-	73.0	1,387	-		-	101,290			
431	-	-	-	-		-	-	2.6	1,400	-		-	3,670			
432	-	-	-	-		-	-	-	-	-		-	-			
433	-	-	-	-		37.0	1,291	-	-	-		47,760	-			
434	-	-	-	-		51.7	1,825	76.1	1,135	-		94,290	86,379			
435	-	-	-	-		43.7	16	0.4	1,220	-		720	492			
436	-	-	-	-		34.2	1,263	-	-	-		43,200	-			
437	-	-	-	-		39.5	1,113	39.0	576	-		43,920	22,435			
438	-	-	-	-		17.6	1,435	0.2	1,100	-		25,200	229			
439	-	-	-	-		22.6	1,412	-	-	-		31,920	-			
440	-	-	-	-		15.3	1,397	-	-	-		21,360	-			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing										
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
441	-	-	-	-		-	-	79.3	1,366	-		-	108,264			
442	-	-	-	-		-	-	41.1	1,394	-		-	57,206			
443	-	-	-	-		22.0	1,426	-	-	-		31,440	-			
444	-	-	-	-		-	-	74.2	1,324	-		-	98,272			
445	-	-	-	-		-	-	44.8	1,400	-		-	62,669			
446	-	-	-	-		130.8	1,292	30.2	833	-		168,960	25,131			
447	0.0	60	-	-		154.3	731	0.0	2,460	-		112,800	60			
448	0.4	962	-	-		208.7	890	0.4	2,460	-		185,760	962			
451	-	-	-	-		52.4	1,311	0.4	637	-		68,640	266			
452	-	-	-	-		22.5	149	17.3	1,104	-		3,360	19,108			
453	-	-	-	-		-	-	64.6	1,400	-		-	90,399			
508	-	-	-	-		36.1	1,462	17.4	1,100	-		52,864	19,195			
509	-	-	-	-		0.0	925,340	178.0	256	-		6,480	45,519			
510	-	-	-	-		5.8	749	21.8	1,400	-		4,320	30,566			
511	-	-	-	-		-	-	22.0	1,400	-		-	30,852			
512	-	-	-	-		12.7	1,750	-	-	-		22,146	-			
513	-	-	-	-		33.5	72	-	-	-		2,400	-			
514	-	-	-	-		6.7	3,035	1.7	1,100	-		20,419	1,905			
515	-	-	-	-		15.3	5,300	1.9	1,100	-		81,134	2,119			
516	-	-	-	-		24.4	733	0.4	852	-		17,885	378			
517	-	-	-	-		28.6	3,040	6.2	1,033	-		86,844	6,355			
518	-	-	-	-		22.4	1,157	0.0	923	-		25,965	1			
519	-	-	-	-		53.1	922	0.3	288	-		48,960	79			
520	-	-	-	-		45.6	903	0.1	306	-		41,153	38			
521	-	-	-	-		50.5	1,018	0.1	1,100	-		51,459	117			
522	-	-	-	-		26.8	394	-	-	-		10,560	-			
523	-	-	-	-		167.6	44	13.6	964	-		7,440	13,134			
524	-	-	-	-		1.6	1,616	162.9	240	-		2,641	39,101			
525	-	-	-	-		37.9	1,056	10.8	956	-		39,967	10,304			
526	-	-	-	-		31.4	726	4.5	240	-		22,800	1,083			
527	-	-	-	-		30.4	860	4.7	240	-		26,160	1,128			
528	-	-	-	-		20.1	1,831	-	-	-		36,886	-			
529	-	-	-	-		28.9	1,553	-	-	-		44,932	-			
530	-	-	-	-		35.9	1,563	16.0	282	-		56,117	4,522			
531	-	-	-	-		18.6	977	0.0	1,100	-		18,161	6			
532	-	-	-	-		47.7	4,023	16.5	1,100	-		191,738	18,200			
533	-	-	-	-		11.8	1,160	0.7	240	-		13,680	171			
534	-	-	-	-		23.0	2,363	3.1	603	-		54,459	1,842			
535	-	-	-	-		8.0	2,008	-	-	-		16,080	-			
536	-	-	-	-		14.2	1,459	-	-	-		20,764	-			
537	-	-	-	-		2.5	1,985	13.4	1,100	-		5,036	14,724			
538	-	-	-	-		46.5	2,292	4.1	1,100	-		106,698	4,492			
539	-	-	-	-		24.1	1,041	0.6	1,100	-		25,126	643			
540	-	-	-	-		28.6	1,117	0.0	1,100	-		31,920	9			
541	-	-	-	-		22.5	1,674	0.9	1,100	-		37,680	948			
542	-	-	-	-		12.2	1,176	0.0	1,100	-		14,400	37			
543	-	-	-	-		0.1	3,190	27.8	1,100	-		268	30,565			
544	-	-	-	-		17.0	1,886	-	-	-		32,160	-			
545	-	-	-	-		20.8	1,778	6.8	240	-		37,006	1,628			
546	-	-	-	-		12.9	1,344	-	-	-		17,280	-			
547	-	-	-	-		78.5	2,506	23.5	979	-		196,769	22,986			
548	-	-	-	-		7.9	1,481	-	-	-		11,760	-			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
549	-	-	-	-		13.9	5,568	36.1	1,235	-		77,395	44,602			
550	-	-	-	-		9.4	5,568	41.2	1,129	-		52,130	46,553			
551	-	-	-	-		-	-	38.0	-	-		-	-			
552	-	-	-	-		1.2	-	40.8	0	-		-	0			
553	-	-	-	-		-	-	38.1	1,388	-		-	52,949			
554	-	-	-	-		-	-	46.0	1,400	-		-	64,446			
555	-	-	-	-		10.9	1,187	0.0	1,100	-		12,960	0			
556	-	-	-	-		1.2	-	-	-	-		-	-			
557	-	-	-	-		41.3	2,444	0.1	1,400	-		100,896	205			
558	-	-	-	-		58.2	2,919	15.0	1,100	-		169,792	16,455			
559	-	-	-	-		82.8	1,238	4.5	1,100	-		102,515	4,909			
560	-	-	-	-		35.0	2,622	10.3	1,100	-		91,697	11,301			
561	-	-	-	-		17.8	2,417	2.6	1,069	-		43,000	2,831			
562	-	-	-	-		6.6	2,967	2.0	1,100	-		19,569	2,208			
563	-	-	-	-		43.2	2,433	5.4	1,100	-		105,196	5,925			
564	-	-	-	-		8.2	1,085	0.0	1,400	-		8,880	1			
565	-	-	-	-		23.9	1,144	0.1	1,100	-		27,360	108			
566	-	-	-	-		43.1	1,151	1.9	1,100	-		49,682	2,097			
567	-	-	-	-		94.2	1,312	1.1	1,100	-		123,547	1,230			
568	-	-	-	-		15.2	2,584	123.4	1,100	-		39,226	135,688			
569	-	-	-	-		0.0	-	27.1	240	-		-	6,502			
570	-	-	-	-		41.5	3,066	5.8	240	-		127,228	1,395			
571	-	-	-	-		107.0	1,278	87.0	1,168	18,847		136,701	101,701			Grimaud Farms
572	-	-	-	-		58.8	368	0.1	240	-		21,600	31			
573	-	-	-	-		10.4	1,061	-	-	-		11,040	-			
574	-	-	-	-		30.9	1,447	-	-	-		44,640	-			
576	-	-	-	-		-	-	80.2	1,117	-		-	89,621			
579	-	-	-	-		-	-	40.9	1,085	-		-	44,422			
580	-	-	-	-		-	-	13.8	997	-		-	13,798			
581	-	-	-	-		4.2	228	13.3	850	-		960	11,299			
582	-	-	-	-		15.1	223	-	-	-		3,360	-			
583	-	-	-	-		31.6	193	-	-	-		6,089	-			
584	-	-	-	-		1.2	-	-	-	-		-	-			
585	-	-	-	-		16.1	149	0.1	1,100	-		2,400	155			
586	-	-	-	-		124.1	863	2.6	240	-		107,040	618			
587	-	-	-	-		-	-	1.7	118	-		-	196			
589	-	-	-	-		-	-	34.3	1,400	-		-	47,976			
590	-	-	-	-		8.9	80	6.1	1,116	-		720	6,803			
591	-	-	-	-		-	-	67.1	313	-		-	21,023			
592	-	-	-	-		-	-	4.1	1,255	-		-	5,183			
593	-	-	-	-		-	-	89.2	1,100	223,929		-	98,127			Sodexho
594	-	-	-	-		-	-	172.3	1,100	-		-	189,432			
596	-	-	-	-		-	-	-	-	-		-	-			
597	-	-	-	-		-	-	36.2	1,379	-		-	49,909			
598	-	-	-	-		-	-	22.4	1,362	-		-	30,552			
599	-	-	-	-		-	-	52.6	1,386	-		-	72,834			
600	-	-	-	-		-	-	36.2	1,400	-		-	50,732			
601	-	-	-	-		-	-	46.9	1,400	-		-	65,716			
602	-	-	-	-		12.9	1,318	13.9	1,346	-		17,040	18,702			
603	-	-	-	-		65.6	1,344	17.0	1,100	2,219		88,128	18,738			Creative Research Management
604	-	-	-	-		-	-	4.9	1,126	-		-	5,498			
605	-	-	-	-		34.2	1,320	34.0	1,169	-		45,174	39,696			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing										
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
606	-	-	-	-		1.0	1,230	2.2	1,119	-		1,208	2,468			
607	-	-	-	-		-	-	6.8	-	-		-	-			
608	-	-	-	-		-	-	3.6	-	-		-	-			
609	-	-	-	-		-	-	47.8	1,400	-		-	66,985			
610	-	-	-	-		-	-	15.0	1,378	-		-	20,727			
611	-	-	-	-		5.4	265	0.4	1,215	-		1,440	483			
612	-	-	-	-		-	-	0.0	1,100	-		-	7			
617	-	-	-	-		-	-	-	-	-		-	-			
620	-	-	-	-		59.1	1,049	20.8	884	-		62,054	18,383			
621	-	-	-	-		87.6	874	0.8	2,226	-		76,560	1,716			
623	-	-	-	-		14.7	3,064	44.8	733	-		45,157	32,832			
624	-	-	-	-		13.3	3,047	42.4	1,373	-		40,481	58,281			
625	-	-	-	-		0.3	-	64.5	1,383	-		-	89,188			
626	-	-	-	-		108.8	861	43.6	1,112	-		93,600	48,487			
627	-	-	-	-		21.9	1,402	8.5	1,081	-		30,720	9,240			
628	-	-	-	-		0.1	3,420	22.5	1,100	-		480	24,756			
629	-	-	-	-		0.1	-	30.5	-	-		-	-			
630	-	-	-	-		21.1	-	11.9	-	-		-	-			
631	-	-	-	-		11.6	559	0.7	-	-		6,480	-			
632	-	-	-	-		6.8	667	0.0	-	-		4,560	-			
633	-	-	-	-		34.6	1,206	8.1	1,400	-		41,760	11,306			
634	-	-	-	-		16.2	74	2.6	-	-		1,200	-			
635	-	-	-	-		1.3	1,386	0.8	1,100	-		1,771	836			
636	-	-	-	-		9.2	182	-	-	-		1,680	-			
637	-	-	-	-		5.3	588	-	-	-		3,120	-			
638	-	-	-	-		85.5	1,190	-	-	-		101,760	-			
639	-	-	-	-		100.0	1,004	4.9	240	-		100,320	1,187			
640	-	-	-	-		0.0	12,158,833	52.2	2	-		240	85			
641	-	-	-	-		-	-	38.4	79	-		-	3,037			
642	-	-	-	-		-	-	41.9	6	24,009		-	249			California Tank Lines
643	-	-	-	-		14.5	198	11.9	989	-		2,880	11,798			
644	-	-	-	-		0.0	-	15.6	731	-		-	11,372			
646	-	-	-	-		-	-	200.8	1,399	-		-	281,060			
647	-	-	-	-		-	-	9.2	1,400	-		-	12,817			
650	-	-	-	-		1.0	3,144	22.4	1,400	-		3,180	31,296			
652	-	-	-	-		-	-	13.3	1,400	-		-	18,614			
653	-	-	-	-		16.1	3,053	4.6	1,400	-		49,151	6,373			
654	-	-	-	-		0.0	3,144	46.3	1,392	-		49	64,454			
655	-	-	-	-		0.0	-	0.0	1,100	-		-	30			
656	-	-	-	-		0.0	35,220	20.5	1,400	-		240	28,673			
659	-	-	-	-		27.9	1,637	4.2	1,400	-		45,668	5,874			
660	-	-	-	-		18.1	2,198	8.8	1,079	-		39,734	9,463			
661	-	-	-	-		9.2	2,429	4.2	1,100	-		22,328	4,657			
662	-	-	-	-		19.0	2,445	20.8	1,081	-		46,346	22,531			
663	-	-	-	-		-	-	12.7	1,026	-		-	13,047			
664	-	-	-	-		-	-	13.5	1,100	-		-	14,869			
666	-	-	-	-		0.0	3,144	46.6	1,089	-		0	50,753			
667	-	-	-	-		9.0	2,909	55.4	1,111	-		26,210	61,542			
670	-	-	-	-		-	-	38.4	1,185	-		-	45,556			
671	-	-	-	-		10.4	440	31.8	1,277	-		4,560	40,604			
673	-	-	-	-		15.8	2,705	3.4	1,400	-		42,838	4,775			
675	-	-	-	-		-	-	4.1	1,100	-		-	4,558			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing										
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
678	-	-	-	-		-	-	27.1	1,400	-		-	37,942			
679	-	-	-	-		-	-	0.0	-	-		-	-			
681	-	-	-	-		-	-	65.7	1,391	-		-	91,332			
683	-	-	-	-		0.7	-	0.7	1,322	-		-	979			
686	-	-	-	-		0.7	-	8.2	-	-		-	-			
689	-	-	-	-		21.9	822	56.3	1,111	-		18,000	62,584			
690	-	-	-	-		11.1	3,144	19.0	1,100	-		35,019	20,890			
692	-	-	-	-		69.3	1,011	6.9	1,100	-		70,080	7,580			
693	-	-	-	-		60.6	1,125	-	-	-		68,160	-			
694	-	-	-	-		126.3	1,129	32.4	689	-		142,551	22,309			
695	-	-	-	-		-	-	28.1	1,400	-		-	39,398			
697	-	-	-	-		-	-	18.5	1,396	-		-	25,898			
698	-	-	-	-		-	-	20.9	1,400	-		-	29,220			
699	-	-	-	-		-	-	64.4	1,400	-		-	90,221			
700	-	-	-	-		-	-	1.7	1,400	-		-	2,441			
701	-	-	-	-		-	-	27.8	1,400	-		-	38,865			
702	-	-	-	-		-	-	2.7	1,399	-		-	3,819			
703	-	-	-	-		-	-	-	-	-		-	-			
704	-	-	-	-		-	-	1.9	1,400	-		-	2,625			
705	-	-	-	-		-	-	13.9	1,400	-		-	19,482			
706	-	-	-	-		-	-	16.0	1,403	-		-	22,482			
707	-	-	-	-		-	-	41.7	1,265	-		-	52,685			
708	-	-	-	-		35.2	737	1.9	1,391	-		25,920	2,596			
709	-	-	-	-		5.2	772	13.3	1,100	-		3,977	14,591			
710	-	-	-	-		50.0	3,475	5.9	1,100	-		173,908	6,469			
714	-	-	-	-		5.8	42	0.1	1,400	-		240	179			
715	-	-	-	-		0.3	-	9.6	-	-		-	-			
717	-	-	-	-		-	-	11.3	1,100	-		-	12,466			
719	-	-	-	-		-	-	1.5	1,100	-		-	1,699			
720	-	-	-	-		0.6	5,568	1.5	995	-		3,198	1,500			
721	-	-	-	-		-	-	10.0	1,100	-		-	11,054			
722	-	-	-	-		10.3	5,568	3.7	1,108	-		57,356	4,140			
723	-	-	-	-		29.6	-	-	-	-		-	-			
724	-	-	-	-		-	-	-	-	-		-	-			
725	-	-	-	-		-	-	0.0	1,400	-		-	6			
726	-	-	-	-		41.0	544	18.4	1,853	-		22,307	34,060			
727	-	-	-	-		-	-	-	-	-		-	-			
728	-	-	-	-		0.0	765,924	-	-	-		482	-			
729	-	-	-	-		-	-	-	-	-		-	-			
730	-	-	-	-		47.8	1,184	3.5	1,100	-		56,640	3,880			
731	-	-	-	-		-	-	-	-	-		-	-			
732	-	-	-	-		-	-	-	-	-		-	-			
733	-	-	-	-		15.7	-	4.8	-	-		-	-			
734	-	-	-	-		40.5	919	-	-	-		37,200	-			
735	-	-	-	-		91.4	1,118	0.0	240	-		102,240	0			
736	-	-	-	-		111.1	1,074	-	-	-		119,280	-			
738	-	-	-	-		20.2	678	9.0	1,989	-		13,680	17,841			
739	-	-	-	-		-	-	23.3	2,300	-		-	53,654			
740	-	-	-	-		1.5	-	33.7	2,300	-		-	77,544			
741	-	-	-	-		-	-	34.2	2,292	-		-	78,288			
742	-	-	-	-		-	-	-	-	-		-	-			
743	-	-	-	-		-	-	-	-	-		-	-			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing										
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
744	-	-	-	-		-	-	-	-	-		-	-			
745	-	-	-	-		-	-	-	-	-		-	-			
747	-	-	-	-		30.9	970	-	-	-		30,000	-			
748	-	-	-	-		-	-	-	-	-		-	-			
749	-	-	-	-		-	-	-	-	-		-	-			
750	-	-	-	-		-	-	-	-	-		-	-			
751	-	-	-	-		50.7	1,178	4.6	247	-		59,760	1,144			
752	-	-	-	-		1.3	2,247	7.3	1,100	-		2,880	8,063			
753	-	-	-	-		0.0	-	-	-	-		-	-			
754	-	-	-	-		21.8	1,738	-	-	-		37,920	-			
755	-	-	-	-		-	-	-	-	-		-	-			
756	-	-	-	-		-	-	-	-	-		-	-			
757	-	-	-	-		-	-	-	-	-		-	-			
758	-	-	-	-		-	-	-	-	-		-	-			
759	-	-	-	-		-	-	-	-	-		-	-			
760	-	-	-	-		-	-	-	-	-		-	-			
761	-	-	-	-		-	-	-	-	-		-	-			
762	-	-	-	-		-	-	-	-	-		-	-			
763	-	-	-	-		-	-	12.9	1,400	-		-	18,051			
764	-	-	-	-		-	-	-	-	-		-	-			
765	-	-	-	-		-	-	0.2	1,400	-		-	274			
766	-	-	-	-		-	-	-	-	-		-	-			
767	-	-	-	-		-	-	-	-	-		-	-			
768	-	-	-	-		-	-	-	-	-		-	-			
769	-	-	-	-		-	-	-	-	-		-	-			
770	-	-	-	-		-	-	-	-	-		-	-			
771	-	-	-	-		-	-	-	-	-		-	-			
772	-	-	-	-		0.6	-	-	-	-		-	-			
773	-	-	-	-		-	-	-	-	-		-	-			
774	-	-	-	-		0.0	-	-	-	-		-	-			
775	-	-	-	-		-	-	-	-	-		-	-			
776	-	-	-	-		-	-	-	-	-		-	-			
777	-	-	-	-		-	-	-	-	-		-	-			
778	-	-	-	-		-	-	-	-	-		-	-			
779	-	-	-	-		-	-	-	-	-		-	-			
780	-	-	-	-		-	-	-	-	-		-	-			
781	-	-	-	-		-	-	-	-	-		-	-			
782	-	-	-	-		-	-	-	-	-		-	-			
783	-	-	-	-		-	-	-	-	-		-	-			
784	-	-	-	-		-	-	-	-	-		-	-			
785	-	-	-	-		-	-	-	-	-		-	-			
786	-	-	-	-		-	-	-	-	-		-	-			
787	-	-	-	-		-	-	-	-	-		-	-			
788	-	-	-	-		-	-	-	-	-		-	-			
789	-	-	-	-		-	-	-	-	-		-	-			
790	-	-	-	-		-	-	-	-	-		-	-			
791	-	-	-	-		-	-	-	-	-		-	-			
792	-	-	-	-		-	-	-	-	-		-	-			
793	-	-	-	-		-	-	-	-	-		-	-			
794	-	-	-	-		-	-	-	-	-		-	-			
795	-	-	-	-		-	-	-	-	-		-	-			
796	-	-	-	-		-	-	-	-	-		-	-			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing										
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
797	-	-	-	-		-	-	-	-	-		-	-			
798	-	-	-	-		-	-	-	-	-		-	-			
799	-	-	-	-		0.1	-	-	-	-		-	-			
800	-	-	-	-		-	-	-	-	-		-	-			
801	-	-	-	-		-	-	-	-	-		-	-			
802	-	-	-	-		-	-	-	-	-		-	-			
803	-	-	-	-		-	-	-	-	-		-	-			
804	-	-	-	-		-	-	-	-	-		-	-			
805	-	-	-	-		-	-	-	-	-		-	-			
806	-	-	-	-		-	-	-	-	-		-	-			
807	-	-	-	-		-	-	-	-	-		-	-			
808	-	-	-	-		-	-	-	-	-		-	-			
809	-	-	-	-		-	-	-	-	-		-	-			
810	-	-	-	-		-	-	-	-	-		-	-			
811	-	-	-	-		-	-	-	-	-		-	-			
812	-	-	-	-		-	-	-	-	-		-	-			
813	-	-	-	-		-	-	-	-	-		-	-			
814	-	-	-	-		-	-	-	-	-		-	-			
815	-	-	-	-		-	-	-	-	-		-	-			
816	-	-	-	-		-	-	-	-	-		-	-			
817	-	-	-	-		-	-	-	-	-		-	-			
818	-	-	-	-		-	-	-	-	-		-	-			
819	-	-	-	-		-	-	-	-	-		-	-			
820	-	-	-	-		-	-	-	-	-		-	-			
821	-	-	-	-		-	-	-	-	-		-	-			
822	-	-	-	-		-	-	-	-	-		-	-			
823	-	-	-	-		-	-	-	-	-		-	-			
824	-	-	-	-		-	-	1.4	241	-		-	344			
825	-	-	-	-		-	-	-	-	-		-	-			
826	-	-	-	-		-	-	-	-	-		-	-			
827	-	-	-	-		-	-	-	-	-		-	-			
828	-	-	-	-		-	-	0.0	1,400	-		-	0			
829	-	-	-	-		-	-	-	-	-		-	-			
830	-	-	-	-		-	-	-	-	-		-	-			
831	-	-	-	-		58.7	45	2.3	1,400	-		2,640	3,237			
832	-	-	-	-		-	-	-	-	-		-	-			
833	-	-	-	-		-	-	-	-	-		-	-			
834	-	-	-	-		-	-	-	-	-		-	-			
835	-	-	-	-		-	-	-	-	-		-	-			
836	-	-	-	-		-	-	-	-	-		-	-			
837	-	-	-	-		10.6	113	0.0	1,400	-		1,200	13			
838	-	-	-	-		-	-	-	-	-		-	-			
839	-	-	-	-		-	-	-	-	-		-	-			
840	-	-	-	-		-	-	-	-	-		-	-			
841	-	-	-	-		-	-	-	-	-		-	-			
842	-	-	-	-		-	-	-	-	-		-	-			
843	-	-	-	-		-	-	-	-	-		-	-			
844	-	-	-	-		-	-	-	-	-		-	-			
845	-	-	-	-		-	-	-	-	-		-	-			
846	-	-	-	-		-	-	-	-	-		-	-			
847	-	-	-	-		-	-	-	-	-		-	-			
848	-	-	-	-		-	-	-	-	-		-	-			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing										
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
849	-	-	-	-		-	-	-	-	-		-	-			
850	-	-	-	-		-	-	-	-	-		-	-			
851	-	-	-	-		-	-	-	-	-		-	-			
852	-	-	-	-		-	-	-	-	-		-	-			
853	-	-	-	-		-	-	-	-	-		-	-			
854	-	-	-	-		-	-	-	-	-		-	-			
855	-	-	-	-		-	-	-	-	-		-	-			
856	-	-	-	-		-	-	-	-	-		-	-			
857	-	-	-	-		-	-	-	-	-		-	-			
858	-	-	-	-		-	-	-	-	-		-	-			
859	-	-	-	-		-	-	-	-	-		-	-			
860	-	-	-	-		-	-	-	-	-		-	-			
861	-	-	-	-		-	-	-	-	-		-	-			
862	-	-	-	-		-	-	16.3	1,100	-		-	17,903			
863	-	-	-	-		-	-	-	-	-		-	-			
864	-	-	-	-		-	-	-	-	-		-	-			
865	-	-	-	-		-	-	-	-	-		-	-			
866	-	-	-	-		-	-	-	-	-		-	-			
867	-	-	-	-		-	-	-	-	-		-	-			
868	-	-	-	-		-	-	-	-	-		-	-			
869	-	-	-	-		-	-	13.3	1,222	-		-	16,191			
870	-	-	-	-		-	-	6.4	1,100	-		-	7,068			
871	-	-	-	-		-	-	-	-	-		-	-			
872	-	-	-	-		-	-	-	-	-		-	-			
873	-	-	-	-		-	-	-	-	-		-	-			
874	-	-	-	-		-	-	-	-	-		-	-			
875	-	-	-	-		-	-	-	-	-		-	-			
876	-	-	-	-		-	-	-	-	-		-	-			
877	-	-	-	-		-	-	-	-	-		-	-			
878	0.0	5	-	-		-	-	0.0	2,460	-		-	5			
879	-	-	-	-		-	-	-	-	-		-	-			
880	-	-	-	-		-	-	-	-	-		-	-			
881	-	-	-	-		-	-	-	-	-		-	-			
882	-	-	-	-		-	-	-	-	-		-	-			
883	-	-	-	-		-	-	-	-	-		-	-			
884	-	-	-	-		-	-	-	-	-		-	-			
885	-	-	-	-		-	-	-	-	-		-	-			
886	-	-	-	-		-	-	-	-	-		-	-			
887	-	-	-	-		-	-	-	-	-		-	-			
888	-	-	-	-		-	-	-	-	-		-	-			
889	-	-	-	-		-	-	-	-	-		-	-			
890	-	-	-	-		-	-	-	-	-		-	-			
891	-	-	-	-		-	-	-	-	-		-	-			
892	-	-	-	-		-	-	-	-	-		-	-			
893	-	-	-	-		-	-	-	-	-		-	-			
894	-	-	-	-		3.9	-	-	-	-		-	-			
895	-	-	-	-		-	-	-	-	-		-	-			
896	-	-	-	-		0.0	-	5.6	1,400	-		-	7,881			
897	-	-	-	-		-	-	12.2	1,187	-		-	14,527			
898	-	-	-	-		0.5	-	-	-	-		-	-			
899	-	-	-	-		12.0	20	-	-	-		240	-			
900	-	-	-	-		1.0	-	7.2	1,400	-		-	10,111			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
901	-	-	-	-		-	-	-	-	-		-	-			
902	-	-	-	-		-	-	-	-	-		-	-			
903	-	-	-	-		-	-	0.0	1,107	-		-	17			
904	-	-	-	-		-	-	11.8	1,100	-		-	12,972			
905	-	-	-	-		-	-	4.0	1,100	-		-	4,386			
906	-	-	-	-		-	-	-	-	-		-	-			
907	-	-	-	-		-	-	0.0	1,400	-		-	1			
908	-	-	-	-		-	-	31.8	1,202	-		-	38,254			
909	-	-	-	-		-	-	24.6	1,400	-		-	34,453			
910	-	-	-	-		-	-	-	-	-		-	-			
911	-	-	-	-		-	-	-	-	-		-	-			
912	-	-	-	-		-	-	-	-	-		-	-			
913	-	-	-	-		-	-	-	-	-		-	-			
914	-	-	-	-		-	-	-	-	-		-	-			
915	-	-	-	-		-	-	-	-	-		-	-			
916	-	-	-	-		-	-	3.4	1,400	-		-	4,817			
917	-	-	-	-		-	-	-	-	-		-	-			
918	-	-	-	-		-	-	58.1	1,400	-		-	81,338			
919	-	-	-	-		-	-	20.5	1,400	-		-	28,697			
920	-	-	-	-		-	-	-	-	-		-	-			
921	-	-	-	-		-	-	-	-	-		-	-			
922	-	-	-	-		1.1	-	-	-	-		-	-			
923	-	-	-	-		-	-	-	-	-		-	-			
924	-	-	-	-		-	-	-	-	-		-	-			
925	-	-	-	-		-	-	12.4	1,395	-		-	17,295			
926	-	-	-	-		-	-	2.6	1,400	-		-	3,612			
927	-	-	-	-		-	-	0.1	1,400	-		-	117			
928	-	-	-	-		-	-	63.7	-	111,018		-	-			California Spray Dry Co.
929	-	-	-	-		-	-	-	-	-		-	-			
930	-	-	-	-		-	-	-	-	-		-	-			
931	-	-	-	-		-	-	-	-	-		-	-			
932	-	-	-	-		-	-	-	-	-		-	-			
933	-	-	-	-		-	-	-	-	-		-	-			
934	-	-	-	-		-	-	-	-	-		-	-			
935	-	-	-	-		-	-	-	-	-		-	-			
936	-	-	-	-		-	-	-	-	-		-	-			
937	-	-	-	-		-	-	-	-	-		-	-			
938	-	-	-	-		-	-	53.6	240	-		-	12,872			
939	-	-	-	-		-	-	-	-	-		-	-			
940	-	-	-	-		-	-	-	-	-		-	-			
941	-	-	-	-		-	-	0.0	240	-		-	1			
942	-	-	-	-		3.7	-	0.0	240	-		-	0			
943	-	-	-	-		2.1	-	-	-	-		-	-			
944	-	-	-	-		-	-	-	-	-		-	-			
945	-	-	-	-		-	-	-	-	-		-	-			
946	-	-	-	-		-	-	-	-	-		-	-			
947	-	-	-	-		-	-	-	-	-		-	-			
953	-	-	-	-		-	-	-	-	-		-	-			
954	-	-	-	-		-	-	-	-	-		-	-			
955	-	-	-	-		1.2	3,144	65.4	968	-		3,843	63,333			
956	-	-	-	-		-	-	9.2	1,400	-		-	12,880			
957	-	-	-	-		-	-	9.7	1,100	-		-	10,631			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
958	-	-	-	-		-	-	2.3	1,100	-		-	2,565			
959	-	-	-	-		-	-	3.7	-	29,929		-	-			Unifirst Corp
960	-	-	-	-		-	-	3.5	-	20,861		-	-			Del Monte Foods, USA
961	-	-	-	-		-	-	22.5	-	109,229		-	-			Unilever Bestfoods
962	-	-	-	-		-	-	58.6	1,400	-		-	81,996			
963	-	-	-	-		-	-	0.3	1,315	-		-	409			
964	-	-	-	-		-	-	0.5	1,400	-		-	692			
965	-	-	-	-		-	-	1.7	-	147,178		-	-			POSDEF Power Company
966	-	-	-	-		-	-	10.2	-	7,858		-	-			California Cedar Products
967	-	-	-	-		-	-	8.9	-	336,329		-	-			Hormel
968	-	-	-	-		0.6	-	40.0	-	99,512		-	-			Newark Sierra Paper Board
969	-	-	-	-		-	-	16.0	-	87,441		-	-			Zacky Kitchens
970	-	-	-	-		-	-	4.2	1,400	-		-	5,919			
971	-	-	-	-		0.7	-	15.2	-	95,750		-	-			H.J. Heinz
972	-	-	-	-		0.9	-	27.6	-	-		-	-			
973	-	-	-	-		-	-	12.2	-	1,425		-	-			Campbell Soup Supply
974	-	-	-	-		-	-	8.9	-	83,918		-	-			Air Products
975	-	-	-	-		-	-	38.1	-	713,578		-	-			Corn Products
976	-	-	-	-		-	-	441.9	1,100	-		-	485,972			
977	-	-	-	-		-	-	811.3	2	-		-	1,369			
978	-	-	-	-		-	-	1,462.7	-	664,102		-	-			Port of Stk + Diamond of CA
979	-	-	-	-		-	-	-	-	-		-	-			
980	-	-	-	-		-	-	26.9	1,179	-		-	31,759			
981	-	-	-	-		-	-	127.4	-	350,447		-	-			San Joaquin County Hospital
982	-	-	-	-		-	-	89.4	75	-		-	6,709			
983	-	-	-	-		36.7	2,347	110.7	1,143	-		86,023	126,599			
984	-	-	-	-		85.8	1,253	4.3	240	-		107,520	1,024			
985	-	-	-	-		109.4	1,287	7.0	1,100	-		140,734	7,664			
986	-	-	-	-		-	-	12.3	2,300	-		-	28,250			
987	-	-	-	-		-	-	-	-	-		-	-			
988	-	-	-	-		-	-	-	-	-		-	-			
989	-	-	-	-		-	-	-	-	-		-	-			
990	-	-	-	-		-	-	-	-	-		-	-			
991	-	-	-	-		-	-	-	-	-		-	-			
992	-	-	-	-		-	-	-	-	-		-	-			
993	-	-	-	-		-	-	-	-	-		-	-			
994	-	-	-	-		-	-	-	-	-		-	-			
995	-	-	-	-		-	-	2.0	1,400	-		-	2,855			
996	-	-	-	-		-	-	-	-	-		-	-			
997	-	-	-	-		-	-	-	-	-		-	-			
998	-	-	-	-		-	-	-	-	-		-	-			
999	-	-	-	-		-	-	-	-	-		-	-			
1000	-	-	-	-		-	-	-	-	-		-	-			
1001	-	-	-	-		-	-	0.0	1,100	-		-	0			
1002	-	-	-	-		-	-	-	-	-		-	-			
1003	-	-	-	-		-	-	-	-	-		-	-			
1004	-	-	-	-		-	-	-	-	-		-	-			
1005	-	-	-	-		-	-	0.0	1,400	-		-	12			
1006	-	-	-	-		-	-	128.4	1,103	-		-	141,555			
1007	-	-	-	-		-	-	-	-	-		-	-			
1008	-	-	-	-		-	-	-	-	-		-	-			
1009	-	-	-	-		-	-	-	-	-		-	-			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
1010	-	-	-	-		-	-	-	-	-		-	-			
1011	-	-	-	-		-	-	-	-	-		-	-			
1012	-	-	-	-		-	-	-	-	-		-	-			
1013	-	-	-	-		-	-	-	-	-		-	-			
1014	-	-	-	-		-	-	-	-	-		-	-			
1015	-	-	-	-		-	-	-	-	-		-	-			
1016	-	-	-	-		-	-	-	-	-		-	-			
1017	-	-	-	-		-	-	120.7	1,100	-		-	132,791			
1018	-	-	-	-		-	-	108.4	1,100	-		-	119,270			
1019	0.2	473	-	-		-	-	0.2	2,460	-		-	473			
1020	-	-	-	-		-	-	-	-	-		-	-			
1021	-	-	-	-		-	-	-	-	-		-	-			
1022	-	-	-	-		-	-	-	-	-		-	-			
1023	-	-	-	-		-	-	-	-	83,240		-	-			Northern CA Youth Center
1024	-	-	-	-		-	-	-	-	83,240		-	-			Northern CA Youth Center
1025	-	-	-	-		-	-	-	-	-		-	-			
1026	-	-	-	-		-	-	-	-	83,240		-	-			Northern CA Youth Center
1027	-	-	-	-		-	-	-	-	-		-	-			
1028	-	-	-	-		-	-	-	-	-		-	-			
1029	-	-	-	-		-	-	-	-	-		-	-			
1030	-	-	-	-		-	-	-	-	-		-	-			
1031	-	-	-	-		-	-	-	-	-		-	-			
1032	-	-	-	-		-	-	-	-	-		-	-			
1033	-	-	-	-		-	-	-	-	-		-	-			
1034	-	-	-	-		-	-	-	-	-		-	-			
1035	-	-	-	-		0.9	-	53.6	1,400	-		-	74,999			
1036	-	-	-	-		-	-	-	-	-		-	-			
1037	-	-	-	-		-	-	-	-	-		-	-			
1038	-	-	-	-		-	-	-	-	-		-	-			
1039	-	-	-	-		-	-	-	-	-		-	-			
1040	-	-	-	-		-	-	-	-	-		-	-			
1041	-	-	-	-		-	-	-	-	-		-	-			
1042	-	-	-	-		-	-	-	-	-		-	-			
1043	-	-	-	-		57.6	42	2.0	1,400	-		2,400	2,858			
1044	-	-	-	-		-	-	-	-	-		-	-			
1045	-	-	-	-		-	-	-	-	-		-	-			
1046	-	-	-	-		-	-	-	-	-		-	-			
1047	-	-	-	-		-	-	-	-	-		-	-			
1048	-	-	-	-		-	-	-	-	-		-	-			
1049	-	-	-	-		-	-	-	-	-		-	-			
1050	-	-	-	-		0.0	-	-	-	-		-	-			
1051	-	-	-	-		-	-	-	-	-		-	-			
1052	-	-	-	-		-	-	-	-	-		-	-			
1053	-	-	-	-		-	-	-	-	-		-	-			
1054	-	-	-	-		-	-	-	-	-		-	-			
1055	-	-	-	-		-	-	-	-	-		-	-			
1056	-	-	-	-		0.3	-	-	-	-		-	-			
1057	-	-	-	-		0.2	-	-	-	-		-	-			
1058	-	-	-	-		-	-	66.9	1,100	-		-	73,636			
1059	-	-	-	-		-	-	-	-	-		-	-			
1060	-	-	-	-		-	-	23.3	1,100	-		-	25,631			
1061	-	-	-	-		-	-	45.4	1,364	-		-	61,982			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing										
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
1062	-	-	-	-		0.0	-	0.4	1,400	-		-	532			
1063	-	-	-	-		0.0	892,198	-	-	-		240	-			
1064	-	-	-	-		-	-	-	-	-		-	-			
1068	-	-	-	-		-	-	5.0	1,100	-		-	5,475			
1069	-	-	-	-		-	-	0.4	1,624	-		-	602			
1070	-	-	-	-		0.0	41,625	0.0	1,100	-		480	0			
1071	-	-	-	-		-	-	-	-	-		-	-			
1072	-	-	-	-		-	-	-	-	-		-	-			
1073	-	-	-	-		-	-	-	-	-		-	-			
1074	-	-	-	-		-	-	-	-	-		-	-			
1075	-	-	-	-		-	-	-	-	-		-	-			
1076	-	-	-	-		-	-	-	-	-		-	-			
1077	-	-	-	-		-	-	-	-	-		-	-			
1078	-	-	-	-		-	-	-	-	-		-	-			
1079	-	-	-	-		-	-	-	-	-		-	-			
1080	-	-	-	-		-	-	-	-	-		-	-			
1081	-	-	-	-		-	-	-	-	-		-	-			
1082	-	-	-	-		-	-	-	-	-		-	-			
1083	-	-	-	-		-	-	-	-	-		-	-			
1084	-	-	-	-		-	-	-	-	-		-	-			
1085	-	-	-	-		-	-	-	-	-		-	-			
1086	-	-	-	-		-	-	-	-	-		-	-			
1087	-	-	-	-		-	-	-	-	-		-	-			
1088	-	-	-	-		-	-	-	-	-		-	-			
1089	-	-	-	-		-	-	-	-	-		-	-			
1090	-	-	-	-		-	-	-	-	-		-	-			
1091	-	-	-	-		-	-	-	-	-		-	-			
1092	-	-	-	-		-	-	-	-	-		-	-			
1093	-	-	-	-		-	-	-	-	-		-	-			
1094	-	-	-	-		-	-	-	-	-		-	-			
1095	-	-	-	-		-	-	-	-	-		-	-			
1096	-	-	-	-		-	-	-	-	-		-	-			
1097	-	-	-	-		-	-	-	-	-		-	-			
1098	-	-	-	-		0.7	-	0.6	240	-		-	132			
1099	-	-	-	-		0.5	-	-	-	-		-	-			
1100	-	-	-	-		-	-	-	-	-		-	-			
1101	-	-	-	-		-	-	-	-	-		-	-			
1102	-	-	-	-		-	-	-	-	-		-	-			
1103	-	-	-	-		-	-	-	-	-		-	-			
1104	-	-	-	-		-	-	-	-	-		-	-			
1105	-	-	-	-		-	-	-	-	-		-	-			
1106	-	-	-	-		-	-	-	-	-		-	-			
1107	-	-	-	-		-	-	-	-	-		-	-			
1108	-	-	-	-		-	-	-	-	-		-	-			
1109	-	-	-	-		-	-	-	-	-		-	-			
1110	-	-	-	-		-	-	-	-	-		-	-			
1111	-	-	-	-		-	-	-	-	-		-	-			
1112	-	-	-	-		-	-	-	-	-		-	-			
1113	-	-	-	-		-	-	-	-	-		-	-			
1114	-	-	-	-		-	-	-	-	-		-	-			
1115	-	-	-	-		-	-	-	-	-		-	-			
1116	-	-	-	-		-	-	-	-	-		-	-			

Table H-1. Land Use Information by Service Area Used for the Existing Conditions Model

	Village		Water			Existing										
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
1117	-	-	-	-		-	-	-	-	-		-	-			
1118	-	-	-	-		-	-	-	-	-		-	-			
1119	-	-	-	-		-	-	-	-	-		-	-			
1120	-	-	-	-		-	-	-	-	-		-	-			
1121	-	-	-	-		-	-	-	-	-		-	-			
1122	-	-	-	-		-	-	-	-	-		-	-			
1123	-	-	-	-		-	-	-	-	-		-	-			
1124	-	-	-	-		-	-	-	-	-		-	-			
1125	-	-	-	-		-	-	-	-	-		-	-			
1126	-	-	-	-		-	-	-	-	-		-	-			
1127	-	-	-	-		-	-	-	-	-		-	-			
1128	-	-	-	-		1.1	224	0.0	1,100	-		240	2			
1129	-	-	-	-		-	-	-	-	-		-	-			
1130	-	-	-	-		-	-	-	-	-		-	-			
1131	-	-	-	-		-	-	-	-	-		-	-			
1132	-	-	-	-		-	-	-	-	-		-	-			
1133	-	-	-	-		-	-	0.0	1,100	-		-	17			
1134	-	-	-	-		-	-	-	-	-		-	-			
1135	-	-	-	-		-	-	-	-	-		-	-			
1136	-	-	-	-		-	-	-	-	-		-	-			
1137	-	-	-	-		-	-	-	-	-		-	-			
1138	-	-	-	-		-	-	-	-	-		-	-			
1139	-	-	-	-		-	-	-	-	-		-	-			
1140	-	-	-	-		-	-	10.8	1,100	-		-	11,899			
1141	-	-	-	-		-	-	1.2	1,100	-		-	1,278			
1142	-	-	-	-		-	-	-	-	-		-	-			
1143	-	-	-	-		-	-	-	-	-		-	-			
1144	-	-	-	-		-	-	55.6	1,400	-		-	77,790			
1145	-	-	-	-		-	-	-	-	-		-	-			

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	39.2	44,898	0.7	2,411	-	-	-	-	-	-	-	-	-	-
2	88.4	173,422	-	-	10.7	72,670	-	-	5.5	12,445	-	-	-	-
3	79.0	92,301	-	-	-	-	-	-	-	-	-	-	-	-
4	81.8	35,632	-	-	-	-	-	-	-	-	0.0	4	-	-
5	43.1	90,544	-	-	-	-	-	-	-	-	4.1	7,943	-	-
6	44.9	94,341	-	-	0.7	4,794	-	-	-	-	0.6	1,242	-	-
7	41.6	87,358	-	-	24.3	165,505	-	-	-	-	-	-	-	-
8	19.2	40,320	35.7	178,520	0.7	4,640	-	-	-	-	0.8	1,653	-	-
9	26.3	55,163	61.7	308,634	9.9	67,357	-	-	3.7	8,844	2.3	4,540	0.4	1,265
10	21.9	46,073	-	-	-	-	-	-	-	-	0.8	1,555	-	-
12	0.0	10	-	-	-	-	0.3	569	-	-	77.9	155,770	-	-
14	24.8	30,480	12.9	40,590	-	-	-	-	-	-	-	-	-	-
15	72.3	151,883	-	-	-	-	-	-	-	-	-	-	-	-
16	15.5	24,421	10.6	33,536	-	-	-	-	-	-	-	-	-	-
17	36.5	76,547	41.5	207,628	-	-	-	-	-	-	-	-	-	-
18	2.9	5,991	39.5	197,628	23.3	158,215	-	-	-	-	-	-	-	-
20	119.3	151,725	-	-	-	-	-	-	-	-	-	-	-	-
21	141.5	129,996	-	-	-	-	-	-	-	-	-	-	-	-
22	108.9	106,712	-	-	-	-	-	-	-	-	1.5	1,796	-	-
23	63.6	133,651	0.0	15	1.3	8,799	-	-	-	-	-	-	-	-
24	54.1	113,667	16.5	82,268	0.0	42	-	-	-	-	-	-	-	-
25	35.2	73,943	22.8	114,038	-	-	-	-	-	-	-	-	-	-
26	67.4	141,567	1.2	5,781	-	-	-	-	-	-	0.6	1,125	-	-
29	111.1	154,324	-	-	-	-	-	-	-	-	-	-	-	-
30	36.5	76,689	-	-	-	-	0.1	174	-	-	0.0	40	-	-
31	91.4	186,933	0.2	971	-	-	-	-	-	-	-	-	-	-
32	71.6	82,974	24.1	76,214	-	-	-	-	-	-	-	-	-	-
33	44.0	92,424	15.3	76,465	-	-	-	-	-	-	4.4	8,745	-	-
35	114.9	114,218	0.4	1,280	-	-	-	-	-	-	-	-	-	-
36	141.2	142,673	37.0	120,255	-	-	-	-	-	-	-	-	-	-
37	122.9	133,033	28.7	90,228	-	-	-	-	-	-	0.4	444	-	-
38	46.5	1,749	0.0	65	-	-	-	-	-	-	-	-	-	-
39	82.8	99,920	13.6	42,806	0.0	16	-	-	-	-	0.6	724	-	-
40	36.7	45,571	-	-	-	-	-	-	-	-	-	-	-	-
41	26.8	54,471	29.8	149,124	11.8	80,574	-	-	-	-	0.5	531	-	-
42	71.5	150,106	2.6	12,818	-	-	-	-	-	-	-	-	-	-
43	50.9	103,968	36.9	181,826	-	-	-	-	-	-	-	-	-	-
44	114.7	151,185	0.8	4,056	-	-	-	-	-	-	-	-	-	-
45	124.1	128,759	-	-	0.2	1,184	-	-	-	-	29.1	53,985	-	-
49	24.4	41,227	-	-	-	-	-	-	-	-	-	-	-	-
50	71.1	71,760	24.7	78,680	-	-	-	-	-	-	-	-	-	-
51	137.1	168,000	54.0	169,726	-	-	-	-	-	-	-	-	-	-
52	30.5	36,523	1.6	5,112	-	-	-	-	-	-	0.1	65	-	-
53	52.8	44,096	0.2	633	-	-	-	-	-	-	8.0	9,203	-	-
55	126.3	116,479	-	-	26.1	173,387	-	-	-	-	0.1	112	-	-
56	129.7	167,756	16.0	50,247	-	-	-	-	-	-	5.0	8,228	-	-
57	39.2	56,642	45.4	170,062	-	-	-	-	-	-	-	-	-	-
58	85.8	105,246	11.0	34,820	0.0	19	-	-	-	-	0.2	233	-	-
59	109.1	117,809	34.1	112,135	-	-	-	-	1.0	1,083	0.7	774	-	-
60	23.6	14,400	8.2	25,708	-	-	-	-	5.0	5,484	8.2	9,045	-	-
62	107.6	127,365	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
63	41.4	61,680	-	-	0.0	9	-	-	-	-	-	-	-	-
64	66.7	67,158	6.2	19,469	0.0	0	-	-	-	-	-	-	-	-
65	77.2	87,439	23.9	76,218	7.6	42,455	-	-	-	-	6.3	6,928	-	-
66	65.0	19,438	-	-	-	-	-	-	-	-	7.3	8,081	-	-
67	-	-	0.1	157	-	-	-	-	12.7	19,504	9.0	11,661	-	-
68	93.1	78,221	0.2	684	-	-	-	-	-	-	-	-	-	-
69	0.1	275	2.0	9,991	-	-	-	-	-	-	-	-	-	-
70	0.6	398	52.7	165,688	7.0	38,892	-	-	0.0	3	7.8	9,088	8.1	11,277
71	11.5	10,447	11.7	53,042	-	-	-	-	-	-	3.7	5,097	-	-
72	64.4	9,583	0.4	1,103	-	-	-	-	-	-	-	-	-	-
73	45.4	44,482	1.1	3,509	-	-	-	-	-	-	-	-	-	-
75	78.6	100,046	15.8	54,012	-	-	-	-	-	-	0.0	0	20.7	39,262
77	84.1	92,203	14.4	46,887	0.0	262	-	-	-	-	5.4	6,352	-	-
78	88.1	60,493	0.8	2,785	-	-	-	-	-	-	8.9	9,834	-	-
79	67.2	109,680	-	-	-	-	-	-	-	-	1.1	1,182	-	-
80	106.7	137,143	-	-	-	-	-	-	-	-	54.7	67,473	50.7	150,648
81	121.0	141,021	10.2	32,312	1.9	10,782	-	-	1.1	1,254	13.6	15,012	-	-
82	66.5	86,433	19.0	59,705	-	-	-	-	0.5	528	32.5	35,780	-	-
83	12.6	20,882	24.0	78,746	-	-	-	-	5.0	6,437	-	-	-	-
84	55.8	62,880	21.2	66,496	19.9	110,991	-	-	-	-	0.1	86	-	-
85	66.2	72,974	18.5	64,692	8.8	49,267	-	-	-	-	1.5	1,623	-	-
86	66.8	49,159	0.0	76	-	-	-	-	-	-	127.7	174,954	-	-
87	12.4	16,800	4.7	14,725	4.0	22,013	-	-	0.3	290	8.2	9,061	-	-
88	52.9	111,086	-	-	0.6	4,222	-	-	25.0	59,948	-	-	-	-
91	50.0	55,243	25.2	80,164	1.5	8,320	-	-	11.8	12,986	15.0	16,464	-	-
92	83.5	85,931	35.8	113,736	-	-	-	-	-	-	17.5	21,043	-	-
93	46.9	59,437	0.8	2,785	-	-	-	-	-	-	-	-	-	-
94	-	-	2.2	11,193	-	-	-	-	-	-	82.7	112,691	1.6	2,879
95	43.1	2,160	3.1	11,889	0.3	1,442	-	-	-	-	19.9	23,117	-	-
96	96.5	110,361	29.9	93,891	9.2	51,430	-	-	4.7	5,197	36.6	42,437	-	-
97	62.5	67,766	14.9	46,778	17.7	98,309	-	-	-	-	-	-	-	-
98	21.7	45,726	-	-	-	-	-	-	-	-	44.3	86,164	-	-
99	7.3	8,160	-	-	-	-	-	-	-	-	68.2	73,045	16.1	24,252
100	35.8	40,800	46.6	175,277	-	-	-	-	-	-	0.0	0	7.0	11,457
101	62.8	93,600	3.1	9,749	0.0	78	-	-	-	-	67.9	74,687	2.2	3,100
102	45.4	12,489	5.2	16,235	1.0	5,751	-	-	-	-	6.2	6,771	-	-
103	21.3	45,096	18.5	92,586	-	-	-	-	-	-	0.0	21	-	-
104	23.4	3,373	0.2	839	-	-	-	-	10.4	11,410	9.8	10,739	23.8	44,672
106	102.9	124,906	0.4	1,753	-	-	-	-	-	-	2.2	3,575	-	-
107	46.6	63,840	-	-	4.5	24,975	-	-	0.7	734	17.9	19,732	-	-
109	66.1	57,120	-	-	-	-	0.2	453	-	-	-	-	-	-
110	81.5	86,038	0.2	718	4.1	22,888	-	-	2.7	3,003	0.0	38	-	-
111	74.5	64,139	-	-	-	-	-	-	-	-	-	-	-	-
112	25.5	21,840	50.2	166,212	4.6	25,848	-	-	-	-	10.8	11,831	-	-
113	38.1	48,381	2.5	7,868	-	-	-	-	-	-	-	-	-	-
114	108.1	1,200	-	-	0.3	1,656	-	-	-	-	37.6	41,375	-	-
115	4.0	1,440	4.2	13,204	17.7	99,238	-	-	10.2	11,205	38.6	45,568	-	-
116	66.7	80,244	6.7	23,193	-	-	-	-	-	-	-	-	-	-
117	84.9	107,298	1.7	5,247	-	-	-	-	4.8	5,253	12.8	14,066	-	-
118	48.4	67,596	36.2	113,744	0.0	4	-	-	-	-	-	-	-	-
120	20.7	24,240	0.1	169	6.1	33,732	-	-	-	-	-	-	-	-
121	200.4	244,421	1.3	6,306	0.3	2,156	-	-	0.0	1	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
122	1.2	8	9.8	30,869	12.2	69,192	-	-	3.4	3,736	19.1	21,030	-	-
123	98.8	208,002	10.9	54,607	22.2	147,006	-	-	-	-	2.8	3,520	-	-
124	25.5	24,888	7.1	22,449	-	-	-	-	-	-	9.4	10,347	-	-
125	47.1	1,751	-	-	0.0	80	-	-	-	-	0.1	93	-	-
126	32.5	39,185	0.0	2	-	-	-	-	1.1	1,181	-	-	-	-
127	-	-	-	-	0.0	196	-	-	-	-	-	-	5.3	10,556
128	6.2	1,209	23.3	73,151	29.5	168,169	-	-	-	-	11.3	12,474	-	-
129	2.2	1,921	8.2	33,171	23.4	130,456	-	-	0.1	63	-	-	-	-
130	115.4	11,078	2.6	8,183	0.0	9	-	-	-	-	2.1	2,364	-	-
131	17.4	14,023	-	-	3.8	21,301	0.2	470	-	-	2.6	3,233	-	-
132	38.0	45,164	0.9	3,676	0.6	3,328	-	-	-	-	-	-	-	-
133	0.0	240	-	-	13.9	77,188	-	-	-	-	0.8	914	-	-
134	25.4	22,568	0.2	514	-	-	-	-	-	-	3.9	4,336	-	-
135	40.5	38,883	0.8	2,930	-	-	-	-	-	-	-	-	-	-
136	39.7	45,963	2.5	8,645	12.4	72,958	-	-	0.4	464	-	-	-	-
137	52.0	-	0.5	1,488	-	-	-	-	-	-	-	-	-	-
138	44.8	47,342	1.9	6,068	-	-	-	-	-	-	-	-	-	-
139	126.7	258,391	0.2	1,109	-	-	-	-	-	-	-	-	-	-
140	36.0	28,936	-	-	3.0	16,595	-	-	-	-	5.1	5,577	-	-
141	63.8	240	-	-	-	-	-	-	-	-	-	-	-	-
142	0.0	1	-	-	0.6	4,010	-	-	34.2	82,124	0.0	2	2.2	3,036
143	0.0	1,920	-	-	0.0	16	-	-	11.9	13,853	29.3	35,207	-	-
144	74.8	87,901	6.7	21,758	8.1	51,213	-	-	12.1	13,262	56.0	62,343	-	-
145	0.0	2,640	-	-	21.7	120,614	-	-	19.1	20,966	23.8	26,522	-	-
146	15.5	18,215	1.7	5,262	6.3	34,969	-	-	-	-	52.4	76,329	-	-
147	64.9	54,816	-	-	-	-	-	-	-	-	-	-	-	-
148	31.9	66,947	-	-	-	-	-	-	-	-	-	-	17.3	51,851
149	41.8	63,544	10.0	34,930	0.5	2,996	-	-	-	-	8.1	8,930	-	-
150	75.4	80,073	14.5	45,549	0.0	181	-	-	-	-	0.3	347	-	-
151	2.8	480	37.5	117,885	0.1	759	-	-	8.5	9,348	0.7	760	-	-
152	28.9	60,517	24.7	123,433	-	-	-	-	-	-	-	-	-	-
153	60.6	127,293	10.7	53,522	12.4	84,573	-	-	0.7	1,768	-	-	-	-
154	-	-	-	-	-	-	-	-	0.4	414	0.8	868	-	-
155	2.2	-	-	-	-	-	-	-	1.1	1,221	15.8	26,050	-	-
156	77.2	66,664	23.7	74,445	0.0	2	-	-	-	-	-	-	-	-
157	133.8	141,812	0.8	2,586	0.3	1,612	0.1	301	-	-	-	-	-	-
158	1.8	-	-	-	-	-	-	-	19.3	21,240	11.3	13,261	-	-
159	13.3	27,839	5.2	26,151	0.2	1,590	-	-	0.5	1,144	12.0	23,903	-	-
160	12.4	11,265	2.9	9,534	58.3	324,815	-	-	-	-	6.5	10,894	-	-
161	4.1	720	-	-	-	-	-	-	-	-	53.6	58,992	-	-
162	32.2	30,721	3.8	11,962	-	-	-	-	-	-	-	-	-	-
163	1.0	1,210	0.3	924	42.3	235,543	-	-	-	-	-	-	-	-
164	74.3	71,764	1.7	5,388	22.2	123,360	-	-	-	-	-	-	-	-
165	43.5	51,409	0.0	58	19.7	109,800	-	-	10.1	11,096	11.4	12,512	-	-
166	41.0	49,543	9.7	36,331	6.6	36,560	-	-	24.5	26,912	0.0	20	-	-
167	4.3	3,840	0.1	180	5.4	30,131	-	-	-	-	-	-	-	-
168	119.0	152,890	0.8	4,161	-	-	-	-	-	-	-	-	-	-
169	57.0	118,313	-	-	0.9	6,070	-	-	-	-	1.2	2,431	118.3	354,709
170	57.6	58,007	0.1	325	22.2	123,549	-	-	-	-	0.0	4	-	-
171	69.7	96,960	0.0	0	-	-	-	-	7.8	8,591	-	-	-	-
172	0.1	-	-	-	3.5	19,444	-	-	4.6	5,111	43.4	47,685	-	-
173	59.5	125,031	-	-	13.8	90,156	-	-	-	-	0.3	509	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
174	1.0	1,843	-	-	-	-	-	-	-	-	0.6	787	49.6	89,630
175	66.8	140,179	-	-	2.5	14,179	-	-	-	-	-	-	-	-
176	-	-	-	-	-	-	-	-	-	-	40.9	46,328	18.4	55,030
177	24.7	26,656	-	-	-	-	-	-	10.2	11,203	67.5	74,268	-	-
178	9.2	16,708	1.0	4,791	38.8	263,015	-	-	44.6	106,765	24.0	47,646	-	-
179	14.3	16,080	33.7	112,805	0.0	203	-	-	7.7	8,431	15.1	16,641	-	-
180	46.8	53,761	-	-	-	-	-	-	1.0	1,112	14.6	20,457	-	-
181	66.7	95,771	-	-	-	-	-	-	-	-	-	-	-	-
182	-	-	-	-	-	-	-	-	-	-	34.1	38,891	44.5	130,706
183	104.4	132,039	0.1	433	-	-	-	-	-	-	20.4	27,140	1.0	1,407
184	0.0	4	4.6	22,837	10.4	70,875	-	-	4.0	7,994	12.8	25,614	-	-
185	59.7	125,426	-	-	-	-	-	-	-	-	5.0	9,959	-	-
186	-	-	-	-	-	-	-	-	-	-	24.9	28,123	-	-
187	89.5	82,160	26.9	91,789	26.5	162,695	-	-	19.0	20,910	13.5	15,895	-	-
188	70.4	147,851	0.1	420	4.4	29,308	-	-	-	-	-	-	-	-
189	98.5	93,729	-	-	-	-	0.1	146	-	-	-	-	-	-
190	1.5	1,448	-	-	-	-	-	-	37.7	41,875	9.2	10,164	-	-
191	27.5	57,769	6.1	30,265	9.8	65,611	-	-	-	-	0.0	20	-	-
192	22.4	18,773	-	-	-	-	-	-	-	-	-	-	-	-
193	33.9	33,477	-	-	-	-	-	-	1.1	1,160	12.2	13,489	-	-
194	31.8	66,736	1.5	7,516	-	-	-	-	-	-	5.2	10,429	-	-
195	71.3	67,080	-	-	-	-	-	-	0.8	914	4.3	4,684	-	-
196	12.4	26,088	0.7	3,693	-	-	-	-	0.5	1,223	-	-	70.0	210,115
197	73.6	60,987	-	-	-	-	-	-	-	-	34.8	42,656	43.3	69,712
198	59.3	42,483	-	-	-	-	-	-	-	-	0.0	17	-	-
199	46.7	98,032	25.3	126,262	-	-	-	-	14.3	34,355	-	-	-	-
200	28.4	59,712	10.0	49,896	-	-	-	-	-	-	0.6	1,140	-	-
201	155.8	327,151	-	-	-	-	-	-	-	-	0.5	1,011	-	-
202	143.0	300,338	3.3	16,530	7.2	48,766	-	-	5.8	14,019	9.6	19,140	-	-
203	6.8	-	-	-	-	-	16.5	34,723	-	-	-	-	-	-
204	59.6	54,657	-	-	-	-	-	-	-	-	-	-	-	-
205	103.6	217,466	-	-	-	-	-	-	-	-	-	-	-	-
206	41.6	31,295	-	-	-	-	-	-	-	-	-	-	-	-
207	61.7	129,648	0.5	2,416	-	-	-	-	-	-	-	-	-	-
208	121.8	255,756	-	-	-	-	-	-	-	-	5.7	11,473	-	-
209	110.2	121,468	-	-	-	-	-	-	-	-	26.1	30,813	12.3	22,056
210	127.6	87,955	-	-	-	-	-	-	-	-	-	-	-	-
211	-	-	-	-	-	-	-	-	-	-	-	-	-	-
212	7.6	15,967	41.9	209,422	-	-	-	-	15.7	37,619	3.4	6,727	-	-
213	50.1	105,272	35.7	178,285	-	-	-	-	4.0	9,506	17.2	34,417	-	-
214	75.4	158,420	0.5	2,677	-	-	-	-	-	-	14.4	28,712	22.5	67,582
215	52.3	41,210	-	-	-	-	-	-	-	-	-	-	-	-
216	89.6	188,238	-	-	-	-	-	-	-	-	-	-	-	-
217	138.0	131,483	-	-	-	-	-	-	-	-	19.9	25,089	51.7	119,524
218	126.0	264,550	-	-	-	-	-	-	-	-	-	-	-	-
219	68.8	144,414	0.0	0	-	-	-	-	-	-	-	-	-	-
220	14.4	30,911	2.6	13,194	-	-	-	-	-	-	9.9	19,769	-	-
221	2.0	3,917	-	-	-	-	-	-	-	-	-	-	109.0	189,577
222	-	-	-	-	-	-	-	-	-	-	-	-	-	-
223	89.7	188,475	-	-	-	-	-	-	-	-	-	-	-	-
224	18.8	39,498	7.7	38,694	-	-	-	-	0.3	742	0.0	99	-	-
225	36.9	37,601	1.0	3,115	-	-	-	-	-	-	-	-	4.0	9,199

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	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
226	46.4	97,427	-	-	-	-	-	-	-	-	1.4	2,817	-	-
227	70.2	147,416	-	-	-	-	-	-	-	-	3.3	6,661	-	-
228	93.9	87,649	0.2	661	-	-	-	-	-	-	-	-	0.6	830
229	46.7	98,075	3.3	16,471	-	-	-	-	-	-	33.5	66,036	24.1	72,379
230	4.7	9,939	-	-	-	-	-	-	-	-	-	-	-	-
232	16.9	35,393	5.7	28,441	-	-	-	-	4.6	11,092	1.8	3,615	-	-
233	133.6	148,692	-	-	-	-	-	-	-	-	-	-	0.9	2,702
234	1.5	2,339	-	-	-	-	-	-	-	-	-	-	12.1	35,902
235	0.6	1,360	-	-	-	-	-	-	-	-	1.8	3,532	-	-
236	1.4	3,039	-	-	-	-	-	-	-	-	-	-	-	-
237	35.1	73,650	-	-	-	-	-	-	0.2	369	-	-	-	-
238	40.3	39,113	-	-	-	-	-	-	-	-	4.6	5,360	24.0	46,722
239	35.5	74,547	-	-	20.9	142,085	-	-	30.7	73,600	25.3	50,691	-	-
240	47.7	100,193	-	-	-	-	-	-	-	-	-	-	-	-
241	6.8	14,281	1.2	5,846	16.3	110,950	-	-	-	-	-	-	-	-
243	111.3	129,267	-	-	-	-	-	-	-	-	7.3	8,056	15.1	23,687
244	44.5	93,490	1.3	6,368	5.1	34,398	-	-	4.6	10,953	4.9	9,795	-	-
245	76.7	156,072	-	-	-	-	-	-	-	-	-	-	-	-
246	48.6	101,996	3.5	17,615	0.0	16	-	-	-	-	-	-	-	-
247	41.5	48,330	6.3	20,021	-	-	-	-	-	-	4.4	5,104	10.1	15,790
248	62.6	131,483	-	-	-	-	-	-	-	-	-	-	-	-
249	38.4	80,579	-	-	-	-	-	-	-	-	-	-	-	-
250	2.7	5,733	20.4	102,217	22.8	154,707	-	-	-	-	20.4	40,721	21.4	64,309
251	61.9	129,970	-	-	-	-	-	-	-	-	-	-	-	-
252	74.0	155,356	-	-	-	-	-	-	-	-	-	-	-	-
253	1.5	3,100	3.8	18,802	-	-	-	-	-	-	-	-	57.7	109,164
254	22.2	28,193	-	-	-	-	-	-	-	-	-	-	-	-
255	0.7	1,465	11.5	36,283	-	-	-	-	-	-	-	-	10.2	20,316
256	61.3	51,813	-	-	-	-	-	-	-	-	-	-	18.2	25,691
257	26.3	55,287	-	-	1.9	13,174	-	-	9.4	22,502	-	-	-	-
258	65.8	138,271	0.1	326	0.0	331	-	-	-	-	0.3	666	-	-
259	0.2	240	10.6	33,485	-	-	-	-	-	-	1.2	1,367	32.3	62,794
260	11.1	22,815	-	-	-	-	-	-	-	-	8.1	16,133	-	-
261	62.8	131,898	-	-	-	-	-	-	-	-	1.0	2,032	-	-
262	36.5	76,674	2.3	11,598	-	-	-	-	-	-	-	-	-	-
263	2.4	5,065	-	-	-	-	-	-	-	-	-	-	-	-
264	41.0	86,062	-	-	-	-	-	-	-	-	-	-	-	-
265	76.5	72,249	-	-	-	-	-	-	-	-	8.0	9,632	-	-
266	34.9	73,258	-	-	14.5	98,820	-	-	11.3	27,227	2.5	5,028	-	-
267	31.1	32,117	-	-	3.0	16,736	-	-	-	-	-	-	6.8	9,571
268	39.9	83,731	4.7	23,264	-	-	-	-	0.4	842	1.9	3,898	-	-
269	-	-	1.7	5,266	-	-	-	-	-	-	-	-	6.1	12,301
270	27.9	58,619	30.1	150,299	15.1	102,461	-	-	-	-	4.1	8,199	13.5	26,656
271	23.6	3,661	15.7	49,313	0.6	3,262	-	-	-	-	-	-	37.9	70,298
272	21.2	44,426	-	-	-	-	-	-	-	-	-	-	-	-
273	21.1	44,414	-	-	-	-	-	-	-	-	-	-	-	-
274	-	-	-	-	-	-	-	-	-	-	0.0	7	-	-
275	30.9	64,896	0.5	2,379	-	-	-	-	-	-	-	-	-	-
276	39.5	49,128	13.7	42,966	4.9	27,249	-	-	-	-	4.9	5,551	-	-
277	16.6	34,778	-	-	-	-	-	-	-	-	1.9	3,829	-	-
278	1.1	2,273	-	-	6.5	44,295	-	-	0.6	1,450	38.0	75,944	-	-
279	15.3	32,115	4.1	20,537	-	-	-	-	-	-	5.9	11,797	-	-

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	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
280	0.1	-	1.3	4,237	-	-	-	-	-	-	3.8	4,684	11.8	32,431
281	33.9	34,614	-	-	-	-	-	-	-	-	5.9	6,838	-	-
282	22.0	27,112	9.3	29,283	-	-	-	-	-	-	9.8	11,838	-	-
284	119.0	155,952	-	-	-	-	-	-	-	-	15.9	28,511	-	-
285	5.8	8,789	0.5	1,585	7.8	43,546	-	-	-	-	3.5	4,550	-	-
286	15.4	16,636	8.2	25,661	-	-	-	-	-	-	1.9	2,198	-	-
287	-	-	-	-	-	-	-	-	-	-	33.3	40,216	-	-
288	37.1	55,009	14.3	44,852	-	-	-	-	-	-	6.0	7,216	0.1	100
289	22.5	24,981	2.9	9,208	-	-	-	-	-	-	3.7	4,540	0.0	22
290	73.1	82,481	-	-	-	-	-	-	-	-	18.9	21,159	-	-
291	90.8	86,596	-	-	-	-	-	-	-	-	22.0	28,325	-	-
292	24.6	28,657	5.6	17,539	-	-	-	-	-	-	-	-	0.1	103
293	-	-	-	-	-	-	-	-	-	-	44.8	65,981	8.1	16,221
294	-	-	-	-	-	-	-	-	-	-	-	-	170.9	475,840
295	-	-	-	-	27.8	155,202	-	-	-	-	13.8	17,181	-	-
296	0.3	455	9.3	29,347	-	-	-	-	-	-	3.0	3,515	0.0	119
297	-	-	-	-	-	-	-	-	7.3	9,104	-	-	-	-
298	103.6	201,165	0.1	180	-	-	-	-	-	-	13.0	14,437	59.5	91,341
299	23.1	23,085	-	-	2.9	16,360	-	-	-	-	5.0	6,693	26.6	47,695
300	-	-	-	-	-	-	-	-	-	-	22.0	25,840	-	-
301	45.3	2,400	-	-	-	-	-	-	-	-	-	-	0.3	-
302	57.2	46,087	-	-	-	-	-	-	-	-	-	-	-	-
303	115.3	129,696	-	-	-	-	-	-	-	-	-	-	31.9	73,837
304	12.1	8,089	28.0	88,920	-	-	-	-	-	-	5.1	6,312	2.5	4,606
305	44.6	31,036	-	-	-	-	-	-	-	-	-	-	-	-
306	13.3	10,698	12.7	39,812	-	-	-	-	-	-	7.2	9,153	17.4	34,103
307	108.9	83,989	-	-	-	-	-	-	-	-	-	-	0.6	1,672
308	-	-	-	-	-	-	-	-	-	-	-	-	146.0	221,563
309	-	-	-	-	-	-	-	-	-	-	-	-	107.8	152,314
310	0.0	240	-	-	-	-	-	-	-	-	2.4	4,466	56.0	107,526
311	27.4	40,407	3.9	12,342	-	-	-	-	-	-	-	-	-	-
312	61.0	86,544	1.6	4,944	-	-	-	-	-	-	20.9	25,259	-	-
313	41.7	50,112	0.6	1,996	-	-	-	-	-	-	9.0	9,946	15.4	25,797
314	78.6	94,166	-	-	-	-	-	-	-	-	30.9	34,250	0.2	343
315	0.2	240	-	-	-	-	-	-	-	-	7.4	11	1.3	24
316	36.7	49,787	4.3	13,509	-	-	-	-	-	-	-	-	-	-
317	-	-	-	-	-	-	-	-	-	-	-	-	3.5	4,188
318	0.0	-	-	-	-	-	-	-	-	-	-	-	69.8	-
319	37.2	41,368	10.4	32,060	-	-	-	-	-	-	20.7	25,133	10.5	22,810
321	4.7	9,526	-	-	-	-	-	-	-	-	-	-	61.0	120,778
322	56.1	44,620	1.7	7,276	-	-	-	-	-	-	0.3	353	-	-
323	55.2	64,999	-	-	-	-	-	-	-	-	1.1	1,223	-	-
324	2.4	4,629	-	-	-	-	-	-	-	-	-	-	43.8	126,828
325	0.2	-	-	-	-	-	-	-	-	-	-	-	200.1	2
326	56.2	62,171	-	-	-	-	-	-	-	-	16.3	19,003	1.8	5,395
327	1.2	2,469	-	-	-	-	-	-	-	-	-	-	56.5	118,546
328	-	-	-	-	-	-	-	-	-	-	21.2	26,909	8.3	18,866
329	-	-	-	-	-	-	-	-	-	-	0.2	189	25.8	39,248
330	29.8	44,649	0.2	777	-	-	-	-	-	-	16.8	18,474	0.1	303
331	64.9	72,687	-	-	-	-	-	-	-	-	9.7	10,831	-	-
332	4.6	5,040	-	-	-	-	-	-	-	-	12.6	15,521	-	-
333	-	-	-	-	-	-	-	-	-	-	-	-	76.1	117,816

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
334	-	-	-	-	-	-	-	-	-	-	-	-	24.0	43,130
335	-	-	-	-	-	-	-	-	-	-	-	-	17.8	30,890
336	5.2	3,048	-	-	-	-	-	-	-	-	39.6	42,843	4.3	6,056
337	47.0	37,096	-	-	-	-	-	-	-	-	-	-	14.7	24,374
338	38.3	-	4.1	-	-	-	-	-	-	-	2.3	-	-	-
339	-	-	-	-	-	-	-	-	-	-	-	-	33.5	90,512
340	0.1	-	-	-	-	-	-	-	-	-	0.3	-	43.4	6
341	23.2	0	0.7	-	0.4	-	-	-	-	-	10.7	2,161	3.8	55
342	28.1	36,090	-	-	-	-	-	-	-	-	6.5	7,942	-	-
343	0.0	-	0.0	-	6.8	-	-	-	-	-	-	-	-	-
344	31.5	30,429	-	-	-	-	-	-	-	-	-	-	-	-
345	26.8	29,592	-	-	-	-	-	-	-	-	-	-	-	-
346	12.8	240	-	-	-	-	-	-	-	-	-	-	85.9	129,955
347	128.2	139,483	4.0	12,542	0.0	12	-	-	-	-	9.8	12,488	-	-
348	31.0	23,766	-	-	-	-	-	-	-	-	-	-	0.1	182
349	47.4	51,046	-	-	-	-	-	-	-	-	0.0	43	-	-
350	32.6	0	0.1	-	-	-	-	-	-	-	-	-	-	-
351	0.0	-	-	-	-	-	-	-	-	-	1.0	-	47.0	-
352	17.4	12,850	-	-	-	-	-	-	-	-	0.6	214	-	-
353	5.0	4,972	-	-	-	-	-	-	-	-	0.7	773	99.8	36,893
354	70.0	-	0.3	-	-	-	-	-	-	-	-	-	0.0	-
355	24.1	480	0.1	-	-	-	-	-	-	-	3.1	-	-	-
356	34.5	-	-	-	-	-	-	-	-	-	1.2	-	0.0	-
357	67.0	240	-	-	-	-	-	-	-	-	-	-	0.1	-
358	10.4	8,160	-	-	-	-	-	-	-	-	3.2	-	-	-
359	13.4	-	0.2	-	-	-	-	-	-	-	28.1	-	-	-
360	54.1	480	1.1	-	-	-	-	-	-	-	5.9	529	-	-
361	71.3	-	0.3	-	-	-	-	-	-	-	2.9	-	17.7	-
362	4.1	-	28.9	-	-	-	-	-	-	-	3.6	-	-	-
363	65.0	-	0.2	-	0.4	-	-	-	-	-	0.2	-	29.8	-
364	-	-	-	-	-	-	-	-	-	-	13.8	822	102.2	4,019
365	33.9	50,573	-	-	-	-	-	-	-	-	-	-	0.4	1,099
366	29.4	44,561	-	-	-	-	-	-	-	-	-	-	0.2	628
367	22.0	-	-	-	-	-	-	-	-	-	-	-	0.0	-
368	11.8	1,200	-	-	-	-	-	-	-	-	-	-	-	-
369	67.4	4,800	0.9	-	-	-	-	-	-	-	-	-	0.1	-
370	50.1	480	-	-	-	-	-	-	-	-	4.7	1,213	-	-
371	1.1	-	-	-	8.7	48,911	-	-	-	-	18.2	23,626	-	-
372	11.7	-	-	-	-	-	-	-	-	-	1.1	-	16.1	-
373	101.6	-	-	-	-	-	-	-	-	-	-	-	-	-
374	0.6	-	27.1	-	-	-	-	-	-	-	1.0	-	-	-
375	99.6	-	2.8	-	-	-	-	-	-	-	8.4	-	-	-
376	-	-	-	-	-	-	-	-	-	-	-	-	94.4	274,495
377	55.5	-	0.2	-	-	-	-	-	-	-	0.0	-	-	-
378	33.2	54,098	-	-	-	-	-	-	-	-	-	-	-	-
380	1.8	4,112	-	-	-	-	-	-	-	-	-	-	-	-
381	7.3	9,580	-	-	-	-	-	-	-	-	-	-	-	-
382	16.1	26,909	-	-	-	-	-	-	-	-	-	-	-	-
383	9.3	18,527	-	-	-	-	-	-	-	-	-	-	-	-
385	21.8	41,315	-	-	-	-	-	-	-	-	-	-	-	-
386	8.2	16,580	-	-	-	-	-	-	-	-	-	-	-	-
387	-	-	-	-	-	-	-	-	-	-	18.2	35,908	90.0	268,258

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
388	41.3	-	-	-	-	-	-	-	-	-	-	-	0.0	2
389	29.3	-	-	-	-	-	-	-	-	-	1.9	-	-	-
390	81.8	-	-	-	-	-	-	-	-	-	-	-	3.7	-
391	-	-	-	-	-	-	-	-	-	-	-	-	124.2	-
392	23.5	45,874	51.8	258,785	-	-	-	-	-	-	3.6	5,793	-	-
393	84.9	-	-	-	-	-	-	-	-	-	-	-	0.0	14
394	29.2	50,488	-	-	-	-	-	-	-	-	-	-	-	-
395	6.1	-	36.3	-	-	-	-	-	-	-	-	-	-	-
396	33.5	-	-	-	-	-	-	-	-	-	0.2	-	14.8	3,452
397	0.3	-	40.4	-	-	-	-	-	-	-	-	-	-	-
398	20.8	32,066	-	-	-	-	-	-	-	-	-	-	-	-
399	8.9	17,852	-	-	-	-	-	-	-	-	-	-	-	-
400	25.9	-	-	-	-	-	-	-	-	-	-	-	-	-
401	48.5	-	-	-	-	-	-	-	-	-	-	-	-	-
402	-	-	-	-	-	-	-	-	-	-	-	-	116.3	348,851
403	71.4	68,050	-	-	-	-	-	-	-	-	-	-	0.1	328
404	177.2	249,417	1.9	7,837	-	-	-	-	-	-	3.5	4,000	0.3	812
405	1.7	5,040	0.1	-	-	-	-	-	-	-	0.2	-	-	-
406	-	-	-	-	-	-	-	-	-	-	-	-	153.5	460,382
408	9.3	19,623	-	-	-	-	-	-	-	-	9.1	18,152	154.4	442,306
409	-	-	-	-	-	-	-	-	-	-	-	-	120.7	254,911
410	0.3	-	-	-	-	-	-	-	-	-	12.0	-	-	-
411	-	-	-	-	-	-	-	-	-	-	-	-	42.7	-
412	40.9	-	-	-	-	-	-	-	-	-	0.6	-	1.7	-
413	35.4	-	-	-	-	-	-	-	-	-	28.1	-	-	-
414	-	-	-	-	-	-	-	-	-	-	-	-	122.3	-
415	38.2	45,229	-	-	-	-	-	-	-	-	-	-	-	-
416	37.8	47,581	-	-	-	-	-	-	-	-	-	-	-	-
417	39.7	48,000	-	-	-	-	-	-	-	-	-	-	-	-
418	-	-	-	-	-	-	-	-	-	-	-	-	28.5	-
419	29.8	30,960	-	-	-	-	-	-	-	-	-	-	-	-
420	34.6	-	-	-	-	-	-	-	-	-	8.7	21	0.4	14
421	0.0	-	-	-	-	-	-	-	-	-	-	-	81.5	167,580
422	7.2	11,565	-	-	-	-	-	-	-	-	0.5	530	69.3	126,146
423	63.4	-	-	-	-	-	-	-	-	-	3.4	132	-	-
424	0.0	240	-	-	-	-	-	-	-	-	-	-	87.6	173,962
425	42.0	51,600	-	-	-	-	-	-	-	-	-	-	-	-
426	23.0	33,361	-	-	14.5	96,788	-	-	-	-	14.8	16,289	-	-
427	68.0	92,205	-	-	-	-	-	-	-	-	-	-	-	-
428	36.1	46,673	-	-	-	-	-	-	-	-	-	-	-	-
429	-	-	-	-	-	-	-	-	-	-	0.0	9	148.2	301,705
430	-	-	-	-	-	-	-	-	-	-	19.1	35,395	91.6	163,083
431	-	-	-	-	-	-	-	-	-	-	-	-	87.7	259,005
432	-	-	-	-	-	-	-	-	-	-	-	-	159.7	478,955
433	37.0	47,760	-	-	-	-	-	-	-	-	-	-	-	-
434	48.6	75,202	-	-	7.4	45,937	-	-	-	-	94.0	128,574	10.1	13,718
435	91.2	791	-	-	-	-	-	-	-	-	0.1	109	0.3	382
436	34.3	43,433	-	-	-	-	-	-	-	-	-	-	-	-
437	39.5	43,922	-	-	-	-	-	-	-	-	-	-	-	-
438	17.6	25,275	-	-	-	-	-	-	-	-	0.2	229	-	-
439	22.6	31,920	-	-	-	-	-	-	-	-	-	-	-	-
440	15.3	21,360	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
441	-	-	-	-	-	-	-	-	-	-	7.2	7,952	80.7	129,870
442	-	-	-	-	-	-	-	-	-	-	-	-	47.3	71,344
443	22.1	31,491	-	-	0.5	3,126	-	-	-	-	-	-	-	-
444	-	-	-	-	-	-	-	-	-	-	39.7	62,457	60.5	92,847
445	-	-	-	-	-	-	-	-	-	-	-	-	138.5	343,905
446	132.1	171,565	-	-	-	-	-	-	-	-	-	-	-	-
447	155.2	114,774	-	-	-	-	-	-	-	-	-	-	-	-
448	208.7	185,760	-	-	-	-	-	-	-	-	-	-	-	-
451	52.4	68,640	-	-	-	-	-	-	0.2	212	-	-	-	-
452	27.3	13,470	-	-	-	-	-	-	1.0	1,062	57.8	105,786	5.4	6,035
453	-	-	-	-	-	-	-	-	-	-	-	-	102.6	204,472
508	31.9	23,975	-	-	8.6	51,223	-	-	-	-	18.9	22,088	-	-
509	0.0	6,480	-	-	-	-	-	-	-	-	-	-	-	-
510	10.3	21,953	-	-	-	-	-	-	-	-	-	-	35.1	105,249
511	-	-	-	-	-	-	-	-	-	-	0.0	65	47.9	143,734
512	11.4	18,240	1.2	3,906	-	-	-	-	-	-	-	-	-	-
513	33.9	3,301	-	-	-	-	-	-	-	-	-	-	-	-
514	0.9	9	5.0	15,760	0.8	4,660	-	-	-	-	1.7	1,905	-	-
515	-	-	1.7	5,313	13.6	75,821	-	-	-	-	1.9	2,119	-	-
516	24.2	16,859	0.5	1,565	-	-	-	-	-	-	-	-	-	-
517	2.1	3,653	26.5	83,244	-	-	-	-	-	-	-	-	-	-
518	22.4	25,723	0.2	525	-	-	-	-	-	-	-	-	-	-
519	53.1	48,960	-	-	-	-	-	-	-	-	-	-	-	-
520	47.0	43,708	-	-	0.1	593	-	-	-	-	-	-	-	-
521	52.1	47,333	-	-	2.1	11,859	-	-	-	-	0.1	117	-	-
522	30.5	18,339	-	-	-	-	-	-	-	-	-	-	-	-
523	167.7	7,544	0.5	2,355	-	-	-	-	-	-	2.3	2,551	-	-
524	1.6	2,640	0.0	2	0.0	10	-	-	-	-	-	-	-	-
525	31.6	5,765	0.2	570	6.0	33,637	-	-	-	-	8.3	9,268	-	-
526	31.4	22,800	-	-	-	-	-	-	-	-	-	-	-	-
527	30.4	26,160	-	-	-	-	-	-	-	-	-	-	-	-
528	16.6	24,486	4.8	15,046	-	-	-	-	-	-	-	-	-	-
529	25.5	33,917	3.8	12,227	-	-	-	-	-	-	-	-	-	-
530	29.0	34,337	7.0	22,037	-	-	-	-	-	-	-	-	-	-
531	18.8	18,419	0.1	401	-	-	-	-	-	-	-	-	-	-
532	3.3	5,595	26.4	83,277	21.3	121,640	-	-	-	-	7.5	8,270	-	-
533	19.9	30,610	-	-	-	-	-	-	-	-	-	-	-	-
534	12.4	19,935	14.4	52,534	3.9	25,985	-	-	-	-	1.5	1,933	-	-
535	8.0	16,080	-	-	-	-	-	-	-	-	-	-	-	-
536	22.3	36,642	1.1	3,402	-	-	-	-	-	-	-	-	-	-
537	2.0	3,364	0.5	1,676	-	-	-	-	-	-	13.9	15,838	-	-
538	34.0	45,974	7.9	25,280	7.6	42,422	-	-	-	-	4.1	4,491	-	-
539	23.8	24,000	0.4	1,127	-	-	-	-	0.6	641	0.0	1	-	-
540	28.6	31,920	-	-	-	-	-	-	-	-	0.0	9	-	-
541	22.5	37,680	-	-	-	-	-	-	0.0	15	0.8	925	-	-
542	12.2	14,400	-	-	-	-	-	-	0.0	0	0.0	37	-	-
543	-	-	0.1	399	0.0	15	-	-	0.0	2	27.8	30,568	-	-
544	17.0	32,160	-	-	-	-	-	-	-	-	-	-	-	-
545	20.8	36,746	1.8	8,452	-	-	-	-	-	-	-	-	-	-
546	12.9	17,313	0.0	49	-	-	-	-	-	-	-	-	-	-
547	55.5	68,904	0.6	1,760	23.0	128,197	-	-	-	-	14.1	15,510	-	-
548	9.7	15,437	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
549	-	-	-	-	15.3	104,259	-	-	-	-	25.1	49,287	16.9	50,620
550	-	-	-	-	9.9	67,145	-	-	-	-	30.1	59,707	14.6	43,219
551	-	-	-	-	-	-	-	-	-	-	-	-	51.2	-
552	1.2	-	-	-	-	-	-	-	-	-	-	-	101.9	0
553	-	-	-	-	-	-	-	-	-	-	-	-	80.3	182,279
554	-	-	-	-	-	-	-	-	-	-	-	-	72.6	144,069
555	22.9	38,213	0.0	0	-	-	-	-	-	-	-	-	-	-
556	13.6	26,071	-	-	-	-	-	-	-	-	-	-	-	-
557	14.2	13,920	26.5	83,808	0.8	4,524	-	-	-	-	-	-	0.1	205
558	31.9	37,920	5.9	18,657	20.4	113,809	-	-	-	-	15.0	16,455	-	-
559	75.3	78,644	9.7	34,252	-	-	-	-	-	-	4.5	4,942	-	-
560	37.1	56,987	11.7	57,336	11.4	64,020	-	-	-	-	10.3	11,301	-	-
561	11.4	13,200	2.5	7,735	4.0	22,071	-	-	1.7	1,896	-	-	-	-
562	1.1	2,160	5.5	17,409	-	-	-	-	1.6	1,811	-	-	-	-
563	25.0	30,218	14.2	46,810	7.0	39,228	-	-	5.3	5,845	0.1	80	-	-
564	8.4	9,314	-	-	-	-	-	-	-	-	-	-	0.0	3
565	25.9	31,493	-	-	-	-	-	-	0.1	108	-	-	-	-
566	43.5	50,003	0.4	1,202	-	-	-	-	1.9	2,097	-	-	-	-
567	87.6	183,950	10.0	49,909	-	-	-	-	-	-	-	-	-	-
568	10.6	22,170	0.0	5	4.6	31,488	-	-	-	-	-	-	-	-
569	0.0	19	-	-	-	-	-	-	-	-	-	-	-	-
570	56.1	117,865	-	-	18.5	123,378	-	-	-	-	-	-	-	-
571	113.5	143,382	-	-	2.0	11,196	-	-	-	-	47.8	55,995	69.0	142,135
572	61.7	129,663	-	-	-	-	-	-	-	-	-	-	-	-
573	10.4	21,853	-	-	-	-	-	-	-	-	-	-	-	-
574	31.6	66,307	-	-	-	-	-	-	-	-	-	-	-	-
576	-	-	-	-	-	-	-	-	0.1	80	78.5	88,854	4.7	6,989
579	-	-	-	-	-	-	-	-	-	-	42.3	48,487	-	-
580	-	-	-	-	-	-	-	-	-	-	9.5	15,764	-	-
581	4.9	2,326	-	-	-	-	-	-	-	-	-	-	-	-
582	15.1	3,402	-	-	-	-	-	-	-	-	-	-	-	-
583	106.5	163,431	0.0	90	-	-	-	-	-	-	-	-	-	-
584	10.6	19,848	-	-	-	-	-	-	-	-	-	-	-	-
585	52.5	78,847	-	-	-	-	-	-	-	-	0.1	155	-	-
586	143.9	148,682	-	-	-	-	-	-	-	-	-	-	-	-
587	-	-	-	-	-	-	-	-	-	-	-	-	45.8	1,808
589	-	-	-	-	-	-	-	-	-	-	-	-	72.5	162,591
590	14.9	13,210	-	-	-	-	-	-	-	-	7.6	10,058	0.3	476
591	-	-	-	-	-	-	-	-	-	-	-	-	8.2	18,636
592	-	-	-	-	-	-	-	-	-	-	-	-	7.2	18,143
593	-	-	-	-	-	-	-	-	-	-	-	-	-	-
594	-	-	-	-	-	-	-	-	-	-	97.6	160,108	4.7	10,120
596	-	-	46.2	231,060	11.3	76,872	-	-	-	-	17.9	35,758	2.7	7,978
597	-	-	-	-	-	-	-	-	-	-	4.1	7,887	48.3	91,163
598	-	-	0.8	4,112	-	-	-	-	-	-	0.1	159	33.5	69,166
599	-	-	-	-	-	-	-	-	-	-	-	-	82.5	167,488
600	-	-	-	-	-	-	-	-	-	-	-	-	80.7	184,163
601	-	-	-	-	-	-	-	-	-	-	-	-	90.9	197,505
602	13.2	30,217	-	-	-	-	-	-	-	-	2.5	4,996	11.4	31,989
603	72.8	98,789	0.3	842	-	-	-	-	-	-	24.6	35,396	0.2	518
604	-	-	-	-	-	-	-	-	-	-	4.5	8,867	0.4	916
605	29.9	28,171	7.7	24,316	-	-	-	-	-	-	34.3	45,138	11.6	22,253

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
606	19.1	39,289	0.0	8	-	-	-	-	-	-	4.4	6,907	0.1	198
607	-	-	-	-	-	-	-	-	-	-	0.4	-	49.9	-
608	-	-	-	-	-	-	-	-	-	-	10.0	-	0.8	-
609	-	-	-	-	-	-	-	-	-	-	-	-	107.9	247,206
610	-	-	-	-	-	-	-	-	-	-	-	-	50.7	129,684
611	96.6	192,802	-	-	-	-	-	-	-	-	0.9	1,582	0.3	679
612	-	-	-	-	-	-	-	-	-	-	0.0	7	-	-
617	-	-	-	-	-	-	-	-	-	-	-	-	65.8	197,406
620	56.2	52,805	2.9	9,264	-	-	-	-	-	-	-	-	-	-
621	87.6	76,560	-	-	-	-	-	-	-	-	-	-	-	-
623	1.1	1,936	14.1	44,561	-	-	-	-	-	-	23.0	27,508	0.7	916
624	0.6	1,338	12.6	62,290	-	-	-	-	-	-	2.9	5,195	65.6	195,484
625	0.7	751	-	-	-	-	-	-	-	-	4.6	5,945	128.4	287,763
626	133.5	145,550	-	-	-	-	-	-	-	-	52.3	75,563	4.1	9,469
627	24.3	35,834	-	-	-	-	-	-	-	-	9.8	12,140	0.5	1,410
628	0.1	677	-	-	-	-	-	-	-	-	20.4	31,548	0.0	123
629	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
630	24.4	-	0.3	-	-	-	-	-	-	-	9.2	-	-	-
631	12.0	6,504	-	-	-	-	-	-	-	-	0.7	-	-	-
632	7.6	6,037	-	-	-	-	-	-	-	-	0.0	-	-	-
633	35.9	44,468	-	-	-	-	-	-	-	-	-	-	8.2	11,393
634	16.9	1,200	-	-	-	-	-	-	-	-	0.9	-	-	-
635	1.3	1,680	-	-	8.1	54,801	-	-	-	-	7.3	836	-	-
636	9.4	2,000	-	-	-	-	-	-	-	-	-	-	-	-
637	5.3	3,189	-	-	-	-	-	-	-	-	-	-	-	-
638	86.8	104,628	-	-	-	-	-	-	-	-	-	-	-	-
639	100.0	100,347	-	-	-	-	-	-	-	-	-	-	-	-
640	0.7	1,531	-	-	-	-	-	-	-	-	-	-	82.2	868
641	-	-	-	-	-	-	-	-	-	-	-	-	4.5	2,619
642	-	-	-	-	-	-	-	-	-	-	-	-	42.4	249
643	15.3	2,963	-	-	-	-	-	-	-	-	-	-	12.7	12,077
644	0.0	-	-	-	-	-	-	-	-	-	-	-	30.8	13,949
646	-	-	-	-	-	-	-	-	-	-	-	-	215.4	325,405
647	-	-	-	-	-	-	-	-	-	-	-	-	21.7	50,308
650	-	-	1.0	3,180	-	-	-	-	-	-	-	-	48.9	110,911
652	0.8	1,751	-	-	-	-	-	-	-	-	-	-	30.1	68,889
653	2.0	3,300	15.6	48,961	-	-	-	-	-	-	-	-	4.6	6,373
654	-	-	0.0	49	-	-	-	-	-	-	1.2	1,298	68.6	133,550
655	15.2	31,863	-	-	6.7	45,418	-	-	3.9	9,414	-	-	-	-
656	0.0	240	-	-	-	-	-	-	-	-	0.0	0	56.1	135,611
659	23.5	26,859	9.2	28,871	-	-	-	-	-	-	-	-	7.9	16,952
660	8.0	16,856	10.8	54,234	-	-	-	-	-	-	48.9	97,878	-	-
661	5.5	11,446	3.7	18,716	-	-	-	-	4.2	10,164	-	-	-	-
662	6.2	13,056	12.9	64,546	-	-	-	-	-	-	21.3	42,547	-	-
663	-	-	-	-	-	-	-	-	-	-	11.6	23,245	-	-
664	-	-	-	-	-	-	-	-	2.1	3,769	2.1	2,436	-	-
666	-	-	0.0	1	-	-	-	-	-	-	46.0	92,067	-	-
667	5.5	11,618	-	-	3.9	26,501	-	-	3.4	8,217	52.8	105,688	-	-
670	-	-	-	-	-	-	-	-	-	-	32.0	39,196	16.9	33,108
671	15.3	14,984	-	-	-	-	-	-	-	-	15.7	20,286	28.3	54,973
673	4.5	6,624	11.8	37,162	-	-	-	-	-	-	-	-	10.5	26,083
675	-	-	-	-	-	-	-	-	-	-	4.5	5,256	0.3	912

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
678	-	-	-	-	-	-	-	-	-	-	-	-	29.8	89,230
679	-	-	-	-	-	-	-	-	-	-	-	-	14.7	-
681	-	-	-	-	-	-	-	-	-	-	0.9	1,172	190.7	469,416
683	0.7	-	-	-	-	-	-	-	-	-	-	-	7.8	20,696
686	0.7	-	-	-	-	-	-	-	-	-	0.3	-	26.8	-
689	21.9	46,015	-	-	-	-	-	-	0.0	14	2.5	5,039	0.1	280
690	-	-	12.8	64,165	-	-	-	-	25.3	60,740	3.9	7,771	-	-
692	72.0	75,756	-	-	-	-	-	-	-	-	7.3	8,407	-	-
693	60.6	68,160	-	-	0.0	177	-	-	-	-	-	-	-	-
694	124.4	133,892	4.6	14,446	-	-	-	-	-	-	-	-	-	-
695	0.9	1,798	-	-	-	-	-	-	-	-	-	-	57.2	126,507
697	-	-	-	-	-	-	-	-	-	-	0.2	262	61.3	154,738
698	-	-	-	-	-	-	-	-	-	-	0.0	29	128.4	351,740
699	-	-	-	-	-	-	-	-	-	-	-	-	72.5	114,506
700	45.9	96,291	-	-	-	-	-	-	-	-	-	-	27.4	79,394
701	-	-	-	-	-	-	-	-	-	-	-	-	28.2	40,213
702	0.7	1,519	-	-	-	-	-	-	-	-	0.0	38	28.4	80,725
703	8.3	17,417	7.6	37,832	-	-	-	-	10.4	24,930	-	-	-	-
704	-	-	28.4	142,226	-	-	-	-	2.0	4,920	6.9	13,727	1.9	2,625
705	-	-	-	-	-	-	-	-	-	-	-	-	38.3	92,724
706	-	-	-	-	-	-	-	-	35.3	84,635	-	-	75.8	201,826
707	-	-	-	-	-	-	-	-	-	-	0.0	94	41.6	124,850
708	36.0	77,258	-	-	-	-	-	-	-	-	-	-	1.8	5,385
709	5.2	10,838	0.1	749	0.5	3,696	-	-	-	-	12.8	25,668	-	-
710	26.7	56,083	-	-	27.2	185,129	-	-	-	-	1.8	3,547	-	-
714	11.0	11,228	-	-	-	-	-	-	-	-	-	-	0.1	179
715	0.6	-	-	-	-	-	-	-	-	-	26.7	-	1.2	-
717	-	-	-	-	-	-	-	-	-	-	13.4	16,689	-	-
719	-	-	-	-	-	-	-	-	-	-	2.3	3,294	-	-
720	-	-	-	-	0.6	3,198	-	-	-	-	4.6	8,232	0.5	1,248
721	-	-	-	-	-	-	-	-	-	-	10.6	12,058	-	-
722	-	-	-	-	12.3	71,027	-	-	6.0	11,728	5.3	9,142	1.8	5,178
723	50.6	44,050	-	-	-	-	-	-	-	-	-	-	-	-
724	30.5	64,039	-	-	-	-	-	-	-	-	-	-	0.1	208
725	35.5	74,588	-	-	-	-	-	-	-	-	-	-	0.1	249
726	42.0	17,110	9.1	32,537	-	-	-	-	-	-	2.9	4,243	-	-
727	0.3	697	0.4	2,109	-	-	-	-	-	-	-	-	-	-
728	0.0	481	6.8	33,749	18.6	126,164	-	-	-	-	14.7	29,445	-	-
729	-	-	9.8	48,908	-	-	-	-	-	-	-	-	-	-
730	54.7	71,058	-	-	11.7	79,379	-	-	-	-	17.9	32,651	-	-
731	0.0	45	-	-	-	-	-	-	-	-	60.0	119,956	1.2	3,669
732	-	-	-	-	-	-	-	-	-	-	27.5	55,056	-	-
733	22.8	-	-	-	-	-	-	-	-	-	4.0	-	0.8	-
734	48.1	53,244	-	-	-	-	-	-	-	-	-	-	-	-
735	108.3	137,618	-	-	-	-	-	-	-	-	-	-	-	-
736	113.6	124,630	-	-	-	-	-	-	-	-	-	-	-	-
738	25.3	24,444	-	-	-	-	-	-	-	-	-	-	-	-
739	-	-	-	-	-	-	-	-	-	-	-	-	-	-
740	1.6	243	-	-	-	-	-	-	-	-	-	-	-	-
741	-	-	-	-	-	-	-	-	-	-	-	-	-	-
742	-	-	-	-	-	-	-	-	-	-	-	-	-	-
743	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
744	53.8	112,928	-	-	-	-	-	-	-	-	-	-	-	-
745	107.0	224,666	-	-	-	-	-	-	-	-	-	-	-	-
747	31.4	31,087	-	-	-	-	-	-	-	-	-	-	-	-
748	-	-	-	-	-	-	-	-	-	-	-	-	-	-
749	144.9	304,281	-	-	-	-	-	-	-	-	-	-	-	-
750	103.0	216,218	-	-	-	-	-	-	-	-	-	-	-	-
751	64.9	89,447	-	-	-	-	-	-	-	-	-	-	-	-
752	57.1	120,060	0.0	15	-	-	-	-	-	-	25.3	44,034	-	-
753	26.5	55,674	42.5	212,470	1.0	6,689	-	-	-	-	-	-	-	-
754	39.1	74,171	0.0	23	-	-	-	-	-	-	-	-	-	-
755	48.4	101,585	-	-	-	-	-	-	-	-	-	-	-	-
756	-	-	-	-	-	-	-	-	-	-	-	-	94.8	284,366
757	61.4	128,966	-	-	-	-	-	-	-	-	-	-	-	-
758	86.2	180,947	-	-	-	-	-	-	-	-	-	-	-	-
759	46.2	96,979	31.1	155,745	26.2	177,945	-	-	-	-	-	-	-	-
760	41.1	86,353	-	-	-	-	-	-	-	-	-	-	-	-
761	49.6	104,086	21.7	108,483	-	-	-	-	-	-	-	-	-	-
762	-	-	-	-	-	-	-	-	-	-	-	-	131.0	392,903
763	-	-	-	-	-	-	-	-	-	-	23.6	47,229	132.0	375,392
764	-	-	-	-	-	-	-	-	-	-	-	-	99.8	299,474
765	-	-	-	-	-	-	-	-	-	-	-	-	184.0	551,679
766	-	-	-	-	-	-	-	-	-	-	-	-	106.4	319,116
767	-	-	-	-	-	-	-	-	-	-	-	-	80.0	239,953
768	-	-	-	-	-	-	-	-	-	-	-	-	159.5	478,544
769	-	-	-	-	-	-	-	-	-	-	0.0	2	114.6	343,718
770	0.0	89	-	-	-	-	-	-	-	-	-	-	119.8	359,357
771	0.0	88	-	-	-	-	-	-	-	-	-	-	98.9	296,774
772	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-
773	-	-	-	-	-	-	-	-	-	-	-	-	-	-
774	0.0	9	-	-	-	-	-	-	-	-	-	-	-	-
775	-	-	-	-	-	-	-	-	-	-	-	-	101.4	304,159
776	38.4	80,619	-	-	28.3	192,310	-	-	-	-	-	-	-	-
777	-	-	0.0	66	-	-	-	-	0.2	519	47.1	94,131	-	-
778	60.9	127,788	-	-	-	-	-	-	-	-	84.6	169,137	-	-
779	84.7	177,878	-	-	-	-	-	-	-	-	-	-	-	-
780	78.7	165,186	-	-	-	-	-	-	-	-	-	-	-	-
781	62.4	130,998	-	-	-	-	-	-	-	-	-	-	-	-
782	57.7	121,254	0.1	363	-	-	-	-	-	-	-	-	-	-
783	43.4	91,042	-	-	-	-	-	-	-	-	-	-	-	-
784	40.7	85,502	0.0	2	-	-	-	-	-	-	-	-	-	-
785	42.5	89,198	-	-	-	-	6.7	14,065	-	-	-	-	-	-
786	41.0	86,042	7.6	38,063	-	-	3.9	8,230	-	-	-	-	-	-
787	31.7	66,564	0.1	282	-	-	4.3	9,043	-	-	-	-	-	-
788	105.7	222,073	-	-	-	-	-	-	-	-	-	-	-	-
789	-	-	77.6	388,053	-	-	-	-	-	-	-	-	-	-
790	120.6	253,322	-	-	-	-	-	-	-	-	-	-	-	-
791	67.5	141,705	-	-	-	-	-	-	-	-	-	-	-	-
792	72.7	152,753	66.9	334,532	-	-	-	-	-	-	-	-	-	-
793	36.1	75,800	-	-	35.4	240,750	-	-	-	-	0.3	653	-	-
794	17.4	36,521	-	-	25.1	170,993	-	-	-	-	-	-	-	-
795	71.8	150,700	-	-	-	-	-	-	-	-	-	-	-	-
796	68.4	143,684	8.8	44,214	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
797	104.1	218,529	-	-	-	-	-	-	-	-	-	-	-	-
798	-	-	33.4	167,185	20.9	141,816	-	-	-	-	15.0	29,970	-	-
799	99.5	208,830	0.0	104	0.2	1,442	-	-	-	-	-	-	-	-
800	76.9	161,570	-	-	-	-	-	-	-	-	-	-	-	-
801	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802	-	-	-	-	-	-	-	-	-	-	-	-	-	-
803	-	-	-	-	-	-	-	-	-	-	-	-	-	-
804	0.0	2	-	-	-	-	-	-	-	-	-	-	-	-
805	-	-	16.2	80,968	34.8	236,561	-	-	-	-	-	-	-	-
806	0.1	174	-	-	-	-	-	-	-	-	0.8	1,506	-	-
807	0.3	583	-	-	-	-	-	-	-	-	-	-	-	-
808	-	-	-	-	-	-	-	-	-	-	-	-	-	-
809	0.0	0	-	-	-	-	-	-	-	-	-	-	0.2	573
810	-	-	-	-	-	-	-	-	-	-	-	-	-	-
811	-	-	-	-	-	-	-	-	-	-	-	-	-	-
812	-	-	-	-	-	-	-	-	-	-	-	-	-	-
813	-	-	-	-	-	-	-	-	-	-	-	-	-	-
814	-	-	-	-	-	-	-	-	-	-	-	-	-	-
815	-	-	-	-	-	-	-	-	-	-	-	-	-	-
816	-	-	-	-	-	-	-	-	-	-	-	-	-	-
817	-	-	-	-	-	-	-	-	-	-	-	-	-	-
818	-	-	-	-	-	-	-	-	-	-	-	-	-	-
819	-	-	-	-	-	-	-	-	-	-	-	-	-	-
820	-	-	-	-	-	-	-	-	-	-	-	-	-	-
821	-	-	-	-	-	-	-	-	-	-	-	-	-	-
822	37.8	79,303	-	-	-	-	-	-	-	-	-	-	-	-
823	35.2	73,982	43.4	217,130	-	-	-	-	-	-	-	-	-	-
824	-	-	-	-	-	-	-	-	-	-	83.4	166,762	-	-
825	-	-	-	-	-	-	-	-	-	-	-	-	-	-
826	-	-	-	-	-	-	-	-	-	-	-	-	-	-
827	-	-	-	-	-	-	-	-	-	-	-	-	-	-
828	-	-	-	-	-	-	-	-	-	-	-	-	84.4	253,176
829	-	-	-	-	-	-	-	-	-	-	-	-	76.9	230,554
830	-	-	-	-	-	-	-	-	-	-	-	-	56.1	168,337
831	58.7	2,640	-	-	-	-	-	-	-	-	-	-	12.5	33,624
832	-	-	-	-	24.5	166,669	-	-	-	-	79.4	158,852	4.9	14,733
833	157.0	329,676	-	-	-	-	-	-	-	-	-	-	-	-
834	66.5	139,574	-	-	-	-	-	-	-	-	-	-	-	-
835	-	-	148.4	741,852	16.9	114,685	-	-	-	-	-	-	-	-
836	50.2	105,362	-	-	-	-	-	-	-	-	-	-	0.0	0
837	10.6	1,200	-	-	-	-	-	-	-	-	-	-	40.7	122,062
838	-	-	178.8	894,243	-	-	-	-	-	-	25.0	50,019	0.2	673
839	7.9	16,547	152.0	759,825	-	-	-	-	11.6	27,734	-	-	-	-
840	125.2	262,990	-	-	-	-	-	-	-	-	-	-	-	-
841	77.6	162,959	-	-	-	-	-	-	-	-	-	-	-	-
842	93.7	196,781	-	-	-	-	-	-	-	-	-	-	-	-
843	-	-	46.1	230,664	-	-	-	-	-	-	-	-	-	-
844	-	-	-	-	-	-	-	-	-	-	-	-	124.7	374,189
845	-	-	-	-	-	-	-	-	-	-	-	-	96.6	289,713
846	-	-	-	-	-	-	-	-	-	-	-	-	66.2	198,465
847	-	-	-	-	-	-	-	-	-	-	-	-	73.7	221,237
848	-	-	-	-	-	-	-	-	-	-	-	-	106.2	318,732

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
849	-	-	-	-	-	-	-	-	-	-	-	-	70.0	210,097
850	-	-	-	-	-	-	-	-	-	-	-	-	108.2	324,744
851	-	-	-	-	-	-	-	-	-	-	-	-	85.7	257,129
852	-	-	-	-	-	-	-	-	-	-	-	-	50.1	150,315
853	-	-	-	-	-	-	-	-	-	-	-	-	78.7	235,963
854	-	-	-	-	-	-	-	-	-	-	-	-	100.4	301,186
855	-	-	-	-	-	-	-	-	-	-	-	-	117.1	351,385
856	-	-	-	-	-	-	-	-	-	-	-	-	63.9	191,836
857	-	-	-	-	-	-	-	-	-	-	-	-	149.0	446,972
858	-	-	-	-	-	-	-	-	-	-	-	-	79.9	239,687
859	-	-	-	-	-	-	-	-	-	-	-	-	60.6	181,848
860	-	-	-	-	-	-	-	-	-	-	-	-	120.3	360,883
861	-	-	-	-	-	-	-	-	-	-	-	-	152.6	457,684
862	-	-	-	-	-	-	-	-	-	-	71.9	129,145	56.2	168,745
863	-	-	-	-	-	-	-	-	-	-	-	-	143.0	428,935
864	-	-	-	-	-	-	-	-	-	-	-	-	77.9	233,700
865	-	-	-	-	-	-	-	-	0.0	1	-	-	58.9	176,600
866	74.6	156,737	-	-	-	-	-	-	-	-	-	-	36.6	109,719
867	-	-	-	-	-	-	-	-	-	-	-	-	66.8	200,519
868	-	-	-	-	-	-	-	-	-	-	-	-	106.8	320,463
869	-	-	-	-	-	-	-	-	2.2	2,429	5.7	6,246	176.7	521,435
870	-	-	-	-	-	-	-	-	13.5	31,202	68.4	131,828	0.0	44
871	-	-	-	-	-	-	-	-	-	-	-	-	82.9	248,746
872	-	-	-	-	-	-	-	-	-	-	-	-	85.0	255,138
873	-	-	-	-	-	-	-	-	-	-	-	-	34.4	103,346
874	-	-	-	-	-	-	-	-	62.5	149,976	-	-	1.2	3,599
875	-	-	-	-	-	-	-	-	-	-	-	-	-	-
876	76.8	161,316	-	-	-	-	-	-	-	-	-	-	2.7	8,027
877	-	-	-	-	-	-	-	-	-	-	-	-	-	-
878	-	-	-	-	-	-	-	-	-	-	-	-	-	-
879	-	-	-	-	-	-	-	-	-	-	-	-	-	-
880	-	-	-	-	-	-	-	-	-	-	-	-	-	-
881	-	-	-	-	-	-	-	-	67.8	162,770	-	-	-	-
882	-	-	-	-	-	-	-	-	31.8	76,308	-	-	-	-
883	-	-	-	-	-	-	-	-	-	-	-	-	-	-
884	-	-	-	-	-	-	-	-	-	-	-	-	-	-
885	-	-	-	-	-	-	-	-	-	-	-	-	-	-
886	-	-	-	-	-	-	-	-	-	-	-	-	-	-
887	-	-	-	-	-	-	-	-	-	-	-	-	-	-
888	-	-	-	-	-	-	-	-	-	-	-	-	-	-
889	-	-	-	-	-	-	-	-	-	-	-	-	-	-
890	-	-	-	-	-	-	-	-	-	-	-	-	-	-
891	-	-	-	-	-	-	-	-	-	-	-	-	-	-
892	-	-	-	-	-	-	-	-	-	-	-	-	-	-
893	-	-	-	-	-	-	-	-	-	-	-	-	-	-
894	65.0	128,433	-	-	-	-	-	-	-	-	-	-	-	-
895	-	-	-	-	-	-	-	-	-	-	-	-	-	-
896	3.0	6,271	-	-	-	-	-	-	-	-	0.0	10	34.7	94,994
897	-	-	-	-	-	-	-	-	-	-	50.1	92,483	23.9	66,007
898	43.1	89,534	-	-	-	-	-	-	-	-	-	-	-	-
899	57.3	95,363	-	-	-	-	-	-	-	-	4.8	9,507	-	-
900	36.3	74,131	-	-	-	-	-	-	-	-	7.7	15,486	17.0	39,401

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
901	36.2	75,918	-	-	-	-	-	-	-	-	-	-	-	-
902	14.3	29,965	-	-	-	-	-	-	-	-	-	-	-	-
903	-	-	-	-	-	-	-	-	-	-	-	-	79.3	237,834
904	-	-	-	-	-	-	-	-	93.2	216,259	44.7	83,803	-	-
905	-	-	-	-	-	-	-	-	104.8	250,466	-	-	-	-
906	-	-	-	-	-	-	-	-	-	-	-	-	-	-
907	-	-	-	-	-	-	-	-	-	-	-	-	0.0	1
908	-	-	-	-	-	-	-	-	-	-	46.4	73,838	19.1	39,997
909	-	-	-	-	-	-	-	-	-	-	-	-	44.7	94,594
910	-	-	-	-	-	-	-	-	-	-	-	-	-	-
911	-	-	-	-	-	-	-	-	-	-	-	-	-	-
912	-	-	-	-	-	-	-	-	-	-	-	-	-	-
913	-	-	-	-	-	-	-	-	-	-	-	-	-	-
914	59.8	125,679	14.5	72,254	-	-	-	-	-	-	-	-	0.8	2,386
915	-	-	-	-	-	-	-	-	-	-	-	-	-	-
916	-	-	-	-	-	-	-	-	-	-	-	-	47.4	136,781
917	76.6	160,838	-	-	-	-	-	-	-	-	-	-	1.7	5,007
918	-	-	-	-	-	-	-	-	-	-	-	-	61.0	90,031
919	-	-	-	-	-	-	-	-	-	-	-	-	32.8	65,563
920	76.1	159,729	-	-	-	-	-	-	-	-	-	-	1.9	5,707
921	-	-	-	-	-	-	-	-	-	-	-	-	-	-
922	74.3	153,911	-	-	-	-	-	-	-	-	-	-	-	-
923	84.6	177,668	-	-	-	-	-	-	-	-	-	-	1.3	3,948
924	55.8	117,096	-	-	-	-	-	-	44.4	106,447	-	-	-	-
925	-	-	-	-	-	-	-	-	-	-	-	-	130.4	371,761
926	-	-	-	-	-	-	-	-	-	-	-	-	197.5	588,448
927	-	-	-	-	-	-	-	-	-	-	-	-	214.9	644,611
928	-	-	-	-	-	-	-	-	-	-	-	-	64.6	-
929	-	-	-	-	-	-	-	-	-	-	-	-	-	-
930	-	-	-	-	-	-	-	-	-	-	-	-	-	-
931	-	-	-	-	-	-	-	-	-	-	-	-	-	-
932	-	-	-	-	-	-	30.8	64,698	-	-	-	-	-	-
933	-	-	-	-	-	-	84.2	176,850	-	-	-	-	-	-
934	-	-	-	-	-	-	0.6	1,187	-	-	-	-	-	-
935	-	-	-	-	-	-	-	-	-	-	-	-	-	-
936	-	-	-	-	-	-	-	-	-	-	-	-	-	-
937	-	-	-	-	-	-	-	-	-	-	-	-	-	-
938	-	-	-	-	-	-	47.6	99,861	-	-	-	-	-	-
939	-	-	-	-	-	-	-	-	-	-	-	-	-	-
940	-	-	-	-	-	-	-	-	-	-	-	-	-	-
941	-	-	-	-	-	-	92.4	193,983	-	-	-	-	-	-
942	3.8	190	-	-	-	-	132.2	277,719	-	-	-	-	-	-
943	2.0	19	-	-	-	-	97.6	204,785	-	-	-	-	-	-
944	-	-	-	-	-	-	63.9	134,126	-	-	-	-	-	-
945	-	-	-	-	-	-	-	-	-	-	-	-	-	-
946	-	-	-	-	-	-	0.0	2	-	-	-	-	-	-
947	-	-	-	-	-	-	98.1	205,968	-	-	-	-	-	-
953	39.8	83,504	-	-	-	-	-	-	-	-	-	-	-	-
954	-	-	-	-	-	-	-	-	-	-	-	-	49.9	149,762
955	0.1	110	11.3	54,153	0.1	923	-	-	-	-	1.1	2,149	-	-
956	-	-	-	-	-	-	-	-	-	-	-	-	9.2	27,600
957	-	-	-	-	-	-	-	-	1.6	3,771	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
958	-	-	-	-	-	-	-	-	-	-	2.3	4,663	-	-
959	-	-	-	-	-	-	-	-	0.0	-	3.7	-	-	-
960	-	-	-	-	-	-	-	-	-	-	-	-	4.2	-
961	-	-	-	-	-	-	-	-	-	-	8.2	-	14.6	-
962	-	-	-	-	-	-	-	-	-	-	0.0	8	58.7	82,471
963	0.3	530	-	-	-	-	-	-	-	-	0.3	488	0.8	2,021
964	-	-	-	-	-	-	-	-	-	-	-	-	2.0	5,144
965	-	-	-	-	-	-	-	-	-	-	-	-	11.1	-
966	-	-	-	-	-	-	-	-	-	-	-	-	10.4	-
967	-	-	-	-	-	-	-	-	-	-	-	-	9.4	-
968	0.4	-	0.2	-	-	-	-	-	-	-	-	-	40.2	-
969	-	-	-	-	-	-	-	-	-	-	-	-	16.0	-
970	-	-	-	-	-	-	-	-	-	-	-	-	11.2	26,957
971	0.7	-	-	-	-	-	-	-	-	-	0.9	-	15.5	-
972	0.9	-	-	-	-	-	-	-	-	-	-	-	27.7	-
973	-	-	-	-	-	-	-	-	-	-	-	-	12.8	-
974	-	-	-	-	-	-	-	-	-	-	-	-	9.0	-
975	-	-	-	-	-	-	-	-	-	-	-	-	42.9	-
976	-	-	-	-	-	-	-	-	-	-	0.1	223	0.0	16
977	-	-	-	-	-	-	-	-	-	-	-	-	3.1	7,376
978	-	-	-	-	-	-	-	-	-	-	-	-	27.8	-
979	-	-	-	-	-	-	-	-	-	-	-	-	137.1	411,267
980	-	-	-	-	-	-	-	-	-	-	52.4	87,059	22.0	54,661
981	-	-	-	-	-	-	-	-	-	-	0.0	-	-	-
982	-	-	-	-	-	-	-	-	-	-	21.6	3,975	90.4	24,587
983	29.4	37,484	-	-	9.6	53,623	-	-	-	-	94.1	110,586	42.0	90,415
984	89.2	187,420	-	-	-	-	-	-	-	-	-	-	-	-
985	109.3	229,613	-	-	4.8	32,356	-	-	-	-	7.8	15,694	-	-
986	-	-	-	-	-	-	-	-	-	-	-	-	-	-
987	-	-	-	-	-	-	-	-	-	-	-	-	-	-
988	-	-	-	-	-	-	-	-	-	-	-	-	-	-
989	0.5	1,078	-	-	-	-	-	-	-	-	-	-	-	-
990	-	-	-	-	-	-	-	-	-	-	-	-	-	-
991	-	-	-	-	-	-	-	-	-	-	-	-	-	-
992	-	-	-	-	-	-	-	-	-	-	-	-	-	-
993	0.7	1,453	-	-	-	-	-	-	-	-	-	-	-	-
994	-	-	-	-	-	-	-	-	-	-	-	-	-	-
995	-	-	-	-	-	-	-	-	-	-	-	-	2.1	2,901
996	39.3	82,435	28.3	141,507	-	-	-	-	-	-	-	-	-	-
997	-	-	-	-	-	-	-	-	-	-	-	-	0.0	59
998	-	-	-	-	-	-	-	-	-	-	-	-	0.0	20
999	-	-	-	-	-	-	-	-	-	-	-	-	61.2	183,696
1000	-	-	-	-	-	-	-	-	-	-	-	-	60.6	181,671
1001	-	-	-	-	-	-	-	-	26.2	62,989	79.1	158,110	0.7	2,241
1002	-	-	-	-	-	-	-	-	-	-	-	-	32.3	96,848
1003	-	-	-	-	-	-	-	-	-	-	-	-	84.3	252,755
1004	-	-	-	-	-	-	-	-	-	-	-	-	19.4	58,157
1005	-	-	-	-	-	-	-	-	-	-	1.7	3,403	78.8	236,334
1006	-	-	-	-	-	-	-	-	-	-	0.0	9	1.1	1,658
1007	1.3	2,721	-	-	-	-	-	-	-	-	-	-	-	-
1008	1.4	2,863	-	-	-	-	-	-	-	-	-	-	-	-
1009	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1010	82.0	172,204	-	-	-	-	-	-	-	-	-	-	-	-
1011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1012	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1013	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1014	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1015	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1016	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1017	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1018	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1021	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1022	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1023	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1024	-	-	-	-	-	-	-	-	-	-	-	-	0.0	-
1025	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1026	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1027	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0
1028	-	-	-	-	-	-	-	-	-	-	-	-	130.9	392,773
1029	-	-	-	-	-	-	-	-	-	-	-	-	143.6	430,817
1030	-	-	-	-	-	-	-	-	-	-	-	-	207.7	623,200
1031	-	-	-	-	-	-	-	-	-	-	-	-	184.7	554,208
1032	-	-	-	-	-	-	-	-	-	-	-	-	60.1	180,355
1033	-	-	-	-	-	-	-	-	-	-	-	-	56.5	169,497
1034	-	-	-	-	-	-	-	-	-	-	-	-	80.3	240,944
1035	1.2	641	-	-	-	-	-	-	-	-	-	-	107.8	237,556
1036	70.1	147,299	-	-	-	-	-	-	-	-	-	-	-	-
1037	71.5	150,222	-	-	-	-	-	-	-	-	-	-	-	-
1038	110.4	231,928	-	-	-	-	-	-	-	-	-	-	-	-
1039	73.2	153,658	-	-	-	-	-	-	-	-	-	-	-	-
1040	102.1	214,311	0.2	1,206	-	-	-	-	-	-	-	-	-	-
1041	3.8	7,895	60.2	301,046	-	-	-	-	-	-	-	-	-	-
1042	-	-	-	-	-	-	-	-	-	-	-	-	87.7	262,961
1043	57.6	2,400	-	-	-	-	-	-	46.8	112,414	-	-	5.9	14,488
1044	-	-	-	-	-	-	-	-	17.8	42,689	-	-	50.1	150,248
1045	51.7	108,613	-	-	-	-	-	-	-	-	-	-	-	-
1046	7.8	16,474	73.0	365,039	-	-	-	-	-	-	-	-	-	-
1047	-	-	33.4	167,134	36.0	244,999	-	-	-	-	-	-	-	-
1048	93.3	195,863	-	-	-	-	-	-	-	-	-	-	-	-
1049	-	-	-	-	-	-	-	-	-	-	-	-	48.9	-
1050	30.3	61,431	-	-	-	-	-	-	-	-	-	-	55.1	165,032
1051	-	-	-	-	-	-	-	-	-	-	-	-	82.1	58,882
1052	-	-	-	-	-	-	-	-	-	-	-	-	57.7	158,167
1053	-	-	-	-	-	-	-	-	-	-	-	-	86.8	260,498
1054	-	-	-	-	-	-	-	-	-	-	-	-	27.0	80,898
1055	-	-	-	-	-	-	-	-	-	-	-	-	0.0	1
1056	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-
1057	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-
1058	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1059	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1060	-	-	-	-	-	-	-	-	-	-	23.6	26,305	37.8	113,349
1061	0.7	1,407	-	-	-	-	-	-	-	-	5.8	6,612	49.8	85,335

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1062	57.4	120,612	-	-	-	-	-	-	1.1	2,567	0.0	0	0.4	533
1063	42.3	88,997	-	-	0.2	1,215	-	-	-	-	-	-	-	-
1064	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1068	-	-	-	-	-	-	-	-	-	-	40.4	76,393	-	-
1069	23.2	48,653	0.1	685	-	-	-	-	-	-	0.0	4	-	-
1070	15.6	33,235	15.2	76,093	-	-	-	-	-	-	-	-	-	-
1071	-	-	-	-	-	-	92.2	193,583	-	-	-	-	-	-
1072	-	-	-	-	-	-	68.1	143,014	-	-	-	-	-	-
1073	-	-	-	-	-	-	73.0	153,219	-	-	-	-	-	-
1074	62.0	130,266	-	-	-	-	-	-	-	-	-	-	-	-
1075	1.6	3,448	35.7	178,444	0.5	3,068	-	-	10.6	25,418	8.1	16,148	-	-
1076	74.2	155,913	-	-	-	-	-	-	-	-	-	-	-	-
1077	0.0	8	48.5	242,261	-	-	-	-	-	-	-	-	-	-
1078	-	-	44.2	221,094	-	-	-	-	-	-	-	-	-	-
1079	63.2	132,732	-	-	-	-	-	-	-	-	-	-	-	-
1080	47.9	100,513	-	-	-	-	-	-	-	-	-	-	-	-
1081	48.7	102,221	-	-	-	-	-	-	-	-	-	-	-	-
1082	40.2	84,432	68.6	342,779	-	-	-	-	-	-	-	-	-	-
1083	67.2	141,163	-	-	-	-	-	-	-	-	-	-	-	-
1084	-	-	33.0	165,057	-	-	1.9	3,946	2.1	5,110	-	-	-	-
1085	-	-	47.0	234,780	-	-	-	-	-	-	-	-	-	-
1086	-	-	0.1	385	43.4	294,803	-	-	-	-	3.0	6,050	-	-
1087	51.4	108,040	-	-	-	-	11.3	23,699	-	-	-	-	-	-
1088	26.5	55,600	9.7	48,511	3.0	20,729	-	-	-	-	-	-	-	-
1089	15.5	32,602	-	-	-	-	1.7	3,476	-	-	9.9	19,819	-	-
1090	-	-	35.6	177,966	-	-	-	-	-	-	-	-	-	-
1091	47.1	98,823	-	-	-	-	-	-	-	-	-	-	-	-
1092	36.5	76,737	-	-	-	-	-	-	-	-	-	-	-	-
1093	54.0	113,449	-	-	-	-	-	-	-	-	-	-	-	-
1094	41.4	86,966	-	-	-	-	-	-	-	-	7.7	15,425	-	-
1095	-	-	-	-	0.0	157	-	-	-	-	45.1	90,257	-	-
1096	-	-	23.3	116,641	25.5	173,623	-	-	-	-	16.3	32,683	-	-
1097	32.3	67,760	30.5	152,615	24.2	164,780	-	-	-	-	-	-	-	-
1098	62.0	128,657	-	-	-	-	-	-	-	-	-	-	-	-
1099	84.4	176,169	-	-	0.0	61	-	-	-	-	-	-	-	-
1100	3.3	6,872	-	-	-	-	-	-	-	-	-	-	-	-
1101	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1102	77.2	162,016	-	-	-	-	-	-	-	-	-	-	-	-
1103	0.1	275	43.5	217,668	12.0	81,883	-	-	-	-	9.2	18,472	-	-
1104	70.9	148,850	-	-	-	-	-	-	-	-	-	-	-	-
1105	21.2	44,499	25.6	128,070	17.3	117,404	-	-	-	-	14.9	29,822	-	-
1106	27.3	57,266	0.0	1	-	-	-	-	-	-	-	-	-	-
1107	-	-	42.1	210,272	-	-	-	-	-	-	-	-	-	-
1108	59.1	124,023	-	-	-	-	-	-	-	-	-	-	-	-
1109	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1110	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1111	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1112	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1113	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1114	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1115	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1116	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Low Density Residential		Medium Density Residential		High Density Residential		Residential Estate		Administrative Professional		Commercial		Industrial	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1117	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1118	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1119	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1120	0.2	505	-	-	0.1	865	-	-	-	-	0.0	40	-	-
1121	0.2	390	-	-	-	-	-	-	-	-	-	-	0.2	460
1122	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1123	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1124	32.5	68,158	-	-	13.3	90,571	-	-	-	-	0.6	1,177	-	-
1125	37.4	78,586	0.0	189	-	-	-	-	-	-	-	-	-	-
1126	0.0	57	-	-	-	-	-	-	-	-	47.9	95,794	0.8	2,481
1127	23.2	48,773	28.1	140,496	-	-	-	-	-	-	-	-	-	-
1128	57.2	118,005	-	-	-	-	-	-	-	-	-	-	-	-
1129	74.1	155,703	1.2	5,907	-	-	-	-	-	-	-	-	-	-
1130	12.8	26,776	38.1	190,535	0.1	462	-	-	-	-	1.4	2,882	0.0	9
1131	48.2	101,227	16.3	81,299	-	-	-	-	-	-	-	-	-	-
1132	47.0	98,631	32.8	163,991	-	-	-	-	-	-	-	-	-	-
1133	25.7	54,011	-	-	-	-	-	-	-	-	0.0	57	-	-
1134	46.4	97,482	-	-	12.8	87,041	-	-	-	-	15.2	30,374	-	-
1135	22.5	47,270	20.7	103,566	17.3	117,856	-	-	-	-	-	-	-	-
1136	-	-	33.5	167,604	-	-	-	-	-	-	-	-	-	-
1137	22.2	46,520	19.4	96,816	0.5	3,308	-	-	-	-	-	-	-	-
1138	65.4	137,250	2.6	13,222	0.0	0	-	-	-	-	-	-	-	-
1139	35.2	73,854	56.5	282,684	-	-	-	-	-	-	-	-	-	-
1140	-	-	-	-	-	-	-	-	72.8	160,587	-	-	-	-
1141	-	-	-	-	-	-	-	-	30.3	71,201	-	-	-	-
1142	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1143	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1144	-	-	-	-	-	-	-	-	-	-	-	-	76.2	139,778
1145	28.2	59,298	17.0	85,152	-	-	-	-	-	-	24.9	49,817	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	5.0	5,527	-	-	-	-	-	-
4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	15.6	24,930	-	-	-	-	9.6	15,428	-	-	-	-	-	-
7	-	-	-	-	-	-	1.6	2,594	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	-	-	-	-	0.0	18	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	-	-	55.6	61,116	-	-	-	-	-	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	-	-	-	-	-	-	7.1	11,327	-	-	-	-	-	-
20	-	-	-	-	-	-	9.9	10,943	-	-	-	-	-	-
21	-	-	-	-	-	-	3.2	3,495	-	-	-	-	-	-
22	-	-	-	-	-	-	-	-	-	-	-	-	-	-
23	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	-	-	-	-	-	-	-	-	0.6	1,395	-	-	-	-
25	-	-	-	-	-	-	16.6	26,520	0.3	760	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	3.2	5,153	-	-	-	-	-	-
32	-	-	-	-	-	-	0.1	143	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	1.1	1,680	-	-	-	-	-	-	-	-	-	-	-	-
36	0.0	9	-	-	-	-	11.2	12,276	-	-	-	-	-	-
37	-	-	-	-	-	-	4.6	5,024	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	3.2	5,136	-	-	-	-	0.7	719	-	-	-	-	-	-
42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	0.6	1,026	-	-	-	-	-	-	-	-	-	-	-	-
44	0.0	41	-	-	-	-	-	-	-	-	-	-	-	-
45	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
53	-	-	-	-	-	-	13.3	14,638	-	-	-	-	-	-
55	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	-	-	-	-	-	-	13.1	14,419	-	-	-	-	-	-
57	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	-	-	-	-	-	-
59	-	-	-	-	-	-	8.0	8,758	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62	-	-	-	-	-	-	9.8	10,789	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
63	-	-	-	-	-	-	0.1	104	-	-	-	-	-	-
64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65	-	-	-	-	-	-	9.6	10,528	-	-	-	-	-	-
66	-	-	-	-	-	-	0.2	208	-	-	-	-	-	-
67	-	-	-	-	-	-	0.0	15	-	-	-	-	-	-
68	-	-	-	-	-	-	10.5	11,531	-	-	-	-	-	-
69	-	-	-	-	-	-	60.1	96,190	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
71	-	-	-	-	-	-	5.1	5,556	-	-	-	-	-	-
72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
73	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
78	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79	-	-	-	-	-	-	-	-	-	-	-	-	-	-
80	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81	-	-	-	-	-	-	0.0	17	-	-	-	-	-	-
82	-	-	-	-	-	-	8.5	9,396	-	-	-	-	-	-
83	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85	-	-	-	-	-	-	3.4	3,688	-	-	-	-	-	-
86	-	-	-	-	-	-	-	-	-	-	-	-	-	-
87	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88	-	-	-	-	-	-	0.5	860	23.1	53,185	-	-	-	-
91	-	-	-	-	-	-	-	-	-	-	-	-	-	-
92	-	-	-	-	-	-	-	-	-	-	-	-	-	-
93	-	-	-	-	-	-	9.9	10,848	-	-	-	-	-	-
94	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	-	-	-	-	-	-	5.6	6,120	-	-	-	-	-	-
96	-	-	-	-	-	-	-	-	-	-	-	-	-	-
97	-	-	-	-	-	-	6.8	7,480	-	-	-	-	-	-
98	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99	-	-	25.0	27,541	-	-	2.2	2,370	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
101	-	-	0.0	11	-	-	-	-	-	-	-	-	-	-
102	-	-	-	-	-	-	0.2	224	-	-	-	-	-	-
103	-	-	-	-	-	-	51.5	56,596	-	-	-	-	-	-
104	-	-	-	-	-	-	-	-	-	-	-	-	-	-
106	-	-	-	-	-	-	1.1	1,208	-	-	-	-	-	-
107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
109	4.4	6,994	-	-	-	-	-	-	-	-	-	-	-	-
110	-	-	-	-	-	-	27.7	33,216	-	-	-	-	-	-
111	-	-	-	-	-	-	71.7	78,901	-	-	-	-	-	-
112	-	-	-	-	-	-	-	-	-	-	-	-	-	-
113	-	-	-	-	-	-	-	-	-	-	-	-	-	-
114	-	-	-	-	-	-	7.8	8,621	-	-	-	-	-	-
115	-	-	-	-	-	-	6.1	6,719	-	-	-	-	-	-
116	-	-	-	-	-	-	4.8	5,315	-	-	-	-	-	-
117	-	-	-	-	-	-	-	-	-	-	-	-	-	-
118	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120	-	-	-	-	-	-	11.5	12,680	-	-	-	-	-	-
121	-	-	-	-	-	-	12.1	13,328	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
122	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123	-	-	-	-	-	-	6.5	10,402	0.5	1,193	-	-	-	-
124	-	-	-	-	-	-	-	-	-	-	-	-	-	-
125	-	-	-	-	-	-	0.0	3	-	-	-	-	-	-
126	-	-	-	-	-	-	26.1	28,692	-	-	-	-	-	-
127	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	-	-	-	-	-	-	-	-	-	-	-	-	-	-
129	-	-	-	-	-	-	-	-	-	-	-	-	-	-
130	-	-	-	-	-	-	13.3	14,620	-	-	-	-	-	-
131	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132	-	-	-	-	-	-	-	-	-	-	-	-	-	-
133	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134	-	-	-	-	-	-	-	-	-	-	-	-	-	-
135	-	-	-	-	-	-	-	-	-	-	-	-	-	-
136	-	-	-	-	-	-	0.0	24	-	-	-	-	-	-
137	-	-	-	-	-	-	10.0	11,023	-	-	-	-	-	-
138	-	-	-	-	-	-	0.0	28	-	-	-	-	-	-
139	-	-	-	-	-	-	17.1	27,372	-	-	-	-	-	-
140	-	-	-	-	-	-	-	-	-	-	-	-	-	-
141	-	-	-	-	-	-	-	-	-	-	-	-	-	-
142	-	-	-	-	-	-	-	-	2.1	4,731	-	-	-	-
143	-	-	-	-	-	-	4.0	5,430	-	-	-	-	-	-
144	1.6	1,774	-	-	-	-	-	-	-	-	-	-	-	-
145	0.0	0	-	-	-	-	0.0	12	-	-	-	-	-	-
146	-	-	-	-	-	-	-	-	-	-	-	-	-	-
147	-	-	-	-	-	-	-	-	-	-	-	-	-	-
148	-	-	-	-	-	-	-	-	-	-	-	-	-	-
149	0.1	144	-	-	-	-	-	-	-	-	-	-	-	-
150	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151	0.1	144	-	-	-	-	0.0	9	-	-	-	-	-	-
152	-	-	-	-	-	-	-	-	-	-	-	-	-	-
153	-	-	-	-	-	-	15.6	24,992	7.3	16,743	-	-	-	-
154	0.1	60	-	-	-	-	160.4	176,400	-	-	-	-	-	-
155	-	-	-	-	-	-	-	-	-	-	-	-	-	-
156	-	-	-	-	-	-	-	-	-	-	-	-	-	-
157	47.8	53,626	-	-	-	-	-	-	-	-	-	-	-	-
158	-	-	-	-	-	-	-	-	-	-	-	-	-	-
159	-	-	-	-	-	-	-	-	17.4	40,120	-	-	-	-
160	-	-	-	-	-	-	-	-	-	-	-	-	-	-
161	1.8	2,021	-	-	-	-	0.0	2	-	-	-	-	-	-
162	-	-	-	-	-	-	-	-	-	-	-	-	-	-
163	-	-	-	-	-	-	-	-	-	-	-	-	-	-
164	-	-	-	-	-	-	-	-	-	-	-	-	-	-
165	0.6	675	-	-	-	-	0.0	1	-	-	-	-	-	-
166	-	-	-	-	-	-	-	-	-	-	-	-	-	-
167	0.6	626	-	-	-	-	0.0	0	-	-	-	-	-	-
168	-	-	-	-	-	-	-	-	-	-	-	-	-	-
169	0.0	2	-	-	-	-	-	-	-	-	-	-	-	-
170	-	-	-	-	-	-	-	-	-	-	-	-	-	-
171	-	-	-	-	-	-	3.7	4,082	-	-	-	-	-	-
172	0.4	488	-	-	-	-	0.3	301	-	-	-	-	-	-
173	-	-	-	-	-	-	5.7	9,119	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
174	-	-	-	-	-	-	-	-	-	-	-	-	-	-
175	-	-	-	-	-	-	-	-	-	-	-	-	-	-
176	-	-	-	-	-	-	-	-	-	-	-	-	-	-
177	-	-	-	-	-	-	-	-	-	-	-	-	-	-
178	0.0	0	-	-	-	-	5.9	9,394	-	-	-	-	-	-
179	0.0	15	-	-	-	-	-	-	-	-	-	-	-	-
180	-	-	-	-	-	-	0.0	13	-	-	-	-	-	-
181	-	-	-	-	-	-	-	-	-	-	-	-	-	-
182	-	-	-	-	-	-	-	-	-	-	-	-	-	-
183	-	-	-	-	-	-	0.4	466	-	-	-	-	-	-
184	21.7	34,716	-	-	-	-	55.4	88,626	-	-	-	-	-	-
185	5.9	9,437	-	-	-	-	11.4	18,217	-	-	-	-	-	-
186	-	-	-	-	-	-	-	-	-	-	-	-	-	-
187	1.1	1,275	-	-	-	-	0.2	235	-	-	-	-	-	-
188	2.8	4,408	-	-	-	-	3.3	5,234	-	-	-	-	-	-
189	-	-	-	-	-	-	3.6	3,947	-	-	-	-	-	-
190	-	-	-	-	-	-	0.1	112	-	-	-	-	-	-
191	5.7	9,087	-	-	-	-	57.4	91,774	-	-	-	-	-	-
192	-	-	-	-	-	-	-	-	-	-	-	-	-	-
193	-	-	-	-	-	-	-	-	-	-	-	-	-	-
194	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
195	-	-	-	-	-	-	43.0	47,281	-	-	-	-	-	-
196	78.5	125,637	-	-	-	-	-	-	-	-	-	-	-	-
197	-	-	-	-	-	-	0.0	28	-	-	-	-	-	-
198	-	-	-	-	-	-	10.4	11,447	-	-	-	-	-	-
199	1.4	2,170	-	-	-	-	3.4	5,477	-	-	-	-	-	-
200	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201	-	-	-	-	-	-	9.6	15,358	-	-	-	-	-	-
202	0.8	1,222	-	-	-	-	0.1	98	-	-	-	-	-	-
203	-	-	-	-	-	-	0.1	64	-	-	-	-	-	-
204	-	-	-	-	-	-	13.5	14,870	-	-	-	-	-	-
205	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	-	-	-	-	-	-	-	-	-	-	-	-	-	-
208	-	-	-	-	-	-	7.1	11,412	-	-	-	-	-	-
209	-	-	-	-	-	-	-	-	-	-	-	-	-	-
210	-	-	-	-	-	-	-	-	-	-	-	-	-	-
211	-	-	-	-	-	-	-	-	-	-	-	-	-	-
212	3.1	4,967	-	-	-	-	-	-	-	-	-	-	-	-
213	-	-	-	-	-	-	0.1	125	-	-	-	-	-	-
214	-	-	-	-	-	-	-	-	-	-	-	-	-	-
215	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	2.3	3,717	-	-	-	-	0.1	105	-	-	-	-	-	-
217	-	-	-	-	-	-	42.0	46,229	-	-	-	-	-	-
218	-	-	-	-	-	-	0.1	149	-	-	-	-	-	-
219	-	-	-	-	-	-	-	-	-	-	-	-	-	-
220	-	-	-	-	-	-	5.4	8,637	-	-	-	-	-	-
221	-	-	-	-	-	-	-	-	-	-	-	-	-	-
222	100.3	160,464	-	-	-	-	-	-	-	-	-	-	-	-
223	-	-	-	-	-	-	-	-	-	-	-	-	-	-
224	-	-	-	-	-	-	-	-	-	-	-	-	-	-
225	-	-	-	-	-	-	10.3	11,326	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
226	-	-	-	-	-	-	0.0	12	-	-	-	-	-	-
227	-	-	-	-	-	-	0.3	442	-	-	-	-	-	-
228	-	-	-	-	-	-	-	-	-	-	-	-	-	-
229	-	-	-	-	-	-	-	-	2.0	4,597	-	-	-	-
230	-	-	-	-	-	-	37.6	60,160	-	-	-	-	-	-
232	-	-	-	-	-	-	10.8	17,254	-	-	-	-	-	-
233	2.4	3,850	-	-	-	-	-	-	-	-	-	-	-	-
234	-	-	-	-	-	-	18.9	20,817	-	-	-	-	-	-
235	0.1	117	-	-	-	-	113.7	181,994	3.4	7,820	-	-	-	-
236	-	-	-	-	-	-	-	-	-	-	-	-	-	-
237	-	-	-	-	-	-	-	-	-	-	-	-	-	-
238	-	-	-	-	-	-	-	-	-	-	-	-	-	-
239	-	-	-	-	-	-	10.6	16,885	-	-	-	-	-	-
240	-	-	-	-	-	-	-	-	-	-	-	-	-	-
241	-	-	-	-	-	-	0.0	2	-	-	-	-	-	-
243	-	-	-	-	-	-	0.0	10	-	-	-	-	-	-
244	-	-	-	-	-	-	0.0	45	-	-	-	-	-	-
245	0.1	97	-	-	-	-	-	-	-	-	-	-	-	-
246	-	-	-	-	-	-	-	-	-	-	-	-	-	-
247	-	-	-	-	-	-	-	-	-	-	-	-	-	-
248	-	-	-	-	-	-	-	-	-	-	-	-	-	-
249	-	-	-	-	-	-	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	0.0	25	1.0	2,370	-	-	-	-
251	-	-	-	-	-	-	-	-	-	-	-	-	-	-
252	-	-	-	-	-	-	5.0	8,067	-	-	-	-	-	-
253	-	-	-	-	-	-	-	-	-	-	-	-	-	-
254	-	-	-	-	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	-	-	-	-	-
256	-	-	-	-	-	-	-	-	-	-	-	-	-	-
257	-	-	2.4	3,804	-	-	1.2	1,922	-	-	-	-	-	-
258	-	-	-	-	-	-	-	-	-	-	-	-	-	-
259	-	-	-	-	-	-	-	-	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	-	-	-	-	-	-
261	-	-	-	-	-	-	-	-	-	-	-	-	-	-
262	-	-	-	-	-	-	-	-	-	-	-	-	-	-
263	-	-	-	-	-	-	-	-	-	-	-	-	-	-
264	-	-	-	-	-	-	-	-	-	-	-	-	-	-
265	-	-	-	-	-	-	-	-	-	-	-	-	-	-
266	2.7	4,262	-	-	-	-	-	-	-	-	-	-	-	-
267	-	-	-	-	-	-	14.5	15,947	-	-	-	-	-	-
268	-	-	-	-	-	-	-	-	-	-	-	-	-	-
269	-	-	-	-	-	-	-	-	-	-	-	-	-	-
270	3.8	6,085	-	-	-	-	-	-	-	-	-	-	-	-
271	-	-	-	-	-	-	-	-	-	-	-	-	-	-
272	-	-	-	-	-	-	-	-	-	-	-	-	-	-
273	-	-	-	-	-	-	-	-	-	-	-	-	-	-
274	0.2	289	-	-	-	-	-	-	-	-	-	-	-	-
275	-	-	-	-	-	-	-	-	-	-	-	-	-	-
276	-	-	-	-	-	-	-	-	-	-	-	-	-	-
277	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
278	4.3	6,843	-	-	-	-	-	-	0.9	2,166	-	-	-	-
279	-	-	-	-	-	-	-	-	20.0	45,986	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
280	-	-	-	-	-	-	-	-	-	-	-	-	-	-
281	-	-	-	-	-	-	7.5	8,258	-	-	-	-	-	-
282	-	-	-	-	-	-	-	-	-	-	-	-	-	-
284	-	-	-	-	-	-	16.9	82	-	-	-	-	-	-
285	-	-	-	-	-	-	-	-	-	-	-	-	-	-
286	-	-	-	-	-	-	-	-	-	-	-	-	-	-
287	-	-	-	-	-	-	-	-	-	-	-	-	-	-
288	-	-	-	-	-	-	-	-	-	-	-	-	-	-
289	-	-	-	-	-	-	-	-	-	-	-	-	-	-
290	-	-	-	-	-	-	0.0	31	-	-	-	-	-	-
291	-	-	-	-	-	-	0.0	51	-	-	-	-	-	-
292	-	-	-	-	-	-	-	-	-	-	-	-	-	-
293	-	-	-	-	-	-	-	-	-	-	-	-	-	-
294	0.8	855	-	-	-	-	-	-	-	-	-	-	-	-
295	-	-	-	-	-	-	-	-	-	-	-	-	-	-
296	16.6	18,442	-	-	-	-	-	-	-	-	-	-	-	-
297	-	-	-	-	-	-	-	-	-	-	-	-	-	-
298	-	-	-	-	-	-	-	-	-	-	-	-	-	-
299	-	-	-	-	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-	-	-	-	-
301	-	-	-	-	-	-	-	-	-	-	-	-	-	-
302	-	-	-	-	-	-	0.1	90	-	-	-	-	-	-
303	-	-	-	-	-	-	4.0	4,398	-	-	-	-	-	-
304	0.2	386	-	-	-	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-	-	-	-	-	-
306	-	-	-	-	-	-	-	-	-	-	-	-	-	-
307	-	-	-	-	-	-	-	-	-	-	-	-	-	-
308	0.7	787	-	-	-	-	-	-	-	-	-	-	-	-
309	-	-	-	-	-	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-	-	-	-	-	-
311	-	-	-	-	-	-	-	-	-	-	-	-	-	-
312	-	-	-	-	-	-	10.2	11,205	-	-	-	-	-	-
313	-	-	-	-	-	-	-	-	-	-	-	-	-	-
314	3.5	3,832	-	-	-	-	-	-	-	-	-	-	-	-
315	167.7	57	-	-	-	-	-	-	-	-	-	-	-	-
316	-	-	-	-	-	-	-	-	-	-	-	-	-	-
317	37.5	36,104	-	-	-	-	-	-	-	-	-	-	-	-
318	-	-	-	-	-	-	-	-	-	-	-	-	-	-
319	-	-	-	-	-	-	5.0	5,526	-	-	-	-	-	-
321	-	-	-	-	-	-	-	-	-	-	-	-	-	-
322	-	-	-	-	-	-	-	-	-	-	-	-	-	-
323	-	-	-	-	-	-	-	-	-	-	-	-	-	-
324	-	-	-	-	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-	-	-	-	-
326	-	-	-	-	-	-	-	-	-	-	-	-	-	-
327	3.5	3,873	-	-	-	-	-	-	-	-	-	-	-	-
328	2.7	2,952	-	-	-	-	-	-	-	-	-	-	-	-
329	-	-	-	-	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-	-	-	-	-
331	-	-	-	-	-	-	-	-	-	-	-	-	-	-
332	-	-	-	-	-	-	41.7	45,840	-	-	-	-	-	-
333	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
334	-	-	-	-	-	-	-	-	-	-	-	-	-	-
335	-	-	-	-	-	-	-	-	-	-	-	-	-	-
336	-	-	-	-	-	-	-	-	-	-	-	-	-	-
337	-	-	-	-	-	-	-	-	-	-	-	-	-	-
338	2.7	-	-	-	-	-	3.5	-	-	-	-	-	-	-
339	-	-	-	-	-	-	-	-	-	-	-	-	-	-
340	-	-	-	-	-	-	-	-	-	-	-	-	-	-
341	1.0	789	-	-	-	-	-	-	-	-	-	-	-	-
342	-	-	-	-	-	-	3.2	2,717	-	-	-	-	-	-
343	4.5	-	-	-	-	-	0.0	-	-	-	-	-	-	-
344	-	-	-	-	-	-	28.9	31,736	-	-	-	-	-	-
345	0.0	0	-	-	-	-	-	-	-	-	-	-	-	-
346	-	-	-	-	-	-	-	-	-	-	-	-	-	-
347	-	-	-	-	-	-	1.2	1,363	-	-	-	-	-	-
348	-	-	-	-	-	-	-	-	-	-	-	-	-	-
349	-	-	-	-	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-
351	-	-	-	-	-	-	-	-	-	-	-	-	-	-
352	-	-	-	-	-	-	3.1	42	-	-	-	-	-	-
353	-	-	-	-	-	-	-	-	-	-	-	-	-	-
354	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-
355	-	-	-	-	-	-	-	-	-	-	-	-	-	-
356	-	-	-	-	-	-	-	-	-	-	-	-	-	-
357	-	-	-	-	-	-	0.0	2	-	-	-	-	-	-
358	-	-	-	-	-	-	-	-	-	-	-	-	-	-
359	-	-	-	-	-	-	-	-	-	-	-	-	-	-
360	-	-	-	-	-	-	-	-	-	-	-	-	-	-
361	-	-	-	-	-	-	14.4	-	-	-	-	-	-	-
362	-	-	-	-	-	-	8.2	-	-	-	-	-	-	-
363	-	-	-	-	-	-	0.1	-	-	-	-	-	-	-
364	-	-	-	-	-	-	-	-	-	-	-	-	-	-
365	-	-	-	-	-	-	-	-	-	-	-	-	-	-
366	-	-	-	-	-	-	-	-	-	-	-	-	-	-
367	-	-	-	-	-	-	9.0	-	-	-	-	-	-	-
368	-	-	-	-	-	-	-	-	-	-	-	-	-	-
369	-	-	-	-	-	-	1.0	-	-	-	-	-	-	-
370	-	-	-	-	-	-	5.8	2,317	-	-	-	-	-	-
371	-	-	-	-	-	-	0.0	7	-	-	-	-	-	-
372	-	-	-	-	-	-	-	-	-	-	-	-	-	-
373	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-
374	-	-	-	-	-	-	-	-	-	-	-	-	-	-
375	-	-	-	-	-	-	-	-	-	-	-	-	-	-
376	-	-	-	-	-	-	-	-	-	-	-	-	-	-
377	-	-	-	-	-	-	-	-	-	-	-	-	-	-
378	-	-	-	-	-	-	-	-	-	-	-	-	-	-
380	-	-	-	-	-	-	-	-	-	-	-	-	-	-
381	-	-	-	-	-	-	-	-	-	-	-	-	-	-
382	-	-	-	-	-	-	-	-	-	-	-	-	-	-
383	-	-	-	-	-	-	-	-	-	-	-	-	-	-
385	-	-	-	-	-	-	-	-	-	-	-	-	-	-
386	-	-	-	-	-	-	-	-	-	-	-	-	-	-
387	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
388	-	-	-	-	-	-	9.0	-	-	-	-	-	-	-
389	-	-	-	-	-	-	-	-	-	-	-	-	-	-
390	-	-	-	-	-	-	-	-	-	-	-	-	-	-
391	-	-	-	-	-	-	-	-	-	-	-	-	-	-
392	7.0	11,249	-	-	-	-	-	-	-	-	-	-	-	-
393	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-
394	-	-	-	-	-	-	-	-	-	-	-	-	-	-
395	-	-	-	-	-	-	-	-	-	-	-	-	-	-
396	-	-	-	-	-	-	-	-	-	-	-	-	-	-
397	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-
398	-	-	-	-	-	-	-	-	-	-	-	-	-	-
399	-	-	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-	-	-	-	-	-	-
401	-	-	-	-	-	-	-	-	-	-	-	-	-	-
402	-	-	-	-	-	-	-	-	-	-	-	-	-	-
403	-	-	-	-	-	-	-	-	-	-	-	-	-	-
404	-	-	-	-	-	-	-	-	-	-	-	-	-	-
405	-	-	-	-	-	-	-	-	-	-	-	-	-	-
406	0.3	523	-	-	-	-	-	-	-	-	-	-	-	-
408	-	-	-	-	-	-	-	-	-	-	-	-	-	-
409	-	-	-	-	-	-	-	-	-	-	-	-	-	-
410	-	-	-	-	-	-	-	-	-	-	-	-	-	-
411	-	-	-	-	-	-	-	-	-	-	-	-	-	-
412	-	-	-	-	-	-	-	-	-	-	-	-	-	-
413	4.7	-	-	-	-	-	4.9	-	-	-	-	-	-	-
414	-	-	-	-	-	-	-	-	-	-	-	-	-	-
415	-	-	-	-	-	-	-	-	-	-	-	-	-	-
416	-	-	-	-	-	-	-	-	-	-	-	-	-	-
417	-	-	-	-	-	-	-	-	-	-	-	-	-	-
418	-	-	-	-	-	-	-	-	-	-	-	-	-	-
419	-	-	-	-	-	-	-	-	-	-	-	-	-	-
420	-	-	-	-	-	-	-	-	-	-	-	-	-	-
421	1.8	1,966	-	-	-	-	-	-	-	-	-	-	-	-
422	-	-	-	-	-	-	-	-	-	-	-	-	-	-
423	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
424	1.5	1,674	-	-	-	-	-	-	-	-	-	-	-	-
425	-	-	-	-	-	-	-	-	-	-	-	-	-	-
426	-	-	-	-	-	-	-	-	-	-	-	-	-	-
427	-	-	-	-	-	-	-	-	-	-	-	-	-	-
428	-	-	-	-	-	-	-	-	-	-	-	-	-	-
429	38.4	58,837	-	-	-	-	-	-	-	-	-	-	-	-
430	-	-	-	-	-	-	-	-	-	-	-	-	-	-
431	0.0	26	-	-	-	-	-	-	-	-	-	-	-	-
432	1.6	2,612	-	-	-	-	-	-	-	-	-	-	-	-
433	-	-	-	-	-	-	-	-	-	-	-	-	-	-
434	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
435	-	-	-	-	-	-	-	-	-	-	-	-	-	-
436	-	-	-	-	-	-	-	-	-	-	-	-	-	-
437	-	-	-	-	-	-	15.2	16,735	-	-	-	-	-	-
438	-	-	-	-	-	-	-	-	-	-	-	-	-	-
439	-	-	-	-	-	-	-	-	-	-	-	-	-	-
440	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
441	2.0	2,174	-	-	-	-	-	-	-	-	-	-	-	-
442	-	-	-	-	-	-	-	-	-	-	-	-	-	-
443	-	-	-	-	-	-	-	-	-	-	-	-	-	-
444	-	-	-	-	-	-	-	-	-	-	-	-	-	-
445	-	-	-	-	-	-	-	-	-	-	-	-	-	-
446	-	-	-	-	-	-	20.8	22,879	-	-	-	-	-	-
447	-	-	-	-	-	-	-	-	-	-	-	-	-	-
448	-	-	-	-	-	-	-	-	-	-	-	-	-	-
451	-	-	-	-	-	-	-	-	-	-	-	-	-	-
452	-	-	-	-	-	-	-	-	-	-	-	-	-	-
453	-	-	-	-	-	-	-	-	-	-	-	-	-	-
508	-	-	-	-	-	-	-	-	-	-	-	-	-	-
509	-	-	-	-	-	-	-	-	1.4	3,119	-	-	-	-
510	-	-	-	-	-	-	-	-	-	-	-	-	-	-
511	-	-	-	-	-	-	-	-	-	-	-	-	-	-
512	-	-	-	-	-	-	-	-	-	-	-	-	-	-
513	-	-	-	-	-	-	-	-	-	-	-	-	-	-
514	-	-	-	-	-	-	-	-	-	-	-	-	-	-
515	-	-	-	-	-	-	-	-	-	-	-	-	-	-
516	-	-	-	-	-	-	0.3	347	-	-	-	-	-	-
517	-	-	-	-	-	-	5.7	6,240	-	-	-	-	-	-
518	-	-	-	-	-	-	0.0	1	-	-	-	-	-	-
519	-	-	-	-	-	-	0.0	17	-	-	-	-	-	-
520	-	-	-	-	-	-	0.0	11	-	-	-	-	-	-
521	-	-	-	-	-	-	-	-	-	-	-	-	-	-
522	-	-	-	-	-	-	-	-	-	-	-	-	-	-
523	-	-	-	-	-	-	9.2	10,066	-	-	-	-	-	-
524	-	-	-	-	-	-	-	-	-	-	-	-	-	-
525	-	-	-	-	-	-	0.8	852	-	-	-	-	-	-
526	-	-	-	-	-	-	-	-	-	-	-	-	-	-
527	-	-	-	-	-	-	-	-	-	-	-	-	-	-
528	-	-	-	-	-	-	-	-	-	-	-	-	-	-
529	-	-	-	-	-	-	-	-	-	-	-	-	-	-
530	-	-	-	-	-	-	0.8	857	-	-	-	-	-	-
531	-	-	-	-	-	-	0.0	6	-	-	-	-	-	-
532	-	-	-	-	-	-	9.0	9,929	-	-	-	-	-	-
533	-	-	-	-	-	-	-	-	-	-	-	-	-	-
534	-	-	-	-	-	-	-	-	-	-	-	-	-	-
535	-	-	-	-	-	-	-	-	-	-	-	-	-	-
536	-	-	-	-	-	-	-	-	-	-	-	-	-	-
537	-	-	-	-	-	-	-	-	-	-	-	-	-	-
538	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
539	-	-	-	-	-	-	-	-	-	-	-	-	-	-
540	-	-	-	-	-	-	-	-	-	-	-	-	-	-
541	-	-	-	-	-	-	0.0	14	-	-	-	-	-	-
542	-	-	-	-	-	-	-	-	-	-	-	-	-	-
543	-	-	-	-	-	-	-	-	-	-	-	-	-	-
544	-	-	-	-	-	-	-	-	-	-	-	-	-	-
545	-	-	-	-	-	-	-	-	-	-	-	-	-	-
546	-	-	-	-	-	-	-	-	-	-	-	-	-	-
547	-	-	-	-	-	-	6.1	6,684	-	-	-	-	-	-
548	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
549	-	-	-	-	-	-	1.1	1,817	1.1	2,543	-	-	-	-
550	-	-	-	-	-	-	1.8	2,823	-	-	-	-	-	-
551	-	-	-	-	-	-	-	-	-	-	-	-	-	-
552	-	-	-	-	-	-	-	-	-	-	-	-	-	-
553	1.5	1,666	-	-	-	-	-	-	-	-	-	-	-	-
554	-	-	-	-	-	-	-	-	-	-	-	-	-	-
555	-	-	-	-	-	-	0.0	0	-	-	-	-	-	-
556	-	-	-	-	-	-	-	-	-	-	-	-	-	-
557	-	-	-	-	-	-	-	-	-	-	-	-	-	-
558	-	-	-	-	-	-	-	-	-	-	-	-	-	-
559	-	-	-	-	-	-	0.0	8	-	-	-	-	-	-
560	-	-	-	-	-	-	-	-	-	-	-	-	-	-
561	0.8	883	-	-	-	-	0.0	29	-	-	-	-	-	-
562	0.3	364	-	-	-	-	0.0	32	-	-	-	-	-	-
563	-	-	-	-	-	-	-	-	-	-	-	-	-	-
564	-	-	-	-	-	-	-	-	-	-	-	-	-	-
565	-	-	-	-	-	-	-	-	-	-	-	-	-	-
566	-	-	-	-	-	-	-	-	-	-	-	-	-	-
567	1.1	1,820	-	-	-	-	-	-	-	-	-	-	-	-
568	6.1	9,727	-	-	-	-	117.3	187,638	-	-	-	-	-	-
569	-	-	-	-	-	-	-	-	-	-	-	-	-	-
570	-	-	-	-	-	-	-	-	-	-	-	-	-	-
571	-	-	-	-	-	-	-	-	-	-	-	-	-	-
572	-	-	-	-	-	-	-	-	-	-	-	-	-	-
573	-	-	-	-	-	-	-	-	-	-	-	-	-	-
574	-	-	-	-	-	-	-	-	-	-	-	-	-	-
576	-	-	-	-	-	-	-	-	-	-	-	-	-	-
579	-	-	-	-	-	-	-	-	-	-	-	-	-	-
580	2.7	3,039	-	-	-	-	-	-	-	-	-	-	-	-
581	-	-	-	-	-	-	9.4	10,371	-	-	-	-	-	-
582	-	-	-	-	-	-	-	-	-	-	-	-	-	-
583	-	-	-	-	-	-	-	-	-	-	-	-	-	-
584	-	-	-	-	-	-	-	-	-	-	-	-	-	-
585	-	-	-	-	-	-	-	-	-	-	-	-	-	-
586	0.6	960	-	-	-	-	-	-	-	-	-	-	-	-
587	-	-	-	-	-	-	-	-	-	-	-	-	-	-
589	-	-	-	-	-	-	-	-	-	-	-	-	-	-
590	-	-	-	-	-	-	-	-	-	-	-	-	-	-
591	21.3	33,682	-	-	-	-	-	-	-	-	-	-	-	-
592	23.0	35,770	-	-	-	-	-	-	-	-	-	-	-	-
593	89.2	98,127	-	-	-	-	-	-	-	-	-	-	-	-
594	181.6	225,662	-	-	-	-	-	-	-	-	-	-	-	-
596	-	-	-	-	-	-	-	-	-	-	-	-	-	-
597	2.2	2,438	-	-	-	-	-	-	-	-	-	-	-	-
598	3.0	3,390	-	-	-	-	-	-	-	-	-	-	-	-
599	2.5	2,710	-	-	-	-	-	-	-	-	-	-	-	-
600	-	-	-	-	-	-	-	-	-	-	-	-	-	-
601	-	-	-	-	-	-	-	-	-	-	-	-	-	-
602	-	-	-	-	-	-	-	-	-	-	-	-	-	-
603	-	-	-	-	-	-	-	-	-	-	-	-	-	-
604	-	-	-	-	-	-	-	-	-	-	-	-	-	-
605	-	-	-	-	-	-	0.0	1	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
606	-	-	-	-	-	-	-	-	-	-	-	-	-	-
607	-	-	-	-	-	-	-	-	-	-	-	-	-	-
608	-	-	-	-	-	-	-	-	-	-	-	-	-	-
609	-	-	-	-	-	-	-	-	-	-	-	-	-	-
610	1.1	1,221	-	-	-	-	-	-	-	-	-	-	-	-
611	-	-	-	-	-	-	-	-	-	-	-	-	-	-
612	-	-	-	-	-	-	-	-	-	-	-	-	-	-
617	0.0	38	-	-	-	-	-	-	-	-	-	-	-	-
620	0.1	141	-	-	-	-	14.9	16,439	0.2	478	-	-	-	-
621	-	-	-	-	-	-	0.0	50	0.7	1,665	-	-	-	-
623	5.1	6,114	-	-	-	-	-	-	-	-	-	-	-	-
624	-	-	-	-	-	-	0.9	1,305	-	-	-	-	-	-
625	-	-	-	-	-	-	-	-	-	-	-	-	-	-
626	-	-	-	-	-	-	0.0	60	-	-	-	-	-	-
627	-	-	-	-	-	-	-	-	-	-	-	-	-	-
628	-	-	-	-	-	-	3.8	5,194	-	-	-	-	-	-
629	-	-	-	-	-	-	30.5	-	-	-	-	-	-	-
630	-	-	-	-	-	-	2.7	-	-	-	-	-	-	-
631	-	-	-	-	-	-	-	-	-	-	-	-	-	-
632	-	-	-	-	-	-	-	-	-	-	-	-	-	-
633	-	-	-	-	-	-	-	-	-	-	-	-	-	-
634	-	-	-	-	-	-	1.7	-	-	-	-	-	-	-
635	-	-	-	-	-	-	-	-	-	-	-	-	-	-
636	-	-	-	-	-	-	-	-	-	-	-	-	-	-
637	-	-	-	-	-	-	-	-	-	-	-	-	-	-
638	-	-	-	-	-	-	-	-	-	-	-	-	-	-
639	-	-	-	-	-	-	-	-	-	-	-	-	-	-
640	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-
641	34.8	3,037	-	-	-	-	-	-	-	-	-	-	-	-
642	-	-	-	-	-	-	-	-	-	-	-	-	-	-
643	-	-	-	-	-	-	-	-	-	-	-	-	-	-
644	-	-	-	-	-	-	-	-	-	-	-	-	-	-
646	0.5	580	-	-	-	-	-	-	-	-	-	-	-	-
647	-	-	-	-	-	-	-	-	-	-	-	-	-	-
650	-	-	-	-	-	-	-	-	-	-	-	-	-	-
652	-	-	-	-	-	-	-	-	-	-	-	-	-	-
653	-	-	-	-	-	-	-	-	-	-	-	-	-	-
654	-	-	-	-	-	-	-	-	-	-	-	-	-	-
655	-	-	-	-	-	-	3.9	6,161	-	-	-	-	-	-
656	-	-	-	-	-	-	-	-	-	-	-	-	-	-
659	-	-	-	-	-	-	-	-	-	-	-	-	-	-
660	-	-	-	-	-	-	-	-	-	-	-	-	-	-
661	-	-	-	-	-	-	-	-	-	-	-	-	-	-
662	-	-	-	-	-	-	-	-	0.4	979	-	-	-	-
663	-	-	-	-	-	-	-	-	-	-	-	-	-	-
664	-	-	-	-	-	-	10.5	11,529	-	-	-	-	-	-
666	-	-	-	-	-	-	-	-	-	-	-	-	-	-
667	0.4	573	-	-	-	-	-	-	0.9	2,163	-	-	-	-
670	-	-	-	-	-	-	-	-	-	-	-	-	-	-
671	0.6	680	-	-	-	-	-	-	-	-	-	-	-	-
673	-	-	-	-	-	-	-	-	-	-	-	-	-	-
675	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
678	-	-	-	-	-	-	-	-	-	-	-	-	-	-
679	-	-	-	-	-	-	-	-	-	-	-	-	-	-
681	1.5	1,652	-	-	-	-	-	-	-	-	-	-	-	-
683	-	-	-	-	-	-	-	-	-	-	-	-	-	-
686	-	-	-	-	-	-	-	-	-	-	-	-	-	-
689	56.0	89,641	-	-	-	-	-	-	0.5	1,186	-	-	-	-
690	0.1	165	-	-	-	-	-	-	-	-	-	-	-	-
692	-	-	-	-	-	-	-	-	-	-	-	-	-	-
693	-	-	-	-	-	-	-	-	-	-	-	-	-	-
694	34.8	53,075	-	-	-	-	11.6	12,728	-	-	-	-	-	-
695	-	-	-	-	-	-	-	-	-	-	-	-	-	-
697	-	-	-	-	-	-	-	-	-	-	-	-	-	-
698	-	-	-	-	-	-	-	-	-	-	-	-	-	-
699	-	-	-	-	-	-	-	-	-	-	-	-	-	-
700	-	-	-	-	-	-	-	-	-	-	-	-	-	-
701	-	-	-	-	-	-	-	-	-	-	-	-	-	-
702	-	-	-	-	-	-	-	-	-	-	-	-	-	-
703	-	-	-	-	-	-	-	-	-	-	-	-	-	-
704	-	-	-	-	-	-	-	-	-	-	-	-	-	-
705	-	-	-	-	-	-	-	-	-	-	-	-	-	-
706	-	-	-	-	-	-	-	-	0.1	126	-	-	-	-
707	-	-	-	-	-	-	18.8	29,998	-	-	-	-	-	-
708	-	-	-	-	-	-	0.1	93	-	-	-	-	-	-
709	5.2	8,369	-	-	-	-	-	-	-	-	-	-	-	-
710	1.6	2,552	-	-	-	-	2.6	4,231	-	-	-	-	-	-
714	-	-	-	-	-	-	-	-	-	-	-	-	-	-
715	-	-	-	-	-	-	-	-	-	-	-	-	-	-
717	-	-	-	-	-	-	-	-	-	-	-	-	-	-
719	-	-	-	-	-	-	-	-	-	-	-	-	-	-
720	-	-	-	-	-	-	-	-	10.9	25,071	-	-	-	-
721	-	-	-	-	-	-	-	-	-	-	-	-	-	-
722	-	-	-	-	-	-	-	-	0.0	79	-	-	-	-
723	-	-	-	-	-	-	-	-	-	-	-	-	-	-
724	-	-	-	-	-	-	-	-	-	-	-	-	-	-
725	-	-	-	-	-	-	-	-	-	-	-	-	-	-
726	-	-	-	-	-	-	-	-	15.1	34,716	-	-	-	-
727	-	-	-	-	-	-	-	-	-	-	-	-	-	-
728	-	-	-	-	-	-	-	-	-	-	-	-	-	-
729	-	-	-	-	-	-	11.2	17,951	-	-	-	-	-	-
730	-	-	-	-	-	-	-	-	-	-	-	-	-	-
731	-	-	-	-	-	-	-	-	-	-	-	-	-	-
732	-	-	-	-	-	-	-	-	-	-	-	-	-	-
733	-	-	-	-	-	-	-	-	-	-	-	-	-	-
734	-	-	-	-	-	-	-	-	-	-	-	-	-	-
735	-	-	-	-	-	-	-	-	1.1	2,586	-	-	-	-
736	-	-	-	-	-	-	-	-	0.0	29	-	-	-	-
738	-	-	-	-	-	-	-	-	21.7	49,832	-	-	-	-
739	-	-	-	-	-	-	-	-	38.1	87,571	-	-	-	-
740	-	-	-	-	-	-	-	-	66.5	153,034	-	-	-	-
741	4.2	6,626	-	-	-	-	-	-	40.3	92,796	-	-	-	-
742	-	-	-	-	-	-	-	-	19.0	43,803	-	-	-	-
743	-	-	-	-	-	-	-	-	30.2	69,475	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
744	-	-	-	-	-	-	-	-	-	-	-	-	-	-
745	-	-	-	-	-	-	-	-	2.7	6,195	-	-	-	-
747	-	-	-	-	-	-	-	-	-	-	-	-	-	-
748	-	-	-	-	-	-	-	-	74.4	171,089	-	-	-	-
749	-	-	-	-	-	-	-	-	-	-	-	-	-	-
750	-	-	-	-	-	-	-	-	-	-	-	-	-	-
751	-	-	-	-	-	-	0.0	39	-	-	-	-	-	-
752	-	-	-	-	-	-	-	-	-	-	-	-	-	-
753	-	-	-	-	-	-	-	-	-	-	-	-	-	-
754	-	-	-	-	-	-	4.7	7,531	-	-	-	-	-	-
755	-	-	-	-	-	-	-	-	0.1	328	-	-	-	-
756	-	-	-	-	-	-	-	-	-	-	-	-	-	-
757	-	-	-	-	-	-	-	-	-	-	-	-	-	-
758	-	-	-	-	-	-	-	-	7.8	17,845	-	-	-	-
759	-	-	-	-	-	-	-	-	-	-	-	-	-	-
760	-	-	-	-	-	-	13.0	20,871	-	-	-	-	-	-
761	-	-	-	-	-	-	-	-	-	-	-	-	-	-
762	-	-	-	-	-	-	-	-	-	-	-	-	-	-
763	-	-	-	-	-	-	-	-	-	-	-	-	-	-
764	-	-	-	-	-	-	-	-	-	-	-	-	-	-
765	1.0	1,618	-	-	-	-	-	-	-	-	-	-	-	-
766	0.0	53	-	-	-	-	-	-	-	-	-	-	-	-
767	-	-	-	-	-	-	-	-	-	-	-	-	-	-
768	2.5	3,980	-	-	-	-	-	-	-	-	-	-	-	-
769	-	-	-	-	-	-	-	-	-	-	-	-	-	-
770	-	-	-	-	-	-	-	-	-	-	-	-	-	-
771	-	-	-	-	-	-	-	-	-	-	-	-	-	-
772	-	-	-	-	-	-	-	-	-	-	-	-	-	-
773	-	-	-	-	-	-	-	-	-	-	-	-	-	-
774	-	-	-	-	-	-	-	-	-	-	-	-	-	-
775	-	-	-	-	-	-	-	-	-	-	-	-	-	-
776	-	-	-	-	-	-	-	-	-	-	-	-	-	-
777	-	-	-	-	-	-	-	-	-	-	-	-	-	-
778	32.5	52,032	-	-	-	-	-	-	-	-	-	-	-	-
779	-	-	-	-	-	-	-	-	-	-	-	-	-	-
780	13.7	21,899	-	-	-	-	-	-	-	-	-	-	-	-
781	-	-	-	-	-	-	-	-	-	-	-	-	-	-
782	-	-	-	-	-	-	-	-	-	-	-	-	-	-
783	-	-	-	-	-	-	-	-	-	-	-	-	-	-
784	-	-	-	-	-	-	-	-	-	-	-	-	-	-
785	-	-	-	-	-	-	-	-	-	-	-	-	-	-
786	-	-	-	-	-	-	-	-	-	-	-	-	-	-
787	-	-	-	-	-	-	-	-	-	-	-	-	-	-
788	-	-	-	-	-	-	-	-	-	-	-	-	-	-
789	-	-	-	-	-	-	-	-	-	-	-	-	-	-
790	-	-	-	-	-	-	19.2	30,669	-	-	-	-	-	-
791	-	-	-	-	-	-	-	-	-	-	-	-	-	-
792	-	-	-	-	-	-	-	-	-	-	-	-	-	-
793	-	-	-	-	-	-	-	-	-	-	-	-	-	-
794	-	-	-	-	-	-	-	-	-	-	-	-	-	-
795	-	-	-	-	-	-	-	-	-	-	-	-	-	-
796	19.9	31,810	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
797	-	-	-	-	-	-	16.1	25,794	-	-	-	-	-	-
798	-	-	-	-	-	-	0.1	85	-	-	-	-	-	-
799	-	-	-	-	-	-	-	-	-	-	-	-	-	-
800	-	-	-	-	-	-	0.0	10	-	-	-	-	-	-
801	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802	-	-	-	-	-	-	-	-	-	-	-	-	-	-
803	-	-	-	-	-	-	-	-	-	-	-	-	-	-
804	-	-	-	-	-	-	-	-	-	-	-	-	-	-
805	-	-	-	-	-	-	-	-	-	-	-	-	-	-
806	-	-	-	-	-	-	-	-	-	-	-	-	-	-
807	-	-	-	-	-	-	-	-	-	-	-	-	-	-
808	-	-	-	-	-	-	-	-	-	-	-	-	-	-
809	-	-	-	-	-	-	-	-	-	-	-	-	-	-
810	-	-	-	-	-	-	-	-	-	-	-	-	-	-
811	-	-	-	-	-	-	-	-	-	-	-	-	-	-
812	-	-	-	-	-	-	-	-	-	-	-	-	-	-
813	-	-	-	-	-	-	-	-	-	-	-	-	-	-
814	-	-	-	-	-	-	-	-	-	-	-	-	-	-
815	-	-	-	-	-	-	-	-	-	-	-	-	-	-
816	0.3	540	-	-	-	-	-	-	-	-	-	-	-	-
817	-	-	-	-	-	-	-	-	-	-	-	-	-	-
818	-	-	-	-	-	-	-	-	-	-	-	-	-	-
819	125.2	200,251	-	-	-	-	-	-	-	-	-	-	-	-
820	-	-	-	-	-	-	-	-	-	-	-	-	-	-
821	-	-	-	-	-	-	-	-	-	-	-	-	-	-
822	-	-	-	-	-	-	-	-	-	-	-	-	-	-
823	-	-	-	-	-	-	9.2	14,745	-	-	-	-	-	-
824	-	-	-	-	-	-	-	-	0.0	2	-	-	-	-
825	-	-	-	-	-	-	-	-	-	-	-	-	-	-
826	-	-	-	-	-	-	-	-	-	-	-	-	-	-
827	-	-	-	-	-	-	-	-	-	-	-	-	-	-
828	1.1	1,826	-	-	-	-	-	-	-	-	-	-	-	-
829	-	-	-	-	-	-	-	-	-	-	-	-	-	-
830	-	-	-	-	-	-	-	-	-	-	-	-	-	-
831	-	-	-	-	-	-	-	-	-	-	-	-	-	-
832	19.4	30,984	-	-	-	-	-	-	-	-	-	-	-	-
833	-	-	-	-	-	-	-	-	-	-	-	-	-	-
834	-	-	-	-	-	-	-	-	-	-	-	-	-	-
835	104.1	166,615	-	-	-	-	-	-	-	-	-	-	-	-
836	-	-	-	-	-	-	-	-	-	-	-	-	-	-
837	1.3	2,052	-	-	-	-	27.5	44,069	-	-	-	-	-	-
838	-	-	-	-	-	-	-	-	-	-	-	-	-	-
839	0.0	67	-	-	-	-	0.1	230	-	-	-	-	-	-
840	-	-	-	-	-	-	19.2	30,737	-	-	-	-	-	-
841	-	-	-	-	-	-	-	-	-	-	-	-	-	-
842	-	-	-	-	-	-	-	-	-	-	-	-	-	-
843	-	-	-	-	-	-	64.8	103,740	-	-	-	-	-	-
844	-	-	-	-	-	-	-	-	-	-	-	-	-	-
845	-	-	-	-	-	-	-	-	-	-	-	-	-	-
846	-	-	-	-	-	-	-	-	-	-	-	-	-	-
847	-	-	-	-	-	-	-	-	-	-	-	-	-	-
848	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
849	-	-	-	-	-	-	-	-	-	-	-	-	-	-
850	-	-	-	-	-	-	-	-	-	-	-	-	-	-
851	-	-	-	-	-	-	-	-	-	-	-	-	-	-
852	-	-	-	-	-	-	-	-	-	-	-	-	-	-
853	-	-	-	-	-	-	-	-	-	-	-	-	-	-
854	-	-	-	-	-	-	-	-	-	-	-	-	-	-
855	-	-	-	-	-	-	-	-	-	-	-	-	-	-
856	-	-	-	-	-	-	-	-	-	-	-	-	-	-
857	-	-	-	-	-	-	-	-	-	-	-	-	-	-
858	-	-	-	-	-	-	-	-	-	-	-	-	-	-
859	-	-	-	-	-	-	-	-	-	-	-	-	-	-
860	-	-	-	-	-	-	-	-	-	-	-	-	-	-
861	-	-	-	-	-	-	-	-	-	-	-	-	-	-
862	-	-	-	-	-	-	-	-	-	-	-	-	-	-
863	-	-	-	-	-	-	-	-	-	-	-	-	-	-
864	-	-	-	-	-	-	-	-	-	-	-	-	-	-
865	-	-	-	-	-	-	-	-	-	-	-	-	-	-
866	-	-	-	-	-	-	13.9	22,228	-	-	-	-	-	-
867	-	-	-	-	-	-	-	-	-	-	-	-	-	-
868	-	-	-	-	-	-	-	-	-	-	-	-	-	-
869	-	-	-	-	-	-	-	-	-	-	-	-	-	-
870	-	-	-	-	-	-	-	-	-	-	-	-	-	-
871	-	-	-	-	-	-	-	-	-	-	-	-	-	-
872	0.8	1,224	-	-	-	-	-	-	-	-	-	-	-	-
873	-	-	-	-	-	-	-	-	-	-	-	-	-	-
874	-	-	-	-	-	-	-	-	-	-	-	-	-	-
875	-	-	-	-	-	-	-	-	-	-	-	-	-	-
876	-	-	-	-	-	-	-	-	-	-	-	-	-	-
877	-	-	-	-	-	-	-	-	-	-	-	-	-	-
878	-	-	-	-	-	-	-	-	-	-	-	-	-	-
879	-	-	-	-	-	-	-	-	-	-	-	-	-	-
880	-	-	-	-	-	-	-	-	-	-	-	-	-	-
881	-	-	-	-	-	-	-	-	-	-	-	-	-	-
882	-	-	-	-	-	-	-	-	-	-	-	-	-	-
883	-	-	-	-	-	-	-	-	-	-	-	-	-	-
884	-	-	-	-	-	-	-	-	-	-	-	-	-	-
885	-	-	-	-	-	-	-	-	-	-	-	-	-	-
886	-	-	-	-	-	-	-	-	-	-	-	-	-	-
887	-	-	-	-	-	-	-	-	-	-	-	-	-	-
888	-	-	-	-	-	-	-	-	-	-	-	-	-	-
889	-	-	-	-	-	-	-	-	-	-	-	-	-	-
890	-	-	-	-	-	-	-	-	-	-	-	-	-	-
891	-	-	-	-	-	-	-	-	-	-	-	-	-	-
892	-	-	-	-	-	-	-	-	-	-	-	-	-	-
893	-	-	-	-	-	-	-	-	-	-	-	-	-	-
894	-	-	-	-	-	-	-	-	-	-	-	-	-	-
895	-	-	-	-	-	-	-	-	-	-	-	-	-	-
896	-	-	-	-	-	-	-	-	-	-	-	-	-	-
897	-	-	-	-	-	-	-	-	-	-	-	-	-	-
898	-	-	-	-	-	-	-	-	-	-	-	-	-	-
899	-	-	-	-	-	-	-	-	-	-	-	-	-	-
900	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
901	-	-	-	-	-	-	-	-	-	-	-	-	-	-
902	-	-	-	-	-	-	-	-	-	-	-	-	-	-
903	0.0	16	-	-	-	-	-	-	-	-	-	-	-	-
904	-	-	-	-	-	-	-	-	-	-	-	-	-	-
905	3.3	3,581	-	-	-	-	-	-	-	-	-	-	-	-
906	-	-	-	-	-	-	-	-	-	-	-	-	-	-
907	-	-	-	-	-	-	-	-	-	-	-	-	-	-
908	-	-	-	-	-	-	-	-	-	-	-	-	-	-
909	-	-	-	-	-	-	-	-	-	-	-	-	-	-
910	-	-	-	-	-	-	-	-	-	-	-	-	-	-
911	-	-	-	-	-	-	-	-	-	-	-	-	-	-
912	-	-	-	-	-	-	-	-	-	-	-	-	-	-
913	-	-	-	-	-	-	-	-	-	-	-	-	-	-
914	6.4	10,165	-	-	-	-	7.0	11,181	-	-	-	-	-	-
915	-	-	-	-	-	-	-	-	-	-	-	-	-	-
916	-	-	-	-	-	-	-	-	-	-	-	-	-	-
917	-	-	-	-	-	-	-	-	-	-	-	-	-	-
918	-	-	-	-	-	-	-	-	-	-	-	-	-	-
919	-	-	-	-	-	-	-	-	-	-	-	-	-	-
920	-	-	-	-	-	-	-	-	-	-	-	-	-	-
921	-	-	-	-	-	-	-	-	-	-	-	-	-	-
922	-	-	-	-	-	-	-	-	-	-	-	-	-	-
923	-	-	-	-	-	-	-	-	-	-	-	-	-	-
924	-	-	-	-	-	-	-	-	-	-	-	-	-	-
925	0.8	1,167	-	-	-	-	-	-	-	-	-	-	-	-
926	-	-	-	-	-	-	-	-	-	-	-	-	-	-
927	-	-	-	-	-	-	-	-	-	-	-	-	-	-
928	-	-	-	-	-	-	-	-	-	-	-	-	-	-
929	-	-	-	-	-	-	-	-	-	-	-	-	-	-
930	-	-	-	-	-	-	-	-	-	-	-	-	-	-
931	-	-	-	-	-	-	-	-	-	-	-	-	-	-
932	-	-	-	-	-	-	-	-	-	-	-	-	-	-
933	-	-	-	-	-	-	-	-	-	-	-	-	-	-
934	-	-	-	-	-	-	-	-	-	-	-	-	-	-
935	77.0	123,139	-	-	-	-	-	-	-	-	-	-	-	-
936	159.2	254,667	-	-	-	-	-	-	-	-	-	-	-	-
937	26.0	41,619	-	-	-	-	-	-	-	-	-	-	-	-
938	-	-	-	-	-	-	-	-	-	-	-	-	-	-
939	85.4	136,644	-	-	-	-	-	-	-	-	-	-	-	-
940	106.8	170,830	-	-	-	-	-	-	-	-	-	-	-	-
941	-	-	-	-	-	-	-	-	-	-	-	-	-	-
942	-	-	-	-	-	-	-	-	-	-	-	-	-	-
943	-	-	-	-	-	-	-	-	-	-	-	-	-	-
944	-	-	-	-	-	-	-	-	-	-	-	-	-	-
945	-	-	-	-	-	-	-	-	-	-	-	-	-	-
946	111.9	179,083	-	-	-	-	-	-	-	-	-	-	-	-
947	0.4	632	-	-	-	-	-	-	-	-	-	-	-	-
953	-	-	-	-	-	-	-	-	-	-	-	-	-	-
954	-	-	-	-	-	-	-	-	-	-	-	-	-	-
955	0.0	1	-	-	-	-	55.4	60,924	-	-	-	-	-	-
956	-	-	-	-	-	-	-	-	-	-	-	-	-	-
957	0.1	101	8.1	12,906	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
958	-	-	-	-	-	-	-	-	-	-	-	-	-	-
959	-	-	-	-	-	-	-	-	-	-	-	-	-	-
960	-	-	-	-	-	-	-	-	-	-	-	-	-	-
961	-	-	-	-	-	-	-	-	-	-	-	-	-	-
962	-	-	-	-	-	-	-	-	-	-	-	-	-	-
963	-	-	-	-	-	-	-	-	-	-	-	-	-	-
964	-	-	-	-	-	-	-	-	-	-	-	-	-	-
965	-	-	-	-	-	-	-	-	-	-	-	-	-	-
966	-	-	-	-	-	-	-	-	-	-	-	-	-	-
967	-	-	-	-	-	-	-	-	-	-	-	-	-	-
968	-	-	-	-	-	-	-	-	-	-	-	-	-	-
969	-	-	-	-	-	-	-	-	-	-	-	-	-	-
970	-	-	-	-	-	-	-	-	-	-	-	-	-	-
971	-	-	-	-	-	-	-	-	-	-	-	-	-	-
972	-	-	-	-	-	-	-	-	-	-	-	-	-	-
973	-	-	-	-	-	-	-	-	-	-	-	-	-	-
974	-	-	-	-	-	-	-	-	-	-	-	-	-	-
975	-	-	-	-	-	-	-	-	-	-	-	-	-	-
976	687.4	879,017	-	-	-	-	-	-	-	-	-	-	-	-
977	67.1	65	-	-	744.0	30	-	-	-	-	-	-	-	-
978	1,428.3	-	-	-	0.0	-	-	-	-	-	-	-	-	-
979	-	-	-	-	-	-	-	-	-	-	-	-	-	-
980	-	-	-	-	-	-	-	-	-	-	-	-	-	-
981	133.5	-	34.2	-	-	-	-	-	-	-	-	-	-	-
982	-	-	-	-	-	-	-	-	-	-	-	-	-	-
983	-	-	-	-	-	-	-	-	-	-	-	-	-	-
984	-	-	-	-	-	-	-	-	-	-	-	-	-	-
985	-	-	-	-	-	-	-	-	-	-	-	-	-	-
986	-	-	-	-	-	-	-	-	33.9	78,021	-	-	-	-
987	-	-	-	-	-	-	-	-	72.2	166,175	-	-	-	-
988	-	-	-	-	-	-	-	-	81.8	188,165	-	-	-	-
989	-	-	-	-	-	-	-	-	24.8	56,934	-	-	-	-
990	-	-	-	-	-	-	-	-	22.8	52,346	-	-	-	-
991	-	-	-	-	-	-	-	-	47.5	109,190	-	-	-	-
992	-	-	-	-	-	-	-	-	88.9	204,414	-	-	-	-
993	-	-	-	-	-	-	-	-	71.1	163,614	-	-	-	-
994	56.5	90,435	-	-	-	-	-	-	-	-	-	-	-	-
995	-	-	-	-	-	-	-	-	-	-	-	-	-	-
996	-	-	-	-	-	-	-	-	-	-	-	-	-	-
997	14.6	23,407	-	-	-	-	-	-	-	-	-	-	-	-
998	-	-	-	-	-	-	-	-	-	-	-	-	-	-
999	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1001	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1003	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1004	98.8	158,152	-	-	-	-	-	-	-	-	-	-	-	-
1005	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1006	127.4	140,196	-	-	-	-	-	-	-	-	-	-	-	-
1007	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1009	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1010	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1011	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1012	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1013	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1014	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1015	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1016	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1017	121.1	133,449	-	-	-	-	-	-	-	-	-	-	-	-
1018	108.4	119,270	-	-	-	-	-	-	-	-	-	-	-	-
1019	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1020	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1021	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1022	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1023	160.7	-	-	-	-	-	-	-	-	-	-	-	-	-
1024	162.1	17	-	-	-	-	-	-	-	-	-	-	-	-
1025	128.7	205,943	-	-	-	-	-	-	-	-	-	-	-	-
1026	93.9	-	-	-	-	-	-	-	-	-	-	-	-	-
1027	91.1	145,762	-	-	-	-	-	-	-	-	-	-	-	-
1028	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1029	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1030	0.1	123	-	-	-	-	-	-	-	-	-	-	-	-
1031	0.2	242	-	-	-	-	-	-	-	-	-	-	-	-
1032	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1033	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1034	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1035	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1036	-	-	-	-	-	-	19.5	31,202	-	-	-	-	-	-
1037	-	-	-	-	-	-	16.6	26,559	-	-	-	-	-	-
1038	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1039	-	-	-	-	-	-	18.9	30,182	-	-	-	-	-	-
1040	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1041	4.9	7,797	-	-	-	-	-	-	-	-	-	-	-	-
1042	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1043	5.7	9,130	-	-	-	-	-	-	-	-	-	-	-	-
1044	29.7	47,462	-	-	-	-	-	-	-	-	-	-	-	-
1045	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1046	-	-	-	-	-	-	19.0	30,382	-	-	-	-	-	-
1047	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1048	-	-	-	-	-	-	0.1	236	-	-	-	-	-	-
1049	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1050	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1051	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1052	24.8	10,869	-	-	-	-	-	-	-	-	-	-	-	-
1053	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1054	38.8	62,044	-	-	-	-	-	-	-	-	-	-	-	-
1055	0.0	3	-	-	-	-	-	-	-	-	-	-	-	-
1056	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1057	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1058	67.2	74,047	-	-	-	-	-	-	-	-	-	-	-	-
1059	59.5	95,266	-	-	-	-	-	-	-	-	-	-	-	-
1060	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1061	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1062	-	-	-	-	-	-	14.3	22,818	-	-	-	-	-	-
1063	-	-	-	-	-	-	-	-	10.4	23,832	-	-	-	-
1064	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1068	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1069	0.4	570	-	-	-	-	-	-	36.3	83,442	-	-	-	-
1070	-	-	-	-	-	-	7.5	12,001	-	-	-	-	-	-
1071	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1072	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1073	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1074	0.0	31	-	-	-	-	-	-	-	-	-	-	-	-
1075	-	-	-	-	-	-	-	-	8.8	20,224	-	-	-	-
1076	-	-	-	-	-	-	17.4	27,792	-	-	-	-	-	-
1077	-	-	-	-	-	-	1.1	1,749	-	-	-	-	-	-
1078	26.2	41,898	-	-	-	-	-	-	-	-	-	-	-	-
1079	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1080	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1081	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1082	-	-	-	-	-	-	21.3	34,085	-	-	-	-	-	-
1083	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1084	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1085	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1086	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1087	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1088	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1089	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1090	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1091	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1092	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1093	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1094	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1095	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1096	-	-	-	-	-	-	20.9	33,483	-	-	-	-	-	-
1097	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1098	-	-	-	-	-	-	16.0	25,668	-	-	-	-	-	-
1099	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1100	-	-	-	-	-	-	49.1	78,634	-	-	-	-	-	-
1101	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1102	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1103	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1104	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1105	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1106	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1108	-	-	-	-	-	-	3.8	6,017	-	-	-	-	-	-
1109	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1110	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1111	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1112	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1113	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1114	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1115	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1116	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Institutional		Institutional-Hospital		Institutional-No Water		Institutional-School		Mixed Use		Open Space		Open Space/Agriculture	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1117	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1118	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1119	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1120	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1121	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1122	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1123	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1124	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1125	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1126	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1127	0.3	468	-	-	-	-	-	-	-	-	-	-	-	-
1128	2.8	4,418	-	-	-	-	11.6	18,524	-	-	-	-	-	-
1129	0.0	13	-	-	-	-	0.0	75	-	-	-	-	-	-
1130	-	-	-	-	-	-	4.9	7,779	-	-	-	-	-	-
1131	-	-	-	-	-	-	-	-	2.3	5,314	-	-	-	-
1132	-	-	-	-	-	-	-	-	3.6	8,205	-	-	-	-
1133	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1134	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1135	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1136	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1137	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1138	-	-	-	-	-	-	1.4	2,238	-	-	-	-	-	-
1139	-	-	-	-	-	-	1.0	1,674	-	-	-	-	-	-
1140	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1141	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1142	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1143	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1144	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1145	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
0	-	-	-	-	-	-	-	-	-	-	-	-
1	-	-	0.0	0	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	0.4	98	1.8	442	89.4	21,456	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-	-	-	-
7	8.5	2,044	-	-	-	-	-	-	-	-	-	-
8	5.6	1,336	-	-	-	-	-	-	-	-	-	-
9	21.7	5,203	-	-	-	-	-	-	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	-	-
14	-	-	0.0	0	-	-	-	-	-	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-
16	-	-	-	-	1.0	241	-	-	-	-	-	-
17	6.0	1,450	-	-	-	-	-	-	-	-	-	-
18	10.2	2,443	-	-	-	-	-	-	-	-	-	-
20	0.1	19	-	-	4.4	1,067	-	-	-	-	-	-
21	-	-	-	-	-	-	-	-	-	-	-	-
22	-	-	0.0	7	-	-	0.5	119	-	-	-	-
23	4.7	1,133	-	-	-	-	-	-	-	-	-	-
24	0.1	25	-	-	-	-	-	-	-	-	-	-
25	0.3	61	-	-	-	-	-	-	-	-	-	-
26	-	-	-	-	-	-	-	-	-	-	-	-
29	1.3	306	-	-	-	-	-	-	-	-	-	-
30	40.1	9,617	-	-	-	-	-	-	-	-	-	-
31	-	-	-	-	-	-	-	-	-	-	-	-
32	-	-	-	-	-	-	-	-	-	-	-	-
33	-	-	-	-	-	-	-	-	-	-	-	-
35	-	-	-	-	-	-	-	-	-	-	-	-
36	5.7	1,370	-	-	-	-	-	-	-	-	-	-
37	-	-	-	-	-	-	-	-	-	-	-	-
38	-	-	-	-	-	-	-	-	-	-	-	-
39	0.0	3	-	-	3.6	853	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	-	-	-	-
41	9.6	2,310	-	-	-	-	-	-	-	-	-	-
42	1.3	304	-	-	-	-	-	-	-	-	-	-
43	6.6	1,590	-	-	-	-	-	-	-	-	-	-
44	-	-	-	-	-	-	-	-	-	-	-	-
45	0.8	198	-	-	-	-	-	-	-	-	-	-
49	-	-	-	-	-	-	-	-	-	-	-	-
50	-	-	-	-	-	-	-	-	-	-	-	-
51	-	-	-	-	-	-	-	-	-	-	-	-
52	-	-	-	-	-	-	-	-	-	-	-	-
53	-	-	-	-	-	-	-	-	-	-	-	-
55	3.8	912	-	-	-	-	-	-	-	-	-	-
56	0.0	0	-	-	0.1	27	-	-	-	-	-	-
57	0.0	9	-	-	6.7	1,617	-	-	-	-	-	-
58	-	-	-	-	-	-	-	-	-	-	-	-
59	0.8	189	-	-	5.4	1,296	-	-	-	-	-	-
60	-	-	-	-	-	-	-	-	-	-	-	-
62	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
63	-	-	-	-	-	-	-	-	-	-	-	-
64	-	-	-	-	-	-	-	-	-	-	-	-
65	0.0	0	-	-	-	-	-	-	-	-	-	-
66	0.0	1	-	-	-	-	-	-	-	-	-	-
67	-	-	-	-	-	-	-	-	-	-	-	-
68	-	-	-	-	-	-	-	-	-	-	-	-
69	-	-	-	-	-	-	-	-	-	-	-	-
70	-	-	-	-	-	-	-	-	-	-	-	-
71	-	-	-	-	-	-	-	-	-	-	-	-
72	-	-	-	-	-	-	-	-	-	-	-	-
73	-	-	-	-	-	-	-	-	-	-	-	-
75	0.7	161	-	-	-	-	-	-	-	-	-	-
77	0.0	0	-	-	-	-	-	-	-	-	-	-
78	-	-	-	-	-	-	-	-	-	-	-	-
79	-	-	-	-	-	-	-	-	-	-	-	-
80	-	-	-	-	-	-	-	-	-	-	-	-
81	6.2	1,493	-	-	-	-	-	-	-	-	-	-
82	-	-	-	-	-	-	-	-	-	-	-	-
83	-	-	-	-	-	-	-	-	-	-	-	-
84	-	-	-	-	-	-	-	-	-	-	-	-
85	1.6	392	-	-	-	-	-	-	-	-	-	-
86	-	-	-	-	-	-	-	-	-	-	-	-
87	-	-	-	-	-	-	-	-	-	-	-	-
88	-	-	-	-	-	-	-	-	-	-	-	-
91	-	-	-	-	-	-	-	-	-	-	-	-
92	0.1	21	-	-	-	-	-	-	-	-	-	-
93	-	-	-	-	-	-	-	-	-	-	-	-
94	-	-	-	-	-	-	-	-	-	-	-	-
95	-	-	-	-	-	-	-	-	-	-	-	-
96	0.7	175	-	-	-	-	-	-	-	-	-	-
97	9.4	2,252	-	-	-	-	-	-	-	-	-	-
98	-	-	-	-	-	-	-	-	-	-	-	-
99	-	-	-	-	-	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-	-	-	-	-
101	-	-	-	-	-	-	-	-	-	-	-	-
102	-	-	-	-	-	-	-	-	-	-	-	-
103	5.0	1,199	-	-	-	-	-	-	-	-	-	-
104	-	-	-	-	-	-	-	-	-	-	-	-
106	5.6	1,345	0.4	102	-	-	-	-	-	-	-	-
107	-	-	-	-	-	-	-	-	-	-	-	-
109	-	-	-	-	-	-	-	-	-	-	-	-
110	15.2	3,640	-	-	-	-	-	-	-	-	-	-
111	1.7	401	0.0	2	-	-	-	-	-	-	-	-
112	0.2	56	-	-	-	-	0.0	7	-	-	-	-
113	-	-	-	-	-	-	-	-	-	-	-	-
114	-	-	-	-	-	-	-	-	-	-	-	-
115	-	-	-	-	-	-	-	-	-	-	-	-
116	2.3	549	-	-	-	-	-	-	-	-	-	-
117	2.5	609	8.2	1,968	-	-	-	-	-	-	-	-
118	-	-	-	-	-	-	-	-	-	-	-	-
120	-	-	-	-	-	-	-	-	-	-	-	-
121	5.8	1,383	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
122	-	-	-	-	-	-	-	-	-	-	-	-
123	0.4	103	-	-	-	-	-	-	-	-	-	-
124	-	-	-	-	-	-	-	-	-	-	-	-
125	-	-	-	-	-	-	-	-	-	-	-	-
126	-	-	-	-	-	-	-	-	-	-	-	-
127	-	-	-	-	-	-	-	-	-	-	-	-
128	-	-	-	-	-	-	-	-	-	-	-	-
129	-	-	-	-	-	-	-	-	-	-	-	-
130	0.2	52	0.0	10	-	-	-	-	-	-	-	-
131	-	-	-	-	-	-	-	-	-	-	-	-
132	-	-	-	-	-	-	-	-	-	-	-	-
133	-	-	-	-	-	-	-	-	-	-	-	-
134	-	-	-	-	-	-	-	-	-	-	-	-
135	-	-	-	-	-	-	-	-	-	-	-	-
136	-	-	-	-	-	-	-	-	-	-	-	-
137	-	-	-	-	-	-	-	-	-	-	-	-
138	6.1	1,466	-	-	-	-	-	-	-	-	-	-
139	0.1	13	-	-	-	-	-	-	-	-	-	-
140	-	-	-	-	-	-	-	-	-	-	-	-
141	-	-	-	-	-	-	-	-	-	-	-	-
142	-	-	-	-	-	-	-	-	-	-	-	-
143	-	-	-	-	-	-	-	-	-	-	-	-
144	0.2	46	-	-	-	-	-	-	-	-	-	-
145	-	-	-	-	-	-	-	-	-	-	-	-
146	-	-	-	-	-	-	-	-	-	-	-	-
147	0.4	104	-	-	-	-	-	-	-	-	-	-
148	-	-	-	-	-	-	-	-	-	-	-	-
149	22.4	5,386	-	-	-	-	-	-	-	-	-	-
150	0.0	6	-	-	-	-	-	-	-	-	-	-
151	-	-	-	-	-	-	-	-	-	-	-	-
152	0.0	0	-	-	-	-	-	-	-	-	-	-
153	-	-	-	-	-	-	-	-	-	-	-	-
154	-	-	-	-	-	-	-	-	-	-	-	-
155	-	-	-	-	-	-	-	-	-	-	-	-
156	-	-	-	-	-	-	-	-	-	-	-	-
157	-	-	-	-	-	-	-	-	-	-	-	-
158	-	-	-	-	-	-	-	-	-	-	-	-
159	-	-	-	-	-	-	-	-	-	-	-	-
160	4.6	1,095	-	-	-	-	-	-	-	-	-	-
161	-	-	-	-	-	-	-	-	-	-	-	-
162	10.8	2,589	-	-	-	-	-	-	-	-	-	-
163	-	-	-	-	-	-	-	-	-	-	-	-
164	3.0	715	-	-	-	-	-	-	-	-	-	-
165	-	-	11.0	2,639	-	-	-	-	-	-	-	-
166	-	-	-	-	-	-	-	-	-	-	-	-
167	-	-	0.1	23	-	-	-	-	-	-	-	-
168	-	-	-	-	-	-	-	-	-	-	-	-
169	4.7	1,138	-	-	-	-	-	-	-	-	-	-
170	-	-	-	-	-	-	-	-	-	-	-	-
171	-	-	-	-	-	-	-	-	-	-	-	-
172	-	-	-	-	-	-	-	-	-	-	-	-
173	27.5	6,610	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
174	-	-	-	-	-	-	-	-	-	-	-	-
175	-	-	-	-	-	-	-	-	-	-	-	-
176	-	-	-	-	-	-	-	-	-	-	-	-
177	-	-	-	-	-	-	-	-	-	-	-	-
178	-	-	-	-	-	-	-	-	-	-	-	-
179	-	-	-	-	-	-	-	-	-	-	-	-
180	2.7	653	-	-	11.0	2,638	-	-	-	-	-	-
181	0.3	64	-	-	0.0	1	-	-	-	-	-	-
182	-	-	-	-	-	-	-	-	-	-	-	-
183	-	-	-	-	-	-	-	-	-	-	-	-
184	-	-	-	-	-	-	-	-	-	-	-	-
185	-	-	-	-	-	-	-	-	-	-	-	-
186	-	-	-	-	-	-	-	-	-	-	-	-
187	-	-	-	-	-	-	-	-	-	-	-	-
188	-	-	-	-	-	-	-	-	-	-	-	-
189	-	-	-	-	-	-	-	-	-	-	-	-
190	-	-	-	-	-	-	-	-	-	-	-	-
191	-	-	-	-	-	-	-	-	-	-	-	-
192	-	-	-	-	-	-	-	-	-	-	-	-
193	-	-	-	-	-	-	-	-	-	-	-	-
194	-	-	-	-	-	-	-	-	-	-	-	-
195	-	-	-	-	-	-	37.2	8,936	-	-	-	-
196	1.0	230	-	-	-	-	-	-	-	-	-	-
197	-	-	-	-	-	-	-	-	-	-	-	-
198	-	-	-	-	-	-	-	-	-	-	-	-
199	-	-	-	-	-	-	-	-	-	-	-	-
200	-	-	-	-	-	-	-	-	-	-	-	-
201	-	-	-	-	-	-	-	-	-	-	-	-
202	3.7	877	-	-	-	-	-	-	-	-	-	-
203	11.5	2,759	5.2	1,254	-	-	-	-	-	-	-	-
204	-	-	-	-	-	-	29.1	6,996	-	-	-	-
205	-	-	-	-	-	-	-	-	-	-	-	-
206	-	-	-	-	0.1	15	40.5	9,731	-	-	-	-
207	-	-	-	-	-	-	-	-	-	-	-	-
208	4.2	1,016	-	-	-	-	-	-	-	-	-	-
209	0.0	0	14.5	3,489	-	-	-	-	-	-	-	-
210	2.5	598	0.2	37	0.5	126	35.0	8,404	-	-	-	-
211	0.0	0	26.4	6,326	-	-	-	-	-	-	-	-
212	-	-	-	-	-	-	-	-	-	-	-	-
213	-	-	-	-	-	-	-	-	-	-	-	-
214	-	-	-	-	-	-	-	-	-	-	-	-
215	-	-	-	-	-	-	24.4	5,847	-	-	-	-
216	-	-	-	-	-	-	-	-	-	-	-	-
217	-	-	-	-	-	-	-	-	-	-	-	-
218	-	-	-	-	-	-	-	-	-	-	-	-
219	-	-	-	-	-	-	-	-	-	-	-	-
220	1.5	359	-	-	-	-	-	-	-	-	-	-
221	-	-	-	-	-	-	-	-	-	-	-	-
222	-	-	-	-	-	-	-	-	-	-	-	-
223	-	-	0.0	11	-	-	-	-	-	-	-	-
224	-	-	-	-	-	-	-	-	-	-	-	-
225	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
226	-	-	-	-	-	-	-	-	-	-	-	-
227	-	-	-	-	-	-	-	-	-	-	-	-
228	-	-	-	-	-	-	-	-	-	-	-	-
229	-	-	-	-	-	-	-	-	-	-	-	-
230	-	-	-	-	-	-	-	-	-	-	-	-
232	-	-	-	-	-	-	-	-	-	-	-	-
233	-	-	-	-	-	-	-	-	-	-	-	-
234	-	-	-	-	-	-	-	-	-	-	-	-
235	-	-	-	-	-	-	-	-	-	-	-	-
236	-	-	129.0	30,957	-	-	-	-	-	-	-	-
237	9.2	2,219	-	-	-	-	-	-	-	-	-	-
238	-	-	-	-	-	-	-	-	-	-	-	-
239	2.8	667	-	-	-	-	-	-	-	-	-	-
240	-	-	0.4	93	-	-	-	-	-	-	-	-
241	-	-	-	-	-	-	-	-	-	-	-	-
243	-	-	-	-	-	-	-	-	-	-	-	-
244	-	-	-	-	-	-	-	-	-	-	-	-
245	-	-	-	-	-	-	-	-	-	-	-	-
246	-	-	-	-	-	-	-	-	-	-	-	-
247	-	-	-	-	-	-	-	-	-	-	-	-
248	0.4	107	0.1	32	-	-	-	-	-	-	-	-
249	0.2	52	0.1	14	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-	-	-	-	-	-
251	-	-	-	-	-	-	-	-	-	-	-	-
252	-	-	-	-	-	-	-	-	-	-	-	-
253	-	-	-	-	-	-	-	-	-	-	-	-
254	9.6	2,301	-	-	-	-	-	-	-	-	-	-
255	-	-	-	-	-	-	-	-	-	-	-	-
256	-	-	-	-	-	-	-	-	-	-	-	-
257	-	-	-	-	-	-	-	-	-	-	-	-
258	0.0	5	-	-	-	-	-	-	-	-	-	-
259	-	-	-	-	-	-	-	-	-	-	-	-
260	-	-	-	-	-	-	-	-	-	-	-	-
261	-	-	-	-	-	-	-	-	-	-	-	-
262	-	-	-	-	-	-	-	-	-	-	-	-
263	0.0	5	22.5	5,400	-	-	-	-	-	-	-	-
264	-	-	-	-	-	-	-	-	-	-	-	-
265	-	-	-	-	-	-	-	-	-	-	-	-
266	2.4	569	-	-	-	-	-	-	-	-	-	-
267	4.8	1,150	-	-	-	-	-	-	-	-	-	-
268	0.2	53	0.1	14	-	-	-	-	-	-	-	-
269	-	-	-	-	-	-	-	-	-	-	-	-
270	1.0	232	-	-	-	-	-	-	-	-	-	-
271	-	-	-	-	-	-	-	-	-	-	-	-
272	1.2	297	-	-	-	-	-	-	-	-	-	-
273	-	-	-	-	-	-	-	-	-	-	-	-
274	2.2	534	-	-	-	-	-	-	-	-	-	-
275	0.0	1	0.1	18	-	-	-	-	-	-	-	-
276	-	-	-	-	-	-	-	-	-	-	-	-
277	-	-	-	-	-	-	-	-	-	-	-	-
278	6.4	1,524	0.6	142	-	-	-	-	-	-	-	-
279	0.7	172	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
280	-	-	-	-	-	-	-	-	-	-	-	-
281	-	-	-	-	-	-	-	-	-	-	-	-
282	-	-	-	-	-	-	-	-	-	-	-	-
284	-	-	-	-	-	-	-	-	-	-	-	-
285	-	-	-	-	-	-	-	-	-	-	-	-
286	-	-	-	-	-	-	-	-	-	-	-	-
287	5.3	1,262	-	-	4.6	1,113	-	-	-	-	-	-
288	-	-	-	-	-	-	-	-	-	-	-	-
289	-	-	-	-	-	-	-	-	-	-	-	-
290	-	-	-	-	-	-	-	-	-	-	-	-
291	-	-	-	-	-	-	-	-	-	-	-	-
292	-	-	-	-	-	-	-	-	-	-	-	-
293	-	-	-	-	-	-	-	-	-	-	-	-
294	-	-	-	-	-	-	-	-	-	-	-	-
295	2.3	558	-	-	-	-	-	-	-	-	-	-
296	0.0	11	-	-	-	-	-	-	-	-	-	-
297	-	-	-	-	-	-	-	-	-	-	-	-
298	-	-	-	-	-	-	-	-	-	-	-	-
299	2.5	591	-	-	-	-	-	-	-	-	-	-
300	-	-	-	-	-	-	-	-	-	-	-	-
301	-	-	-	-	-	-	-	-	-	-	-	-
302	-	-	-	-	-	-	-	-	-	-	-	-
303	2.8	678	-	-	-	-	-	-	-	-	-	-
304	-	-	-	-	-	-	-	-	-	-	-	-
305	-	-	-	-	-	-	-	-	-	-	-	-
306	-	-	-	-	-	-	-	-	-	-	-	-
307	-	-	-	-	-	-	-	-	-	-	-	-
308	-	-	-	-	-	-	-	-	-	-	-	-
309	-	-	-	-	-	-	-	-	-	-	-	-
310	-	-	-	-	-	-	-	-	-	-	-	-
311	-	-	-	-	-	-	-	-	-	-	-	-
312	3.0	712	-	-	-	-	-	-	-	-	-	-
313	2.1	512	-	-	-	-	-	-	-	-	-	-
314	-	-	-	-	-	-	-	-	-	-	-	-
315	-	-	-	-	-	-	-	-	-	-	-	-
316	-	-	-	-	-	-	-	-	-	-	-	-
317	-	-	-	-	-	-	-	-	-	-	-	-
318	-	-	-	-	-	-	-	-	-	-	-	-
319	-	-	-	-	-	-	-	-	-	-	-	-
321	-	-	-	-	-	-	-	-	-	-	-	-
322	-	-	-	-	-	-	-	-	-	-	-	-
323	-	-	-	-	-	-	-	-	-	-	-	-
324	-	-	-	-	-	-	-	-	-	-	-	-
325	-	-	-	-	-	-	-	-	-	-	-	-
326	-	-	-	-	-	-	-	-	-	-	-	-
327	-	-	-	-	-	-	-	-	-	-	-	-
328	-	-	-	-	-	-	-	-	-	-	-	-
329	-	-	-	-	-	-	-	-	-	-	-	-
330	-	-	-	-	-	-	-	-	-	-	-	-
331	-	-	-	-	-	-	-	-	-	-	-	-
332	-	-	-	-	-	-	-	-	-	-	-	-
333	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
334	-	-	-	-	-	-	-	-	-	-	-	-
335	-	-	-	-	-	-	-	-	-	-	-	-
336	-	-	-	-	-	-	-	-	-	-	-	-
337	-	-	-	-	-	-	-	-	-	-	-	-
338	13.8	-	-	-	-	-	-	-	-	-	-	-
339	-	-	-	-	-	-	-	-	-	-	-	-
340	-	-	-	-	-	-	-	-	-	-	-	-
341	-	-	-	-	-	-	-	-	-	-	-	-
342	-	-	-	-	-	-	-	-	-	-	-	-
343	0.6	-	-	-	-	-	-	-	-	-	-	-
344	0.0	0	-	-	-	-	-	-	-	-	-	-
345	-	-	-	-	-	-	-	-	-	-	-	-
346	-	-	-	-	-	-	-	-	-	-	-	-
347	0.1	36	-	-	12.8	3,080	-	-	-	-	-	-
348	-	-	-	-	-	-	-	-	-	-	-	-
349	-	-	-	-	-	-	-	-	-	-	-	-
350	-	-	-	-	-	-	-	-	-	-	-	-
351	-	-	-	-	-	-	-	-	-	-	-	-
352	-	-	-	-	-	-	-	-	-	-	-	-
353	0.2	52	-	-	0.0	0	-	-	-	-	-	-
354	0.2	-	-	-	-	-	-	-	-	-	-	-
355	-	-	-	-	-	-	-	-	-	-	-	-
356	-	-	-	-	-	-	-	-	-	-	-	-
357	0.7	-	-	-	16.6	-	-	-	-	-	-	-
358	-	-	-	-	-	-	-	-	-	-	-	-
359	-	-	-	-	-	-	-	-	-	-	-	-
360	-	-	-	-	-	-	-	-	-	-	-	-
361	-	-	-	-	-	-	-	-	-	-	-	-
362	-	-	-	-	-	-	-	-	-	-	-	-
363	-	-	-	-	-	-	-	-	-	-	-	-
364	-	-	-	-	-	-	-	-	-	-	-	-
365	6.2	1,499	-	-	-	-	-	-	-	-	-	-
366	0.0	2	-	-	-	-	-	-	-	-	-	-
367	-	-	-	-	-	-	-	-	-	-	-	-
368	-	-	-	-	-	-	-	-	-	-	-	-
369	-	-	-	-	-	-	-	-	-	-	-	-
370	-	-	-	-	-	-	-	-	-	-	-	-
371	0.0	5	-	-	9.7	2,328	-	-	-	-	-	-
372	3.2	-	0.5	-	-	-	-	-	-	-	-	-
373	0.4	-	-	-	-	-	-	-	-	-	-	-
374	-	-	-	-	-	-	-	-	-	-	-	-
375	10.3	-	-	-	-	-	-	-	-	-	-	-
376	-	-	-	-	-	-	-	-	-	-	-	-
377	-	-	-	-	-	-	-	-	-	-	-	-
378	-	-	-	-	-	-	-	-	-	-	-	-
380	4.7	1,127	-	-	-	-	73.3	17,600	-	-	-	-
381	-	-	-	-	-	-	-	-	-	-	-	-
382	-	-	-	-	-	-	-	-	-	-	-	-
383	0.1	13	-	-	-	-	-	-	-	-	-	-
385	-	-	-	-	-	-	-	-	-	-	-	-
386	0.2	47	-	-	-	-	-	-	-	-	-	-
387	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
388	2.0	-	-	-	-	-	-	-	-	-	-	-
389	-	-	-	-	-	-	-	-	-	-	-	-
390	-	-	-	-	-	-	-	-	-	-	-	-
391	-	-	-	-	-	-	-	-	-	-	-	-
392	-	-	-	-	-	-	-	-	-	-	-	-
393	-	-	-	-	-	-	-	-	-	-	-	-
394	-	-	-	-	-	-	-	-	-	-	-	-
395	1.0	-	-	-	-	-	0.0	-	-	-	-	-
396	-	-	-	-	-	-	-	-	-	-	-	-
397	1.1	-	-	-	-	-	0.0	-	-	-	-	-
398	-	-	-	-	-	-	-	-	-	-	-	-
399	-	-	-	-	-	-	-	-	-	-	-	-
400	-	-	-	-	-	-	-	-	-	-	-	-
401	-	-	-	-	-	-	-	-	-	-	-	-
402	-	-	-	-	-	-	-	-	-	-	-	-
403	0.1	25	-	-	-	-	-	-	-	-	-	-
404	0.3	74	-	-	5.4	1,286	-	-	-	-	-	-
405	16.2	1,131	-	-	-	-	96.7	2,986	-	-	-	-
406	-	-	-	-	-	-	-	-	-	-	-	-
408	-	-	-	-	-	-	-	-	-	-	-	-
409	-	-	-	-	-	-	-	-	-	-	-	-
410	1.3	-	-	-	-	-	-	-	-	-	-	-
411	-	-	-	-	-	-	-	-	-	-	-	-
412	-	-	-	-	-	-	-	-	-	-	-	-
413	7.1	-	-	-	-	-	-	-	-	-	-	-
414	-	-	-	-	-	-	-	-	-	-	-	-
415	-	-	-	-	-	-	-	-	-	-	-	-
416	-	-	-	-	-	-	-	-	-	-	-	-
417	-	-	-	-	-	-	-	-	-	-	-	-
418	-	-	-	-	-	-	-	-	-	-	-	-
419	-	-	-	-	-	-	-	-	-	-	-	-
420	-	-	-	-	-	-	-	-	-	-	-	-
421	0.2	46	-	-	0.3	79	-	-	-	-	-	-
422	-	-	-	-	-	-	-	-	-	-	-	-
423	-	-	-	-	-	-	-	-	-	-	-	-
424	-	-	-	-	-	-	-	-	-	-	-	-
425	-	-	-	-	-	-	-	-	-	-	-	-
426	-	-	-	-	-	-	-	-	-	-	-	-
427	-	-	-	-	-	-	-	-	-	-	-	-
428	-	-	-	-	0.1	28	-	-	-	-	-	-
429	-	-	-	-	-	-	-	-	-	-	-	-
430	-	-	-	-	-	-	-	-	-	-	-	-
431	-	-	-	-	-	-	-	-	-	-	-	-
432	-	-	-	-	-	-	-	-	-	-	-	-
433	-	-	-	-	-	-	-	-	-	-	-	-
434	-	-	-	-	-	-	-	-	-	-	-	-
435	-	-	-	-	-	-	-	-	-	-	-	-
436	-	-	-	-	-	-	-	-	-	-	-	-
437	0.2	44	-	-	23.8	5,701	-	-	-	-	-	-
438	-	-	-	-	-	-	-	-	-	-	-	-
439	-	-	-	-	-	-	-	-	-	-	-	-
440	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
441	-	-	-	-	-	-	-	-	-	-	-	-
442	-	-	-	-	-	-	-	-	-	-	-	-
443	-	-	-	-	-	-	-	-	-	-	-	-
444	-	-	-	-	-	-	-	-	-	-	-	-
445	-	-	-	-	-	-	-	-	-	-	-	-
446	5.9	1,405	1.2	291	2.3	556	-	-	-	-	-	-
447	-	-	-	-	-	-	-	-	-	-	-	-
448	-	-	-	-	-	-	-	-	-	-	-	-
451	0.2	54	-	-	-	-	-	-	-	-	-	-
452	-	-	-	-	-	-	-	-	-	-	-	-
453	-	-	-	-	-	-	-	-	-	-	-	-
508	-	-	-	-	-	-	-	-	-	-	-	-
509	22.1	5,311	167.2	40,122	-	-	-	-	-	-	-	-
510	-	-	-	-	-	-	-	-	-	-	-	-
511	-	-	-	-	-	-	-	-	-	-	-	-
512	-	-	-	-	-	-	-	-	-	-	-	-
513	-	-	-	-	-	-	-	-	-	-	-	-
514	-	-	-	-	-	-	-	-	-	-	-	-
515	-	-	-	-	-	-	-	-	-	-	-	-
516	0.1	31	-	-	-	-	-	-	-	-	-	-
517	0.5	115	-	-	-	-	-	-	-	-	-	-
518	1.7	414	0.0	0	-	-	0.1	30	-	-	-	-
519	0.5	125	0.3	62	-	-	-	-	-	-	-	-
520	0.1	24	0.0	3	-	-	-	-	-	-	-	-
521	-	-	-	-	-	-	-	-	-	-	-	-
522	-	-	-	-	-	-	-	-	-	-	-	-
523	-	-	2.2	518	-	-	-	-	-	-	-	-
524	1.6	381	161.3	38,722	-	-	39.2	9,397	-	-	-	-
525	0.0	1	1.8	432	-	-	-	-	-	-	-	-
526	0.0	1	4.5	1,083	-	-	-	-	-	-	-	-
527	0.0	0	4.7	1,128	-	-	-	-	-	-	-	-
528	-	-	-	-	-	-	-	-	-	-	-	-
529	-	-	-	-	-	-	-	-	-	-	-	-
530	15.3	3,667	-	-	-	-	-	-	-	-	-	-
531	-	-	-	-	-	-	-	-	-	-	-	-
532	-	-	-	-	-	-	-	-	-	-	-	-
533	0.7	171	-	-	-	-	-	-	-	-	-	-
534	1.8	424	-	-	-	-	-	-	-	-	-	-
535	-	-	-	-	-	-	-	-	-	-	-	-
536	-	-	-	-	-	-	-	-	-	-	-	-
537	-	-	-	-	-	-	-	-	-	-	-	-
538	0.0	0	-	-	-	-	-	-	-	-	-	-
539	-	-	-	-	-	-	-	-	-	-	-	-
540	-	-	-	-	-	-	-	-	-	-	-	-
541	-	-	-	-	-	-	-	-	-	-	-	-
542	-	-	-	-	-	-	-	-	-	-	-	-
543	-	-	-	-	-	-	-	-	-	-	-	-
544	-	-	-	-	-	-	-	-	-	-	-	-
545	0.6	155	6.1	1,473	-	-	-	-	-	-	-	-
546	-	-	-	-	-	-	-	-	-	-	-	-
547	3.3	791	-	-	-	-	-	-	-	-	-	-
548	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
549	-	-	-	-	-	-	-	-	-	-	-	-
550	2.1	507	-	-	-	-	-	-	-	-	-	-
551	-	-	-	-	-	-	-	-	-	-	-	-
552	-	-	-	-	-	-	-	-	-	-	-	-
553	-	-	-	-	-	-	-	-	-	-	-	-
554	-	-	-	-	-	-	-	-	-	-	-	-
555	-	-	-	-	-	-	-	-	-	-	-	-
556	-	-	-	-	-	-	-	-	-	-	-	-
557	-	-	-	-	-	-	-	-	-	-	-	-
558	-	-	-	-	-	-	-	-	-	-	-	-
559	-	-	-	-	-	-	-	-	-	-	-	-
560	-	-	-	-	-	-	-	-	-	-	-	-
561	-	-	0.1	23	-	-	-	-	-	-	-	-
562	-	-	-	-	-	-	-	-	-	-	-	-
563	-	-	-	-	-	-	-	-	-	-	-	-
564	-	-	-	-	-	-	-	-	-	-	-	-
565	-	-	-	-	-	-	-	-	-	-	-	-
566	-	-	-	-	-	-	-	-	-	-	-	-
567	-	-	-	-	-	-	-	-	-	-	-	-
568	-	-	-	-	-	-	-	-	-	-	-	-
569	27.1	6,508	-	-	-	-	-	-	-	-	-	-
570	6.1	1,457	-	-	-	-	-	-	-	-	-	-
571	2.7	648	-	-	2.1	514	-	-	-	-	-	-
572	-	-	0.1	31	-	-	-	-	-	-	-	-
573	-	-	-	-	-	-	-	-	-	-	-	-
574	-	-	-	-	-	-	-	-	-	-	-	-
576	-	-	-	-	-	-	-	-	-	-	-	-
579	0.7	169	-	-	-	-	-	-	-	-	-	-
580	1.7	400	-	-	-	-	-	-	-	-	-	-
581	0.1	12	-	-	3.8	916	-	-	-	-	-	-
582	-	-	-	-	-	-	-	-	-	-	-	-
583	-	-	-	-	-	-	-	-	-	-	-	-
584	-	-	-	-	-	-	-	-	-	-	-	-
585	-	-	-	-	-	-	-	-	-	-	-	-
586	0.0	11	-	-	2.5	606	-	-	-	-	-	-
587	-	-	-	-	-	-	-	-	-	-	-	-
589	-	-	-	-	-	-	-	-	-	-	-	-
590	-	-	-	-	-	-	-	-	-	-	-	-
591	64.6	15,505	-	-	-	-	-	-	-	-	-	-
592	-	-	-	-	-	-	-	-	-	-	-	-
593	-	-	-	-	-	-	-	-	-	-	-	-
594	1.0	234	-	-	-	-	-	-	-	-	-	-
596	17.7	4,247	-	-	-	-	-	-	-	-	-	-
597	-	-	-	-	-	-	-	-	-	-	-	-
598	-	-	-	-	-	-	-	-	-	-	-	-
599	-	-	-	-	-	-	-	-	-	-	-	-
600	-	-	-	-	-	-	-	-	-	-	-	-
601	-	-	-	-	-	-	-	-	-	-	-	-
602	-	-	-	-	-	-	-	-	-	-	-	-
603	-	-	-	-	-	-	-	-	-	-	-	-
604	-	-	-	-	-	-	-	-	-	-	-	-
605	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
606	-	-	-	-	-	-	-	-	-	-	-	-
607	-	-	-	-	-	-	-	-	-	-	-	-
608	-	-	-	-	-	-	-	-	-	-	-	-
609	-	-	-	-	-	-	-	-	-	-	-	-
610	-	-	-	-	-	-	-	-	-	-	-	-
611	-	-	-	-	-	-	-	-	-	-	-	-
612	-	-	-	-	-	-	-	-	-	-	-	-
617	-	-	-	-	-	-	-	-	-	-	-	-
620	0.0	1	-	-	5.5	1,324	-	-	-	-	-	-
621	-	-	0.0	0	-	-	-	-	-	-	-	-
623	1.6	392	17.8	4,276	-	-	-	-	-	-	-	-
624	-	-	-	-	-	-	-	-	-	-	-	-
625	-	-	0.0	4	-	-	-	-	-	-	-	-
626	-	-	-	-	-	-	-	-	-	-	-	-
627	-	-	0.2	45	-	-	-	-	-	-	-	-
628	-	-	-	-	-	-	-	-	-	-	-	-
629	-	-	-	-	-	-	-	-	-	-	-	-
630	-	-	-	-	-	-	-	-	-	-	-	-
631	-	-	-	-	-	-	-	-	-	-	-	-
632	-	-	-	-	-	-	-	-	-	-	-	-
633	-	-	-	-	-	-	-	-	-	-	-	-
634	-	-	-	-	-	-	-	-	-	-	-	-
635	1.3	-	-	-	-	-	-	-	-	-	-	-
636	1.6	50	-	-	-	-	-	-	-	-	-	-
637	0.8	191	-	-	-	-	-	-	-	-	-	-
638	-	-	-	-	-	-	-	-	-	-	-	-
639	0.2	55	-	-	4.7	1,132	-	-	-	-	-	-
640	-	-	-	-	-	-	-	-	-	-	-	-
641	-	-	-	-	-	-	-	-	-	-	-	-
642	-	-	-	-	-	-	-	-	-	-	-	-
643	-	-	-	-	-	-	-	-	-	-	-	-
644	-	-	-	-	-	-	-	-	-	-	-	-
646	-	-	-	-	-	-	-	-	-	-	-	-
647	-	-	-	-	-	-	-	-	-	-	-	-
650	-	-	-	-	-	-	-	-	-	-	-	-
652	-	-	-	-	-	-	-	-	-	-	-	-
653	-	-	-	-	-	-	-	-	-	-	-	-
654	-	-	-	-	-	-	-	-	-	-	-	-
655	-	-	-	-	-	-	-	-	-	-	-	-
656	-	-	-	-	-	-	-	-	-	-	-	-
659	-	-	-	-	-	-	-	-	-	-	-	-
660	4.5	1,069	-	-	0.2	50	-	-	-	-	-	-
661	-	-	-	-	-	-	-	-	-	-	-	-
662	1.1	254	-	-	-	-	-	-	-	-	-	-
663	2.3	552	-	-	-	-	-	-	-	-	-	-
664	-	-	-	-	-	-	-	-	-	-	-	-
666	7.0	1,685	-	-	-	-	-	-	-	-	-	-
667	0.6	143	-	-	-	-	-	-	-	-	-	-
670	-	-	-	-	-	-	-	-	-	-	-	-
671	-	-	-	-	-	-	-	-	-	-	-	-
673	-	-	-	-	-	-	-	-	-	-	-	-
675	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
678	-	-	-	-	-	-	-	-	-	-	-	-
679	-	-	-	-	-	-	-	-	-	-	-	-
681	-	-	-	-	-	-	-	-	-	-	-	-
683	-	-	-	-	-	-	-	-	-	-	-	-
686	-	-	-	-	-	-	-	-	-	-	-	-
689	-	-	-	-	-	-	-	-	-	-	-	-
690	-	-	-	-	-	-	-	-	-	-	-	-
692	-	-	-	-	-	-	-	-	-	-	-	-
693	-	-	-	-	-	-	-	-	-	-	-	-
694	1.2	285	-	-	14.4	3,450	-	-	-	-	-	-
695	-	-	-	-	-	-	-	-	-	-	-	-
697	-	-	-	-	-	-	-	-	-	-	-	-
698	-	-	-	-	-	-	-	-	-	-	-	-
699	-	-	-	-	-	-	-	-	-	-	-	-
700	-	-	-	-	-	-	-	-	-	-	-	-
701	-	-	-	-	-	-	-	-	-	-	-	-
702	-	-	-	-	-	-	-	-	-	-	-	-
703	-	-	-	-	-	-	-	-	-	-	-	-
704	-	-	-	-	-	-	-	-	-	-	-	-
705	-	-	-	-	-	-	-	-	-	-	-	-
706	-	-	-	-	-	-	-	-	-	-	-	-
707	-	-	-	-	-	-	-	-	-	-	-	-
708	-	-	-	-	-	-	-	-	-	-	-	-
709	-	-	-	-	-	-	-	-	-	-	-	-
710	-	-	-	-	-	-	-	-	-	-	-	-
714	-	-	-	-	-	-	-	-	-	-	-	-
715	-	-	-	-	-	-	-	-	-	-	-	-
717	-	-	-	-	-	-	-	-	-	-	-	-
719	-	-	-	-	-	-	-	-	-	-	-	-
720	0.2	55	-	-	-	-	-	-	-	-	-	-
721	-	-	-	-	-	-	-	-	-	-	-	-
722	-	-	-	-	-	-	-	-	-	-	-	-
723	-	-	-	-	-	-	-	-	-	-	-	-
724	-	-	-	-	-	-	-	-	-	-	-	-
725	-	-	-	-	-	-	-	-	-	-	-	-
726	3.0	717	-	-	-	-	-	-	-	-	-	-
727	10.0	2,403	-	-	-	-	-	-	-	-	-	-
728	-	-	-	-	-	-	-	-	-	-	-	-
729	6.5	1,558	-	-	-	-	-	-	-	-	-	-
730	-	-	-	-	-	-	-	-	-	-	-	-
731	-	-	-	-	-	-	-	-	-	-	-	-
732	-	-	-	-	-	-	-	-	-	-	-	-
733	-	-	-	-	-	-	-	-	-	-	-	-
734	-	-	-	-	-	-	-	-	-	-	-	-
735	5.0	1,200	-	-	-	-	-	-	-	-	-	-
736	0.2	55	-	-	-	-	-	-	-	-	-	-
738	18.6	4,470	-	-	-	-	-	-	-	-	-	-
739	-	-	-	-	-	-	-	-	-	-	-	-
740	-	-	-	-	-	-	-	-	-	-	-	-
741	-	-	-	-	-	-	-	-	-	-	-	-
742	-	-	-	-	-	-	-	-	-	-	-	-
743	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
744	-	-	-	-	-	-	-	-	-	-	-	-
745	-	-	-	-	-	-	-	-	-	-	-	-
747	-	-	-	-	-	-	-	-	-	-	-	-
748	-	-	-	-	-	-	-	-	-	-	-	-
749	-	-	-	-	-	-	-	-	-	-	-	-
750	-	-	-	-	-	-	-	-	-	-	-	-
751	4.6	1,102	-	-	0.0	3	-	-	-	-	-	-
752	-	-	-	-	-	-	-	-	-	-	-	-
753	-	-	-	-	-	-	-	-	-	-	-	-
754	6.5	1,556	-	-	-	-	-	-	-	-	-	-
755	3.1	740	-	-	-	-	-	-	-	-	-	-
756	-	-	-	-	-	-	-	-	-	-	-	-
757	-	-	-	-	-	-	-	-	-	-	-	-
758	5.2	1,253	-	-	-	-	-	-	-	-	-	-
759	7.1	1,714	-	-	-	-	-	-	-	-	-	-
760	2.9	704	-	-	-	-	-	-	-	-	-	-
761	-	-	-	-	-	-	-	-	-	-	-	-
762	-	-	-	-	-	-	-	-	-	-	-	-
763	-	-	-	-	-	-	-	-	-	-	-	-
764	-	-	-	-	-	-	-	-	-	-	-	-
765	-	-	-	-	-	-	-	-	-	-	-	-
766	-	-	-	-	-	-	-	-	-	-	-	-
767	-	-	-	-	-	-	-	-	-	-	-	-
768	-	-	-	-	-	-	-	-	-	-	-	-
769	-	-	-	-	-	-	-	-	-	-	-	-
770	-	-	-	-	-	-	-	-	-	-	-	-
771	-	-	-	-	-	-	-	-	-	-	-	-
772	-	-	-	-	-	-	-	-	-	-	-	-
773	-	-	-	-	-	-	-	-	-	-	-	-
774	-	-	-	-	-	-	-	-	-	-	-	-
775	-	-	-	-	-	-	-	-	-	-	-	-
776	2.5	595	-	-	-	-	-	-	-	-	-	-
777	-	-	-	-	-	-	-	-	-	-	-	-
778	-	-	-	-	-	-	-	-	-	-	-	-
779	-	-	-	-	-	-	-	-	-	-	-	-
780	-	-	-	-	-	-	0.2	49	-	-	-	-
781	1.7	417	-	-	-	-	-	-	-	-	-	-
782	5.2	1,239	-	-	-	-	-	-	-	-	-	-
783	2.6	628	-	-	-	-	-	-	-	-	-	-
784	5.0	1,204	-	-	-	-	-	-	-	-	-	-
785	1.1	265	-	-	-	-	-	-	-	-	-	-
786	4.3	1,039	-	-	-	-	-	-	-	-	-	-
787	4.8	1,154	-	-	-	-	-	-	-	-	-	-
788	28.9	6,935	-	-	-	-	-	-	-	-	-	-
789	20.4	4,898	-	-	-	-	-	-	-	-	-	-
790	10.8	2,581	-	-	-	-	-	-	-	-	-	-
791	-	-	-	-	-	-	-	-	-	-	-	-
792	13.8	3,307	-	-	-	-	-	-	-	-	-	-
793	15.8	3,784	-	-	-	-	-	-	-	-	-	-
794	10.1	2,412	-	-	-	-	-	-	-	-	-	-
795	6.7	1,611	-	-	-	-	-	-	-	-	-	-
796	58.7	14,095	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
797	5.1	1,221	-	-	-	-	-	-	-	-	-	-
798	-	-	-	-	-	-	-	-	-	-	-	-
799	2.9	699	-	-	-	-	-	-	-	-	-	-
800	27.9	6,697	-	-	-	-	-	-	-	-	-	-
801	-	-	-	-	-	-	-	-	-	-	-	-
802	-	-	-	-	-	-	-	-	-	-	-	-
803	-	-	-	-	-	-	-	-	-	-	-	-
804	-	-	-	-	-	-	-	-	-	-	-	-
805	-	-	-	-	-	-	-	-	-	-	-	-
806	-	-	-	-	-	-	-	-	-	-	-	-
807	-	-	-	-	-	-	-	-	-	-	-	-
808	3.5	848	-	-	-	-	-	-	-	-	-	-
809	-	-	-	-	-	-	-	-	-	-	-	-
810	-	-	-	-	-	-	-	-	-	-	-	-
811	0.0	5	-	-	-	-	-	-	-	-	-	-
812	-	-	-	-	-	-	-	-	-	-	-	-
813	-	-	-	-	-	-	-	-	-	-	-	-
814	-	-	-	-	-	-	-	-	-	-	-	-
815	-	-	-	-	-	-	-	-	-	-	-	-
816	-	-	-	-	-	-	-	-	-	-	-	-
817	-	-	-	-	-	-	-	-	-	-	-	-
818	-	-	-	-	-	-	-	-	-	-	-	-
819	-	-	-	-	-	-	-	-	-	-	-	-
820	-	-	-	-	-	-	-	-	-	-	-	-
821	-	-	-	-	-	-	-	-	-	-	-	-
822	-	-	-	-	-	-	39.3	9,433	-	-	-	-
823	16.1	3,864	-	-	-	-	-	-	-	-	-	-
824	1.4	342	-	-	-	-	-	-	-	-	-	-
825	-	-	-	-	-	-	-	-	-	-	-	-
826	-	-	-	-	-	-	-	-	-	-	-	-
827	-	-	-	-	-	-	-	-	-	-	-	-
828	-	-	-	-	-	-	-	-	-	-	-	-
829	-	-	-	-	-	-	-	-	-	-	-	-
830	-	-	-	-	-	-	-	-	-	-	-	-
831	-	-	-	-	-	-	-	-	-	-	-	-
832	-	-	-	-	-	-	-	-	-	-	-	-
833	-	-	-	-	-	-	-	-	-	-	-	-
834	5.7	1,375	-	-	-	-	-	-	-	-	-	-
835	4.8	1,154	-	-	-	-	-	-	-	-	-	-
836	-	-	-	-	-	-	-	-	-	-	-	-
837	-	-	-	-	-	-	-	-	-	-	-	-
838	21.1	5,063	-	-	-	-	-	-	-	-	-	-
839	7.2	1,718	-	-	-	-	-	-	-	-	-	-
840	18.6	4,465	-	-	-	-	-	-	-	-	-	-
841	49.4	11,861	-	-	-	-	-	-	-	-	-	-
842	-	-	-	-	-	-	-	-	-	-	-	-
843	2.6	612	-	-	-	-	-	-	-	-	-	-
844	-	-	-	-	-	-	-	-	-	-	-	-
845	-	-	-	-	-	-	-	-	-	-	-	-
846	-	-	-	-	-	-	-	-	-	-	-	-
847	-	-	-	-	-	-	-	-	-	-	-	-
848	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
849	-	-	-	-	-	-	-	-	-	-	-	-
850	-	-	-	-	-	-	-	-	-	-	-	-
851	-	-	-	-	-	-	-	-	-	-	-	-
852	-	-	-	-	-	-	-	-	-	-	-	-
853	-	-	-	-	-	-	-	-	-	-	-	-
854	-	-	-	-	-	-	-	-	-	-	-	-
855	-	-	-	-	-	-	-	-	-	-	-	-
856	-	-	-	-	-	-	-	-	-	-	-	-
857	-	-	-	-	-	-	-	-	-	-	-	-
858	-	-	-	-	-	-	-	-	-	-	-	-
859	-	-	-	-	-	-	-	-	-	-	-	-
860	-	-	-	-	-	-	-	-	-	-	-	-
861	-	-	-	-	-	-	-	-	-	-	-	-
862	-	-	-	-	-	-	-	-	-	-	-	-
863	-	-	-	-	-	-	-	-	-	-	-	-
864	-	-	-	-	-	-	-	-	-	-	-	-
865	-	-	-	-	-	-	-	-	-	-	-	-
866	16.2	3,898	-	-	-	-	-	-	-	-	-	-
867	-	-	-	-	-	-	-	-	-	-	-	-
868	-	-	-	-	-	-	-	-	-	-	-	-
869	-	-	-	-	-	-	-	-	-	-	-	-
870	-	-	-	-	-	-	-	-	-	-	-	-
871	-	-	-	-	-	-	-	-	-	-	-	-
872	-	-	-	-	-	-	-	-	-	-	-	-
873	-	-	-	-	-	-	-	-	-	-	-	-
874	-	-	-	-	-	-	-	-	-	-	-	-
875	-	-	-	-	-	-	-	-	-	-	-	-
876	-	-	-	-	-	-	-	-	-	-	-	-
877	-	-	-	-	-	-	-	-	-	-	-	-
878	-	-	-	-	-	-	-	-	-	-	-	-
879	-	-	-	-	-	-	-	-	-	-	-	-
880	-	-	-	-	-	-	-	-	-	-	-	-
881	-	-	-	-	-	-	-	-	-	-	-	-
882	-	-	-	-	-	-	-	-	-	-	-	-
883	-	-	-	-	-	-	-	-	-	-	-	-
884	-	-	-	-	-	-	-	-	-	-	-	-
885	-	-	-	-	-	-	-	-	-	-	-	-
886	-	-	-	-	-	-	-	-	-	-	-	-
887	-	-	-	-	-	-	-	-	-	-	-	-
888	-	-	-	-	-	-	-	-	-	-	-	-
889	-	-	-	-	-	-	-	-	-	-	-	-
890	-	-	-	-	-	-	-	-	-	-	-	-
891	-	-	-	-	-	-	-	-	-	-	-	-
892	-	-	-	-	-	-	-	-	-	-	-	-
893	-	-	-	-	-	-	-	-	-	-	-	-
894	-	-	-	-	-	-	-	-	-	-	-	-
895	-	-	-	-	-	-	-	-	-	-	-	-
896	-	-	-	-	-	-	-	-	-	-	-	-
897	-	-	-	-	-	-	-	-	-	-	-	-
898	-	-	-	-	-	-	-	-	-	-	-	-
899	-	-	-	-	-	-	-	-	-	-	-	-
900	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
901	-	-	-	-	-	-	-	-	-	-	-	-
902	6.4	1,542	-	-	-	-	-	-	-	-	-	-
903	-	-	-	-	-	-	-	-	-	-	-	-
904	-	-	-	-	-	-	-	-	-	-	-	-
905	-	-	-	-	-	-	-	-	-	-	-	-
906	-	-	-	-	-	-	-	-	-	-	-	-
907	-	-	-	-	-	-	-	-	-	-	-	-
908	-	-	-	-	-	-	-	-	-	-	-	-
909	-	-	-	-	-	-	-	-	-	-	-	-
910	-	-	-	-	-	-	-	-	-	-	-	-
911	-	-	-	-	-	-	-	-	-	-	-	-
912	-	-	-	-	-	-	-	-	-	-	-	-
913	-	-	-	-	-	-	-	-	-	-	-	-
914	6.0	1,437	-	-	-	-	-	-	-	-	-	-
915	-	-	-	-	-	-	-	-	-	-	-	-
916	-	-	-	-	-	-	-	-	-	-	-	-
917	-	-	-	-	-	-	-	-	-	-	-	-
918	-	-	-	-	-	-	-	-	-	-	-	-
919	-	-	-	-	-	-	-	-	-	-	-	-
920	-	-	-	-	-	-	-	-	-	-	-	-
921	-	-	-	-	-	-	-	-	-	-	-	-
922	-	-	-	-	-	-	-	-	-	-	-	-
923	-	-	-	-	-	-	-	-	-	-	-	-
924	-	-	-	-	-	-	-	-	-	-	-	-
925	-	-	-	-	-	-	-	-	-	-	-	-
926	-	-	-	-	-	-	-	-	-	-	-	-
927	-	-	-	-	-	-	-	-	-	-	-	-
928	-	-	-	-	-	-	-	-	-	-	-	-
929	-	-	-	-	-	-	-	-	-	-	-	-
930	-	-	-	-	-	-	-	-	-	-	-	-
931	-	-	-	-	-	-	-	-	-	-	-	-
932	-	-	-	-	-	-	-	-	-	-	-	-
933	-	-	-	-	-	-	-	-	-	-	-	-
934	-	-	-	-	-	-	-	-	-	-	-	-
935	-	-	-	-	-	-	-	-	-	-	-	-
936	-	-	-	-	-	-	-	-	-	-	-	-
937	-	-	-	-	-	-	-	-	-	-	-	-
938	53.6	12,872	-	-	-	-	-	-	-	-	-	-
939	-	-	-	-	-	-	-	-	-	-	-	-
940	-	-	-	-	-	-	-	-	-	-	-	-
941	0.0	1	-	-	-	-	-	-	-	-	-	-
942	0.0	0	-	-	-	-	-	-	-	-	-	-
943	-	-	-	-	-	-	-	-	-	-	-	-
944	-	-	-	-	-	-	-	-	-	-	-	-
945	-	-	-	-	-	-	-	-	-	-	-	-
946	-	-	-	-	-	-	-	-	-	-	-	-
947	-	-	-	-	-	-	-	-	-	-	-	-
953	-	-	-	-	-	-	-	-	-	-	-	-
954	-	-	-	-	-	-	-	-	-	-	-	-
955	11.7	2,805	-	-	-	-	-	-	-	-	-	-
956	-	-	-	-	-	-	-	-	-	-	-	-
957	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
958	-	-	-	-	-	-	-	-	-	-	-	-
959	0.0	-	-	-	-	-	-	-	-	-	-	-
960	-	-	-	-	-	-	-	-	-	-	-	-
961	-	-	-	-	-	-	-	-	-	-	-	-
962	-	-	-	-	-	-	-	-	-	-	-	-
963	-	-	-	-	-	-	-	-	-	-	-	-
964	-	-	-	-	-	-	-	-	-	-	-	-
965	-	-	-	-	-	-	-	-	-	-	-	-
966	-	-	-	-	-	-	-	-	-	-	-	-
967	-	-	-	-	-	-	-	-	-	-	-	-
968	-	-	-	-	-	-	-	-	-	-	-	-
969	-	-	-	-	-	-	-	-	-	-	-	-
970	-	-	-	-	-	-	-	-	-	-	-	-
971	-	-	-	-	-	-	-	-	-	-	-	-
972	-	-	-	-	-	-	-	-	-	-	-	-
973	-	-	-	-	-	-	-	-	-	-	-	-
974	-	-	-	-	-	-	-	-	-	-	-	-
975	-	-	-	-	-	-	-	-	-	-	-	-
976	0.1	32	-	-	-	-	-	-	-	-	-	-
977	-	-	-	-	-	-	-	-	-	-	-	-
978	0.0	-	6.9	-	-	-	-	-	-	-	-	-
979	-	-	-	-	-	-	-	-	-	-	-	-
980	-	-	-	-	-	-	-	-	-	-	-	-
981	-	-	-	-	-	-	-	-	-	-	-	-
982	-	-	-	-	-	-	-	-	-	-	-	-
983	2.4	582	-	-	-	-	-	-	-	-	-	-
984	4.3	1,027	-	-	-	-	-	-	-	-	-	-
985	-	-	-	-	-	-	-	-	-	-	-	-
986	-	-	-	-	-	-	-	-	-	-	-	-
987	-	-	-	-	-	-	-	-	-	-	-	-
988	-	-	-	-	-	-	-	-	-	-	-	-
989	-	-	-	-	-	-	-	-	-	-	-	-
990	-	-	-	-	-	-	-	-	-	-	-	-
991	-	-	-	-	-	-	-	-	-	-	-	-
992	-	-	-	-	-	-	-	-	-	-	-	-
993	-	-	-	-	-	-	-	-	-	-	-	-
994	-	-	-	-	-	-	-	-	-	-	-	-
995	-	-	-	-	-	-	-	-	-	-	-	-
996	22.4	5,386	-	-	-	-	-	-	-	-	-	-
997	10.3	2,474	-	-	-	-	-	-	-	-	-	-
998	-	-	-	-	-	-	-	-	-	-	-	-
999	-	-	-	-	-	-	-	-	-	-	-	-
1000	-	-	-	-	-	-	-	-	-	-	-	-
1001	-	-	-	-	-	-	-	-	-	-	-	-
1002	-	-	-	-	-	-	-	-	-	-	-	-
1003	-	-	-	-	-	-	-	-	-	-	-	-
1004	0.2	37	-	-	-	-	-	-	-	-	-	-
1005	-	-	-	-	-	-	-	-	-	-	-	-
1006	-	-	-	-	-	-	-	-	-	-	-	-
1007	-	-	-	-	-	-	-	-	-	-	-	-
1008	-	-	-	-	-	-	-	-	-	-	-	-
1009	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1010	8.0	1,922	-	-	-	-	-	-	-	-	-	-
1011	-	-	-	-	-	-	-	-	-	-	-	-
1012	-	-	-	-	-	-	-	-	-	-	-	-
1013	-	-	-	-	-	-	-	-	-	-	-	-
1014	-	-	-	-	-	-	-	-	-	-	-	-
1015	-	-	-	-	-	-	-	-	-	-	-	-
1016	-	-	-	-	-	-	-	-	-	-	-	-
1017	-	-	-	-	-	-	-	-	-	-	-	-
1018	-	-	-	-	-	-	-	-	-	-	-	-
1019	-	-	-	-	-	-	-	-	-	-	-	-
1020	-	-	-	-	-	-	-	-	-	-	-	-
1021	-	-	-	-	-	-	-	-	-	-	-	-
1022	-	-	-	-	-	-	-	-	-	-	-	-
1023	-	-	-	-	-	-	-	-	-	-	-	-
1024	-	-	-	-	-	-	-	-	-	-	-	-
1025	-	-	-	-	-	-	-	-	-	-	-	-
1026	-	-	-	-	-	-	-	-	-	-	-	-
1027	-	-	-	-	-	-	-	-	-	-	-	-
1028	-	-	-	-	-	-	-	-	-	-	-	-
1029	-	-	-	-	-	-	-	-	-	-	-	-
1030	-	-	-	-	-	-	-	-	-	-	-	-
1031	-	-	-	-	-	-	-	-	-	-	-	-
1032	-	-	-	-	-	-	-	-	-	-	-	-
1033	-	-	-	-	-	-	-	-	-	-	-	-
1034	-	-	-	-	-	-	-	-	-	-	-	-
1035	-	-	-	-	-	-	-	-	-	-	-	-
1036	10.5	2,512	-	-	-	-	-	-	-	-	-	-
1037	4.6	1,093	-	-	-	-	-	-	-	-	-	-
1038	-	-	-	-	-	-	-	-	-	-	-	-
1039	0.3	68	-	-	-	-	-	-	-	-	-	-
1040	29.6	7,094	-	-	-	-	-	-	-	-	-	-
1041	13.4	3,217	-	-	-	-	-	-	-	-	-	-
1042	-	-	-	-	-	-	-	-	-	-	-	-
1043	-	-	-	-	-	-	-	-	-	-	-	-
1044	-	-	-	-	-	-	-	-	-	-	-	-
1045	5.6	1,355	-	-	-	-	-	-	-	-	-	-
1046	19.6	4,709	-	-	-	-	-	-	-	-	-	-
1047	7.1	1,706	-	-	-	-	-	-	-	-	-	-
1048	-	-	-	-	-	-	-	-	-	-	-	-
1049	-	-	-	-	-	-	-	-	-	-	-	-
1050	-	-	-	-	-	-	-	-	-	-	-	-
1051	-	-	-	-	-	-	-	-	-	-	-	-
1052	-	-	-	-	-	-	-	-	-	-	-	-
1053	-	-	-	-	-	-	-	-	-	-	-	-
1054	-	-	-	-	-	-	-	-	-	-	-	-
1055	-	-	-	-	-	-	-	-	-	-	-	-
1056	-	-	-	-	-	-	-	-	-	-	-	-
1057	-	-	-	-	-	-	-	-	-	-	-	-
1058	-	-	-	-	-	-	-	-	-	-	-	-
1059	-	-	-	-	-	-	-	-	-	-	-	-
1060	-	-	-	-	-	-	-	-	-	-	-	-
1061	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1062	13.0	3,111	-	-	-	-	-	-	-	-	-	-
1063	-	-	-	-	-	-	-	-	-	-	-	-
1064	-	-	-	-	-	-	-	-	-	-	-	-
1068	-	-	-	-	-	-	-	-	-	-	-	-
1069	-	-	-	-	-	-	-	-	-	-	-	-
1070	14.6	3,498	-	-	-	-	-	-	-	-	-	-
1071	-	-	-	-	-	-	-	-	-	-	-	-
1072	-	-	-	-	-	-	-	-	-	-	-	-
1073	-	-	-	-	-	-	-	-	-	-	-	-
1074	-	-	-	-	-	-	-	-	-	-	-	-
1075	-	-	-	-	-	-	-	-	-	-	-	-
1076	9.3	2,231	-	-	-	-	-	-	-	-	-	-
1077	9.1	2,184	-	-	-	-	-	-	-	-	-	-
1078	8.7	2,094	-	-	-	-	-	-	-	-	-	-
1079	12.0	2,878	-	-	-	-	-	-	-	-	-	-
1080	-	-	-	-	-	-	-	-	-	-	-	-
1081	-	-	-	-	-	-	-	-	-	-	-	-
1082	-	-	-	-	-	-	-	-	-	-	-	-
1083	-	-	-	-	-	-	-	-	-	-	-	-
1084	3.0	717	-	-	-	-	-	-	-	-	-	-
1085	-	-	-	-	-	-	-	-	-	-	-	-
1086	3.3	789	-	-	-	-	-	-	-	-	-	-
1087	4.2	1,008	-	-	-	-	-	-	-	-	-	-
1088	4.2	996	-	-	-	-	-	-	-	-	-	-
1089	1.0	242	-	-	-	-	-	-	-	-	-	-
1090	-	-	-	-	-	-	-	-	-	-	-	-
1091	-	-	-	-	-	-	-	-	-	-	-	-
1092	-	-	-	-	-	-	56.7	13,618	-	-	-	-
1093	-	-	-	-	-	-	56.4	13,527	-	-	-	-
1094	0.7	173	-	-	-	-	-	-	10.3	2,464	-	-
1095	-	-	-	-	-	-	-	-	-	-	-	-
1096	-	-	-	-	-	-	-	-	-	-	-	-
1097	1.9	468	-	-	-	-	-	-	-	-	-	-
1098	0.6	132	-	-	-	-	-	-	-	-	-	-
1099	1.4	328	-	-	-	-	-	-	-	-	-	-
1100	-	-	-	-	-	-	-	-	-	-	-	-
1101	-	-	-	-	-	-	-	-	-	-	-	-
1102	2.9	700	-	-	-	-	-	-	-	-	-	-
1103	16.5	3,970	-	-	-	-	-	-	-	-	-	-
1104	-	-	-	-	-	-	-	-	-	-	-	-
1105	-	-	-	-	-	-	-	-	-	-	-	-
1106	-	-	-	-	-	-	-	-	-	-	-	-
1107	-	-	-	-	-	-	-	-	-	-	-	-
1108	2.6	620	-	-	-	-	-	-	-	-	-	-
1109	-	-	-	-	-	-	-	-	-	-	-	-
1110	-	-	-	-	-	-	-	-	-	-	-	-
1111	-	-	-	-	-	-	-	-	-	-	-	-
1112	-	-	-	-	-	-	-	-	-	-	-	-
1113	-	-	-	-	-	-	-	-	-	-	-	-
1114	-	-	-	-	-	-	-	-	-	-	-	-
1115	-	-	-	-	-	-	-	-	-	-	-	-
1116	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Parks & Recreation		Parks & Recreation-Indoor		Parks & Recreation-Outdoor		Parks & Recreation-Golf Course		Parks & Recreation-Cemetery		Runway	
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)
1117	-	-	-	-	-	-	-	-	-	-	-	-
1118	-	-	-	-	-	-	-	-	-	-	-	-
1119	-	-	-	-	-	-	-	-	-	-	-	-
1120	-	-	-	-	-	-	-	-	-	-	-	-
1121	-	-	-	-	-	-	-	-	-	-	-	-
1122	-	-	-	-	-	-	-	-	-	-	-	-
1123	-	-	-	-	-	-	-	-	-	-	-	-
1124	-	-	-	-	-	-	-	-	-	-	-	-
1125	-	-	-	-	-	-	-	-	-	-	-	-
1126	-	-	-	-	-	-	-	-	-	-	-	-
1127	6.5	1,561	-	-	-	-	-	-	-	-	-	-
1128	19.1	4,581	-	-	-	-	-	-	-	-	-	-
1129	2.1	513	-	-	-	-	-	-	-	-	-	-
1130	4.8	1,146	-	-	-	-	-	-	-	-	-	-
1131	-	-	-	-	-	-	-	-	-	-	-	-
1132	-	-	-	-	-	-	-	-	-	-	-	-
1133	-	-	-	-	-	-	-	-	-	-	-	-
1134	-	-	-	-	-	-	-	-	-	-	-	-
1135	5.6	1,345	-	-	-	-	-	-	-	-	-	-
1136	-	-	-	-	-	-	-	-	-	-	-	-
1137	-	-	-	-	-	-	-	-	-	-	-	-
1138	14.3	3,429	-	-	-	-	-	-	-	-	-	-
1139	3.7	887	-	-	-	-	-	-	-	-	-	-
1140	-	-	-	-	-	-	-	-	-	-	-	-
1141	-	-	-	-	-	-	-	-	-	-	-	-
1142	-	-	-	-	-	-	-	-	-	-	-	-
1143	-	-	-	-	-	-	-	-	-	-	-	-
1144	-	-	-	-	-	-	-	-	-	-	-	-
1145	-	-	-	-	-	-	-	-	-	-	-	-

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
0	-	-	-	-		-	-	-	-	-		-	-		
1	-	-	-	-		39.9	1,186	0.0	240	-		47,309	0		
2	0.0	10	-	-		99.1	2,484	5.5	2,254	-		246,092	12,454		
3	-	-	-	-		79.0	1,168	5.0	1,100	-		92,301	5,527		
4	0.3	679	-	-		81.8	436	2.5	484	-		35,632	1,222		
5	0.2	577	-	-		43.1	2,100	4.3	1,962	-		90,544	8,520		
6	0.9	2,129	-	-		45.6	2,173	26.7	1,637	-		99,135	43,730		
7	1.8	4,322	-	-		65.9	3,835	11.9	753	-		252,863	8,961		
8	0.0	41	-	-		55.6	4,020	6.4	473	-		223,480	3,031		
9	-	-	-	-		97.9	4,404	28.1	708	-		431,154	19,852		
10	-	-	-	-		21.9	2,100	0.8	2,000	-		46,073	1,555		
12	0.1	181	-	-		0.3	2,100	78.0	2,000	-		578	155,951		
14	-	-	-	-		37.6	1,889	0.0	1,042	-		71,070	18		
15	-	-	-	-		72.3	2,100	-	-	-		151,883	-		
16	-	-	-	-		26.1	2,222	56.6	1,085	-		57,957	61,357		
17	-	-	-	-		78.0	3,644	6.0	240	-		284,176	1,450		
18	-	-	-	-		65.6	5,512	17.3	798	-		361,834	13,770		
20	-	-	-	-		119.3	1,272	14.5	831	-		151,725	12,029		
21	-	-	-	-		141.5	919	3.2	1,100	-		129,996	3,495		
22	-	-	-	-		108.9	980	1.5	1,175	-		106,712	1,803		
23	-	-	-	-		64.9	2,194	4.7	240	-		142,466	1,133		
24	-	-	-	-		70.6	2,776	0.7	2,001	-		195,977	1,419		
25	-	-	-	-		58.0	3,240	17.2	1,593	-		187,981	27,341		
26	0.0	52	-	-		68.6	2,149	0.6	2,007	-		147,348	1,176		
29	-	-	-	-		111.1	1,389	1.3	240	-		154,324	306		
30	-	-	-	-		36.6	2,100	40.1	241	-		76,864	9,657		
31	-	-	-	-		91.6	2,051	3.2	1,600	-		187,905	5,153		
32	-	-	-	-		95.7	1,664	0.1	1,100	-		159,188	143		
33	0.8	1,969	-	-		59.3	2,848	5.2	2,065	-		168,888	10,713		
35	-	-	-	-		115.3	1,002	1.1	1,533	-		115,498	1,680		
36	-	-	-	-		178.2	1,475	16.9	809	-		262,928	13,655		
37	-	-	-	-		151.6	1,473	5.0	1,100	-		223,261	5,467		
38	-	-	-	-		46.5	39	-	-	-		1,814	-		
39	2.2	5,488	-	-		96.4	1,481	6.4	1,102	-		142,742	7,068		
40	-	-	-	-		36.7	1,241	-	-	-		45,571	-		
41	-	-	-	-		68.5	4,147	13.9	623	-		284,170	8,695		
42	-	-	-	-		74.0	2,200	1.3	240	-		162,924	304		
43	-	-	-	-		87.8	3,256	7.3	360	-		285,794	2,616		
44	-	-	-	-		115.6	1,343	0.0	1,100	-		155,241	41		
45	-	-	-	-		124.3	1,045	29.9	1,810	-		129,943	54,183		
49	-	-	-	-		24.4	1,691	-	-	-		41,227	-		
50	-	-	-	-		95.8	1,571	-	-	-		150,440	-		
51	-	-	-	-		191.1	1,767	-	-	-		337,726	-		
52	-	-	-	-		32.1	1,298	0.1	1,100	-		41,635	66		
53	-	-	-	-		53.0	845	21.3	1,119	-		44,729	23,841		
55	-	-	-	-		152.4	1,902	3.9	262	-		289,865	1,023		
56	-	-	-	-		145.7	1,496	18.2	1,243	-		218,003	22,676		
57	-	-	-	-		84.6	2,678	6.8	240	-		226,704	1,626		
58	2.5	6,031	-	-		96.8	1,448	2.7	2,352	-		140,085	6,264		
59	-	-	-	-		143.2	1,606	15.8	764	-		229,945	12,099		
60	-	-	-	-		31.7	1,264	13.2	1,100	-		40,108	14,529		
62	0.0	91	-	-		107.6	1,184	9.8	1,105	-		127,365	10,880		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
63	0.1	172	-	-		41.4	1,491	0.2	1,678	-		61,689	275		
64	-	-	-	-		72.9	1,188	-	-	-		86,627	-		
65	-	-	-	-		108.7	1,897	15.9	1,100	-		206,112	17,456		
66	-	-	-	-		65.0	299	7.5	1,104	-		19,438	8,291		
67	-	-	-	-		0.1	3,144	21.7	1,437	-		157	31,179		
68	-	-	-	-		93.2	846	10.5	1,100	-		78,905	11,531		
69	-	-	-	-		2.1	4,822	60.1	1,600	-		10,266	96,190		
70	-	-	-	-		60.3	3,402	15.8	1,287	-		204,978	20,368		
71	-	-	-	-		23.2	2,732	8.7	1,224	-		63,489	10,652		
72	-	-	-	-		64.7	165	-	-	-		10,686	-		
73	-	-	-	-		46.5	1,032	-	-	-		47,992	-		
75	-	-	-	-		94.3	1,633	21.4	1,845	-		154,057	39,423		
77	-	-	-	-		98.5	1,414	5.4	1,185	-		139,351	6,352		
78	-	-	-	-		88.9	712	8.9	1,100	-		63,278	9,834		
79	-	-	-	-		67.2	1,633	1.1	1,101	-		109,680	1,182		
80	-	-	-	-		106.7	1,285	105.4	2,069	-		137,143	218,121		
81	-	-	-	-		133.2	1,382	21.0	845	-		184,115	17,776		
82	-	-	-	-		85.5	1,709	41.5	1,100	-		146,138	45,704		
83	-	-	-	-		36.6	2,722	5.0	1,299	-		99,629	6,437		
84	-	-	-	-		96.9	2,480	0.1	1,100	-		240,367	86		
85	-	-	-	-		93.5	1,999	6.5	883	-		186,933	5,703		
86	-	-	-	-		66.8	737	127.7	1,370	-		49,236	174,954		
87	-	-	-	-		21.1	2,542	8.5	1,100	-		53,538	9,352		
88	0.0	31	-	-		53.5	2,155	48.7	2,344	-		115,308	114,024		
91	4.7	11,495	-	-		76.6	1,875	31.4	1,302	-		143,728	40,945		
92	-	-	-	-		119.3	1,673	17.6	1,198	-		199,667	21,064		
93	-	-	-	-		47.7	1,306	9.9	1,100	-		62,222	10,848		
94	-	-	-	-		2.2	5,000	84.3	1,371	-		11,193	115,571		
95	-	-	-	-		46.5	333	25.5	1,148	-		15,490	29,237		
96	-	-	-	-		135.5	1,886	42.0	1,138	-		255,682	47,809		
97	-	-	-	-		95.1	2,239	16.2	601	-		212,852	9,732		
98	-	-	-	-		21.7	2,111	44.3	1,943	-		45,726	86,164		
99	-	-	-	-		7.3	1,113	111.5	1,141	18,000		8,160	127,207		Parsons Engineering Science
100	-	-	-	-		82.4	2,621	7.0	1,645	-		216,077	11,457		
101	-	-	-	-		65.9	1,569	70.1	1,110	-		103,427	77,797		
102	-	-	-	-		51.6	668	6.4	1,100	-		34,476	6,995		
103	-	-	-	-		39.8	3,456	56.5	1,024	-		137,682	57,817		
104	-	-	-	-		23.5	179	44.0	1,520	-		4,213	66,821		
106	-	-	-	-		103.3	1,227	9.3	671	-		126,659	6,230		
107	-	-	-	-		51.1	1,738	18.6	1,100	-		88,815	20,465		
109	0.3	664	-	-		66.3	869	4.6	1,650	-		57,573	7,658		
110	-	-	-	-		85.8	1,277	45.7	874	-		109,644	39,898		
111	-	-	-	-		74.5	860	73.4	1,080	-		64,139	79,304		
112	-	-	-	-		80.3	2,662	11.0	1,082	-		213,900	11,887		
113	-	-	-	-		40.6	1,385	-	-	-		56,249	-		
114	-	-	-	-		108.4	26	45.5	1,100	-		2,856	49,996		
115	-	-	-	-		25.9	4,396	54.8	1,158	-		113,882	63,492		
116	-	-	-	-		73.4	1,409	7.1	824	-		103,437	5,865		
117	-	-	-	-		86.6	1,300	28.3	774	-		112,545	21,896		
118	-	-	-	-		84.5	2,145	-	-	-		181,344	-		
120	-	-	-	-		26.8	2,166	11.5	1,100	-		58,142	12,680		
121	-	-	-	-		202.0	1,252	17.9	823	-		252,883	14,712		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
122	-	-	-	-		23.2	4,316	22.5	1,100	-		100,069	24,765		
123	-	-	-	-		131.9	3,104	10.2	1,486	-		409,615	15,218		
124	-	-	-	-		32.6	1,451	9.4	1,100	-		47,337	10,347		
125	-	-	-	-		47.2	39	0.1	1,100	-		1,831	96		
126	-	-	-	-		32.5	1,207	27.2	1,100	-		39,187	29,873		
127	46.1	113,341	-	-		0.0	5,568	51.4	2,410	-		196	123,897		
128	-	-	-	-		59.0	4,109	11.3	1,100	-		242,530	12,474		
129	-	-	-	-		33.9	4,885	0.1	1,100	-		165,548	63		
130	-	-	-	-		118.0	163	15.7	1,086	-		19,269	17,046		
131	-	-	-	-		21.4	1,672	2.6	1,249	-		35,793	3,233		
132	-	-	-	-		39.5	1,320	-	-	-		52,168	-		
133	-	-	-	-		13.9	5,583	0.8	1,105	-		77,428	914		
134	-	-	-	-		25.6	902	3.9	1,100	-		23,082	4,336		
135	-	-	-	-		41.3	1,012	-	-	-		41,813	-		
136	-	-	-	-		54.6	2,338	0.4	1,100	-		127,565	488		
137	-	-	-	-		52.5	28	10.0	1,100	-		1,488	11,023		
138	-	-	-	-		46.7	1,143	6.1	244	-		53,410	1,495		
139	-	-	-	-		126.9	2,045	17.2	1,594	-		259,500	27,386		
140	-	-	-	-		39.0	1,168	5.1	1,100	-		45,531	5,577		
141	-	-	-	-		63.8	4	-	-	-		240	-		
142	-	-	-	-		0.6	6,797	38.4	2,338	-		4,010	89,891		
143	-	-	-	-		0.0	170,539	45.2	1,205	-		1,936	54,490		
144	-	-	-	-		89.5	1,797	69.9	1,108	-		160,872	77,425		
145	-	-	-	-		21.7	5,686	42.9	1,107	-		123,254	47,500		
146	-	-	-	-		23.5	2,490	52.4	1,456	-		58,446	76,329		
147	-	-	-	-		64.9	845	0.4	240	-		54,816	104		
148	-	-	-	-		31.9	2,100	17.3	3,000	-		66,947	51,851		
149	-	-	-	-		52.3	1,939	30.7	471	-		101,471	14,460		
150	-	-	-	-		90.0	1,398	0.3	1,037	-		125,802	353		
151	-	-	-	-		40.4	2,949	9.3	1,100	-		119,124	10,261		
152	-	-	-	-		53.6	3,430	0.0	240	-		183,950	0		
153	-	-	-	-		83.8	3,169	23.7	1,839	-		265,388	43,504		
154	-	-	-	-		-	-	161.6	1,100	-		-	177,741		
155	-	-	-	-		2.2	-	16.9	1,609	-		-	27,271		
156	-	-	-	-		100.8	1,399	-	-	-		141,111	-		
157	-	-	-	-		135.0	1,084	47.8	1,122	-		146,311	53,626		
158	-	-	-	-		1.8	-	30.6	1,126	-		-	34,501		
159	-	-	-	-		18.7	2,969	29.9	2,182	-		55,580	65,166		
160	-	-	-	-		73.6	4,695	11.0	1,086	-		345,615	11,988		
161	-	-	-	-		4.1	177	55.5	1,100	-		720	61,015		
162	-	-	-	-		36.0	1,186	10.8	240	-		42,683	2,589		
163	-	-	-	-		43.6	5,449	-	-	-		237,677	-		
164	-	-	-	-		98.2	2,043	3.0	240	-		200,512	715		
165	-	-	-	-		63.3	2,550	33.1	814	-		161,267	26,923		
166	-	-	-	-		57.2	2,139	24.5	1,100	-		122,434	26,932		
167	-	-	-	-		9.8	3,493	0.7	977	-		34,151	649		
168	-	-	-	-		119.8	1,311	-	-	-		157,051	-		
169	-	-	-	-		57.9	2,146	124.2	2,884	-		124,383	358,281		
170	-	-	-	-		79.8	2,278	0.0	1,100	-		181,881	4		
171	-	-	-	-		69.7	1,391	11.5	1,100	-		96,960	12,673		
172	-	-	-	-		3.6	5,381	48.7	1,101	-		19,444	53,586		
173	-	-	-	-		73.4	2,932	33.5	485	-		215,187	16,238		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
174	-	-	-	-		1.0	1,814	50.2	1,802	-		1,843	90,417		
175	-	-	-	-		69.3	2,227	-	-	-		154,359	-		
176	-	-	-	-		-	-	59.4	1,707	-		-	101,358		
177	-	-	-	-		24.7	1,079	77.7	1,100	-		26,656	85,471		
178	-	-	-	-		49.0	5,812	74.4	2,202	-		284,514	163,806		
179	-	-	-	-		48.0	2,687	22.8	1,100	-		129,087	25,087		
180	-	-	-	-		46.8	1,148	29.3	848	-		53,761	24,873		
181	-	-	-	-		66.7	1,435	0.3	240	-		95,771	65		
182	-	-	-	-		-	-	78.6	2,159	-		-	169,597		
183	-	-	-	-		104.5	1,268	21.9	1,327	-		132,472	29,013		
184	-	-	-	-		15.0	6,227	93.9	1,671	-		93,715	156,951		
185	-	-	-	-		59.7	2,100	22.3	1,689	-		125,426	37,613		
186	-	-	-	-		-	-	24.9	1,128	-		-	28,123		
187	-	-	-	-		142.8	2,357	33.8	1,134	-		336,643	38,315		
188	-	-	-	-		74.9	2,370	6.0	1,600	-		177,579	9,642		
189	-	-	-	-		98.6	952	3.6	1,100	-		93,875	3,947		
190	-	-	-	-		1.5	964	47.0	1,110	-		1,448	52,152		
191	-	-	-	-		43.4	3,542	63.0	1,600	-		153,645	100,880		
192	-	-	-	-		22.4	837	-	-	-		18,773	-		
193	-	-	-	-		33.9	988	13.3	1,104	-		33,477	14,649		
194	-	-	-	-		33.3	2,231	5.2	2,000	-		74,252	10,429		
195	-	-	-	-		71.3	941	48.1	1,100	-		67,080	52,879		
196	-	-	-	-		13.2	2,263	150.0	2,248	-		29,782	337,204		
197	-	-	-	-		73.6	828	78.1	1,439	-		60,987	112,396		
198	-	-	-	-		59.3	716	10.4	1,100	-		42,483	11,464		
199	-	-	-	-		71.9	3,118	19.1	2,200	-		224,294	42,002		
200	-	-	-	-		38.4	2,853	0.6	2,000	-		109,608	1,140		
201	-	-	-	-		155.8	2,100	10.1	1,620	-		327,151	16,368		
202	-	-	-	-		153.5	2,382	19.9	1,777	-		365,633	35,356		
203	-	-	-	-		23.4	1,486	16.8	243	-		34,723	4,077		
204	-	-	-	-		59.6	918	13.5	1,100	-		54,657	14,870		
205	-	-	-	-		103.6	2,100	-	-	-		217,466	-		
206	-	-	-	-		41.6	752	0.1	240	-		31,295	15		
207	-	-	-	-		62.2	2,123	-	-	-		132,064	-		
208	-	-	-	-		121.8	2,100	17.1	1,398	-		255,756	23,901		
209	-	-	-	-		110.2	1,103	52.9	1,064	-		121,468	56,359		
210	-	-	-	-		127.6	689	3.2	240	-		87,955	761		
211	-	-	-	-		-	-	26.4	240	-		-	6,326		
212	-	-	-	-		49.5	4,554	22.1	2,227	-		225,388	49,313		
213	-	-	-	-		85.8	3,305	21.2	2,073	-		283,556	44,048		
214	-	-	-	-		76.0	2,120	36.9	2,611	-		161,097	96,295		
215	-	-	-	-		52.3	787	-	-	-		41,210	-		
216	-	-	-	-		89.6	2,100	2.4	1,600	-		188,238	3,823		
217	-	-	-	-		138.0	953	113.6	1,680	-		131,483	190,842		
218	-	-	-	-		126.0	2,100	0.1	1,600	-		264,550	149		
219	-	-	-	-		68.8	2,100	-	-	-		144,414	-		
220	-	-	-	-		17.0	2,592	16.8	1,714	-		44,105	28,766		
221	-	-	-	-		2.0	1,961	109.0	1,738	-		3,917	189,577		
222	-	-	-	-		-	-	100.3	1,600	-		-	160,464		
223	-	-	-	-		89.7	2,100	0.0	240	-		188,475	11		
224	-	-	-	-		26.5	2,945	0.4	2,345	-		78,192	841		
225	-	-	-	-		37.9	1,074	14.3	1,435	-		40,715	20,525		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
226	-	-	-	-		46.4	2,100	1.4	1,998	-		97,427	2,829		
227	-	-	-	-		70.2	2,100	3.6	1,969	-		147,416	7,102		
228	-	-	-	-		94.1	938	0.6	1,451	-		88,310	830		
229	-	-	-	-		50.0	2,290	59.7	2,397	-		114,546	143,012		
230	-	-	-	-		4.7	2,100	37.6	1,600	-		9,939	60,160		
232	-	-	-	-		22.5	2,832	17.2	1,857	-		63,834	31,961		
233	-	-	-	-		133.6	1,113	3.3	1,957	-		148,692	6,552		
234	-	-	-	-		1.5	1,530	31.0	1,831	-		2,339	56,719		
235	-	-	-	-		0.6	2,100	119.0	1,626	-		1,360	193,463		
236	-	-	-	-		1.4	2,100	129.0	240	-		3,039	30,957		
237	-	-	-	-		35.1	2,100	9.4	275	-		73,650	2,588		
238	-	-	-	-		40.3	971	28.6	1,822	-		39,113	52,082		
239	-	-	-	-		56.4	3,841	69.3	2,045	-		216,632	141,844		
240	-	-	-	-		47.7	2,100	0.4	240	-		100,193	93		
241	-	-	-	-		24.3	5,397	0.0	1,600	-		131,078	2		
243	-	-	-	-		111.3	1,162	22.4	1,414	-		129,267	31,753		
244	-	-	-	-		50.9	2,640	9.5	2,191	-		134,256	20,793		
245	-	-	-	-		76.7	2,035	0.1	1,592	-		156,072	97		
246	-	-	-	-		52.1	2,296	-	-	-		119,627	-		
247	-	-	-	-		47.8	1,429	14.5	1,438	-		68,352	20,894		
248	-	-	-	-		62.6	2,100	0.6	240	-		131,483	139		
249	-	-	-	-		38.4	2,100	0.3	240	-		80,579	65		
250	-	-	-	-		45.9	5,719	42.9	2,503	-		262,657	107,425		
251	-	-	-	-		61.9	2,100	-	-	-		129,970	-		
252	-	-	-	-		74.0	2,100	5.0	1,600	-		155,356	8,067		
253	-	-	-	-		5.4	4,086	57.7	1,892	-		21,903	109,164		
254	-	-	-	-		22.2	1,268	9.6	240	-		28,193	2,301		
255	-	-	-	-		12.2	3,085	10.2	1,997	-		37,747	20,316		
256	-	-	-	-		61.3	845	18.2	1,409	-		51,813	25,691		
257	-	-	-	-		28.3	2,422	13.0	2,179	-		68,462	28,228		
258	-	-	-	-		66.0	2,106	0.4	1,888	-		138,928	672		
259	-	-	-	-		10.9	3,097	33.5	1,915	-		33,725	64,161		
260	-	-	-	-		11.1	2,052	8.1	2,000	-		22,815	16,133		
261	-	-	-	-		62.8	2,100	1.0	2,000	-		131,898	2,032		
262	-	-	-	-		38.8	2,273	-	-	-		88,272	-		
263	-	-	-	-		2.4	2,100	22.5	240	-		5,065	5,405		
264	-	-	-	-		41.0	2,100	-	-	-		86,062	-		
265	-	-	-	-		76.5	945	8.0	1,202	-		72,249	9,632		
266	-	-	-	-		49.4	3,482	18.9	1,963	-		172,077	37,086		
267	-	-	-	-		34.1	1,433	26.1	1,021	-		48,853	26,668		
268	-	-	-	-		44.5	2,403	2.6	1,866	-		106,995	4,806		
269	-	-	-	-		1.7	3,144	6.1	2,003	-		5,266	12,301		
270	-	-	-	-		73.0	4,263	22.4	1,838	7,890		311,379	41,172		Duraflame
271	-	-	-	-		39.9	1,410	37.9	1,857	-		56,236	70,298		
272	-	-	-	-		21.2	2,100	1.2	240	-		44,426	297		
273	-	-	-	-		21.1	2,100	-	-	-		44,414	-		
274	-	-	-	-		-	-	2.4	344	-		-	830		
275	-	-	-	-		31.4	2,144	0.1	240	-		67,275	19		
276	-	-	-	-		58.1	2,054	4.9	1,135	-		119,342	5,551		
277	-	-	-	-		16.6	2,100	1.9	2,000	-		34,778	3,829		
278	-	-	-	-		7.6	6,130	50.8	1,735	-		46,568	88,069		
279	-	-	-	-		19.4	2,714	26.6	2,178	-		52,652	57,955		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
280	-	-	-	-		1.5	2,868	15.7	2,370	-		4,237	37,116		
281	-	-	-	-		33.9	1,022	13.4	1,127	-		34,614	15,096		
282	-	-	-	-		31.3	1,800	9.8	1,211	-		56,395	11,838		
284	-	-	-	-		119.0	1,310	32.8	870	-		155,952	28,593		
285	-	-	-	-		14.1	3,833	3.5	1,306	-		53,919	4,550		
286	-	-	-	-		23.6	1,794	1.9	1,135	-		42,297	2,198		
287	-	-	-	-		-	-	43.2	986	-		-	42,591		
288	-	-	-	-		51.4	1,943	6.0	1,213	-		99,862	7,316		
289	-	-	-	-		25.5	1,342	3.7	1,219	-		34,189	4,562		
290	-	-	-	-		73.1	1,129	18.9	1,122	-		82,481	21,189		
291	-	-	-	-		90.8	954	22.0	1,290	-		86,596	28,376		
292	-	-	-	-		30.2	1,531	0.1	1,406	-		46,196	103		
293	-	-	-	-		-	-	53.0	1,551	-		-	82,202		
294	-	-	-	-		-	-	171.7	2,777	-		-	476,694		
295	-	-	-	-		27.8	5,589	16.1	1,103	-		155,202	17,739		
296	-	-	-	-		9.6	3,094	19.7	1,119	-		29,801	22,086		
297	-	-	-	-		-	-	7.3	1,254	-		-	9,104		
298	-	-	-	-		103.6	1,943	72.5	1,460	-		201,345	105,777		
299	-	-	-	-		26.1	1,514	34.1	1,613	-		39,444	54,978		
300	-	-	-	-		-	-	22.0	1,172	-		-	25,840		
301	-	-	-	-		45.3	53	0.3	-	-		2,400	-		
302	-	-	-	-		57.2	806	0.1	1,100	-		46,087	90		
303	-	-	-	-		115.3	1,125	38.7	2,040	-		129,696	78,913		
304	-	-	-	-		40.1	2,416	7.9	1,430	-		97,009	11,305		
305	-	-	-	-		44.6	696	-	-	-		31,036	-		
306	-	-	-	-		26.0	1,943	24.5	1,763	-		50,510	43,256		
307	-	-	-	-		108.9	771	0.6	3,000	-		83,989	1,672		
308	-	-	-	-		-	-	146.7	1,515	-		-	222,351		
309	-	-	-	-		-	-	107.8	1,412	-		-	152,314		
310	-	-	-	-		0.0	48,904	58.4	1,918	-		240	111,992		
311	-	-	-	-		31.3	1,686	-	-	-		52,749	-		
312	-	-	-	-		62.6	1,462	34.1	1,091	-		91,487	37,176		
313	-	-	-	-		42.4	1,230	26.5	1,366	-		52,108	36,255		
314	-	-	-	-		78.6	1,198	34.7	1,107	-		94,166	38,426		
315	-	-	-	-		0.2	1,054	176.4	1	-		240	91		
316	-	-	-	-		41.0	1,542	-	-	-		63,295	-		
317	-	-	-	-		-	-	41.0	983	-		-	40,292		
318	-	-	-	-		0.0	-	69.8	-	-		-	-		
319	-	-	-	-		47.6	1,542	36.1	1,480	5,918		73,428	53,469		Tanker Wash USA
321	-	-	-	-		4.7	2,043	61.0	1,979	-		9,526	120,778		
322	-	-	-	-		57.8	897	0.3	1,100	-		51,895	353		
323	-	-	-	-		55.2	1,178	1.1	1,100	-		64,999	1,223		
324	-	-	-	-		2.4	1,897	43.8	2,893	-		4,629	126,828		
325	-	-	-	-		0.2	-	200.1	0	15,781		-	2		American Sunny Foods
326	-	-	-	-		56.2	1,107	18.1	1,346	-		62,171	24,398		
327	-	-	-	-		1.2	2,099	60.0	2,039	19,726		2,469	122,418		Stockton Sanitary Wash Rack
328	-	-	-	-		-	-	32.2	1,511	-		-	48,727		
329	-	-	-	-		-	-	26.0	1,518	-		-	39,438		
330	0.0	0	-	-		30.0	1,514	16.9	1,111	-		45,426	18,777		
331	-	-	-	-		64.9	1,120	9.7	1,111	-		72,687	10,831		
332	-	-	-	-		4.6	1,087	54.3	1,130	-		5,040	61,361		
333	-	-	-	-		-	-	76.1	1,549	-		-	117,816		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
334	-	-	-	-		-	-	24.0	1,798	-		-	43,130		
335	-	-	-	-		-	-	17.8	1,734	-		-	30,890		
336	-	-	-	-		5.2	588	43.9	1,113	-		3,048	48,899		
337	-	-	-	-		47.0	789	14.7	1,662	-		37,096	24,374		
338	-	-	-	-		42.4	-	22.4	-	-		-	-		
339	-	-	-	-		-	-	33.5	2,702	-		-	90,512		
340	-	-	-	-		0.1	-	43.6	0	16,438		-	6		BJJ Trucking
341	-	-	-	-		24.3	0	15.5	194	-		0	3,005		
342	-	-	-	-		28.1	1,287	9.7	1,095	-		36,090	10,658		
343	-	-	-	-		6.8	-	5.2	-	-		-	-		
344	-	-	-	-		31.5	966	28.9	1,100	-		30,429	31,736		
345	-	-	-	-		26.8	1,102	0.0	440	-		29,592	0		
346	-	-	-	-		12.8	19	85.9	1,513	-		240	129,955		
347	-	-	-	-		132.2	1,150	24.0	707	-		152,037	16,967		
348	-	-	-	-		31.0	765	0.1	3,000	-		23,766	182		
349	-	-	-	-		47.4	1,076	0.0	1,100	-		51,046	43		
350	-	-	-	-		32.7	0	0.0	-	-		0	-		
351	-	-	-	-		0.0	-	48.0	-	-		-	-		
352	-	-	-	-		17.4	740	3.6	70	-		12,850	256		
353	-	-	-	-		5.0	998	100.8	374	-		4,972	37,719		
354	-	-	-	-		70.4	-	0.2	-	-		-	-		
355	-	-	-	-		24.3	20	3.1	-	-		480	-		
356	-	-	-	-		34.5	-	1.2	-	-		-	-		
357	-	-	-	-		67.0	4	17.3	0	-		240	2		
358	-	-	-	-		10.4	785	3.2	-	-		8,160	-		
359	-	-	-	-		13.6	-	28.1	-	-		-	-		
360	-	-	-	-		55.2	9	5.9	90	-		480	529		
361	-	-	-	-		71.6	-	35.0	-	-		-	-		
362	-	-	-	-		33.0	-	11.9	-	-		-	-		
363	-	-	-	-		65.6	-	30.1	-	-		-	-		
364	-	-	-	-		-	-	115.9	42	-		-	4,841		
365	-	-	-	-		33.9	1,492	6.6	392	-		50,573	2,598		
366	-	-	-	-		29.4	1,516	0.2	2,565	-		44,561	630		
367	-	-	-	-		22.0	-	9.0	-	-		-	-		
368	-	-	-	-		11.8	102	-	-	-		1,200	-		
369	-	-	-	-		68.3	70	1.1	-	-		4,800	-		
370	-	-	-	-		50.1	10	10.6	334	-		480	3,530		
371	-	-	-	-		9.8	4,990	27.9	931	-		48,911	25,966		
372	-	-	-	-		11.7	-	21.0	-	-		-	-		
373	-	-	-	-		101.6	-	0.7	-	-		-	-		
374	-	-	-	-		27.7	-	1.0	-	-		-	-		
375	-	-	-	-		102.4	-	18.7	-	-		-	-		
376	-	-	-	-		-	-	94.4	2,907	-		-	274,495		
377	-	-	-	-		55.7	-	0.0	-	-		-	-		
378	-	-	-	-		33.2	1,631	-	-	-		54,098	-		
380	-	-	-	-		1.8	2,265	4.7	240	-		4,112	1,127		
381	-	-	-	-		7.3	1,314	-	-	-		9,580	-		
382	-	-	-	-		16.1	1,675	-	-	-		26,909	-		
383	-	-	-	-		9.3	1,999	0.1	240	-		18,527	13		
385	-	-	-	-		21.8	1,894	-	-	-		41,315	-		
386	-	-	-	-		8.2	2,019	0.2	240	-		16,580	47		
387	-	-	-	-		-	-	108.2	2,811	-		-	304,165		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
388	-	-	-	-		41.3	-	11.0	0	-		-	2			
389	-	-	-	-		29.3	-	1.9	-	-		-	-			
390	-	-	-	-		81.8	-	3.7	-	-		-	-			
391	-	-	-	-		-	-	124.2	-	-		-	-			
392	-	-	-	-		75.2	4,050	10.7	1,598	-		304,659	17,041			
393	-	-	-	-		84.9	-	0.2	58	-		-	14			
394	-	-	-	-		29.2	1,732	-	-	-		50,488	-			
395	-	-	-	-		42.4	-	1.0	-	-		-	-			
396	-	-	-	-		33.5	-	14.9	231	-		-	3,452			
397	-	-	-	-		40.7	-	1.3	-	-		-	-			
398	-	-	-	-		20.8	1,541	-	-	-		32,066	-			
399	-	-	-	-		8.9	2,013	-	-	-		17,852	-			
400	-	-	-	-		25.9	-	-	-	-		-	-			
401	-	-	-	-		48.5	-	-	-	-		-	-			
402	-	-	-	-		-	-	116.3	3,000	-		-	348,851			
403	-	-	-	-		71.4	953	0.2	1,646	-		68,050	353			
404	-	-	-	-		179.1	1,436	9.5	652	-		257,255	6,172			
405	-	-	-	-		1.8	2,764	16.4	69	-		5,040	1,131			
406	-	-	-	-		-	-	153.8	2,997	-		-	460,905			
408	-	-	-	-		9.3	2,100	163.4	2,817	-		19,623	460,458			
409	-	-	-	-		-	-	120.7	2,112	-		-	254,911			
410	-	-	-	-		0.3	-	13.3	-	-		-	-			
411	-	-	-	-		-	-	42.7	-	-		-	-			
412	-	-	-	-		40.9	-	2.2	-	-		-	-			
413	-	-	-	-		35.4	-	44.7	-	-		-	-			
414	-	-	-	-		-	-	122.3	-	-		-	-			
415	-	-	-	-		38.2	1,183	-	-	-		45,229	-			
416	-	-	-	-		37.8	1,260	-	-	-		47,581	-			
417	-	-	-	-		39.7	1,208	-	-	-		48,000	-			
418	-	-	-	-		-	-	28.5	-	-		-	-			
419	-	-	-	-		29.8	1,040	-	-	-		30,960	-			
420	-	-	-	-		34.6	-	9.1	4	-		-	35			
421	-	-	-	-		0.0	-	83.8	2,024	-		-	169,670			
422	-	-	-	-		7.2	1,603	69.8	1,816	-		11,565	126,676			
423	-	-	-	-		63.4	-	3.4	39	-		-	132			
424	-	-	-	-		0.0	53,752	89.2	1,970	-		240	175,636			
425	-	-	-	-		42.0	1,228	-	-	-		51,600	-			
426	-	-	-	-		37.5	3,466	14.8	1,101	-		130,150	16,289			
427	-	-	-	-		68.0	1,356	-	-	-		92,205	-			
428	-	-	-	-		36.1	1,293	0.1	240	-		46,673	28			
429	-	-	-	-		-	-	186.6	1,932	-		-	360,552			
430	-	-	-	-		-	-	110.7	1,792	-		-	198,478			
431	-	-	-	-		-	-	87.7	2,952	-		-	259,030			
432	-	-	-	-		-	-	161.3	2,986	-		-	481,568			
433	-	-	-	-		37.0	1,291	-	-	-		47,760	-			
434	-	-	-	-		56.0	2,164	104.1	1,367	-		121,138	142,293			
435	-	-	-	-		91.2	9	0.4	1,220	-		791	492			
436	-	-	-	-		34.3	1,266	-	-	-		43,433	-			
437	-	-	-	-		39.5	1,113	39.2	574	-		43,922	22,479			
438	-	-	-	-		17.6	1,437	0.2	1,100	-		25,275	229			
439	-	-	-	-		22.6	1,412	-	-	-		31,920	-			
440	-	-	-	-		15.3	1,397	-	-	-		21,360	-			

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
441	-	-	-	-		-	-	89.9	1,558	-		-	139,997		
442	-	-	-	-		-	-	47.3	1,510	-		-	71,344		
443	-	-	-	-		22.5	1,536	-	-	-		34,617	-		
444	-	-	-	-		-	-	100.2	1,550	-		-	155,305		
445	-	-	-	-		-	-	138.5	2,483	-		-	343,905		
446	-	-	-	-		132.1	1,299	30.2	833	-		171,565	25,131		
447	0.8	2,046	-	-		155.2	739	0.8	2,460	-		114,774	2,046		
448	3.4	8,368	-	-		208.7	890	3.4	2,460	-		185,760	8,368		
451	1.6	4,034	-	-		52.4	1,311	2.1	2,090	-		68,640	4,300		
452	-	-	-	-		27.3	493	64.2	1,758	-		13,470	112,883		
453	-	-	-	-		-	-	102.6	1,993	-		-	204,472		
508	-	-	-	-		40.5	1,859	18.9	1,169	-		75,198	22,088		
509	-	-	-	-		0.0	925,340	190.7	255	-		6,480	48,552		
510	-	-	-	-		10.3	2,122	35.1	3,000	-		21,953	105,249		
511	-	-	-	-		-	-	47.9	2,999	-		-	143,798		
512	-	-	-	-		12.7	1,750	-	-	-		22,146	-		
513	-	-	-	-		33.9	97	-	-	-		3,301	-		
514	-	-	-	-		6.7	3,035	1.7	1,100	-		20,428	1,905		
515	-	-	-	-		15.3	5,300	1.9	1,100	-		81,134	2,119		
516	-	-	-	-		24.7	747	0.4	852	-		18,424	378		
517	-	-	-	-		28.6	3,039	6.2	1,033	-		86,896	6,355		
518	-	-	-	-		22.6	1,163	1.7	240	-		26,247	415		
519	-	-	-	-		53.1	922	0.8	257	-		48,960	204		
520	-	-	-	-		47.1	941	0.1	306	-		44,302	38		
521	-	-	-	-		54.2	1,092	0.1	1,100	-		59,192	117		
522	-	-	-	-		30.5	601	-	-	-		18,339	-		
523	-	-	-	-		168.1	59	13.6	964	-		9,899	13,134		
524	-	-	-	-		1.6	1,621	162.9	240	-		2,652	39,103		
525	-	-	-	-		37.9	1,056	10.9	968	-		39,972	10,553		
526	-	-	-	-		31.4	726	4.5	240	-		22,800	1,083		
527	-	-	-	-		30.4	860	4.7	240	-		26,160	1,128		
528	-	-	-	-		21.4	1,847	-	-	-		39,533	-		
529	-	-	-	-		29.3	1,576	-	-	-		46,143	-		
530	-	-	-	-		36.0	1,565	16.1	282	-		56,374	4,524		
531	-	-	-	-		18.9	996	0.0	1,100	-		18,821	6		
532	-	-	-	-		51.0	4,130	16.5	1,100	-		210,511	18,200		
533	-	-	-	-		19.9	1,542	0.7	240	-		30,610	171		
534	-	-	-	-		30.7	3,207	3.3	711	-		98,454	2,356		
535	-	-	-	-		8.0	2,008	-	-	-		16,080	-		
536	-	-	-	-		23.4	1,713	-	-	-		40,044	-		
537	-	-	-	-		2.5	1,985	13.9	1,136	-		5,041	15,838		
538	-	-	-	-		49.4	2,300	4.1	1,100	-		113,676	4,492		
539	-	-	-	-		24.1	1,041	0.6	1,100	-		25,127	643		
540	-	-	-	-		28.6	1,117	0.0	1,100	-		31,920	9		
541	-	-	-	-		22.5	1,674	0.9	1,102	-		37,680	955		
542	-	-	-	-		12.2	1,176	0.0	1,100	-		14,400	37		
543	-	-	-	-		0.1	3,670	27.8	1,100	-		415	30,570		
544	-	-	-	-		17.0	1,886	-	-	-		32,160	-		
545	-	-	-	-		22.5	2,007	6.8	240	-		45,198	1,628		
546	-	-	-	-		12.9	1,347	-	-	-		17,362	-		
547	-	-	-	-		79.1	2,515	23.5	979	-		198,862	22,986		
548	-	-	-	-		9.7	1,593	-	-	-		15,437	-		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
549	-	-	-	-		15.3	6,800	44.2	2,357	-		104,259	104,267		
550	-	-	-	-		9.9	6,800	48.6	2,187	-		67,145	106,256		
551	-	-	-	-		-	-	51.2	-	-		-	-		
552	-	-	-	-		1.2	-	101.9	0	-		-	0		
553	-	-	-	-		-	-	81.8	2,248	-		-	183,945		
554	-	-	-	-		-	-	72.6	1,985	-		-	144,069		
555	-	-	-	-		22.9	1,666	0.0	1,100	-		38,213	0		
556	-	-	-	-		13.6	1,915	-	-	-		26,071	-		
557	-	-	-	-		41.6	2,460	0.1	1,400	-		102,252	205		
558	-	-	-	-		58.3	2,925	15.0	1,100	-		170,386	16,455		
559	-	-	-	-		85.0	1,329	4.5	1,104	-		112,896	4,950		
560	-	-	-	-		60.3	2,957	10.3	1,100	-		178,343	11,301		
561	-	-	-	-		17.8	2,417	2.6	1,069	-		43,007	2,831		
562	-	-	-	-		6.6	2,967	2.0	1,100	-		19,569	2,208		
563	-	-	-	-		46.2	2,518	5.4	1,100	-		116,255	5,925		
564	-	-	-	-		8.4	1,110	0.0	2,505	-		9,314	3		
565	-	-	-	-		25.9	1,216	0.1	1,100	-		31,493	108		
566	-	-	-	-		43.9	1,167	1.9	1,100	-		51,205	2,097		
567	-	-	-	-		97.6	2,397	1.1	1,600	-		233,859	1,820		
568	-	-	-	-		15.2	3,533	123.4	1,600	-		53,663	197,364		
569	-	-	-	-		0.0	2,100	27.1	240	-		19	6,508		
570	-	-	-	-		74.7	3,231	6.1	240	-		241,243	1,457		
571	-	-	-	-		115.5	1,339	121.6	1,639	26,301		154,578	199,292		Grimaud Farms
572	-	-	-	-		61.7	2,100	0.1	240	-		129,663	31		
573	-	-	-	-		10.4	2,100	-	-	-		21,853	-		
574	-	-	-	-		31.6	2,100	-	-	-		66,307	-		
576	-	-	-	-		-	-	83.3	1,152	-		-	95,923		
579	-	-	-	-		-	-	43.0	1,132	-		-	48,657		
580	-	-	-	-		-	-	13.9	1,383	-		-	19,202		
581	-	-	-	-		4.9	478	13.3	850	-		2,326	11,299		
582	-	-	-	-		15.1	225	-	-	-		3,402	-		
583	-	-	-	-		106.5	1,535	-	-	-		163,521	-		
584	-	-	-	-		10.6	1,872	-	-	-		19,848	-		
585	-	-	-	-		52.5	1,501	0.1	1,100	-		78,847	155		
586	-	-	-	-		143.9	1,033	3.2	497	-		148,682	1,577		
587	-	-	-	-		-	-	45.8	39	-		-	1,808		
589	-	-	-	-		-	-	72.5	2,243	-		-	162,591		
590	-	-	-	-		14.9	887	8.0	1,324	-		13,210	10,534		
591	-	-	-	-		-	-	94.1	721	-		-	67,823		
592	-	-	-	-		-	-	30.2	1,787	-		-	53,913		
593	-	-	-	-		-	-	89.2	1,100	227,836		-	98,127		Sodexho
594	-	-	-	-		-	-	284.9	1,390	-		-	396,125		
596	0.0	17	-	-		57.5	5,354	38.2	1,255	-		307,932	48,000		
597	-	-	-	-		-	-	54.6	1,857	-		-	101,487		
598	1.5	3,784	-	-		0.8	5,000	38.1	2,006	-		4,112	76,498		
599	-	-	-	-		-	-	85.0	2,002	-		-	170,198		
600	-	-	-	-		-	-	80.7	2,282	-		-	184,163		
601	-	-	-	-		-	-	90.9	2,174	-		-	197,505		
602	-	-	-	-		13.2	2,298	13.9	2,662	-		30,217	36,985		
603	-	-	-	-		73.0	1,364	24.8	1,447	18,411		99,631	35,914		Creative Research Management
604	-	-	-	-		-	-	4.9	2,003	-		-	9,782		
605	-	-	-	-		37.6	1,397	45.9	1,468	-		52,488	67,391		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
606	-	-	-	-		19.1	2,055	4.5	1,571	-		39,297	7,105			
607	-	-	-	-		-	-	50.3	-	-		-	-			
608	-	-	-	-		-	-	10.9	-	-		-	-			
609	-	-	-	-		-	-	107.9	2,291	-		-	247,206			
610	-	-	-	-		-	-	51.8	2,529	-		-	130,905			
611	-	-	-	-		96.6	1,995	1.2	1,870	-		192,802	2,261			
612	-	-	-	-		-	-	0.0	1,100	-		-	7			
617	-	-	-	-		-	-	65.8	2,999	-		-	197,445			
620	-	-	-	-		59.1	1,049	20.8	884	-		62,068	18,383			
621	-	-	-	-		87.6	874	0.8	2,226	-		76,560	1,716			
623	-	-	-	-		15.2	3,057	48.3	812	-		46,497	39,206			
624	-	-	-	-		13.3	4,790	69.4	2,909	-		63,627	201,984			
625	-	-	-	-		0.7	1,126	133.0	2,208	-		751	293,711			
626	-	-	-	-		133.5	1,090	56.5	1,506	-		145,550	85,092			
627	-	-	-	-		24.3	1,472	10.5	1,296	-		35,834	13,595			
628	-	-	-	-		0.1	4,654	24.2	1,522	-		677	36,866			
629	-	-	-	-		0.1	-	30.5	-	-		-	-			
630	-	-	-	-		24.7	-	11.9	-	-		-	-			
631	-	-	-	-		12.0	544	0.7	-	-		6,504	-			
632	-	-	-	-		7.6	800	0.0	-	-		6,037	-			
633	-	-	-	-		35.9	1,238	8.2	1,391	-		44,468	11,393			
634	-	-	-	-		16.9	71	2.6	-	-		1,200	-			
635	-	-	-	-		9.3	6,058	8.7	96	-		56,481	836			
636	-	-	-	-		9.4	214	1.6	30	-		2,000	50			
637	-	-	-	-		5.3	597	0.8	240	-		3,189	191			
638	-	-	-	-		86.8	1,205	-	-	-		104,628	-			
639	-	-	-	-		100.0	1,004	4.9	240	-		100,347	1,187			
640	-	-	-	-		0.7	2,078	85.7	10	-		1,531	868			
641	-	-	-	-		-	-	39.3	144	-		-	5,656			
642	-	-	-	-		-	-	42.4	6	32,877		-	249			California Tank Lines
643	-	-	-	-		15.3	194	12.7	953	-		2,963	12,077			
644	-	-	-	-		0.0	-	30.8	453	-		-	13,949			
646	-	-	-	-		-	-	215.9	1,510	-		-	325,985			
647	-	-	-	-		-	-	21.7	2,323	-		-	50,308			
650	-	-	-	-		1.0	3,144	48.9	2,268	-		3,180	110,911			
652	-	-	-	-		0.8	2,100	30.1	2,292	-		1,751	68,889			
653	-	-	-	-		17.6	2,975	4.6	1,400	-		52,261	6,373			
654	-	-	-	-		0.0	3,144	69.8	1,933	-		49	134,849			
655	-	-	-	-		21.9	3,536	7.8	2,001	-		77,281	15,575			
656	-	-	-	-		0.0	35,220	56.1	2,416	-		240	135,611			
659	-	-	-	-		32.7	1,705	7.9	2,149	-		55,730	16,952			
660	-	-	-	-		18.9	3,767	53.6	1,847	-		71,090	98,997			
661	-	-	-	-		9.2	3,281	4.2	2,400	-		30,162	10,164			
662	-	-	-	-		19.1	4,057	22.8	1,924	-		77,602	43,780			
663	-	-	-	-		-	-	13.9	1,709	-		-	23,797			
664	-	-	-	-		-	-	14.7	1,204	-		-	17,734			
666	-	-	-	-		0.0	5,000	53.1	1,767	-		1	93,752			
667	-	-	-	-		9.4	4,042	58.2	2,008	-		38,120	116,785			
670	-	-	-	-		-	-	48.8	1,480	-		-	72,304			
671	-	-	-	-		15.3	978	44.7	1,700	-		14,984	75,938			
673	-	-	-	-		16.3	2,692	10.5	2,481	-		43,785	26,083			
675	-	-	-	-		-	-	4.8	1,286	-		-	6,168			

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
678	-	-	-	-		-	-	29.8	2,999	-		-	89,230		
679	-	-	-	-		-	-	14.7	-	-		-	-		
681	-	-	-	-		-	-	193.0	2,446	-		-	472,239		
683	-	-	-	-		0.7	-	7.8	2,660	-		-	20,696		
686	-	-	-	-		0.7	-	27.1	-	-		-	-		
689	-	-	-	-		21.9	2,100	59.2	1,625	-		46,015	96,161		
690	-	-	-	-		12.8	5,000	29.3	2,344	-		64,165	68,677		
692	-	-	-	-		72.0	1,051	7.3	1,151	-		75,756	8,407		
693	-	-	-	-		60.6	1,127	-	-	-		68,337	-		
694	-	-	-	-		129.0	1,150	62.0	1,122	-		148,339	69,538		
695	-	-	-	-		0.9	2,100	57.2	2,213	-		1,798	126,507		
697	-	-	-	-		-	-	61.6	2,517	-		-	155,000		
698	-	-	-	-		-	-	128.4	2,740	-		-	351,770		
699	-	-	-	-		-	-	72.5	1,579	-		-	114,506		
700	0.3	620	-	-		45.9	2,100	27.6	2,894	-		96,291	80,014		
701	-	-	-	-		-	-	28.2	1,425	-		-	40,213		
702	-	-	-	-		0.7	2,100	28.4	2,846	-		1,519	80,762		
703	-	-	-	-		15.9	3,484	10.4	2,400	-		55,249	24,930		
704	-	-	-	-		28.4	5,000	10.8	1,972	-		142,226	21,272		
705	-	-	-	-		-	-	38.3	2,419	-		-	92,724		
706	-	-	-	-		-	-	111.1	2,579	-		-	286,588		
707	-	-	-	-		-	-	60.4	2,565	-		-	154,942		
708	-	-	-	-		36.0	2,144	1.9	2,934	-		77,258	5,478		
709	-	-	-	-		5.9	2,611	18.1	1,884	-		15,282	34,037		
710	-	-	-	-		53.9	4,473	6.0	1,718	-		241,212	10,329		
714	-	-	-	-		11.0	1,022	0.1	1,400	-		11,228	179		
715	-	-	-	-		0.6	-	27.8	-	-		-	-		
717	-	-	-	-		-	-	13.4	1,241	-		-	16,689		
719	-	-	-	-		-	-	2.3	1,406	-		-	3,294		
720	-	-	-	-		0.6	5,568	16.2	2,130	-		3,198	34,606		
721	-	-	-	-		-	-	10.6	1,143	-		-	12,058		
722	-	-	-	-		12.3	5,769	13.1	1,996	-		71,027	26,126		
723	-	-	-	-		50.6	871	-	-	-		44,050	-		
724	-	-	-	-		30.5	2,100	0.1	3,000	-		64,039	208		
725	-	-	-	-		35.5	2,100	0.1	2,917	-		74,588	249		
726	-	-	-	-		51.1	971	21.0	1,892	-		49,647	39,676		
727	-	-	-	-		0.8	3,724	10.0	240	-		2,806	2,403		
728	-	-	-	-		25.3	6,339	14.7	2,000	-		160,395	29,445		
729	-	-	-	-		9.8	5,000	17.7	1,102	-		48,908	19,508		
730	0.3	711	-	-		66.4	2,267	18.2	1,833	-		150,437	33,362		
731	-	-	-	-		0.0	2,100	61.2	2,020	-		45	123,624		
732	0.1	353	-	-		-	-	27.7	2,002	-		-	55,409		
733	-	-	-	-		22.8	-	4.8	-	-		-	-		
734	-	-	-	-		48.1	1,107	-	-	-		53,244	-		
735	-	-	-	-		108.3	1,271	6.1	618	-		137,618	3,785		
736	-	-	-	-		113.6	1,097	0.2	348	-		124,630	85		
738	-	-	-	-		25.3	966	40.3	1,348	-		24,444	54,302		
739	-	-	-	-		-	-	38.1	2,300	-		-	87,571		
740	-	-	-	-		1.6	149	66.5	2,300	-		243	153,034		
741	-	-	-	-		-	-	44.6	2,231	-		-	99,423		
742	-	-	-	-		-	-	19.0	2,300	-		-	43,803		
743	-	-	-	-		-	-	30.2	2,300	-		-	69,475		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
744	-	-	-	-		53.8	2,100	-	-	-		112,928	-			
745	-	-	-	-		107.0	2,100	2.7	2,300	-		224,666	6,195			
747	-	-	-	-		31.4	989	-	-	-		31,087	-			
748	-	-	-	-		-	-	74.4	2,300	-		-	171,089			
749	-	-	-	-		144.9	2,100	-	-	-		304,281	-			
750	-	-	-	-		103.0	2,100	-	-	-		216,218	-			
751	-	-	-	-		64.9	1,379	4.6	247	-		89,447	1,144			
752	0.4	1,064	-	-		57.1	2,103	25.7	1,752	-		120,075	45,098			
753	0.0	5	-	-		70.0	3,925	0.0	2,460	-		274,833	5			
754	-	-	-	-		39.1	1,898	11.2	812	-		74,194	9,086			
755	-	-	-	-		48.4	2,100	3.2	331	-		101,585	1,068			
756	-	-	-	-		-	-	94.8	3,000	-		-	284,366			
757	0.0	122	-	-		61.4	2,100	0.0	2,460	-		128,966	122			
758	-	-	-	-		86.2	2,100	13.0	1,471	-		180,947	19,098			
759	-	-	-	-		103.5	4,161	7.1	240	-		430,669	1,714			
760	0.1	254	-	-		41.1	2,100	16.1	1,358	-		86,353	21,828			
761	3.0	7,262	-	-		71.3	2,983	3.0	2,460	-		212,569	7,262			
762	-	-	-	-		-	-	131.0	3,000	-		-	392,903			
763	-	-	-	-		-	-	155.6	2,716	-		-	422,621			
764	-	-	-	-		-	-	99.8	3,000	-		-	299,474			
765	-	-	-	-		-	-	185.0	2,991	-		-	553,297			
766	-	-	-	-		-	-	106.4	3,000	-		-	319,169			
767	-	-	-	-		-	-	80.0	3,000	-		-	239,953			
768	-	-	-	-		-	-	162.0	2,979	-		-	482,524			
769	-	-	-	-		-	-	114.6	3,000	-		-	343,720			
770	-	-	-	-		0.0	2,100	119.8	3,000	-		89	359,357			
771	-	-	-	-		0.0	2,100	98.9	3,000	-		88	296,774			
772	-	-	-	-		0.6	-	-	-	-		-	-			
773	-	-	-	-		-	-	-	-	-		-	-			
774	-	-	-	-		0.0	404	-	-	-		9	-			
775	-	-	-	-		-	-	101.4	3,000	-		-	304,159			
776	-	-	-	-		66.7	4,094	2.5	240	-		272,929	595			
777	-	-	-	-		0.0	5,000	47.3	2,002	-		66	94,650			
778	-	-	-	-		60.9	2,100	117.1	1,889	-		127,788	221,169			
779	-	-	-	-		84.7	2,100	-	-	-		177,878	-			
780	-	-	-	-		78.7	2,100	13.7	1,600	-		165,186	21,899			
781	-	-	-	-		62.4	2,100	1.7	240	-		130,998	417			
782	-	-	-	-		57.8	2,104	5.2	240	-		121,617	1,239			
783	-	-	-	-		43.4	2,100	2.6	240	-		91,042	628			
784	-	-	-	-		40.7	2,100	5.0	240	-		85,503	1,204			
785	-	-	-	-		49.2	2,100	1.1	240	-		103,263	265			
786	-	-	-	-		52.5	2,520	4.3	240	-		132,334	1,039			
787	-	-	-	-		36.1	2,105	4.8	240	-		75,889	1,154			
788	-	-	-	-		105.7	2,100	28.9	240	-		222,073	6,935			
789	-	-	-	-		77.6	5,000	20.4	240	-		388,053	4,898			
790	-	-	-	-		120.6	2,100	29.9	1,111	-		253,322	33,250			
791	-	-	-	-		67.5	2,100	-	-	-		141,705	-			
792	-	-	-	-		139.6	3,489	13.8	240	-		487,285	3,307			
793	-	-	-	-		71.5	4,427	16.1	276	-		316,551	4,437			
794	-	-	-	-		42.5	4,878	10.1	240	-		207,514	2,412			
795	-	-	-	-		71.8	2,100	6.7	240	-		150,700	1,611			
796	-	-	-	-		77.3	2,432	78.6	584	-		187,898	45,904			

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
797	4.5	11,065	-	-		104.1	2,100	25.7	1,481	-		218,529	38,080		
798	-	-	-	-		54.3	5,691	15.0	1,999	-		309,002	30,055		
799	0.2	491	-	-		99.7	2,109	3.1	382	-		210,377	1,190		
800	0.1	260	-	-		76.9	2,100	28.0	249	-		161,570	6,967		
801	98.9	243,172	-	-		-	-	98.9	2,460	-		-	243,172		
802	124.0	305,075	-	-		-	-	124.0	2,460	-		-	305,075		
803	98.8	243,130	-	-		-	-	98.8	2,460	-		-	243,130		
804	83.7	205,821	-	-		0.0	2,100	83.7	2,460	-		2	205,821		
805	9.0	22,039	-	-		51.0	6,228	9.0	2,460	-		317,529	22,039		
806	89.0	218,932	-	-		0.1	2,100	89.7	2,456	-		174	220,438		
807	63.0	154,870	-	-		0.3	2,100	63.0	2,460	-		583	154,870		
808	132.7	326,559	-	-		-	-	136.3	2,402	-		-	327,406		
809	100.7	247,609	-	-		0.0	2,100	100.8	2,461	-		0	248,182		
810	122.8	302,209	-	-		-	-	122.8	2,460	-		-	302,209		
811	100.7	247,725	-	-		-	-	100.7	2,460	-		-	247,730		
812	114.9	282,773	-	-		-	-	114.9	2,460	-		-	282,773		
813	118.0	290,228	-	-		-	-	118.0	2,460	-		-	290,228		
814	132.0	324,615	-	-		-	-	132.0	2,460	-		-	324,615		
815	114.0	280,322	-	-		-	-	114.0	2,460	-		-	280,322		
816	165.1	406,098	-	-		-	-	165.4	2,458	-		-	406,637		
817	43.9	108,093	-	-		-	-	43.9	2,460	-		-	108,093		
818	80.4	197,681	-	-		-	-	80.4	2,460	-		-	197,681		
819	30.4	74,698	-	-		-	-	155.5	1,768	-		-	274,949		
820	89.6	220,480	-	-		-	-	89.6	2,460	-		-	220,480		
821	85.3	209,941	-	-		-	-	85.3	2,460	-		-	209,941		
822	-	-	-	-		37.8	2,100	-	-	-		79,303	-		
823	0.0	0	-	-		78.7	3,701	25.3	735	-		291,112	18,610		
824	2.3	5,608	-	-		-	-	87.1	1,983	-		-	172,714		
825	86.8	213,468	-	-		-	-	86.8	2,460	-		-	213,468		
826	83.6	205,619	-	-		-	-	83.6	2,460	-		-	205,619		
827	65.3	160,697	-	-		-	-	65.3	2,460	-		-	160,697		
828	-	-	-	-		-	-	85.5	2,981	-		-	255,002		
829	-	-	-	-		-	-	76.9	3,000	-		-	230,554		
830	-	-	-	-		-	-	56.1	3,000	-		-	168,337		
831	-	-	-	-		58.7	45	12.5	2,698	-		2,640	33,624		
832	-	-	-	-		24.5	6,800	103.7	1,973	-		166,669	204,569		
833	-	-	-	-		157.0	2,100	-	-	-		329,676	-		
834	-	-	-	-		66.5	2,100	5.7	240	-		139,574	1,375		
835	-	-	-	-		165.2	5,184	108.9	1,540	-		856,537	167,769		
836	-	-	-	-		50.2	2,100	0.0	3,000	-		105,362	0		
837	-	-	-	-		10.6	113	69.5	2,419	-		1,200	168,184		
838	0.8	1,982	-	-		178.8	5,000	47.1	1,225	-		894,243	57,736		
839	-	-	-	-		159.8	4,857	18.9	1,574	-		776,372	29,748		
840	-	-	-	-		125.2	2,100	37.8	931	-		262,990	35,202		
841	-	-	-	-		77.6	2,100	49.4	240	-		162,959	11,861		
842	-	-	-	-		93.7	2,100	-	-	-		196,781	-		
843	-	-	-	-		46.1	5,000	67.4	1,549	-		230,664	104,353		
844	-	-	-	-		-	-	124.7	3,000	-		-	374,189		
845	-	-	-	-		-	-	96.6	3,000	-		-	289,713		
846	-	-	-	-		-	-	66.2	3,000	-		-	198,465		
847	-	-	-	-		-	-	73.7	3,000	-		-	221,237		
848	-	-	-	-		-	-	106.2	3,000	-		-	318,732		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
849	-	-	-	-		-	-	70.0	3,000	-		-	210,097			
850	-	-	-	-		-	-	108.2	3,000	-		-	324,744			
851	-	-	-	-		-	-	85.7	3,000	-		-	257,129			
852	-	-	-	-		-	-	50.1	3,000	-		-	150,315			
853	-	-	-	-		-	-	78.7	3,000	-		-	235,963			
854	-	-	-	-		-	-	100.4	3,000	-		-	301,186			
855	-	-	-	-		-	-	117.1	3,000	-		-	351,385			
856	-	-	-	-		-	-	63.9	3,000	-		-	191,836			
857	-	-	-	-		-	-	149.0	3,000	-		-	446,972			
858	-	-	-	-		-	-	79.9	3,000	-		-	239,687			
859	-	-	-	-		-	-	60.6	3,000	-		-	181,848			
860	-	-	-	-		-	-	120.3	3,000	-		-	360,883			
861	-	-	-	-		-	-	152.6	3,000	-		-	457,684			
862	-	-	-	-		-	-	128.1	2,325	-		-	297,890			
863	-	-	-	-		-	-	143.0	3,000	-		-	428,935			
864	-	-	-	-		-	-	77.9	3,000	-		-	233,700			
865	-	-	-	-		-	-	58.9	3,000	-		-	176,601			
866	1.7	4,083	-	-		74.6	2,100	68.4	2,047	-		156,737	139,928			
867	-	-	-	-		-	-	66.8	3,000	-		-	200,519			
868	-	-	-	-		-	-	106.8	3,000	-		-	320,463			
869	-	-	-	-		-	-	184.6	2,872	-		-	530,110			
870	-	-	-	-		-	-	81.9	1,991	-		-	163,073			
871	-	-	-	-		-	-	82.9	3,000	-		-	248,746			
872	-	-	-	-		-	-	85.8	2,988	-		-	256,362			
873	-	-	-	-		-	-	34.4	3,000	-		-	103,346			
874	-	-	-	-		-	-	63.7	2,411	-		-	153,574			
875	76.9	189,293	-	-		-	-	76.9	2,460	-		-	189,293			
876	2.7	6,639	-	-		76.8	2,100	5.4	2,729	-		161,316	14,666			
877	43.2	106,209	-	-		-	-	43.2	2,460	-		-	106,209			
878	145.5	357,988	-	-		-	-	145.5	2,460	-		-	357,988			
879	118.7	291,978	-	-		-	-	118.7	2,460	-		-	291,978			
880	59.6	146,672	-	-		-	-	59.6	2,460	-		-	146,672			
881	1.8	4,341	-	-		-	-	69.6	2,402	-		-	167,111			
882	43.0	105,826	-	-		-	-	74.8	2,435	-		-	182,134			
883	147.1	361,894	-	-		-	-	147.1	2,460	-		-	361,894			
884	122.4	301,057	-	-		-	-	122.4	2,460	-		-	301,057			
885	169.0	415,621	-	-		-	-	169.0	2,460	-		-	415,621			
886	259.2	637,561	-	-		-	-	259.2	2,460	-		-	637,561			
887	79.6	195,909	-	-		-	-	79.6	2,460	-		-	195,909			
888	147.7	363,283	-	-		-	-	147.7	2,460	-		-	363,283			
889	142.8	351,298	-	-		-	-	142.8	2,460	-		-	351,298			
890	132.1	325,021	-	-		-	-	132.1	2,460	-		-	325,021			
891	36.3	89,246	-	-		-	-	36.3	2,460	-		-	89,246			
892	60.6	148,966	-	-		-	-	60.6	2,460	-		-	148,966			
893	30.7	75,487	-	-		-	-	30.7	2,460	-		-	75,487			
894	8.6	21,238	-	-		65.0	1,975	8.6	2,460	-		128,433	21,238			
895	164.3	404,224	-	-		-	-	164.3	2,460	-		-	404,224			
896	-	-	-	-		3.0	2,078	34.7	2,740	-		6,271	95,004			
897	-	-	-	-		-	-	74.0	2,140	-		-	158,489			
898	-	-	-	-		43.1	2,075	-	-	-		89,534	-			
899	-	-	-	-		57.3	1,665	4.8	2,000	-		95,363	9,507			
900	-	-	-	-		36.3	2,040	24.7	2,220	-		74,131	54,887			

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
901	-	-	-	-		36.2	2,100	-	-	-		75,918	-		
902	55.5	136,603	-	-		14.3	2,100	62.0	2,230	-		29,965	138,144		
903	-	-	-	-		-	-	79.3	3,000	-		-	237,850		
904	-	-	-	-		-	-	137.8	2,177	-		-	300,062		
905	123.4	303,442	-	-		-	-	231.4	2,410	-		-	557,490		
906	92.6	227,693	-	-		-	-	92.6	2,460	-		-	227,693		
907	112.3	276,355	-	-		-	-	112.3	2,460	-		-	276,357		
908	-	-	-	-		-	-	65.5	1,739	-		-	113,835		
909	-	-	-	-		-	-	44.7	2,118	-		-	94,594		
910	87.3	214,787	-	-		-	-	87.3	2,460	-		-	214,787		
911	128.3	315,735	-	-		-	-	128.3	2,460	-		-	315,735		
912	104.8	257,707	-	-		-	-	104.8	2,460	-		-	257,707		
913	36.9	90,696	-	-		-	-	36.9	2,460	-		-	90,696		
914	0.8	2,024	-	-		74.3	2,664	20.9	1,298	-		197,932	27,193		
915	104.8	257,910	-	-		-	-	104.8	2,460	-		-	257,910		
916	-	-	-	-		-	-	47.4	2,884	-		-	136,781		
917	-	-	-	-		76.6	2,100	1.7	3,000	-		160,838	5,007		
918	-	-	-	-		-	-	61.0	1,476	-		-	90,031		
919	-	-	-	-		-	-	32.8	2,000	-		-	65,563		
920	-	-	-	-		76.1	2,100	1.9	3,000	-		159,729	5,707		
921	24.7	60,692	-	-		-	-	24.7	2,460	-		-	60,692		
922	4.5	11,058	-	-		74.3	2,070	4.5	2,460	-		153,911	11,058		
923	4.4	10,899	-	-		84.6	2,100	5.7	2,584	-		177,668	14,847		
924	-	-	-	-		55.8	2,100	44.4	2,400	-		117,096	106,447		
925	-	-	-	-		-	-	131.2	2,842	-		-	372,928		
926	-	-	-	-		-	-	197.5	2,979	-		-	588,448		
927	-	-	-	-		-	-	214.9	2,999	-		-	644,611		
928	-	-	-	-		-	-	64.6	-	167,671		-	-		California Spray Dry Co.
929	-	-	-	-		-	-	-	-	-		-	-		
930	-	-	-	-		-	-	-	-	-		-	-		
931	-	-	-	-		-	-	-	-	-		-	-		
932	-	-	-	-		30.8	2,100	-	-	-		64,698	-		
933	-	-	-	-		84.2	2,100	-	-	-		176,850	-		
934	-	-	-	-		0.6	2,100	-	-	-		1,187	-		
935	-	-	-	-		-	-	77.0	1,600	-		-	123,139		
936	-	-	-	-		-	-	159.2	1,600	-		-	254,667		
937	-	-	-	-		-	-	26.0	1,600	-		-	41,619		
938	-	-	-	-		47.6	2,100	53.6	240	-		99,861	12,872		
939	-	-	-	-		-	-	85.4	1,600	-		-	136,644		
940	-	-	-	-		-	-	106.8	1,600	-		-	170,830		
941	-	-	-	-		92.4	2,100	0.0	240	-		193,983	1		
942	-	-	-	-		136.0	2,043	0.0	240	-		277,909	0		
943	-	-	-	-		99.7	2,055	-	-	-		204,804	-		
944	-	-	-	-		63.9	2,100	-	-	-		134,126	-		
945	-	-	-	-		-	-	-	-	-		-	-		
946	-	-	-	-		0.0	2,100	111.9	1,600	-		2	179,083		
947	-	-	-	-		98.1	2,100	0.4	1,600	-		205,968	632		
953	0.1	332	-	-		39.8	2,100	0.1	2,460	-		83,504	332		
954	-	-	-	-		-	-	49.9	3,000	-		-	149,762		
955	-	-	-	-		11.5	4,810	68.1	967	-		55,186	65,879		
956	-	-	-	-		-	-	9.2	3,000	-		-	27,600		
957	-	-	-	-		-	-	9.7	1,730	-		-	16,778		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF			Notes
958	-	-	-	-		-	-	2.3	2,000	-		-	4,663			
959	-	-	-	-		-	-	3.7	-	54,247		-	-			Unifirst Corp
960	-	-	-	-		-	-	4.2	-	20,861		-	-			Del Monte Foods, USA
961	-	-	-	-		-	-	22.9	-	1,972,603		-	-			Unilever Bestfoods
962	-	-	-	-		-	-	58.7	1,404	-		-	82,479			
963	-	-	-	-		0.3	2,100	1.1	2,331	-		530	2,509			
964	-	-	-	-		-	-	2.0	2,600	-		-	5,144			
965	-	-	-	-		-	-	11.1	-	180,822		-	-			POSDEF Power Company
966	-	-	-	-		-	-	10.4	-	101,918		-	-			California Cedar Products
967	-	-	-	-		-	-	9.4	-	394,521		-	-			Hormel
968	-	-	-	-		0.6	-	40.2	-	99,512		-	-			Newark Sierra Paper Board
969	-	-	-	-		-	-	16.0	-	176,548		-	-			Zacky Kitchens
970	-	-	-	-		-	-	11.2	2,398	-		-	26,957			
971	-	-	-	-		0.7	-	16.4	-	821,918		-	-			H.J. Heinz
972	-	-	-	-		0.9	-	27.7	-	-		-	-			
973	-	-	-	-		-	-	12.8	-	1,972,603		-	-			Campbell Soup Supply
974	-	-	-	-		-	-	9.0	-	64,110		-	-			Air Products
975	-	-	-	-		-	-	42.9	-	854,795		-	-			Corn Products
976	-	-	-	-		-	-	687.7	1,279	-		-	879,288			
977	-	-	-	-		-	-	814.1	9	-		-	7,471			
978	-	-	-	-		-	-	1,463.0	-	730,588		-	-			Port of Stk + Diamond of CA
979	-	-	-	-		-	-	137.1	3,000	-		-	411,267			
980	-	-	-	-		-	-	74.5	1,903	-		-	141,720			
981	-	-	-	-		-	-	167.7	-	350,447		-	-			San Joaquin County Hospital
982	-	-	-	-		-	-	112.0	255	-		-	28,562			
983	-	-	-	-		39.1	2,331	138.5	1,455	-		91,106	201,584			
984	-	-	-	-		89.2	2,100	4.3	240	-		187,420	1,027			
985	-	-	-	-		114.1	2,296	7.8	2,000	-		261,969	15,694			
986	-	-	-	-		-	-	33.9	2,300	-		-	78,021			
987	-	-	-	-		-	-	72.2	2,300	-		-	166,175			
988	-	-	-	-		-	-	81.8	2,300	-		-	188,165			
989	-	-	-	-		0.5	2,100	24.8	2,300	-		1,078	56,934			
990	-	-	-	-		-	-	22.8	2,300	-		-	52,346			
991	-	-	-	-		-	-	47.5	2,300	-		-	109,190			
992	-	-	-	-		-	-	88.9	2,300	-		-	204,414			
993	-	-	-	-		0.7	2,100	71.1	2,300	-		1,453	163,614			
994	-	-	-	-		-	-	56.5	1,600	-		-	90,435			
995	-	-	-	-		-	-	2.1	1,412	-		-	2,901			
996	22.8	56,026	-	-		67.6	3,315	45.2	1,358	-		223,942	61,412			
997	0.0	112	-	-		-	-	25.0	1,042	-		-	26,052			
998	-	-	-	-		-	-	0.0	3,000	-		-	20			
999	-	-	-	-		-	-	61.2	3,000	-		-	183,696			
1000	-	-	-	-		-	-	60.6	3,000	-		-	181,671			
1001	-	-	-	-		-	-	106.0	2,106	-		-	223,341			
1002	6.7	16,438	-	-		-	-	39.0	2,907	-		-	113,285			
1003	-	-	-	-		-	-	84.3	3,000	-		-	252,755			
1004	-	-	-	-		-	-	118.4	1,827	-		-	216,346			
1005	0.1	174	-	-		-	-	80.6	2,978	-		-	239,911			
1006	0.1	130	-	-		-	-	128.6	1,104	-		-	141,994			
1007	38.3	94,264	-	-		1.3	2,100	38.3	2,460	-		2,721	94,264			
1008	26.5	65,310	-	-		1.4	2,100	26.5	2,460	-		2,863	65,310			
1009	81.4	200,255	-	-		-	-	81.4	2,460	-		-	200,255			

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
1010	6.0	14,863	-	-		82.0	2,100	14.1	1,195	-		172,204	16,786		
1011	61.6	151,567	-	-		-	-	61.6	2,460	-		-	151,567		
1012	44.5	109,580	-	-		-	-	44.5	2,460	-		-	109,580		
1013	75.2	184,977	-	-		-	-	75.2	2,460	-		-	184,977		
1014	57.2	140,683	-	-		-	-	57.2	2,460	-		-	140,683		
1015	51.5	126,721	-	-		-	-	51.5	2,460	-		-	126,721		
1016	21.3	52,390	-	-		-	-	21.3	2,460	-		-	52,390		
1017	3.0	7,437	-	-		-	-	124.2	1,135	-		-	140,886		
1018	1.5	3,723	-	-		-	-	109.9	1,119	-		-	122,993		
1019	141.8	348,728	-	-		-	-	141.8	2,460	-		-	348,728		
1020	-	-	-	-		-	-	-	-	-		-	-		Northern CA Youth Center
1021	-	-	-	-		-	-	-	-	-		-	-		Northern CA Youth Center
1022	-	-	-	-		-	-	-	-	-		-	-		Northern CA Youth Center
1023	-	-	-	-		-	-	-	-	266,667		-	-		Northern CA Youth Center
1024	-	-	-	-		-	-	-	-	266,667		-	-		Northern CA Youth Center
1025	-	-	-	-		-	-	128.7	1,600	-		-	205,943		
1026	-	-	-	-		-	-	-	-	266,666		-	-		Northern CA Youth Center
1027	-	-	-	-		-	-	91.1	1,600	-		-	145,762		
1028	-	-	-	-		-	-	130.9	3,000	-		-	392,773		
1029	-	-	-	-		-	-	143.6	3,000	-		-	430,817		
1030	-	-	-	-		-	-	207.8	2,999	-		-	623,323		
1031	-	-	-	-		-	-	184.9	2,999	-		-	554,450		
1032	-	-	-	-		-	-	60.1	3,000	-		-	180,355		
1033	-	-	-	-		-	-	56.5	3,000	-		-	169,497		
1034	-	-	-	-		-	-	80.3	3,000	-		-	240,944		
1035	-	-	-	-		1.2	522	107.8	2,205	-		641	237,556		
1036	-	-	-	-		70.1	2,100	30.0	1,125	-		147,299	33,714		
1037	-	-	-	-		71.5	2,100	21.2	1,307	-		150,222	27,652		
1038	-	-	-	-		110.4	2,100	-	-	-		231,928	-		
1039	-	-	-	-		73.2	2,100	19.1	1,580	-		153,658	30,250		
1040	-	-	-	-		102.3	2,107	29.6	240	-		215,518	7,094		
1041	-	-	-	-		64.0	4,830	18.3	603	-		308,941	11,014		
1042	-	-	-	-		-	-	87.7	3,000	-		-	262,961		
1043	-	-	-	-		57.6	42	58.5	2,327	-		2,400	136,031		
1044	-	-	-	-		-	-	97.5	2,465	-		-	240,399		
1045	-	-	-	-		51.7	2,100	5.6	240	-		108,613	1,355		
1046	-	-	-	-		80.9	4,719	38.6	909	-		381,512	35,091		
1047	0.4	961	-	-		69.5	5,934	7.5	356	-		412,133	2,666		
1048	-	-	-	-		93.3	2,100	0.1	1,600	-		195,863	236		
1049	-	-	-	-		-	-	48.9	-	-		-	-		
1050	-	-	-	-		30.3	2,029	55.1	2,998	-		61,431	165,032		
1051	-	-	-	-		-	-	82.1	718	-		-	58,882		
1052	-	-	-	-		-	-	82.5	2,049	-		-	169,036		
1053	-	-	-	-		-	-	86.8	3,000	-		-	260,498		
1054	-	-	-	-		-	-	65.7	2,174	-		-	142,941		
1055	-	-	-	-		-	-	0.0	1,775	-		-	4		
1056	-	-	-	-		0.3	-	-	-	-		-	-		
1057	-	-	-	-		0.2	-	-	-	-		-	-		
1058	-	-	-	-		-	-	67.2	1,102	-		-	74,047		
1059	-	-	-	-		-	-	59.5	1,600	-		-	95,266		
1060	-	-	-	-		-	-	61.4	2,274	-		-	139,653		
1061	-	-	-	-		0.7	2,100	55.5	1,656	-		1,407	91,946		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
1062	-	-	-	-		57.4	2,100	28.7	1,012	-		120,612	29,028		
1063	-	-	-	-		42.4	2,125	10.4	2,300	-		90,212	23,832		
1064	44.2	108,804	-	-		-	-	44.2	2,460	-		-	108,804		
1068	-	-	-	-		-	-	40.4	1,889	-		-	76,393		
1069	-	-	-	-		23.3	2,117	36.7	2,289	-		49,338	84,015		
1070	-	-	-	-		30.8	3,546	22.1	702	-		109,328	15,499		
1071	-	-	-	-		92.2	2,100	-	-	-		193,583	-		
1072	-	-	-	-		68.1	2,100	-	-	-		143,014	-		
1073	-	-	-	-		73.0	2,100	-	-	-		153,219	-		
1074	0.1	229	-	-		62.0	2,100	0.1	2,314	-		130,266	260		
1075	-	-	-	-		37.8	4,895	27.5	2,250	-		184,960	61,789		
1076	-	-	-	-		74.2	2,100	26.7	1,126	-		155,913	30,023		
1077	-	-	-	-		48.5	5,000	10.2	386	-		242,270	3,933		
1078	-	-	-	-		44.2	5,000	34.9	1,260	-		221,094	43,992		
1079	-	-	-	-		63.2	2,100	12.0	240	-		132,732	2,878		
1080	-	-	-	-		47.9	2,100	-	-	-		100,513	-		
1081	-	-	-	-		48.7	2,100	-	-	-		102,221	-		
1082	-	-	-	-		108.8	3,928	21.3	1,600	-		427,211	34,085		
1083	-	-	-	-		67.2	2,100	-	-	-		141,163	-		
1084	-	-	-	-		34.9	4,844	5.1	1,139	-		169,002	5,827		
1085	0.2	541	-	-		47.0	5,000	0.2	2,460	-		234,780	541		
1086	0.0	110	-	-		43.4	6,797	6.4	1,093	-		295,188	6,949		
1087	-	-	-	-		62.7	2,100	4.2	240	-		131,739	1,008		
1088	-	-	-	-		39.2	3,183	4.2	240	-		124,840	996		
1089	-	-	-	-		17.2	2,100	10.9	1,837	-		36,078	20,061		
1090	0.0	35	-	-		35.6	5,000	0.0	2,460	-		177,966	35		
1091	0.0	0	-	-		47.1	2,100	0.0	2,460	-		98,823	0		
1092	-	-	-	-		36.5	2,100	-	-	-		76,737	-		
1093	-	-	-	-		54.0	2,100	-	-	-		113,449	-		
1094	-	-	-	-		41.4	2,100	8.4	1,850	-		86,966	15,598		
1095	-	-	-	-		0.0	6,800	45.1	2,000	-		157	90,257		
1096	-	-	-	-		48.9	5,941	37.3	1,775	-		290,264	66,166		
1097	-	-	-	-		87.0	4,426	1.9	240	-		385,156	468		
1098	2.0	5,001	-	-		62.0	2,077	18.6	1,654	-		128,657	30,801		
1099	3.9	9,603	-	-		84.4	2,087	5.3	1,885	-		176,230	9,931		
1100	7.5	18,337	-	-		3.3	2,100	56.6	1,713	-		6,872	96,971		
1101	43.8	107,651	-	-		-	-	43.8	2,460	-		-	107,651		
1102	0.0	51	-	-		77.2	2,100	2.9	256	-		162,016	751		
1103	-	-	-	-		55.7	5,382	25.8	871	-		299,826	22,442		
1104	0.0	42	-	-		70.9	2,100	0.0	2,460	-		148,850	42		
1105	-	-	-	-		64.1	4,526	14.9	2,000	-		289,973	29,822		
1106	8.4	20,772	-	-		27.3	2,100	8.4	2,460	-		57,267	20,772		
1107	4.9	12,096	-	-		42.1	5,000	4.9	2,460	-		210,272	12,096		
1108	0.1	250	-	-		59.1	2,100	6.4	1,068	-		124,023	6,887		
1109	64.9	159,543	-	-		-	-	64.9	2,460	-		-	159,543		
1110	33.1	81,375	-	-		-	-	33.1	2,460	-		-	81,375		
1111	69.9	172,012	-	-		-	-	69.9	2,460	-		-	172,012		
1112	49.1	120,798	-	-		-	-	49.1	2,460	-		-	120,798		
1113	58.8	144,541	-	-		-	-	58.8	2,460	-		-	144,541		
1114	79.7	196,088	-	-		-	-	79.7	2,460	-		-	196,088		
1115	44.3	109,018	-	-		-	-	44.3	2,460	-		-	109,018		
1116	51.5	126,739	-	-		-	-	51.5	2,460	-		-	126,739		

Table H-2. Land Use Information by Service Area Used for the 2035 Buildout Conditions Model

	Village		Water			Buildout									
SA-G_ID	Acreage	ADWF (gpd)	Acreage	ADWF (gpd)		Res_Pop	Res_cpc	Vis_Pop	Vis_cpc	Comm		Res_ADWF	Vis_ADWF		Notes
1117	59.4	146,054	-	-		-	-	59.4	2,460	-		-	146,054		
1118	40.5	99,584	-	-		-	-	40.5	2,460	-		-	99,584		
1119	66.3	163,105	-	-		-	-	66.3	2,460	-		-	163,105		
1120	65.4	160,910	-	-		0.4	3,726	65.4	2,460	-		1,369	160,950		
1121	61.7	151,886	-	-		0.2	2,100	61.9	2,461	-		390	152,346		
1122	51.0	125,506	-	-		-	-	51.0	2,460	-		-	125,506		
1123	50.4	124,085	-	-		-	-	50.4	2,460	-		-	124,085		
1124	-	-	-	-		45.8	3,468	0.6	2,000	-		158,729	1,177		
1125	-	-	-	-		37.5	2,103	-	-	-		78,775	-		
1126	0.0	32	-	-		0.0	2,100	48.7	2,017	-		57	98,307		
1127	-	-	-	-		51.3	3,688	6.8	299	-		189,269	2,029		
1128	-	-	-	-		57.2	2,065	33.4	823	-		118,005	27,523		
1129	-	-	-	-		75.3	2,145	2.2	274	-		161,610	601		
1130	-	-	-	-		50.9	4,276	11.1	1,066	-		217,773	11,816		
1131	-	-	-	-		64.5	2,831	2.3	2,300	-		182,526	5,314		
1132	-	-	-	-		79.8	3,292	3.6	2,300	-		262,622	8,205		
1133	-	-	-	-		25.7	2,100	0.0	1,611	-		54,011	57		
1134	-	-	-	-		59.2	3,116	15.2	2,000	-		184,523	30,374		
1135	0.1	147	-	-		60.6	4,437	5.7	263	-		268,692	1,492		
1136	-	-	-	-		33.5	5,000	-	-	-		167,604	-		
1137	-	-	-	-		42.0	3,491	-	-	-		146,643	-		
1138	-	-	-	-		68.0	2,213	15.7	361	-		150,473	5,667		
1139	-	-	-	-		91.7	3,888	4.7	540	-		356,538	2,561		
1140	-	-	-	-		-	-	72.8	2,207	-		-	160,587		
1141	54.8	134,782	-	-		-	-	85.1	2,421	-		-	205,983		
1142	78.0	191,826	-	-		-	-	78.0	2,460	-		-	191,826		
1143	91.7	225,565	-	-		-	-	91.7	2,460	-		-	225,565		
1144	-	-	-	-		-	-	76.2	1,834	-		-	139,778		
1145	0.2	539	-	-		45.3	3,191	25.1	2,004	-		144,450	50,356		

APPENDIX I

Connectivity of Service Area ID to Node ID

Table I-1. Connectivity of Service Area ID to Node ID

This table indicates the Node ID into which flow from a given Service Area is sent for the 2035 Wastewater Master Plan Buildout Model.

Service Area ID	Node ID
1	2077
2	2635
3	2641
4	3617
5	3622
6	3631
7	3629
8	3308
9	3302
10	2711
12	2710
14	2078
15	3624
16	1319
17	3676
18	3308
20	2621
21	2191
22	2430
23	3670
24	3634
25	3634
26	2625
29	2715
30	3652
31	2717
32	3611
33	2625
35	1326
36	1321
37	2370
38	3613
39	1332
40	1320
41	3646
42	3644
43	3666
44	3650
45	3654
49	1320
50	1325
51	1334
52	1329

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
53	1338
55	3656
56	3661
57	3660
58	1342
59	1333
60	1333
62	1339
63	1348
64	1349
65	1361
66	1357
67	1333
68	1347
69	3695
70	2129
71	1368
72	1358
73	1363
75	3678
77	1378
78	1379
79	2374
80	2374
81	1383
82	1391
83	1372
84	1412
85	1382
86	2371
87	1411
88	3698
91	1445
92	1443
93	1432
94	1429
95	1402
96	2286
97	1422
98	3345
99	1450
100	1451
101	1439
102	1452
103	3347
104	1476

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
106	1467
107	1465
109	1472
110	1455
111	2287
112	1454
113	1466
114	1483
115	1452
116	2294
117	1497
118	1481
120	1477
121	2081
122	1492
123	3875
124	1478
125	1483
126	2294
127	3335
128	1500
129	1492
130	1491
131	1472
132	1515
133	1472
134	1493
135	1526
136	1514
137	1513
138	1521
139	2723
140	1503
141	1513
142	3349
143	2148
144	1555
145	1533
146	1539
147	1526
148	3379
149	1525
150	1538
151	1520
152	3387
153	3385

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
154	2645
155	1543
156	1580
157	2154
158	1555
159	3328
160	1551
161	1560
162	1570
163	1559
164	1557
165	1570
166	1575
167	1566
168	2726
169	1589
170	1580
171	1576
172	1572
173	1582
174	3325
175	2297
176	3375
177	1586
178	1584
179	2367
180	2083
181	2153
182	3374
183	1614
184	2298
185	2299
186	2367
187	1608
188	1597
189	1598
190	2367
191	2298
192	1592
193	1610
194	1602
195	1612
196	1594
197	1614
198	1608
199	1613

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
200	1607
201	1639
202	1645
203	2097
204	2372
205	1654
206	1627
207	1617
208	2656
209	1644
210	1627
211	2098
212	1628
213	1642
214	1631
215	2372
216	1629
217	1666
218	1659
219	1617
220	1646
221	2414
222	3729
223	1671
224	1635
225	1669
226	1638
227	2467
228	1652
229	2306
230	1654
232	1651
233	2274
234	1662
235	1712
236	1671
237	2303
238	1676
239	1724
240	1671
241	2300
243	3721
244	1689
245	3399
246	1696
247	1684

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
248	1715
249	1730
250	1716
251	1715
252	1690
253	1708
254	2274
255	1684
256	2076
257	1689
258	1696
259	1684
260	1707
261	1689
262	1729
263	1730
264	2302
265	1741
266	1724
267	2076
268	1751
269	1721
270	1742
271	1721
272	1693
273	1725
274	1693
275	1730
276	1733
277	1725
278	1754
279	1746
280	1755
281	1768
282	1757
284	3393
285	2076
286	1756
287	1760
288	1758
289	1762
290	1768
291	1798
292	1757
293	1779
294	1809

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
295	1804
296	1796
297	1788
298	3390
299	2210
300	1795
301	3817
302	3808
303	1799
304	1796
305	1798
306	2136
307	3810
308	2218
309	2324
310	1822
311	2111
312	1834
313	1835
314	1879
315	1870
316	1851
317	1833
318	2429
319	1843
321	1832
322	1869
323	2311
324	2113
325	1877
326	1845
327	2328
328	1868
329	1859
330	1869
331	1871
332	1878
333	2671
334	1861
335	1865
336	2165
337	1886
338	1883
339	2321
340	2427
341	1883

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
342	2378
343	1875
344	1869
345	1879
346	1876
347	2194
348	1869
349	2330
350	1884
351	1896
352	1895
353	1922
354	1884
355	1897
356	1897
357	1903
358	2330
359	1886
360	1895
361	3737
362	1906
363	1913
364	3741
365	1999
366	2168
367	2275
368	2168
369	2334
370	1914
371	2110
372	1906
373	1884
374	2364
375	2341
376	3749
377	2363
378	1995
380	2005
381	1994
382	1994
383	1910
385	1994
386	1996
387	3747
388	1925
389	1928

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
390	1930
391	1938
392	3751
393	1951
394	2214
395	1929
396	1922
397	1927
398	2015
399	2005
400	1928
401	2347
402	2031
403	1952
404	2244
405	2003
406	3767
408	2034
409	2060
410	2348
411	1955
412	2331
413	2216
414	1958
415	2170
416	2169
417	1960
418	2351
419	1961
420	2141
421	2019
422	3919
423	2349
424	1974
425	2169
426	1961
427	2171
428	1960
429	2069
430	3913
431	3767
432	3767
433	1960
434	2018
435	2349
436	2188

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
437	2179
438	1980
439	2188
440	1960
441	1976
442	2386
443	1980
444	3416
445	1989
446	2017
447	2685
448	2682
451	2018
452	2018
453	2272
508	1472
509	3609
510	1611
511	1611
512	1517
513	1498
514	1511
515	2123
516	1552
517	1550
518	2276
519	1431
520	2283
521	2284
522	1434
523	2277
524	1479
525	1405
526	2279
527	2280
528	1442
529	1448
530	1360
531	1345
532	1536
533	1554
534	2117
535	1535
536	1554
537	1519
538	1523

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
539	1485
540	1484
541	1502
542	1487
543	2080
544	1473
545	1470
546	1468
547	1397
548	1376
549	1740
550	1728
551	1959
552	2358
553	2074
554	2675
555	2620
556	2637
557	1356
558	1390
559	1398
560	1388
561	1549
562	1544
563	1495
564	1480
565	2293
566	2290
567	1617
568	1621
569	1587
570	1574
571	1818
572	1693
573	1681
574	2366
576	1778
579	1749
580	1734
581	1723
582	3396
583	3398
584	3400
585	3392
586	3726
587	3743

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
589	2095
590	2014
591	1992
592	2401
593	2258
594	1976
596	2254
597	2252
598	2253
599	2163
600	2688
601	2271
602	1648
603	1648
604	1604
605	1665
606	1665
607	2108
608	2103
609	2270
610	2164
611	2011
612	2011
617	3767
620	2241
621	2373
623	1753
624	1716
625	2405
626	1604
627	1604
628	1601
629	1908
630	1911
631	1908
632	1894
633	1908
634	1912
635	1961
636	2169
637	2170
638	2175
639	2185
640	2377
641	1855
642	2377

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
643	2275
644	1999
646	2314
647	1861
650	1830
652	1850
653	1816
654	1820
655	3349
656	1809
659	2666
660	1761
661	1751
662	1745
663	1763
664	1788
666	1761
667	1718
670	1804
671	2114
673	2309
675	1662
678	1611
679	1963
681	2386
683	2110
686	2363
689	1635
690	2662
692	2274
693	2440
694	3658
695	1822
697	2413
698	2412
699	3377
700	3330
701	3375
702	3375
703	3382
704	3325
705	3326
706	3382
707	1593
708	1593
709	2660

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
710	1697
714	1851
715	2427
717	1772
719	1772
720	1779
721	1776
722	1782
723	3379
724	3379
725	3379
726	2653
727	2626
728	2628
729	3647
730	2639
731	3641
732	3638
733	1851
734	2570
735	2592
736	2577
738	2572
739	2587
740	2585
741	2573
742	2595
743	2579
744	2564
745	2565
747	2575
748	2613
749	3470
750	3472
751	2621
752	3619
753	2627
754	2719
756	3456
757	3597
760	2758
761	2746
762	3463
763	3487
764	3458
765	3465

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
766	3467
767	3765
768	3767
769	3418
770	3780
771	3420
772	3511
773	3435
774	3430
775	3774
782	3567
783	3535
784	3572
785	2830
786	4117
787	3561
788	3132
789	3710
790	3704
791	3689
792	3559
793	3144
794	3141
795	3687
796	3691
799	2761
801	3599
802	3537
803	3599
804	2826
805	3873
806	2852
807	2876
808	2882
809	2884
810	2885
811	2894
812	2891
813	2854
814	2869
815	3605
816	2855
817	3601
818	2850
819	2845
820	2743

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
821	2858
823	2750
825	2871
826	2897
827	2889
828	3168
829	3173
830	3800
831	3796
832	3192
833	3844
834	3846
835	3922
836	3849
837	3796
838	3827
839	3191
840	3158
841	3164
842	3156
843	3833
844	3054
845	3052
846	3220
847	3222
848	3116
849	3118
850	3080
851	3082
852	3074
853	3078
854	3063
855	3070
856	3060
857	3068
858	3122
859	3120
860	3109
861	3104
862	3099
863	3058
864	3225
865	3037
866	3021
867	3034
868	3088

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
869	3099
870	3042
871	3011
872	3011
873	3012
874	3047
875	3035
876	3555
877	2914
878	3230
879	3957
880	3969
881	3959
882	3281
883	3269
884	3272
885	3253
886	4115
887	3949
888	3895
889	3227
890	3947
891	2922
892	2994
893	3002
894	2955
895	3000
896	2981
897	2976
898	2960
899	2973
900	2990
901	2985
902	3026
903	3014
904	3236
905	3515
906	3972
907	3966
908	2964
909	2946
910	3233
911	3261
912	3263
913	3004
914	3018

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
915	2911
916	2924
917	2934
918	2936
919	2947
920	2940
921	3006
922	2947
923	3553
925	3460
926	3189
927	3187
928	3744
929	0
930	0
931	0
932	3713
933	3478
934	0
935	0
936	0
937	0
938	0
939	0
940	0
941	3479
942	3717
943	3715
944	3713
945	0
946	3475
947	3475
953	3330
954	3374
955	3647
956	1611
957	1635
958	1761
959	1724
960	1695
961	1662
962	1822
963	1827
964	1820
965	2230
966	1809

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
967	1861
968	1816
969	1853
970	1846
971	2110
972	2365
973	2093
974	1963
975	1970
976	2697
977	1864
978	2486
979	3911
980	3214
981	3959
982	2483
983	2488
984	1664
985	2658
986	2583
987	2599
988	2604
989	2606
990	2611
991	2598
992	2618
993	2601
994	0
995	3047
996	3023
997	3019
998	3037
999	3114
1000	3098
1001	3043
1002	3035
1003	3086
1004	3012
1005	3016
1006	2677
1007	2922
1008	2914
1009	2994
1010	3027
1011	3964
1012	3285

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
1013	3283
1014	3276
1015	3286
1016	3293
1017	3293
1018	3959
1019	3513
1020	2391
1021	2391
1022	2391
1023	2391
1024	2391
1025	3753
1026	2391
1027	3757
1028	3775
1029	3426
1030	3418
1031	3778
1032	3458
1033	3456
1034	3771
1035	2675
1036	3842
1037	3841
1038	3850
1039	3831
1040	3835
1041	3839
1042	3853
1043	3207
1044	3160
1045	3837
1046	3829
1047	3786
1048	3788
1049	2429
1050	3821
1051	3897
1052	3823
1053	3149
1059	3732
1060	3374
1061	3372
1062	3328
1063	3349

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
1064	3338
1068	3345
1069	3337
1070	3359
1071	3478
1072	3474
1073	3474
1074	2235
1075	3696
1076	3146
1077	3693
1078	3146
1079	3707
1080	3683
1081	3685
1082	3136
1083	3701
1084	3562
1085	2814
1086	2815
1087	3564
1088	3567
1089	2828
1090	2815
1099	4063
1100	2764
1101	4094
1102	3558
1103	2759
1104	3595
1105	2754
1106	3539
1107	2832
1108	2744
1109	3593
1110	3926
1111	2839
1112	2837
1113	2835
1114	2848
1115	2862
1116	2864
1117	3603
1118	2860
1119	2844
1120	2873

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
1121	3607
1122	2888
1123	2896
1124	2713
1125	2717
1126	3639
1127	3672
1128	3664
1129	3674
1130	3306
1131	3632
1132	3312
1133	3624
1134	3621
1135	3627
1136	2626
1137	2627
1138	2626
1139	2626
1140	3962
1141	3279
1142	3251
1143	3249
1144	3767
1145	3155
1146	3942
1147	3931
1148	3940
1149	3359
1150	3891
1151	3879
1152	3924
1153	3922
1154	3887
1155	3885
1156	3883
1157	3881
1158	3889
1200	4006
1201	4004
1202	3990
1203	3994
1204	4001
1205	3994
1206	4009
1207	3992

Table I-1. Connectivity of Service Area ID to Node ID

Service Area ID	Node ID
1208	3984
1209	3988
1210	3986
1211	3981
1212	4003
1213	4011
1214	4022
1215	4024
1216	4014
1217	4014
1218	4015
1219	3982
1220	4018
1221	4040
1222	4027
1223	4041
1224	4028
1225	4043
1226	4030
1227	4030
1228	4036
1229	4032
1230	4034
1231	4034
1232	4053
1233	4047
1234	4048
1235	4050
1236	4052
1237	4053
1238	3992
1239	4072
1240	4072
1241	4058
1242	4074
1243	4000
1244	4008
1245	3996
1246	3808
1247	3823
1248	4095
1299	3761
1300	3757
1301	3753
1302	3418