CITY OF BLANCO

PRELIMINARY INVESTIGATIONS AND REPORT
WASTEWATER COLLECTION SYSTEM IMPROVEMENTS
FOR PROPOSED SERVICE AREA

January 2, 2020





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EXECUTIVE SUMMARY

This technical memorandum has been prepared to identify future wastewater flows and infrastructure needs within the proposed service area outlined in Exhibit A. This memorandum focuses on the development south of Blanco River and does not include land use assumptions or flow projections north of the river or within the City limits.

In general the topography of the service area slopes west to east. The area south of Blanco River has primarily three watersheds. Exhibit B, the City's Wastewater Capital Improvement Plan (Jones-Heroy & Associates) identifies three wastewater basins that complement this topography. This exhibit identifies the need for 4 wastewater lift stations south of Blanco River. In this preliminary investigation the concept of conveying the wastewater adjacent to US Hwy. 281 was investigated.

In developing this memorandum, existing data was reviewed to assist in the development of land use projections within the proposed service area. These land use projections and associated acreage were then used to develop average, peak and wet weather wastewater flows.

This alignment would require a 15 inch gravity interceptor and two lift stations to keep the depth of the gravity interceptor from exceeding 25 feet. In this study it's assumed that the second lift station would convey wastewater under Blanco River and discharge into the existing collection system and ultimately be conveyed to the wastewater treatment plant. The scope of this study did not verify if the existing collection system north of Blanco River has the capacity to accept these additional flows.

The engineer's opinion of probable construction cost was completed for two lift stations and a gravity interceptor. The construction cost estimate includes a engineering design fee of 25 percent of the construction cost and a contingency of 25 percent. The cost estimate does not include costs for easement acquisition, topographical survey, or geotechnical investigations. The assumptions and clarifications for the study and the infrastructure needs are summarized below and explained in greater detail within the memorandum.

DESIGN PARAMETERS / ASSUMPTIONS / CONSIDERATIONS / FINDINGS

- Study area is limited to south of the Blanco River
- Proposed gravity interceptor alignment flows south to north along US Hwy. 281
- Study did not cover possible need of smaller lift stations to convey wastewater from the developed areas to the proposed alignment
- Wastewater flow generation within the City Limits was not included in this study
- This study did not verify if the existing collection system north of Blanco River has the capacity to accept additional flows identified in this study
- Cost estimate does not include costs for easement acquisition
- Infrastructure requirements
 - Lift Station 1 0.9 mgd
 - o Lift Station 2 4.4 mgd
 - o 15 inch Gravity Wastewater Interceptor 15,800 linear feet
- Engineers opinion of probable construction cost \$5 million
- Engineering design cost \$1.25 million



BACKGROUND

This technical memorandum has been prepared to identify future wastewater flows and infrastructure needs within the proposed service area outlined in Exhibit A. This memorandum focuses on the development south of Blanco River and does not include land use assumptions or flow projections north of the river or within the City limits. The infrastructure assumptions for conveyance of the wastewater are schematic in nature with measurements taken from existing GIS platforms. The intended use of this memorandum is conceptual, no topographic survey, geotechnical investigations, or easement research has been performed in the preparation of this memorandum.

DATA REVIEW

The following maps and records were used to assist with recognizing the study boundary area and the current land use and owner information. This information was then used to develop land use assumptions and projected growth.

- 1. Exhibit A City of Blanco Water and Wastewater Service Area Map (Jones-Heroy, September 2018)
- 2. Exhibit B City of Blanco Wastewater Capital Improvements Plan (Jones-Heroy, September 2018)
- 3. Blanco County Appraisal District www.blancocad.com
- 4. TPDES Permit Application City of Blanco WWTP

CITY OF BLANCO TPDES PERMIT

The City of Blanco currently operates under a 0.225 MGD Texas Pollutant Discharge Elimination System (TPDES) wastewater permit. A permit "Renewal and Major Amendment" application has been submitted to the Texas Commission on Environmental Quality (TCEQ) for review. This amendment proposes a new wastewater treatment plant on the existing site. The proposed capacities of the permit amendment are broken into three phases as noted below. Phase I, the current permitted capacity of 0.225 MGD is currently in operation.

Permit Renewal and Major Amendment City of Blanco 0.225 MGD Wastewater Treatment Plant

TPDES Permit No.: 10549002

Engineer: Darren C. Strozewski, P.E.

Applicant: City of Blanco

Phase I 0.225 MGD (existing permit)
Phase II 0.950 MGD (Amendment)
Phase III 1.60 MGD (Amendment)



The information below is quoted from Section O "Explanation of the Need for Proposed Permit" of the permit renewal and modification application.

"Current City limits encompass approximately 1,400 acres of which a substantial portion is currently undeveloped or under developed. This 1,400 acres conservatively yields 1,400 wastewater service connections at one unit per acre, which equals 0.315 mgd using an average daily flow of 225 gallons per connection. In addition, the City's wastewater service area has been expanded by approximately 8,500 acres of privately owned land located adjacent to the City limits. This area is anticipated to develop as economic conditions continue to improve and when regional wastewater and water, and reclaimed water capacities are readily available from the City. The future 8,500 acre wastewater service area would conservatively yield 8,500 new wastewater service connections at one unit per acre, which equals 1.912 mgd using an average daily flow of 225 gallons per connection. Thus, the total wastewater service area capacity is 2.227 mgd.

This statement defines the future development within the City Limits to be limited to 225 gallons per acre. This assumption does not take into account commercial or high density residential development within the City limits.

LAND USE PROJECTIONS

Land use must be identified in order to calculate projected wastewater flows. In this memorandum, the area assessed is limited to the proposed service area shown in Exhibit A and is limited to south of the Blanco River and does not take into consideration the land within the City Limits. Land use assumptions were determined based on current development, the vicinity to the City Limits, and commercial verses private ownership. In order to group like areas the proposed service area was subdivided into 14 smaller areas. For residential homes it was assumed that the larger lots 2-6 acres would vary due to topography and individual ownership, an average of 4 acres per lot was used in the calculations. A color coded Map of how these areas were zoned for the wastewater flow development are shown on Exhibit C. Appendix A shows a more detailed breakdown of each area indicating percentages of residential and commercial categories. The percentages of each type of land use are summarized on the next page.



LAND USE BREAKDOWN

Residential

	Single Family Home, ¼ Acre Lots	22.8%
	Single Family Home 2-6 Acre Lots	37.4%
	Multi Family	7.2%
Comm	ercial	
	Motel with kitchen	0.7%
	Shopping Center	5.1%
	Restaurant	0.4%
	Office	5.0%
	Industrial Building	7.9%
	Kennels/Stables	2.9%
Other	(no wastewater flows were generated fr	om the following land uses)
	Agriculture/Ranch/Farm	0.7%
	Park Land	9.9%



WASTEWATER FLOW PROJECTIONS

The wastewater flow projections were developed based on land use and acreage. The Average Dry Weather Flows (ADWF) were developed based on guidelines by TCEQ Chapter 217, Design Organic Loadings and Flows for New Wastewater Treatment Facilities https://www.tceq.texas.gov/assets/public/legal/rules/rules/pdflib/217c.pdf, and the 10 State Standards. The developed flows used for this study are summarized below.

verage Dry	Weather Flow (ADWF) (Qad)					
Residenti	al	Flow	Description			
5	Single Family Home 1/4 Acre Lot	245 gpd per home	70 gpd pp, 3.5 persons per home. 1/4 acre lot			
5	Single Family Home 2-6 Acre Lot	280 gpd per home	80 gpd pp, 3.5 persons per home, 2-6 acre lot			
ı	Multi Family	1,950 gpd per acre	65 gpd pp, 1.5 persons per unit, 20 units per acre			
Commerc	ial	Flow	Description			
r	Motel with kitchen	2,000 gpd per acre	100 gpd per unit, 20 units per acre			
9	Shopping Center	164 gpd per acre	12 gpd/employee, 2 gpd/2 parking spaces, 12 employees/AC, 20 parking spaces AC			
3	Restaurant	600 gpd per acre	3 gpd per meal, 200 meals per day			
(Office	195 gpd per acre	13 gpd per employee, 15 employees per AC			
	ndustrial Building	104 gpd per acre	13 gpd per employee, 8 employee per AC			
,	Kennels/Stables	13 gpd per acre	13 gpd per employee, 1 employee per AC			
ı	Park Land	0 gpd per acre	No wastewater service provided			
Private		Flow	Description			
/	Agriculture/Ranch/Farm	0 gpd per acre	No wastewater service provided			

The average dry weather, peak dry weather and peak wet weather flows were calculated per the City of Austin design criteria for each area. These areas were summed accumulatively from the southern limits of the proposed service area to Blanco River and are included in Appendix B. The total accumulated flow for the proposed service area south of the river are shown below.

- Average Dry Weather Flow (ADWF) 0.5 mgd
- Peak Dry Weather Flow (PDWF) 2.2 mgd
- Peak Wet Weather Flow (PWWF) 4.4 mgd

INFRASTRUCTURE DESIGN PARAMETERS

In general the topography of the service area slopes west to east. The area south of Blanco River has primarily three watersheds, one that flows to Flat Creek, one that flows to Durham Branch and one that flows directly to the Blanco River. Flat Creek and Durham Branch ultimately confluence with the Blanco River just east and outside of the proposed service area. Exhibit B, the City's Wastewater Capital Improvement Plan (CIP) (Jones-Heroy & Associates) identifies three wastewater basins that complement this topography. The Exhibit B identifies the need for 4 wastewater lift stations south of Blanco River.

In this preliminary investigation the concept of conveying the wastewater adjacent to US Hwy. 281 was investigated. This alignment would require a Lift Station (LS 1) north of Flat Creek to convey flows over the ridge and into the next watershed that conveys flow to Durham Branch and a Lift Station (LS 2) north of Durham Branch to convey flows over the next ridge and ultimately under the Blanco River. In this study it's assumed that the discharge from LS 2 (north of Blanco River) would discharge into the existing collection system and ultimately be conveyed to the wastewater treatment plant. Exhibit D shows the schematic representation of this alignment.

If the capacity of the existing collection system (north of the river) is not sufficient a new gravity interceptor or a lift station and forcemain or combination thereof would be required. Cost for infrastructure north of Blanco River is outside the scope of this report.

- Lift Station 1 (north of Flat Creek)
 - o Design flow 680 gpm
 - o Submersible Duplex
 - o Wet Well 12' dia. X 30' deep
 - Pumps (2) 40 HP, 460V 3 PH, 60 Hz, (680 gpm @ 100' TDH)
- Lift Station 2 (north of Durham Branch)
 - o Design flow 3098 gpm
 - Submersible Triplex
 - o Wet Well 24' dia. X 40' deep
 - o Pumps (3) 60 HP, 460V 3 PH, 60 Hz, (2,850 gpm @ 100' TDH 2 pumps running)

Gravity interceptor flow capacities were calculated per the City of Austin and TCEQ design standards with a slope of 1%. Using this design criteria a 12 inch gravity interceptor would be required at the beginning of the alignment and it would transition into a 15 inch interceptor south of the intersection of RR 32. With this alternative depths of the gravity interceptor did not exceed 20 feet. Lift Station 2 identified at Durham Branch could possibly be replaced with a siphon however this option is not included in the scope of this study.



WATER REUSE

If the wastewater generated in this study was to be treated and returned to the same service area the TPDES permit would need to be revised and wider easements would need to be obtained to account for the required 10 foot separation from the wastewater line and surrounding water lines. The infrastructure required for this would include a new reclaimed water delivery system including pumping, elevated storage, pipe lines and associated appurtenances. The design for this system is outside the scope if this study. A conservative estimate for the construction of the pipe line only would be approximately \$70 per linear foot. Using the same footage of wastewater interceptor (15,800 lf) would equate to a construction cost of \$1,106,000. Costs for easement acquisition, survey, geotechnical investigations, design and the construction of the delivery system would also need to be included.

Reclaimed water line construction cost

\$1.1 million*

*cost does not include design, survey, geotechnical investigations, easement acquisition or construction cost for pump station/elevated storage.

COST ESTIMATES

Engineers Opinion of Probable Construction cost is include in Appendix C. This construction cost estimate is based on the wastewater infrastructure identified in the previous section of this report. For economic and future capacity reasons a 15 inch interceptor was used for the entire reach. The construction cost estimate includes a contingency of 25 percent. A cost for engineering, survey, and geotechnical investigations was included at 25% of the construction cost.

Engineers Opinion of Probable Construction Cost

\$5.6 million*

Engineering design, survey and geotechnical investigations

\$1.25 million*

^{*}cost does not include easement acquisition



EXHIBITS

Exhibit A - City of Blanco Water and Wastewater Service Area Map (Jones-Heroy, September 2018)

Exhibit B - City of Blanco Wastewater Capital Improvements Plan (Jones-Heroy, September 2018)

Exhibit C – Land Use Assumptions

APPENDICES

Appendix A – Land Use Assumptions

Appendix B – Wastewater Flow Calculations

Appendix C – Engineers Opinion of Probable Construction Cost

EXHIBIT A

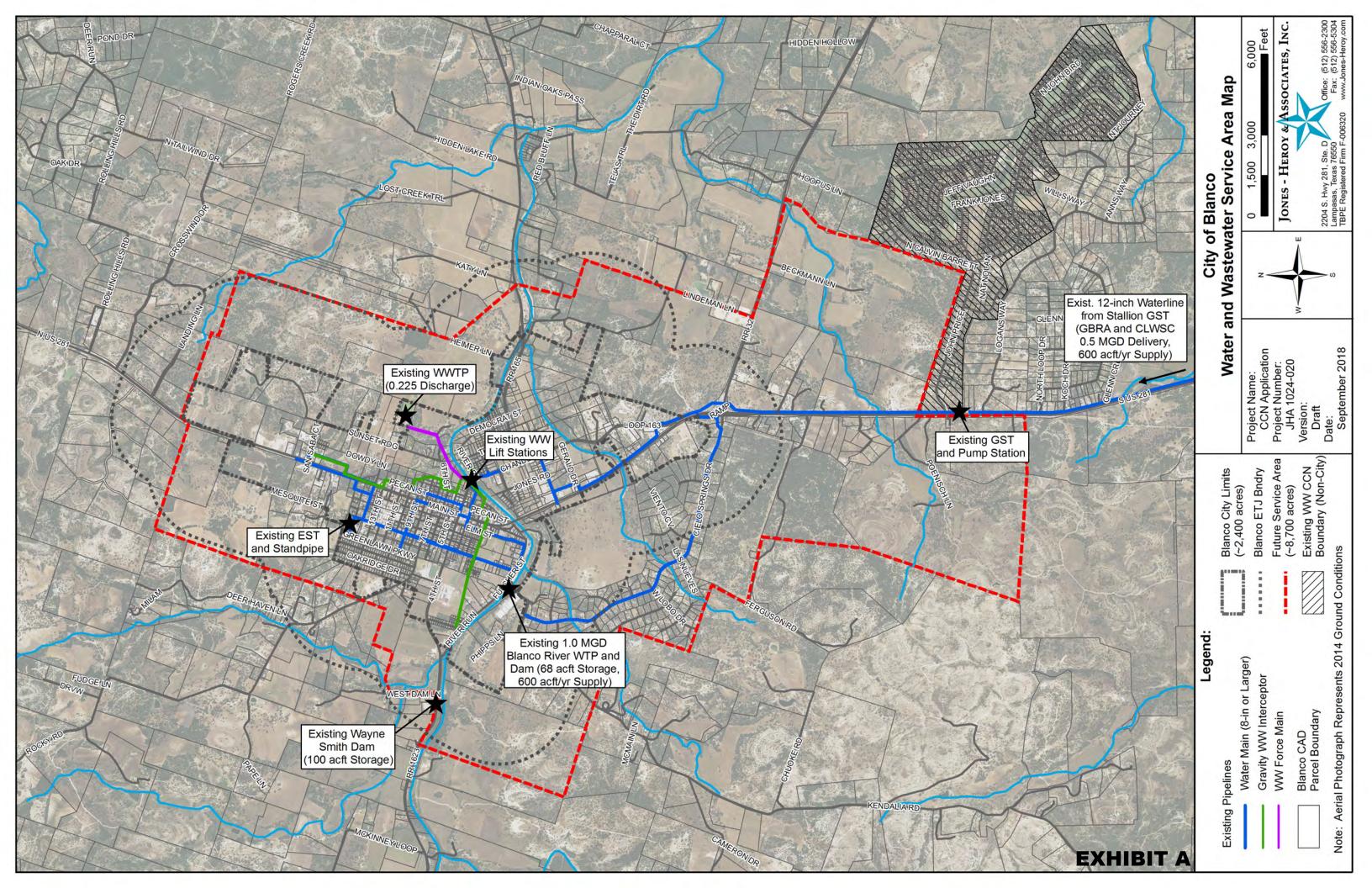


EXHIBIT B

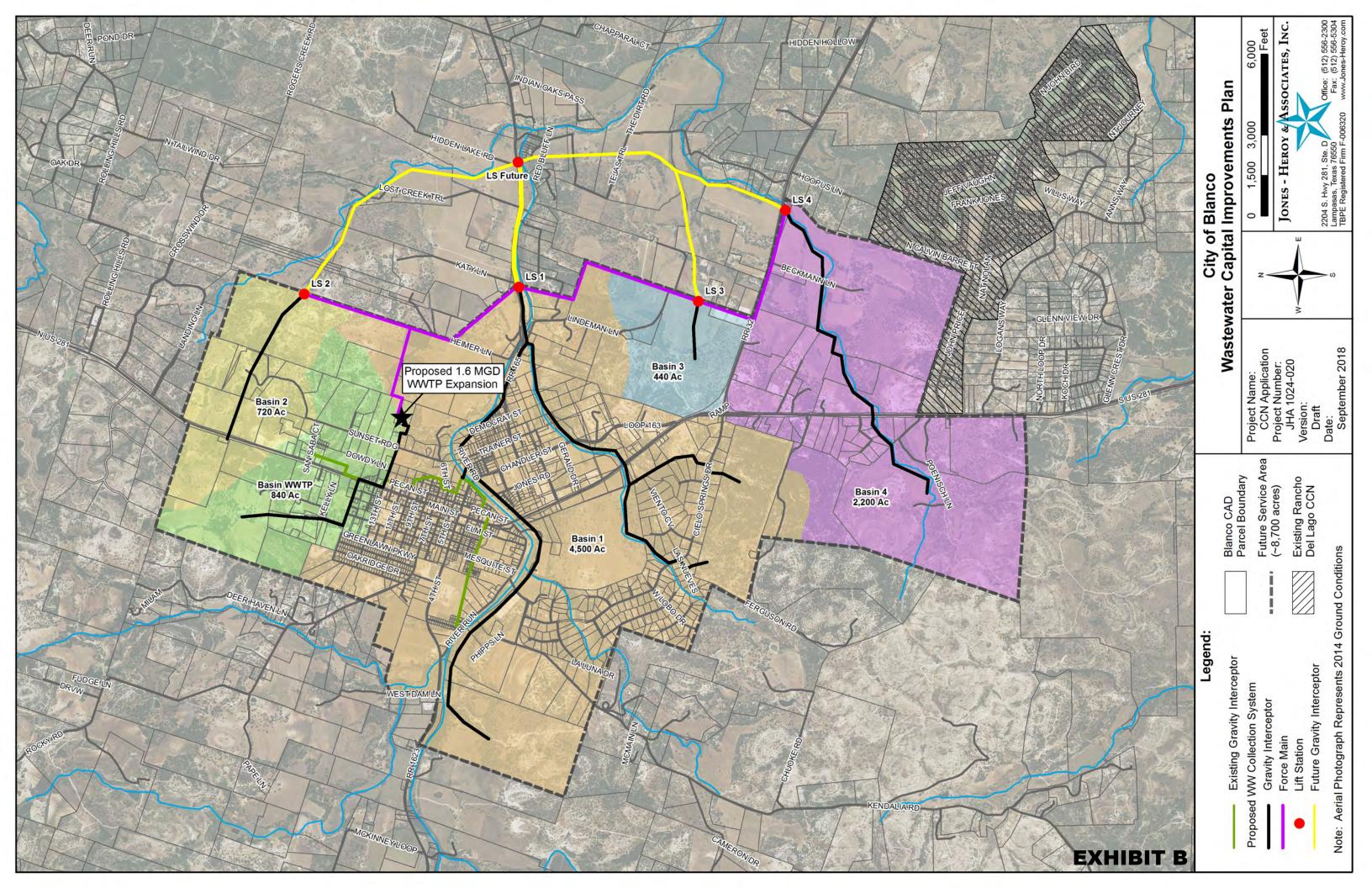
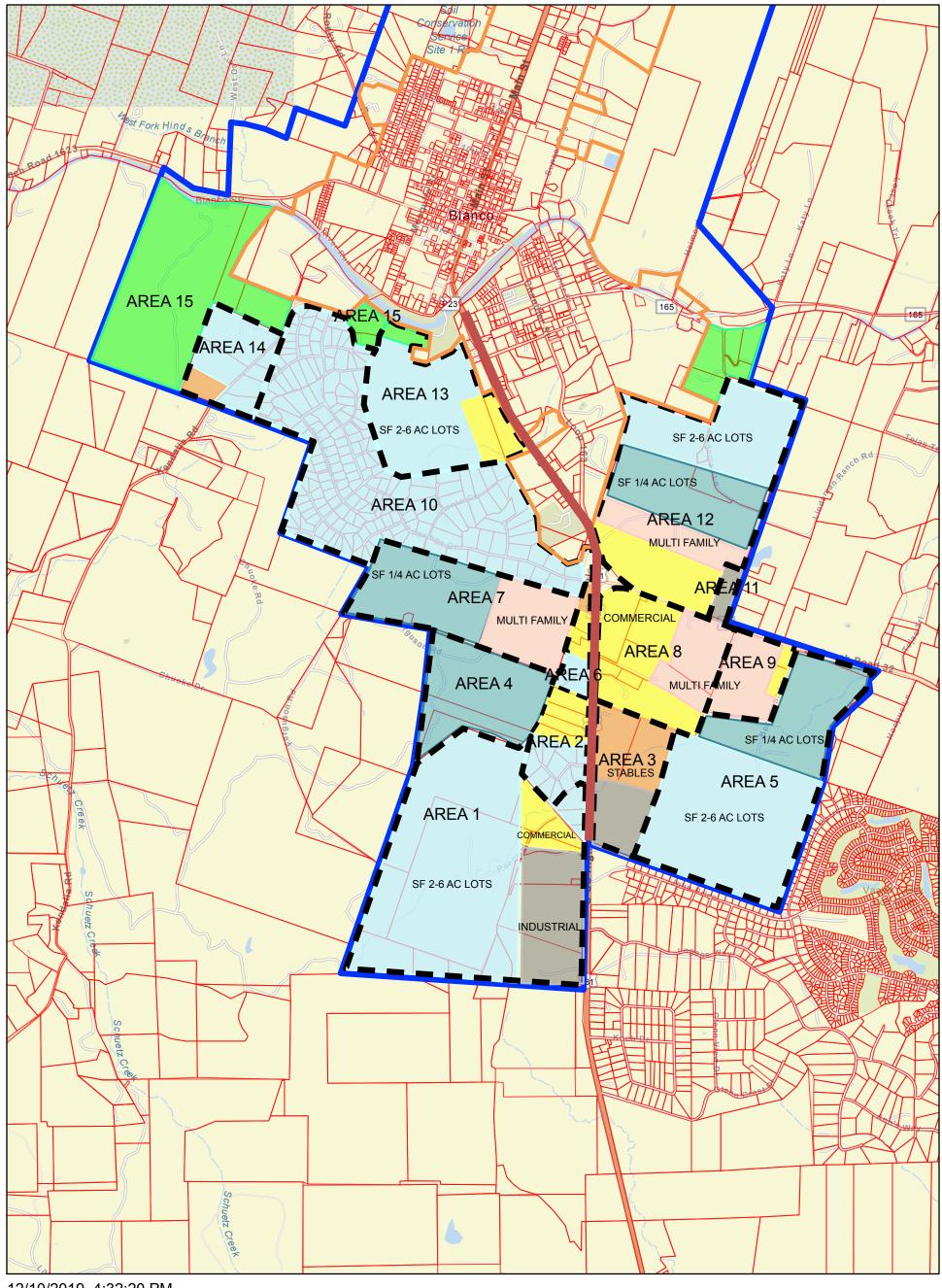


EXHIBIT C

LAND USE MAP



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EXHIBIT C LAND USE MAP

1:31,279 0 0.35 0.7 1.4 mi 0 0.5 1 2 km

APPENDIX A

AREA 1 - HH FAMILY INV	VESTMENTS II LTD					
PROPERTY ID	LEGAL DESCRIPTION	QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
9198	ABS A1300 SURVEY 2 1/2 PAULINE JONAS, ACRES 30.75	30.	5 AC			
9197	ABS A0983 SURVEY 74 A. BECKMAN,ACRES 35.0	35.0	0 AC			
9199	ABS A1299 SURVEY 167 1/2 PAULINE JONAS, ACRES 12.5	12.	0 AC			
9193	ABS A1070 SURVEY 81 F. VOLLMERING, ACRES 21.5	21.	0 AC			
8561	ABS A1070 SURVEY 81 F. VOLLMERING, ACRES 79.91, (MO RANCH)	79.	1 AC			
9189	ABS A0622 SURVEY 167 J WILSON,ACRES 316.96	316.	6 AC			
8559	ABS A0582 SURVEY 168 Q.C. STEPHANS, ACRES 62.4, (MO RANCH)	62.4	0 AC			
2279	ABS A0582 SURVEY 168 Q.C. STEPHANS, ACRES 34.292	34.:	0 AC			
9200	ABS A0827 SURVEY 161 FRIEDRICH MULLER,ACRES 145.0	145.0				
9195	ABS A0632 SURVEY 93 W.C. WINTERS,ACRES 42.13	42.				
3224	ABS A0582 SURVEY 168 Q.C. STEPHANS, ACRES 1.46	1.4	6 AC			
3225	ABS A0582 SURVEY 168 Q.C. STEPHANS, ACRES 1.375	1.1				
14968	ABS A0622 SURVEY 167 J WILSON,ACRES 3.04	3.				
14969	ABS A0582 SURVEY 168 Q.C. STEPHANS,ACRES 9.16	9.	_			
15847	BLANCO VISTA ESTATES , LOT 01 , ACRES 5.01	5.0				
15848	BLANCO VISTA ESTATES , LOT 02 , ACRES 5.01	5.0				
9188	ABS A1058 SURVEY 30 AUGUST JONAS,ACRES 56.75	11.				a portion (20%) of lot in inside of proposed service area boundary
9194	ABS A0696 SURVEY 73 HENDERSON & OBRR CO.,ACRES 320.0	0.0				adjacent to but outside of proposed service area boundary
9187	ABS A0333 SURVEY 724 SOPHIA JONAS,ACRES 43.0	0.0				adjacent to but outside of proposed service area boundary
3107		otal 816.				adjacent to but outside of proposed service area boundary
			+	150/	DARKIAND	
		122.		15%	PARK LAND	Frankara alana HC 201
		138.		17%	INDUSTRIAL	Frontage along US 281
		490.		60%	SF RESIDENTS, 2-6 AC LOTS	
		65.	6	8%	OFFICE	
				100%		
		1	3 LOTS		4 AC LOTS	
	ESTATES (BLANCO VISTA DR)	077/	LINUTE	DEDCEME	DDODOSED LAND USE	CONANTRITO
PROPERTY ID	LEGAL DESCRIPTION	QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
15850						
	BLANCO VISTA ESTATES , LOT 04 , ACRES 5.06	5.0	_		LUXURY RESIDENTS 2-6 AC LOTS	
15851	BLANCO VISTA ESTATES , LOT 05 , ACRES 5.28	5.3	8 AC		LUXURY RESIDENTS 2-6 AC LOTS	
15851 15852	BLANCO VISTA ESTATES , LOT 05 , ACRES 5.28 BLANCO VISTA ESTATES , LOT 06 , ACRES 5.47	5.	8 AC 7 AC		LUXURY RESIDENTS 2-6 AC LOTS LUXURY RESIDENTS 2-6 AC LOTS	
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15851 15852 15853 15854 15855 15856 15857 15858 16146 16147 16148 16149	BLANCO VISTA ESTATES , LOT 05 , ACRES 5.28 BLANCO VISTA ESTATES , LOT 06 , ACRES 5.47 BLANCO VISTA ESTATES , LOT 07 , ACRES 5.34 BLANCO VISTA ESTATES , LOT 08 , ACRES 5.01 BLANCO VISTA ESTATES , LOT 09 , ACRES 5.07 BLANCO VISTA ESTATES , LOT 10 , ACRES 5.3 BLANCO VISTA ESTATES , LOT 11 , ACRES 5.3 BLANCO VISTA ESTATES , LOT 12 , ACRES 5.68 BLANCO VISTA ESTATES , LOT 13 & 14 , ACRES 10.91 ? BLANCO VISTA ESTATES , LOT 15 , ACRES 11.26, Undivided Interest 42 BLANCO VISTA ESTATES , LOT 16 , ACRES 11.26, Undivided Interest 42 BLANCO VISTA ESTATES , LOT 17 , ACRES 10.0, Undivided Interest 42.00 BLANCO VISTA ESTATES , LOT 18 , ACRES 10.0, Undivided Interest 42.00 BLANCO VISTA ESTATES , LOT 18 , ACRES 10.0, Undivided Interest 42.00	5 5 5 5 5 5 5 5	8 AC 7 AC 4 AC 1 AC 0 AC 0 AC 3 AC 1 AC 0 AC 0 AC 0 AC 0 AC 0 AC 0 AC 6 AC	21%	LUXURY RESIDENTS 2-6 AC LOTS OFFICE OFFICE SHOPS	
15851 15852 15853 15854 15855 15856 15857 15858 16146 16147 16148 16149	BLANCO VISTA ESTATES , LOT 05 , ACRES 5.28 BLANCO VISTA ESTATES , LOT 06 , ACRES 5.47 BLANCO VISTA ESTATES , LOT 07 , ACRES 5.34 BLANCO VISTA ESTATES , LOT 08 , ACRES 5.01 BLANCO VISTA ESTATES , LOT 09 , ACRES 5.07 BLANCO VISTA ESTATES , LOT 10 , ACRES 5.3 BLANCO VISTA ESTATES , LOT 11 , ACRES 5.3 BLANCO VISTA ESTATES , LOT 12 , ACRES 5.68 BLANCO VISTA ESTATES , LOT 13 & 14 , ACRES 10.91 ? BLANCO VISTA ESTATES , LOT 15 , ACRES 11.26, Undivided Interest 42 BLANCO VISTA ESTATES , LOT 16 , ACRES 11.26, Undivided Interest 42 BLANCO VISTA ESTATES , LOT 17 , ACRES 10.0, Undivided Interest 42.00 BLANCO VISTA ESTATES , LOT 18 , ACRES 10.0, Undivided Interest 42.00 BLANCO VISTA ESTATES , LOT 18 , ACRES 10.0, Undivided Interest 42.00	5 5 5 5 5 5 5 5	8 AC 7 AC 4 AC 1 AC 0 AC 3 AC 3 AC 0	21% 21%	LUXURY RESIDENTS 2-6 AC LOTS OFFICE OFFICE SHOPS SHOPS	
15851 15852 15853 15854 15855 15856 15857 15858 16146 16147 16148 16149	BLANCO VISTA ESTATES , LOT 05 , ACRES 5.28 BLANCO VISTA ESTATES , LOT 06 , ACRES 5.47 BLANCO VISTA ESTATES , LOT 07 , ACRES 5.34 BLANCO VISTA ESTATES , LOT 08 , ACRES 5.01 BLANCO VISTA ESTATES , LOT 09 , ACRES 5.07 BLANCO VISTA ESTATES , LOT 10 , ACRES 5.3 BLANCO VISTA ESTATES , LOT 11 , ACRES 5.3 BLANCO VISTA ESTATES , LOT 12 , ACRES 5.68 BLANCO VISTA ESTATES , LOT 13 & 14 , ACRES 10.91 ? BLANCO VISTA ESTATES , LOT 15 , ACRES 11.26, Undivided Interest 42 BLANCO VISTA ESTATES , LOT 16 , ACRES 11.26, Undivided Interest 42 BLANCO VISTA ESTATES , LOT 17 , ACRES 10.0, Undivided Interest 42.00 BLANCO VISTA ESTATES , LOT 18 , ACRES 10.0, Undivided Interest 42.00 BLANCO VISTA ESTATES , LOT 18 , ACRES 10.0, Undivided Interest 42.00	5 5 5 5 5 5 5 5	8 AC 7 AC 4 AC 1 AC 7 AC 0 AC 0 AC 3 AC 8 AC 1 AC 0 AC 6 AC 6 AC 0 AC 0 AC 0 AC 0 AC 0 AC		LUXURY RESIDENTS 2-6 AC LOTS SHOPS SHOPS OFFICES	
15851 15852 15853 15854 15855 15856 15857 15858 16146 16147 16148 16149	BLANCO VISTA ESTATES , LOT 05 , ACRES 5.28 BLANCO VISTA ESTATES , LOT 06 , ACRES 5.47 BLANCO VISTA ESTATES , LOT 07 , ACRES 5.34 BLANCO VISTA ESTATES , LOT 08 , ACRES 5.01 BLANCO VISTA ESTATES , LOT 09 , ACRES 5.07 BLANCO VISTA ESTATES , LOT 10 , ACRES 5.3 BLANCO VISTA ESTATES , LOT 11 , ACRES 5.3 BLANCO VISTA ESTATES , LOT 12 , ACRES 5.68 BLANCO VISTA ESTATES , LOT 13 & 14 , ACRES 10.91 ? BLANCO VISTA ESTATES , LOT 15 , ACRES 11.26, Undivided Interest 42 BLANCO VISTA ESTATES , LOT 16 , ACRES 11.26, Undivided Interest 42 BLANCO VISTA ESTATES , LOT 17 , ACRES 10.0, Undivided Interest 42.00 BLANCO VISTA ESTATES , LOT 18 , ACRES 10.0, Undivided Interest 42.00 BLANCO VISTA ESTATES , LOT 18 , ACRES 10.0, Undivided Interest 42.00	5 5 5 5 5 5 5 5	8 AC 7 AC 4 AC 1 AC 7 AC 0 AC 0 AC 3 AC 8 AC 1 AC 0 AC 6 AC 6 AC 0 AC 0 AC 0 AC 0 AC 0 AC	21%	LUXURY RESIDENTS 2-6 AC LOTS CONTROL LUXURY RESIDENTS 2-6 AC LOTS SUMMY RESIDENTS 2-6 AC LOTS COFFICE SHOPS OFFICE OFFICE SHOPS OFFICES SHOPPING	
15851 15852 15853 15854 15855 15856 15857 15858 16146 16147 16148 16149	BLANCO VISTA ESTATES , LOT 05 , ACRES 5.28 BLANCO VISTA ESTATES , LOT 06 , ACRES 5.47 BLANCO VISTA ESTATES , LOT 07 , ACRES 5.34 BLANCO VISTA ESTATES , LOT 08 , ACRES 5.01 BLANCO VISTA ESTATES , LOT 09 , ACRES 5.07 BLANCO VISTA ESTATES , LOT 10 , ACRES 5.3 BLANCO VISTA ESTATES , LOT 11 , ACRES 5.3 BLANCO VISTA ESTATES , LOT 12 , ACRES 5.68 BLANCO VISTA ESTATES , LOT 13 & 14 , ACRES 10.91 ? BLANCO VISTA ESTATES , LOT 15 , ACRES 11.26, Undivided Interest 42 BLANCO VISTA ESTATES , LOT 16 , ACRES 11.26, Undivided Interest 42 BLANCO VISTA ESTATES , LOT 17 , ACRES 10.0, Undivided Interest 42.00 BLANCO VISTA ESTATES , LOT 18 , ACRES 10.0, Undivided Interest 42.00 BLANCO VISTA ESTATES , LOT 18 , ACRES 10.0, Undivided Interest 42.00	5 5 5 5 5 5 5 5	8 AC 7 AC 4 AC 1 AC 7 AC 0 AC 0 AC 3 AC 8 AC 1 AC 0 AC 6 AC 6 AC 0 AC 0 AC 0 AC 0 AC 0 AC	21% 58%	LUXURY RESIDENTS 2-6 AC LOTS CONTROL LUXURY RESIDENTS 2-6 AC LOTS SUMMY RESIDENTS 2-6 AC LOTS COFFICE SHOPS OFFICE OFFICE SHOPS OFFICES SHOPPING	

AREA 3 - ABS A0632 SUR	VEY 93 W.C.WINTERS						
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
14911	ABS A0632 SURVEY 93 W.C. WINTERS,ACRES 115.305		115.31	AC		STABLES	50% DEVELOPED WITH RANCH HOUSE AND STABLES
14068	ABS A0632 SURVEY 93 W.C. WINTERS, ACRES 46.92		46.92	AC		STABLES	LAND LOCKED
14000		TOTAL	162.23	AC			
		TOTAL	12.98	AC	8%	SF RESIDENTS 6 AC LOT	
			74.62	AC	46%	AGRICULTURE/STABLES	
			74.62	AC	46%	INDUSTRIAL	
			74.02	AC	100%	INDOSTRIAL	
			1	LOT	10070	EXISTING RESIDENTS	
			-	LOI		EXISTING RESIDENTS	
AREA 4 - BRADLEY HARR	V F FSTATF						
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
4006	ABS A0827 SURVEY 161 FRIEDRICH MULLER,ACRES 15.0		15.00	AC	1 ENCEIVI	THOI GSED EARD GSE	COMMENTS
14141	ABS A0970 SURVEY 2 J.W. SPEER,ACRES 59.0		59.00	AC			
14140	ABS A0314 SURVEY 1 INDIANOLO RR CO,ACRES 126.0		126.00	AC			
14140	7.557.6511.56112.1.1.1.5711.625.111.66j7.61.25.126.6	TOTAL	200.00	AC			
	_	IOIAL	30.00	AC	15%	PARK LAND	
	_	-	0.00	AC	0%	OFFICE	
	-		170.00	AC	85%	SF RESIDENCE 1/4 AC LOTS	
			170.00	AC	100%	SI RESIDENCE 1/4 AC LOTS	
			680	LOTS	100%	1/4 AC LOTS	
			080	1013		1/4 AC 1013	
AREA 5 - BECKMANN & S	SMITHERMAN						
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
10736	ABS A0399 SURVEY 94 JOHN McCLENCHENON, ACRES 558.63		558.63	AC	1 ENCEIVE	PROPOSED LAND OSE	COMMENTS
10750	ABS ABSSS SORVET SA SOUN INCCEENCIFEMON, ACRES 550.05	TOTAL	558.63	AC			
		TOTAL	83.79	AC	20%	PARK LAND	
			223.45	AC	40%	SF RESIDENTS 2-6 AC LOTS	
			223.45	AC	40%	SF RESIDENTS 2-6 AC LOTS SF RESIDENCE 1/4 AC LOTS	
			225.45	AC	100%	SF RESIDENCE 1/4 AC LOTS	
			894	LOTS	100%	1/4 AC LOTS	
			56	LOTS		4 AC LOTS	
			30	LOTS		4 AC LO13	
AREA 6 - ARE AREAS	 VEY 92 WM. N. TRAINER (WEST OF 281)						
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
14436	ABS A0591 SURVEY 92 WM. N. TRAINER, ACRES 1.9		0.00	AC	1 ENCEIVE	PRIVATE ROAD	COMMENTS
16627	ABS A0591 SURVEY 92 WM. N. TRAINER, ACRES 11.11		11.11	AC		INDUSTRIAL WITH RESIDENTS	
4038	ABS A0591 SURVEY 92 WM. N. TRAINER, ACRES 11:11 ABS A0591 SURVEY 92 WM. N. TRAINER, ACRES 13:76		13.76	AC		INDUSTRIAL WITH RESIDENTS	
4465	ABS A0591 SURVEY 92 WM. N. TRAINER, ACRES 6.96	-	6.96	AC		INDUSTRIAL WITH RESIDENTS	
10904	ABS A0591 SURVEY 92 WM. N. TRAINER, ACRES 3.913		3.91	AC		INDUSTRIAL WITH RESIDENTS INDUSTRIAL WITH RESIDENTS	
7994	ABS A0591 SURVEY 92 WM. N. TRAINER, ACRES 3.913 ABS A0591 SURVEY 92 WM. N. TRAINER, ACRES 6.64		6.64	AC		KENNEL WITH RESIDENTS	
1334	ADD ADDDE SOUVET DE VIVIE IN. TRAINER, ACRES 0.04	TOTAL		AC		REMACE WITH RESIDENTS	
		TOTAL	42.38 0.00	AC	0%	LUVIDY RESIDENTS A ACTOTS	
					0%	LUXURY RESIDENTS 4 AC LOTS	
			0.00	AC	85%	SHOPPING	
			36.03 6	AC AC	15%	INDUSTRIAL KENNEL	
			ь	AC	100%	KEININEL	
			5	LOTS	100%	2.6.40.1075	
			5	LOTS		2-6 AC LOTS	

AREA 7 - DALEY PHILIP							
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
	BS A0314 SURVEY 1 INDIANOLO RR CO,ACRES 283.21		283.21	AC		1 1101 0010 11110 001	
	BS A0314 SURVEY 1 INDIANOLO RR CO, ACRES 8.0		8.00	AC			
11100		TOTAL	291.21	AC			
		OTAL	0.00	AC	0%	AGRICULTURE/RANCH/FARM	
			0.00	AC	0%	LUXURY RESIDENTS, 2-6 AC LOTS	
			116.48	AC		SINGLE FAMILY RESIDENTS 1/4 AC LOTS	
			116.48	AC	40%	MULTI-FAMILY RESIDENTS	
<u> </u>			0.00	AC	0%	MOTEL WITH KITCHEN	
			0.00	AC	0%	RESTAURANT	
			0.00	AC	0%	SHOPPING	
			0.00	AC	0%	OFFICE	
			0.00	AC	0%	INDUSTRIAL	
			0.00	AC	0,0	STABLES/KENNELS	
			58.24	AC	20%	PARK LAND	
+		-	30.24	AC	100%		
			466	LOTS	10070	1/4 AC LOTS	
			400	2013		1/47/01/3	
<u> </u>							
ARFA 8 - ARS A0591 SURVEY	92 WM. N. TRAINER (EAST OF 281)						
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
	BS A0591 SURVEY 92 WM. N. TRAINER,ACRES 47.49		47.49	AC		OFFICE	
	BS A0591 SURVEY 92 WM. N. TRAINER, ACRES 5.98		5.98	AC		SHOPPING	
	BS A0591 SURVEY 92 WM. N. TRAINER,ACRES 5.0		5.00	AC		LUXURY RESIDENTS	
	BS A0591 SURVEY 92 WM. N. TRAINER, ACRES 40.345, Undivided In:	terest	40.35	AC		SHOPPING & RESTAURANT	
	BS A0591 SURVEY 92 WM. N. TRAINER, ACRES 20.0, SN1 12402584A		20.00	AC		CHURCH (OFFICE)	
	BS A0591 SURVEY 92 WM. N. TRAINER, ACRES 24.043, SN1 1240258		24.04	AC		MULTI FAMILY	
	BS A0591 SURVEY 92 WM. N. TRAINER,ACRES 40.0		40.00	AC		SHOPPING AND RESTAURANT	
10714 AE	BS A0591 SURVEY 92 WM. N. TRAINER, ACRES 8.37		8.37	AC		MULTI FAMILY	
		TOTAL	191.23	AC			
			0.00	AC	0%	AGRICULTURE/RANCH/FARM	
			0.00	AC	0%	LUXURY RESIDENTS, 2-6 AC LOTS	
			0.00	AC	0%	SINGLE FAMILY RESIDENTS 1/4 AC LOTS	
			28.68	AC	15%	MULTI-FAMILY RESIDENTS	
			13.39	AC	7%	MOTEL WITH KITCHEN	
			5.74	AC	3%	RESTAURANT	
			57.37	AC	30%	SHOPPING	
			47.81	AC	25%	OFFICE	
			0.00	AC	0%	INDUSTRIAL	
			0.00	AC	0%	STABLES/KENNELS	
			38.25	AC	20%	PARK LAND	
		- 1					
			30.23		100%		
			1	LOT		6 AC LOT	

AREA 9 - ABS A0399 SURV	YEY JOHN McCLENCHENON						
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
10752	ABS A0399 SURVEY 94 JOHN McCLENCHENON, ACRES 80.4		80.40	AC		MULTI FAMILY	
11998	ABS A0399 SURVEY 94 JOHN McCLENCHENON, ACRES 7.45		7.45			OFFICE	
13796	ABS A0399 SURVEY 94 JOHN McCLENCHENON, ACRES 5.0		5.00			OFFICE	
		TOTAL	92.85	AC			
			0.00	AC	0%	AGRICULTURE/RANCH/FARM	
			0.00	AC	0%	LUXURY RESIDENTS, 2-6 AC LOTS	
			0.00	AC	0%	SINGLE FAMILY RESIDENTS 1/4 AC LOTS	
			69.64	AC	75%	MULTI-FAMILY RESIDENTS	
			0.00	AC	0%	MOTEL WITH KITCHEN	
			0.00	AC	0%	RESTAURANT	
			0.00	AC	0%	SHOPPING	
			23.21	AC	25%	OFFICE	
			0.00	AC	0%	INDUSTRIAL	
			0.00	AC	0%	STABLES/KENNELS	
			0.00	AC	0%	PARK LAND	
					100%		
AREA 10 - CIELO SPRINGS							
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
17700	CIELO SPRINGS, BLK 02, LOT 01, ACRES .66		0.66	AC		SHOPPING	
17701	CIELO SPRINGS, BLK 02, LOT 02, ACRES 5.09		5.09	AC		SHOPPING	
	SUM OF AC OF RESIDENTIAL LOTS		646	AC		LUXURY RESIDENTS, 2-6 AC LOTS	
		TOTAL	651.75	AC			
			83.57	AC	90%	LUXURY RESIDENTS, 2-6 AC LOTS	
			0.00	AC	0%	SINGLE FAMILY RESIDENTS 1/4 AC LOTS	
			0.00	AC	0%	MULTI-FAMILY RESIDENTS	
			0.00	AC	0%	MOTEL WITH KITCHEN	
			0.00	AC	0%	RESTAURANT	
			0.00	AC	0%	SHOPPING	
			9.29	AC	10%	OFFICE	
			0.00	AC	0%	INDUSTRIAL	
			0.00	AC	0%	STABLES/KENNELS	
			0.00	AC	0%	PARK LAND	
					100%		
			206	HOMES		2-6 AC LOTS	
AREA 11 - LANDSCAPING S	SUPPLY AT 32 & LINDEMAN LN						
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
75139	ABS A0617 SURVEY 91 T.W. WEBB,ACRES 17.07	TOTAL	17.07	AC	100%	INDUSTRIAL	

AREA 12 - ABS A0634 SU	JRVEY 90 W.C. WINTERS						
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
3631	ABS A0634 SURVEY 90 W.C. WINTERS,ACRES 300.339		300.34	AC		SHOPPING, MULTI FAMILY, SF 1/4 AC LOTS	
8358	ABS A0634 SURVEY 90 W.C. WINTERS,ACRES 2.16	-	2.16	AC		LUXURY RESIDENTS, 4 AC LOTS	
83062	ABS A0634 SURVEY 90 W.C. WINTERS,ACRES 2.10		12.20	AC		LUXURY RESIDENTS, 4 AC LOTS	
1785	ABS A0634 SURVEY 90 W.C. WINTERS,ACRES 12.20 ABS A0634 SURVEY 90 W.C. WINTERS,ACRES 154.34	-					
1/85	ABS AU034 SURVEY 90 W.C. WINTERS,ACRES 154.34		154.34	AC		SF 2-6 AC LOTS	
		TOTAL	469.04	AC			
			164.16	AC	35%	LUXURY RESIDENTS, 2-6 AC LOTS	
			211.07	AC	45%	SINGLE FAMILY RESIDENTS 1/4 AC LOTS	
			28.14	AC	6%	MULTI-FAMILY RESIDENTS	
			9.38	AC	2%	MOTEL WITH KITCHEN	
			9.38	AC	2%	RESTAURANT	
			46.90	AC	10%	SHOPPING	
			0.00	AC	0%	OFFICE	
			0.00	AC	0%	INDUSTRIAL	
			0.00	AC	0%	STABLES/KENNELS	
			0.00	AC	0%	PARK LAND	
			0.00	AC	100%	I ANN LAND	
			4.0	LOTE	100%	2 CACLOTS	
			41	LOTS		2-6 AC LOTS	
			844	LOTS		1/4 AC LOTS	
	VER ADJACENT (WEST) OF 281						
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
9684	ABS A0001 SURVEY 24 H EGGLESTON,ACRES 221.59		221.59	AC			
9645	ABS A0621 SURVEY 407 J.A. WOHLERS, ACRES 5.0		5	AC			
		TOTAL	226.59	AC			
			22.66	AC	10%	AGRICULTURE/RANCH/FARM	
			113.30	AC	50%	LUXURY RESIDENTS, 2-6 AC LOTS	
			45.32	AC	20%	SINGLE FAMILY RESIDENTS 1/4 AC LOTS	
			0.00	AC	0%	MULTI-FAMILY RESIDENTS	
			0.00	AC	0%	MOTEL WITH KITCHEN	
			0.00	AC	0%	RESTAURANT	
			45.32	AC	20%	SHOPPING	
			0.00	AC	0%	OFFICE	
			0.00	AC	0%	INDUSTRIAL	
			0.00	AC	0%	STABLES/KENNELS	
					100%		
AREA 14							
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
9138	ABS A0004 SURVEY 25 B WILLIAMS, ACRES 46.9		46.9	AC		RESIDENTIAL	
2939	ABS A0004 SURVEY 25 B WILLIAMS, ACRES 27.34		27.34	AC		RESIDENTIAL	
11832	ABS A0004 SURVEY 25 B WILLIAMS, ACRES 15.18		15.18	AC		KENNEL/RESIDENTIAL	
10994	?		14	AC		RESIDENTIAL	
			12	AC		RESIDENTIAL	
	ABS A0001 SURVEY 24 H EGGLESTON.ACRES 1.				1		+
16132	ABS A0001 SURVEY 24 H EGGLESTON, ACRES 1. ABS A0001 SURVEY 24 H EGGLESTON. ACRES 5.0			ΑC		IRESIDENTIAL	
16132 25771	ABS A0001 SURVEY 24 H EGGLESTON,ACRES 1. ABS A0001 SURVEY 24 H EGGLESTON,ACRES 5.0		5	AC AC		RESIDENTIAL RESIDENTIAL	
16132		TOTAL	5 5	AC		RESIDENTIAL	
16132 25771		TOTAL	5 5 125.42	AC AC	621	RESIDENTIAL	
16132 25771		TOTAL	5 5 125.42 0.00	AC AC	0%	RESIDENTIAL AGRICULTURE/RANCH/FARM	
16132 25771		TOTAL	5 5 125.42 0.00 110.37	AC AC AC	88%	RESIDENTIAL AGRICULTURE/RANCH/FARM LUXURY RESIDENTS, 2-6 AC LOTS	
16132 25771		TOTAL	5 5 125.42 0.00 110.37 0.00	AC AC AC AC	88% 0%	RESIDENTIAL AGRICULTURE/RANCH/FARM LUXURY RESIDENTS, 2-6 AC LOTS SINGLE FAMILY RESIDENTS 1/4 AC LOTS	
16132 25771		TOTAL	5 5 125.42 0.00 110.37 0.00 0.00	AC AC AC AC AC AC	88% 0% 0%	RESIDENTIAL AGRICULTURE/RANCH/FARM LUXURY RESIDENTS, 2-6 AC LOTS SINGLE FAMILY RESIDENTS 1/4 AC LOTS INDUSTRIAL	
16132 25771		TOTAL	5 5 125.42 0.00 110.37 0.00	AC AC AC AC	88% 0%	RESIDENTIAL AGRICULTURE/RANCH/FARM LUXURY RESIDENTS, 2-6 AC LOTS SINGLE FAMILY RESIDENTS 1/4 AC LOTS	
16132 25771		TOTAL	5 5 125.42 0.00 110.37 0.00 0.00	AC AC AC AC AC AC	88% 0% 0%	RESIDENTIAL AGRICULTURE/RANCH/FARM LUXURY RESIDENTS, 2-6 AC LOTS SINGLE FAMILY RESIDENTS 1/4 AC LOTS INDUSTRIAL	
16132 25771		TOTAL	5 5 125.42 0.00 110.37 0.00 0.00	AC AC AC AC AC AC	88% 0% 0% 12%	RESIDENTIAL AGRICULTURE/RANCH/FARM LUXURY RESIDENTS, 2-6 AC LOTS SINGLE FAMILY RESIDENTS 1/4 AC LOTS INDUSTRIAL	

AREA 15 - PRIVATE RANCH	OR FARM NO WW SERVICE PROVIDED						
PROPERTY ID	LEGAL DESCRIPTION		QTY	UNITS	PERCENT	PROPOSED LAND USE	COMMENTS
80983							
12083							
17573							
19745							
18774							
5127	ABS A0003 SURVEY 23 NOEL MIXON, ACRES 25.2		25.20	AC	100%	PRIVATE RANCH	
3355	ABS A0003 SURVEY 23 NOEL MIXON, ACRES 8.76		8.76	AC	100%	PRIVATE RANCH	
11236	ABS A0003 SURVEY 23 NOEL MIXON, ACRES 14.31, (RETAINS LIFE ESTAT	TE)	14.31	AC	100%	PRIVATE RANCH	50% OF LOT IS OUTSIDE FUTURE SERVICE AREA
7266	ABS A0003 SURVEY 23 NOEL MIXON, ACRES 36.54		36.54	AC	100%	PRIVATE RANCH	50% OF LOT IS OUTSIDE FUTURE SERVICE AREA
5128	ABS A0634 SURVEY 90 W.C. WINTERS,ACRES 1.00		1.00	AC		PRIVATE RANCH	
			85.81				

APPENDIX B

AREA 1 ADWF 19,967.67 gpd 0.03089 cfs
PDWF 83,673.64 gpd 0.12946 cfs

PWWF 604,504.76 gpd 0.93531 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 0.00 AC
Size of lots 0.25 AC
Number of units 0 Units

ADWF = Units * 245 gpd

0.00 gpd 0.000000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre

Residential Area 490.19 AC
Size of lots 4 AC
Number of units 123 Units

ADWF = Units * 280 gpd

0.44 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 1.97 gpd 0.00 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 367,645.50 gpd

Qpw = 367,647.47 gpd 255.15 gpm 0.56847 cfs

Multi Family Residential Homes, 20 units per AC

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 0.00 AC

ADWF = Area * 1950 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.000 gpm 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre
Area 0.00 AC

ADWF = Area * 126 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Restaurant

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre

Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.000 gpm 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre

Area 65.36 AC

ADWF = Area * 195 gpd

12,745.04 gpd 8.85 gpm 0.01971 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.16Qpd = (PF*ADWF)

Qpd = 53,051.42 gpd 36.82 gpm 0.08203 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 49,019.40 gpd

Qpw = 102,070.82 gpd 70.84 gpm 0.15783 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre Area 138.89 AC

ADWF = Area * 52 gpd

7,222.19 gpd 5.01 gpm 0.01117 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.24Qpd = (PF*ADWF)

Qpd = 30,620.25 gpd 21.25 gpm 0.04735 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 104,166.23 gpd

Qpw = 134,786.48 gpd 93.54 gpm 0.20841 cfs

Stables/Kennels

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre

Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.000 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

ADWF 6,805.75 gpd 0.01053 cfs AREA 2 PDWF 29,361.27 gpd 0.04543 cfs

PWWF 105,081.27 gpd 0.16258 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 0.00 AC Size of lots 0.25 AC 0 Units Number of units

ADWF = Units * 245 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

0.00 gpd 0.00000 cfs Qpd = 0.00 gpm

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I 1&I = 750 gpd/acre

1&1 = 0.00 gpd

0.00 gpd 0.00000 cfs 0.00 gpm Qpw =

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

280 gpd per acre

Residential Area 58.56 AC Size of lots 4 AC

Number of units 11 Units units reduced to 11 due to existing development

ADWF = Units * 280 gpd

0.04 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

0.00 gpm 0.18 gpd 0.00000 cfs Qpd =

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

1&1 = 43,917.60 gpd

Qpw = 43,917.78 gpd 30.48 gpm 0.06791 cfs

Multi Family Residential Homes, 20 units per AC

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 0.00 AC

ADWF = Area * 1950 gpd

0.00 gpd 0.000gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 21.20 AC

ADWF = Area * 126 gpd

2,671.40 gpd 1.85 gpm 0.00413 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.34Qpd = (PF*ADWF)

Qpd = 11,585.78 gpd 8.04 gpm 0.01791 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 15,901.20 gpd

Qpw = 27,486.98 gpd 19.08 gpm 0.04250 cfs

Restaurant

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre
Area 21.20 AC

ADWF = Area * 195 gpd

4,134.31 gpd 2.87 gpm 0.00639 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.30Qpd = (PF*ADWF)

Qpd = 17,775.31 gpd 12.34 gpm 0.02748 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 15,901.20 gpd

Qpw = 33,676.51 gpd 23.37 gpm 0.05207 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 0.00 AC

ADWF = Area * 52 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.000 gpm 0.00000 cfs

Stables/Kennels

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre
Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

AREA 3 ADWF 4,850.53 gpd 0.00750 cfs PDWF 20,975.03 gpd 0.03245 cfs

PWWF 142,643.78 gpd 0.22070 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 0.00 AC
Size of lots 0.25 AC
Number of units 0 Units

ADWF = Units * 245 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.000gpm 0.00000 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre
Residential Area 12.98 AC
Size of lots 4 AC

Number of units 1 Units changed to 1 due to existing development

ADWF = Units * 280 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.02 gpd 0.00 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 9,733.50 gpd

Qpw = 9,733.52 gpd 6.76 gpm 0.01505 cfs

Multi Family Residential Homes, 20 units per AC

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 0.00 AC

ADWF = Area * 1950 gpd

0.00 gpd 0.000gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.000000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 0.00 AC

ADWF = Area * 126 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Restaurant

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre
Area 0.00 AC

ADWF = Area * 195 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 74.62 AC

ADWF = Area * 52 gpd

3,880.42 gpd 2.69 gpm 0.00600 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.31 Qpd = (PF*ADWF)

Qpd = 16,706.65 gpd 11.59 gpm 0.02583 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 55,967.63 gpd

Qpw = 72,674.27 gpd 50.44 gpm 0.11237 cfs

Stables/Kennels

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre

Area 74.62 AC

ADWF = Area * 13 gpd 970.11 gpd

0.67 gpm 0.00150 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.40 Qpd = (PF*ADWF)

Qpd = 4,268.37 gpd 2.96 gpm 0.00660 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 55,967.63 gpd

Qpw = 60,235.99 gpd 41.80 gpm 0.09314 cfs

AREA 4 ADWF 2.78 gpd 0.00000 cfs
PDWF 12.47 gpd 0.00002 cfs

PWWF 127,512.47 gpd 0.19729 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 170.00 AC
Size of lots 0.25 AC
Number of units 680 Units

ADWF = Units * 245 gpd

2.78 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.49Qpd = (PF*ADWF)

Qpd = 12.47 gpd 0.00002 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 127,500.00 gpd

Qpw = 127,512.47 gpd 88.49 gpm 0.19716 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre
Residential Area 0.00 AC
Size of lots 4 AC
Number of units 0 Units

ADWF = Units * 280 gpd

0.00 gpd 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 0.00 AC

ADWF = Area * 1950 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 0.00 AC

ADWF = Area * 126 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre
Area 0.00 AC

ADWF = Area * 195 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 0.00 AC

ADWF = Area * 52 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.000 gpm 0.00000 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre
Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

AREA 5 ADWF 3.85 gpd 0.00001 cfs
PDWF 17.29 gpd 0.00003 cfs

PWWF 335,195.29 gpd 0.51862 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 223.45 AC
Size of lots 0.25 AC
Number of units 894 Units

ADWF = Units * 245 gpd

3.65 gpd 0.00 gpm 0.00001 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.49Qpd = (PF*ADWF)

Qpd = 16.39 gpd 0.00003 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 167,589.00 gpd

Qpw = 167,605.39 gpd 116.32 gpm 0.25916 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre
Residential Area 223.45 AC

Size of lots 4 AC
Number of units 56 Units

ADWF = Units * 280 gpd

0.20 gpd 0.000gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.90 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 167,589.00 gpd

Qpw = 167,589.90 gpd 116.31 gpm 0.25913 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 0.00 AC

ADWF = Area * 1950 gpd

0.00 gpd 0.000gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 0.00 AC

ADWF = Area * 126 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.000gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre
Area 0.00 AC

ADWF = Area * 195 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 0.00 AC

ADWF = Area * 52 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre
Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

ADWF 1,955.98 gpd 0.00303 cfs AREA 6 PDWF 8,541.72 gpd 0.01322 cfs 0.06240 cfs

PWWF 40,328.97 gpd

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 0.00 AC Size of lots 0.25 AC Number of units 0 Units

ADWF = Units * 245 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

0.00 gpd 0.00000 cfs Qpd = 0.00 gpm

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I 1&I = 750 gpd/acre

1&1 = 0.00 gpd

0.00 gpd 0.00000 cfs Qpw = 0.00 gpm

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

280 gpd per acre Residential Area 0.00 AC Size of lots 4 AC 0 Units

Number of units

Units * 280 gpd 0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

ADWF =

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

0.00 gpm 0.00 gpd 0.00000 cfs Qpd =

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00 gpm 0.00000 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 0.00 AC

ADWF = Area * 1950 gpd

0.00 gpd 0.000gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

 $PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)$

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 0.00 AC

ADWF = Area * 126 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Restaurant

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre

0.00 AC Area ADWF = Area * 600 gpd 0.00 gpd 0.00 gpm 0.00000 cfs Peak Dry Weather Flow (PDWF) (Qpd) PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5) PF = 4.50 Qpd = (PF*ADWF)0.00 gpm 0.00000 cfs Qpd = 0.00 gpd Peak Wet Weather Flow (PWWF) (Qpw) Qpw = PDWF+ I&I I&I = 750 gpd/acre 1&1 = 0.00 gpd 0.00 gpd 0.00 gpm 0.00000 cfs Qpw = Office Average Dry Weather Flow (ADWF) (Qad) Flow 195 gpd per acre 0.00 AC Area Area * 195 gpd ADWF = 0.00000 cfs 0.00 gpd 0.00 gpm Peak Dry Weather Flow (PDWF) (Qpd) PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5) PF = 4.50 Qpd = (PF*ADWF) Qpd = 0.00 gpd 0.00 gpm 0.00000 cfs Peak Wet Weather Flow (PWWF) (Qpw) Qpw = PDWF+ I&I 1&I = 750 gpd/acre 1&1 = 0.00 gpd 0.00 gpm 0.00000 cfs Qpw = 0.00 gpd Industrial Average Dry Weather Flow (ADWF) (Qad) Flow 52 gpd per acre Area 36.03 AC Area * 52 gpd ADWF = 1.30 gpm 1,873.33 gpd 0.00290 cfs Peak Dry Weather Flow (PDWF) (Qpd) PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5) PF = 4.36 Qpd = (PF*ADWF)8,172.27 gpd 5.67 gpm 0.01264 cfs Qpd = Peak Wet Weather Flow (PWWF) (Qpw) Qpw = PDWF+ I&I I&I = 750 gpd/acre **I&I** = 27,019.16 gpd Qpw = 35,191.43 gpd 24.42 gpm 0.05441 cfs Stables/Kennels Average Dry Weather Flow (ADWF) (Qad) Flow 13 gpd per acre Area 6.36 AC ADWF = Area * 13 gpd

82.65 gpd 0.06 gpm 0.00013 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.47Qpd = (PF*ADWF)

Qpd = 369.45 gpd 0.26 gpm 0.00057 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 4,768.09 gpd

Qpw = 5,137.53 gpd 3.57 gpm 0.00794 cfs

AREA 7 ADWF 227,145.70 gpd 0.35145 cfs PDWF 775,237.96 gpd 1.19947 cfs

PWWF 949,963.96 gpd 1.46981 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 116.48 AC
Size of lots 0.25 AC
Number of units 466 Units

ADWF = Units * 245 gpd

1.90 gpd 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 8.55 gpd 0.01 gpm 0.00001 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 87,363.00 gpd Qpw = 87,371.55 gpd

87,371.55 gpd 60.64 gpm 0.13510 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre
Residential Area 0.00 AC
Size of lots 4 AC
Number of units 0 Units

ADWF = Units * 280 gpd

0.00 gpd 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

 $Qpw = PDWF + I\&I \qquad I\&I = 750 gpd/acre$

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 116.48 AC

ADWF = Area * 1950 gpd

227,143.80 gpd 157.64 gpm 0.35122 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 3.41 Qpd = (PF*ADWF)

Qpd = 775,229.41 gpd 538.01 gpm 1.19869 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 87,363.00 gpd

Qpw = 862,592.41 gpd 598.64 gpm 1.33377 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.000 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 0.00 AC

ADWF = Area * 126 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre
Area 0.00 AC

Area 0.00 F

ADWF = Area * 195 gpd 0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 0.00 AC

ADWF = Area * 52 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.000 gpm 0.00000 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre
Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

AREA 8 ADWF 102,699.00 gpd 0.15890 cfs
PDWF 408,580.99 gpd 0.63217 cfs

PWWF 523,317.79 gpd 0.80969 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 0.00 AC
Size of lots 0.25 AC
Number of units 0 Units

ADWF = Units * 245 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.000gpm 0.00000 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre
Residential Area 0.00 AC
Size of lots 4 AC
Number of units 0 Units

ADWF = Units * 280 gpd

0.00 gpd 0.000 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

 $Qpw = PDWF + I\&I \qquad I\&I = 750 gpd/acre$

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 28.68 AC

ADWF = Area * 1950 gpd

55,934.19 gpd 38.82 gpm 0.08649 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 3.86Qpd = (PF*ADWF)

Qpd = 215,934.38 gpd 149.86 gpm 0.33389 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 21,513.15 gpd

Qpw = 237,447.53 gpd 164.79 gpm 0.36715 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 13.39 AC

ADWF = Area * 2000 gpd

26,771.92 gpd 18.58 gpm 0.04140 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

 $PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)$

PF = 4.03

Qpd = (PF*ADWF)

Qpd = 107,922.46 gpd 74.90 gpm 0.16687 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 10,039.47 gpd

Qpw = 117,961.93 gpd 81.87 gpm 0.18240 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 57.37 AC

ADWF = Area * 126 gpd

7,228.42 gpd 5.02 gpm 0.01118 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.24Qpd = (PF*ADWF)

Qpd = 30,645.90 gpd 21.27 gpm 0.04739 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 43,026.30 gpd

Qpw = 73,672.20 gpd 51.13 gpm 0.11391 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 5.74 AC

ADWF = Area * 600 gpd

3,442.10 gpd 2.39 gpm 0.00532 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.32Qpd = (PF*ADWF)

Qpd = 14,856.45 gpd 10.31 gpm 0.02297 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 4,302.63 gpd

Qpw = 19,159.08 gpd 13.30 gpm 0.02962 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre
Area 47.81 AC

ADWF = Area * 195 gpd

9,322.37 gpd 6.47 gpm 0.01441 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.21Qpd = (PF*ADWF)

Qpd = 39,221.79 gpd 27.22 gpm 0.06065 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 35,855.25 gpd

Qpw = 75,077.04 gpd 52.10 gpm 0.11609 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 0.00 AC

ADWF = Area * 52 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre

Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

ADWF 140,319.56 gpd 0.21711 cfs AREA 9 PDWF 507,706.82 gpd 0.78554 cfs 577,344.32 gpd 0.89328 cfs

PWWF

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad) Flow 245 gpd per home

> Residential Area 0.00 AC Size of lots 0.25 AC Number of units 0 Units

ADWF = Units * 245 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

0.00 gpd 0.00000 cfs Qpd = 0.00 gpm

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I 1&I = 750 gpd/acre

1&1 = 0.00 gpd

0.00 gpd 0.00000 cfs Qpw = 0.00 gpm

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

280 gpd per acre Residential Area 0.00 AC Size of lots 4 AC Number of units 0 Units

Units * 280 gpd ADWF =

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

0.00 gpm 0.00 gpd 0.00000 cfs Qpd =

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00 gpm 0.00000 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 69.64 AC

ADWF = Area * 1950 gpd

135,793.13 gpd 94.24 gpm 0.20997 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 3.60Qpd = (PF*ADWF)

Qpd = 488,285.13 gpd 338.87 gpm 0.75501 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 52,228.13 gpd

Qpw = 540,513.26 gpd 375.12 gpm 0.83576 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.000 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

 $PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)$

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 0.00 AC

ADWF = Area * 126 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre Area 23.21 AC

ADWF = Area * 195 gpd

4,526.44 gpd 3.14 gpm 0.00700 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.29 Qpd = (PF*ADWF)

Qpd = 19,421.69 gpd 13.48 gpm 0.03003 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 17,409.38 gpd

Qpw = 36,831.06 gpd 25.56 gpm 0.05695 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 0.00 AC

ADWF = Area * 52 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

 $Qpw = PDWF + I\&I \qquad I\&I = 750 gpd/acre$

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre
Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

AREA 10 ADWF 1,810.65 gpd 0.00280 cfs
PDWF 7,902.89 gpd 0.01223 cfs

PWWF 77,540.39 gpd 0.11997 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 0.00 AC
Size of lots 0.25 AC
Number of units 0 Units

ADWF = Units * 245 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.000gpm 0.00000 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre
Residential Area 83.57 AC
Size of lots 4 AC

Number of units 21 Units

ADWF = Units * 280 gpd

0.07 gpd 0.000 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.34 gpd 0.00 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

 $Qpw = PDWF + I\&I \qquad I\&I = 750 gpd/acre$

I&I = 62,673.75 gpd

Qpw = 62,674.09 gpd 43.50 gpm 0.09691 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 0.00 AC

ADWF = Area * 1950 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 0.00 AC

ADWF = Area * 126 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre
Area 9.29 AC

ADWF = Area * 195 gpd

1,810.58 gpd 1.26 gpm 0.00280 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.36Qpd = (PF*ADWF)

Qpd = 7,902.56 gpd 5.48 gpm 0.01222 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 6,963.75 gpd

Qpw = 14,866.31 gpd 10.32 gpm 0.02299 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre Area 0.00 AC

ADWF = Area * 52 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre
Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

AREA 11 ADWF 887.64 gpd 0.00137 cfs PDWF 3,909.28 gpd 0.00605 cfs

PWWF 16,711.78 gpd 0.02586 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area

0.00 AC
Size of lots

0.25 AC
Number of units

0 Units

ADWF = Units * 245 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.000gpm 0.00000 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre
Residential Area 0.00 AC
Size of lots 4 AC
Number of units 0 Units

ADWF = Units * 280 gpd

0.00 gpd 0.000gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 0.00 AC

ADWF = Area * 1950 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 0.00 AC

ADWF = Area * 126 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre
Area 0.00 AC

ADWF = Area * 195 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 17.07 AC

ADWF = Area * 52 gpd

887.64 gpd 0.62 gpm 0.00137 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.40 Qpd = (PF*ADWF)

Qpd = 3,909.28 gpd 2.71 gpm 0.00604 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 12,802.50 gpd

Qpw = 16,711.78 gpd 11.60 gpm 0.02584 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre
Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

AREA 12 ADWF 85,181.07 gpd 0.13179 cfs
PDWF 338,260.47 gpd 0.52337 cfs

PWWF 690,039.72 gpd 1.06765 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 211.07 AC
Size of lots 0.25 AC
Number of units 844 Units

ADWF = Units * 245 gpd

3.45 gpd 0.00 gpm 0.00001 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.49 Qpd = (PF*ADWF)

Qpd = 15.49 gpd 0.01 gpm 0.00002 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 158,300.66 gpd

Qpw = 158,316.15 gpd 109.87 gpm 0.24479 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre

Residential Area 164.16 AC
Size of lots 4 AC
Number of units 41 Units

ADWF = Units * 280 gpd

0.15 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.66 gpd 0.00 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 123,122.74 gpd

Qpw = 123,123.40 gpd 85.45 gpm 0.19038 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 28.14 AC

ADWF = Area * 1950 gpd

54,877.56 gpd 38.09 gpm 0.08485 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 3.87Qpd = (PF*ADWF)

Qpd = 212,127.94 gpd 147.22 gpm 0.32800 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 21,106.76 gpd

Qpw = 233,234.69 gpd 161.86 gpm 0.36064 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 9.38 AC

ADWF = Area * 2000 gpd

18,761.56 gpd 13.02 gpm 0.02901 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

 $PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)$

PF = 4.10

Qpd = (PF*ADWF)

Qpd = 76,899.57 gpd 53.37 gpm 0.11891 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 7,035.59 gpd

Qpw = 83,935.15 gpd 58.25 gpm 0.12978 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 46.90 AC

ADWF = Area * 126 gpd

5,909.89 gpd 4.10 gpm 0.00914 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.26Qpd = (PF*ADWF)

Qpd = 25,193.23 gpd 17.48 gpm 0.03895 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 35,177.93 gpd

Qpw = 60,371.15 gpd 41.90 gpm 0.09335 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 9.38 AC

ADWF = Area * 600 gpd

5,628.47 gpd 3.91 gpm 0.00870 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.27Qpd = (PF*ADWF)

Qpd = 24,023.59 gpd 16.67 gpm 0.03715 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 7,035.59 gpd

Qpw = 31,059.17 gpd 21.56 gpm 0.04802 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre
Area 0.00 AC

ADWF = Area * 195 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 0.00 AC

ADWF = Area * 52 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

 $Qpw = PDWF + I\&I \qquad I\&I = 750 gpd/acre$

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.000 gpm 0.00000 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre
Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

AREA 13 ADWF 5,710.91 gpd 0.00884 cfs
PDWF 24,366.73 gpd 0.03770 cfs

PWWF 177,314.98 gpd 0.27435 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 45.32 AC
Size of lots 0.25 AC
Number of units 181 Units

ADWF = Units * 245 gpd

0.74 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 3.33 gpd 0.00001 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 33,988.50 gpd

Qpw = 33,991.83 gpd 23.59 gpm 0.05256 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre
Residential Area 113.30 AC
Size of lots 4 AC
Number of units 28 Units

ADWF = Units * 280 gpd

0.10 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.46 gpd 0.00 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 84,971.25 gpd

Qpw = 84,971.71 gpd 58.97 gpm 0.13139 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 0.00 AC

ADWF = Area * 1950 gpd

0.00 gpd 0.000gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.000000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 45.32 AC

ADWF = Area * 126 gpd

5,710.07 gpd 3.96 gpm 0.00883 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.27Qpd = (PF*ADWF)

Qpd = 24,362.95 gpd 16.91 gpm 0.03767 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 33,988.50 gpd

Qpw = 58,351.45 gpd 40.50 gpm 0.09023 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.000gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre
Area 0.00 AC

ADWF = Area * 195 gpd

0.00 gpd 0.000000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 0.00 AC

ADWF = Area * 52 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.000 gpm 0.00000 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre
Area 0.00 AC

ADWF = Area * 13 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

AREA 14 ADWF 195.75 gpd 0.00030 cfs PDWF 871.96 gpd 0.00135 cfs

PWWF 94,936.96 gpd 0.14689 cfs

Single Family Residential Homes, 1/4 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 245 gpd per home

Residential Area 0.00 AC
Size of lots 0.25 AC
Number of units 0 Units

ADWF = Units * 245 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.000gpm 0.00000 cfs

Single Family Residential Homes, 2-6 AC lots

Average Dry Weather Flow (ADWF) (Qad)

Flow 280 gpd per acre
Residential Area 110.37 AC

Size of lots 4 AC
Number of units 28 Units

ADWF = Units * 280 gpd

0.10 gpd 0.000 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50 Qpd = (PF*ADWF)

Qpd = 0.44 gpd 0.00 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

 $Qpw = PDWF + I\&I \qquad I\&I = 750 gpd/acre$

I&I = 82,777.20 gpd

Qpw = 82,777.64 gpd 57.45 gpm 0.12799 cfs

Average Dry Weather Flow (ADWF) (Qad)

Flow 1950 gpd per acre

Residential Area 0.00 AC

ADWF = Area * 1950 gpd

0.00 gpd 0.000gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

1&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Motel with Kitchen

Average Dry Weather Flow (ADWF) (Qad)

Flow 2000 gpd per acre

Area 0.00 AC

ADWF = Area * 2000 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50

Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Shopping Center

Average Dry Weather Flow (ADWF) (Qad)

Flow 126 gpd per acre

Area 0.00 AC

ADWF = Area * 126 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 600 gpd per acre
Area 0.00 AC

ADWF = Area * 600 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Office

Average Dry Weather Flow (ADWF) (Qad)

Flow 195 gpd per acre

Area 0.00 AC

ADWF = Area * 195 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000 gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF+ I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Qpw = 0.00 gpd 0.00000 cfs

Industrial

Average Dry Weather Flow (ADWF) (Qad)

Flow 52 gpd per acre
Area 0.00 AC

ADWF = Area * 52 gpd

0.00 gpd 0.00 gpm 0.00000 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.50Qpd = (PF*ADWF)

Qpd = 0.00 gpd 0.000gpm 0.00000 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

Qpw = PDWF + I&I I&I = 750 gpd/acre

I&I = 0.00 gpd

Average Dry Weather Flow (ADWF) (Qad)

Flow 13 gpd per acre
Area 15.05 AC

ADWF = Area * 13 gpd

195.66 gpd 0.14 gpm 0.00030 cfs

Peak Dry Weather Flow (PDWF) (Qpd)

PF = (18+(0.0206*ADWF)^0.5)/(4+0.0206*ADWF)^0.5)

PF = 4.45 Qpd = (PF*ADWF)

Qpd = 871.51 gpd 0.60 gpm 0.00135 cfs

Peak Wet Weather Flow (PWWF) (Qpw)

I&I = 11,287.80 gpd

Qpw = 12,159.31 gpd 8.44 gpm 0.01880 cfs

APPENDIX C

CITY OF BLANCO WASTEWATER TRUNK MAIN PRELIMINARY ENGINEER'S OPINION OF PROBABLE PROJECT COST

NO.	DESCRIPTION ATER INTERCEPTOR	UNIT	QTY	UI	NIT PRICE		ted: 11-18-2019 AMOUNT
			<u> </u>				
WASTEW <i>E</i>	ATER INTERCEPTOR						
	T						
	PIPE, 15" PVC SDR 26 (ALL DEPTHS INCLUDING EXCAVATION & BACKFILL)	LF	15,800	\$	90		1,422,000
	JACK & BORE, 24" PIPE 3/8" STEEL UNDER 281 (2PL)	LF	750	\$	800		600,000
	STANDARD PRE-CAST MANHOLE 5 FOOT DIAMETER (EVERY 700 FT)	EA	23	\$	11,550	\$	260,700
LIFT STAT	ION NO. 1						
	LIFT STATION DUPLEX 30' DEEP	LS	1	\$	192,050	\$	192,050
	WET WELL & PIPING	Lis	1	Ψ	172,030	Ψ	172,030
	PUMPS (2) KSB MODEL E100-317/304XEG-S 40 HP, 460V 3 PHASE 60 HZ						
	EXPLOSION PROOF, ELEC SUBMERSIBLE PUMPS						
	50' POWER CABLES, SS LIFTING BAILS, 35' SS LIFTING CHAIN						
	48"X72" SINGLE DOOR ALUMINUM ACCESS COVER PEDESTRIAN LOADING						
	DUPLEX CONSTANT SPEED CONTROL PANEL						
	PRE-CAST VALVE VAULT	LS	1	\$	55,000	\$	55,000
	SWING CHECK VALVES 8"	EA	2	\$	3,750	\$	7,500
	PLUG VALVES 8"	EA	3	\$	1,750	\$	5,250
	2" ARAV	EA	1	\$	1,200	\$	1,200
	FLOW METER & VAULT	LS	1	\$	15,000	\$	15,000
	STANDBY GENERATOR W CONCRETE PAD	LS	1	\$	75,000	\$	75,000
	ELECTRICAL: CONTROL PANEL, ATS, MAIN DISCONNECT, SUBMERSIBLE	LS	1	\$	70,000	\$	70,000
	TRANSDUCER, SCADA						
	PIPE, 6" DUCTILE IRON FORCE MAIN AND FITTINGS	LF	1,000	\$	100		100,000
	JIB CRAIN AND TROLLEY	LS SY	50	\$	40,000	\$	40,000
	ASPHALT DRIVE		240	\$		\$	5,000
	CHAIN LINK FENCE W/ 16' WIDE DBL SWING GATE	LF	240	Э	100	Þ	24,000
LIFT STAT	ION NO. 2						
LII I SIAI	LIFT STATION TRIPLEX 40' DEEP	LS	1	\$	186,772	\$	186,772
	WET WELL & PIPING	LS	1	\$	80,000		80,000
	PUMPS (3) KSB MODEL K150-317/454XEG-S 60 HP, 460V 3 PHASE 60 HZ	Lis	1	Ψ	00,000	Ψ	00,000
	EXPLOSION PROOF, ELEC SUBMERSIBLE PUMPS						
	65' POWER CABLES, SS LIFTING BAILS, 45' SS LIFTING CHAIN						
	(3) 36"X48" SINGLE DOOR ALUMINUM ACCESS COVER PEDESTRIAN LOADING						
	DUPLEX CONSTANT SPEED CONTROL PANEL						
	PRE-CAST VALVE VAULT	LS	1	\$	55,000	\$	55,000
	SWING CHECK VALVES 8"	EA	2	\$	3,750	\$	7,500
	PLUG VALVES 8"	EA	3	\$	1,750	\$	5,250
	2" ARAV	EA	1	\$	1,200	\$	1,200
	FLOW METER & VAULT	LS	1	\$	15,000		15,000
	STANDBY GENERATOR W CONCRETE PAD	LS	1	\$	75,000	\$	75,000
	ELECTRICAL: CONTROL PANEL, ATS, MAIN DISCONNECT, SUBMERSIBLE	LS	1	\$	75,000	\$	75,000
	TRANSDUCER, SCADA						
	PIPE, 8" DUCTILE IRON FORCE MAIN AND FITTINGS	LF	1,000	\$	110	_	110,000
	JIB CRAIN AND TROLLEY	LS	1	\$	40,000	\$	40,000
	ASPHALT DRIVE	SY LF	50	\$	100	\$	5,000
	CHAIN LINK FENCE W/ 16' WIDE DBL SWING GATE	LF	275	\$	100	3	27,500
SITE CIVIL	WODV						
SITE CIVIL	SITE WORK - CLEARING AND GRUBBING	LS	1	\$	78,000	\$	78,000
	SHEET SHORING AND BRACING	LS	1	\$	75,000		75,000
	TRENCH EXCAVATION SAFETY SYSTEM ALL DEPTHS	LF	5,800	\$		\$	29,000
	SILT FENCE FOR EROSION CONTROL	LF	4,000	\$		\$	20,000
	NATIVE GRASSLAND SEEDING AND PLANTING	SY	4,000	\$		\$	24,000
	BARRICADES, SIGNS & TRAFFIC HANDLING	MON	3	\$	4,000		12,000
	STABILIZED CONSTRUCTION ENTRANCE	EA	2	\$	2,000		4,000
	TREE PROTECTIVE FENCING, TYPE A, CHAIN LINK FENCE, INCLUDING BOARDS FOR			6			
	TREE TRUNK PROTECTION	LF	1,000	\$		\$	5,000
	STORM WATER POLLUTION PLAN	LS	1	\$	6,000	\$	6,000
	MOBILIZATION, BONDS, INSURANCE, SUBMITTALS, DEMOBILIZATION AND	LS	1	\$	190,446	\$	190,446.08
	CLOSEOUT, COMPLETE IN PLACE			+			
	SUDTOTAL			+		¢	2 000 269
	SUBTOTAL CONTINGENCIES (1/ 25%)					\$	3,999,368
	CONTINGENCIES (+/- 25%) TOTAL ESTIMATED CONSTRUCTION COST			+		\$	999,632 4,999,000
	TOTAL ESTIMATED CONSTRUCTION COST			+		Þ	4,799,000
NOTES:		1		_1			
NOTES:	The Engineer has no control over the cost of labor, materials or equipment or over the Contractor(s) methods of	f determining					
	The Engineer has no control over the cost of labor, materials or equipment or over the Contractor(s) methods o	Ť					
	The Engineer has no control over the cost of labor, materials or equipment or over the Contractor(s) methods o prices. The engineer not and does not guarantee the proposals, bids or construction costs will not vary from the probable cost prepared by him.	Ť					