



TABLE OF CONTENTS

VOLUME 3

TM 2-1 – COLLECTION / TREATMENT PLAN

TM 2-2 – MODEL CONSTRUCTION AND COLLECTION SYSTEM

ANALYSIS

The individual Technical Memorandum contained in Volume 3 were developed and issued over the course of the project. Some of the figures and values contained in Volume 3 may differ slightly from the values presented in Volume 1 as a result of refinements made while finalizing the recommended 2007 Integrated Water Master Plan



COLLECTION / TREATMENT PLAN TECHNICAL MEMORANDUM NO. 2-1

Table of Contents

1.0	INTRODUCTION.....	2
2.0	HISTORICAL WASTEWATER FLOW ANALYSIS.....	2
2.1	Average Dry Weather Flow	2
2.2	Maximum Month	7
2.3	Percent Returned.....	7
2.4	Unit Rates.....	8
3.0	WASTEWATER BASINS AND FLOW PROJECTIONS.....	10
3.1	Wastewater Basin and Sub-basin Configuration	10
3.2	Projected Wastewater Flowrates.....	14
3.3	Alternate Basin Configurations.....	15



MODEL CONSTRUCTION AND COLLECTION SYSTEM ANALYSIS TECHNICAL MEMORANDUM NO. 2-2

Table of Contents

1.0	INTRODUCTION.....	3
1.1	General.....	3
1.2	Software.....	4
1.3	Projected Flow Rates.....	4
2.0	MODEL CONSTRUCTION.....	6
2.1	Base Year Model.....	6
2.2	Model Calibration.....	11
2.3	Buildout Model.....	20
2.4	Intermediate Year Model.....	22
3.0	HYDRAULIC ANALYSIS.....	24
3.1	Summary of Analyses.....	24
3.2	Design Parameters.....	25
3.3	Base Year Hydraulic Analysis.....	26
3.3.1	157 th Ave WWTP Basin.....	26
3.3.2	Corgett and Rainbow WRF Basins.....	30
3.4	Buildout Hydraulic Analysis.....	32
3.4.1	157 th Ave WWTP Basin Results.....	32
3.4.2	Corgett WRF Basin.....	49
3.4.3	Rainbow Valley WRF Basin.....	53
3.4.4	Waterman Wash Basin.....	57
4.0	RECOMMENDED IMPROVEMENTS.....	62
4.1	Collection System.....	62
4.2	Lift Stations.....	62
4.3	Reclamation Facilities.....	64



COLLECTION / TREATMENT PLAN TECHNICAL MEMORANDUM NO. 2-1

Table of Contents

1.0	INTRODUCTION.....	2
2.0	HISTORICAL WASTEWATER FLOW ANALYSIS.....	2
2.1	Average Dry Weather Flow	2
2.2	Maximum Month	7
2.3	Percent Returned.....	7
2.4	Unit Rates.....	8
3.0	WASTEWATER BASINS AND FLOW PROJECTIONS.....	10
3.1	Wastewater Basin and Sub-basin Configuration	10
3.2	Projected Wastewater Flowrates.....	14
3.3	Alternate Basin Configurations.....	15



1.0 INTRODUCTION

The purpose of this technical memorandum (TM) is to analyze historic wastewater flow data, project base year, intermediate and buildout flow rates and size and locate the wastewater treatment plants which will produce the City's reclaimed water supply.

2.0 HISTORICAL WASTEWATER FLOW ANALYSIS

The City's historical wastewater generation records were analyzed in order to establish the following flow rates and factors:

- Average Dry Weather Flow (ADWF)
- Maximum Month (MM)
- Percent Returned
- Unit Rates

2.1 AVERAGE DRY WEATHER FLOW

Historic flow records, from January 2001 to February 2007, were available for both the 157th Ave. Wastewater Treatment Plant (WWTP) and Corgett Water Reclamation Facility (WRF). Flow data from the Rainbow Valley WRF was available from May 2006 (when the plant came on-line), thru February 2007. Appendix A contains the daily meter readings from these plants which were used in this report.

Records were analyzed to calculate the historic ADWF at each plant and adjustments were made to account for:

- Plant return flows
- Reject brine from RO treatment units
- Wastewater collected from LPSCO

The goal of this accounting process was to determine the portion of recorded influent at each plant that was from wastewater generated within the City's Sewer Service Area. This wastewater flow rate could then be used to develop unit flow rates and future wastewater flow projections for the City.



The following items were considered in the ADWF calculations:

Plant Return Flows. It was necessary to correct the influent meter readings at the Corgett WRF for internal plant flow which is re-circulated to the headworks and double counted through the influent meter. The re-circulated flow includes filter backwash and digester decant as shown in Table 1. (Refer to the Corgett WRF flow schematic presented in TM1) The frequency, duration and flow rate for these events were determined through discussion with plant operators and Table 1 shows that the plant influent readings are to be adjusted 0.01 mgd downward to account for the internal recycled flow streams. Internal recycle streams from the other two plants do not get double counted and therefore, no corrections were needed at the 157th WWTP or the Rainbow Valley WRF. (Refer to the 157th Ave WWTP and Rainbow Valley WRF flow schematics presented in TM1).

Table 1: Corgett WRF Recycle Streams

Decant Digesters	Frequency =	1 per week
	Percent Decant =	50 %
Volume of Digesters	Digester 1 =	.024 MG
	Digester 2 =	.070 MG
	Total Decant Volume =	.047 MG/week
Sand Filter Backwash	Frequency =	2 per week
	Duration Each =	1 Hour
	Backwash Flowrate =	225 gpm
	Backwash Volume =	.027 MG/week
Total Return Flow =		.074 MG/week
		.011 mgd

Meter Offline. The 157th Ave. WWTP's influent meter was offline for numerous periods between 2001 – 2007. For these periods, the annual average flow was assigned to the effluent meter for the daily reading.

Outside Flow. Through May of 2002, the 157th Ave plant accepted roughly 1 mgd of flow from the LPSCO service area. This outside flow ended when LPSCO's Palm Valley WWTP came online and LPSCO began treating its own wastewater. It should also be noted that the Perryville Prison, located just north of I-10, is within the City's Sewer Service area but outside of the Water Service Area. The approximately 0.3 mgd flow from the prison was subtracted from the 157th Ave WWTP influent flow when comparing water supplied to wastewater returned within WPA2.



Reject Brine Flow. The 157th WWTP treats waste brine from two wells located in WPA2: W-12 and W-19. Well 12 is located at Site 12 as described in TM 1-1 and the brine waste from treatment facilities at this well has been discharged to the collection system since August of 2003 at a rate of 0.05 mgd. Well 19 is located near the corner of Reems Road and Van Buren Road. The WWTP began receiving the waste brine from well 19 treatment facilities in May of 2005 at a rate of approximately 0.5 mgd. The 157th WWTP also treated 0.33 mgd of treated water from the PGA North, Crane Superfund Site from August of 2004 – May of 2005. This flow is also subtracted in order to get to the baseline wastewater flow generated with the City's Sewer Service Area.

The above corrections and adjustments were made to raw influent data and are shown in Appendix A and summarized in Table 2. Figure 1 plots the resulting historic flow data for each of the City's wastewater treatment plants. It can be seen that after correcting for the other tributary flows which have come and gone, there has been a steady increase in wastewater flow within the City's sewer service area over the past six years.



Table 2: Annual Average Wastewater Flows

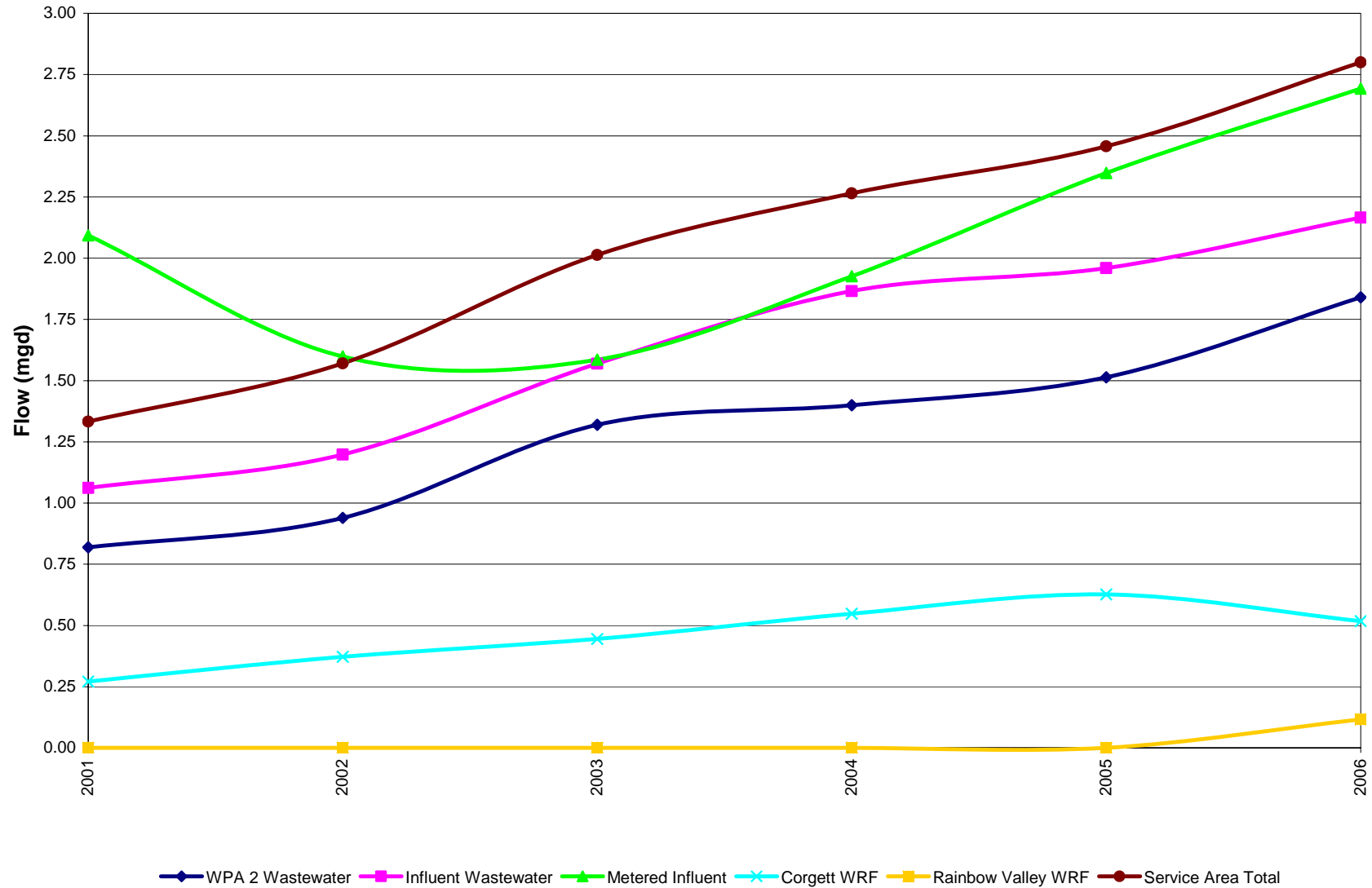
Year	157 th Ave. WWTP							Corgett WRF	Rainbow Valley WRF	Service Area Total (mgd)
	Metered Influent ¹ (mgd)	Waste Brine ² (mgd)	LPSCO Flows (mgd)	Influent Wastewater (mgd)	Perryville Flows (mgd)	PGA North, Crane Superfund Site (mgd)	WPA2 Wastewater (mgd)	Influent WPA 3 ³ (mgd)	Influent WPA 3 (mgd)	
2001	2.09	0.00	1.03	1.06	0.24	0.00	0.82	0.27	0.00	3.15
2002	1.60	0.00	0.40	1.20	0.26	0.00	0.94	0.37	0.00	2.80
2003	1.59	0.02	0.00	1.57	0.25	0.00	1.32	0.44	0.00	3.14
2004	1.93	0.06	0.00	1.87	0.32	0.15	1.40	0.55	0.00	2.27
2005	2.35	0.39	0.00	1.96	0.32	0.13	1.51	0.63	0.00	2.46
2006	2.69	0.53	0.00	2.17	0.33	0.00	1.84	0.52	0.12	2.80

Notes:

1. 157th Effluent meter reading used in place of influent readings for 2001 – 2004
2. Includes waste brine from Wells 12 and 19
3. Corgett flows are adjusted for re-circulated flows in the plant (filter backwash and digester decant)



Figure 1: Annual Average Wastewater Flows





2.2 MAX MONTH

Aside from the steady increase in wastewater flow over the course of the year which results from growth, the monthly average flow at each plant would be roughly the same through each month of the year. However, growth aside, there is normally some variability and the single largest month is known as the max month (MM) and the max month factor (max month to annual average) is an important factor used in the design of the biological processes in a WWTP. As seen in Table 3, the maximum monthly flow occurs in the winter months and this factor has an average value of 1.18 times the annual average flow rate.

Table 3: Max Month Wastewater Generation

Year	Annual Average (mgd)	Month	WPA2 Wastewater (mgd)	% of Annual Average
2001	0.82	December	0.95	1.16
2002	0.94	November	1.07	1.14
2003	1.32	November	1.58	1.20
2004	1.41	October	1.78	1.27
2005	1.51	January	1.72	1.14
2006	1.84	October	2.23	1.21
			Average	1.18

It should be noted that the relationship of the max month to the annual average is likely influenced by the steady growth experienced by the City’s plants, which would bias the max month towards the end of the year and inflate its value. Upon reaching buildout, the actual MM factor may be found to be less.

2.3 PERCENT RETURNED

The percent returned factor can be calculated through comparison of the quantity of water supplied to customers to the quantity which is returned as wastewater. Understanding the percent returned helps in the calculation of wastewater unit rates and projections of future flow rates based on water demand. It provides an important linkage between potable water supply and reclaimed water production which is necessary in the development of integrated water, wastewater, and reclaimed water infrastructure.

The percent or portion returned is generally the portion of potable water which is used for interior uses, such as kitchens, bathrooms, and laundry uses, whereas the exterior water uses such as landscaping and pool filling do not generate wastewater returns. The percent returned will



vary between residential and commercial users and will also vary depending on whether metered sales or water production values are used. Table 4 shows the calculated factors, using 2004 data, a year for which complete records of both metered sales and wastewater flow records were available.

Table 4: Wastewater Percent Returned (2004)

Meter Sale Type	Metered Water Sales (gal/yr)	% Returned	WW Returned (gal/yr)
Residential SF	963,015,000	42	404,466,300
Residential MF	87,316,870	56	48,897,447
Non-Residential	499,075,130	52	259,519,068
Total	1,549,407,000	46.0	712,882,815
<hr/>			
Meter Sale Type	Total Water Production (gal/yr)	% Returned	WW Returned (gal/yr)
Total	1,677,877,000	42.5	713,097,725
Total WPA2 & WPA3 Metered WW for 2004			713,020,904

2.4 UNIT RATES

Wastewater unit flow rates, in terms of gallons per dwelling unit (GPDU) and gallons per acre-day (GPAD) were developed for each of the City’s residential and non-residential land use categories. The resulting wastewater unit flow rates are presented in Table 5 and were developed in the following manner:

- The water demand unit rates determine the amount of water supplied to residential and non-residential land uses.
- Multiplying the water supplied by the Percent Returned factor determines the amount of wastewater flow which will be generated by each land use category.

Following the same process as was used in TM1-2 for water demand projections, these wastewater unit rates will be used in conjunction with the residential and non-residential acreage totals from Land Use Plan to calculate projected wastewater flow rates at buildout.



Table 5: Wastewater Unit Rate Summary

RESIDENTIAL	Target Density (DU/Ac)	Unit Demand (gpdu)	% Returned	WW Generation Rates	
Single-Family Residential					
Agricultural Preservation (1 du/ac)	1	450	39	176	
Rural (0-2 du/ac)	1	400	40	160	
Low Density (2-4 du/ac)	3	351	41	144	
Low-Medium Density (4-6 du/ac)	5	288	45	129	
Multi-Family Residential					
Medium Density (6-10 du/ac)	8	256	50	128	
Medium-High Density (10-20 du/ac)	15	231	54	124	
High Density Residential (20+ du/ac)	25	200	55	110	
NON RESIDENTIAL	Floor to Area Ratio (FAR)	Unit Demand (gpd/sf)	Unit Demand (gpad)	% Returned	WW Generation Rates
Employment					
Community Commercial	0.30	0.12	1,568	52	815
Regional Commercial	0.30	0.15	1,960	52	1,019
Luke Compatible Land Use Area	0.30	0.15	1,960	52	1,019
City Center	1.50	0.17	10,781	52	5,606
Ball Park Village (Blocks 1 thru 6)	1.00	0.17	7,187	52	3,737
Light Industrial	0.30	0.08	1,045	52	544
General Industrial	0.30	0.15	1,960	52	1,019
Support					
Public / Quasi Public	0.30	0.15	1,960	52	1,019
Prison	0.30	0.25	3,267	52	1,699
Airport	0.05	0.15	327	52	170
Parks	0	0	0	0	0
Roads	0	0	0	0	0
Open Space	0	0	0	0	0

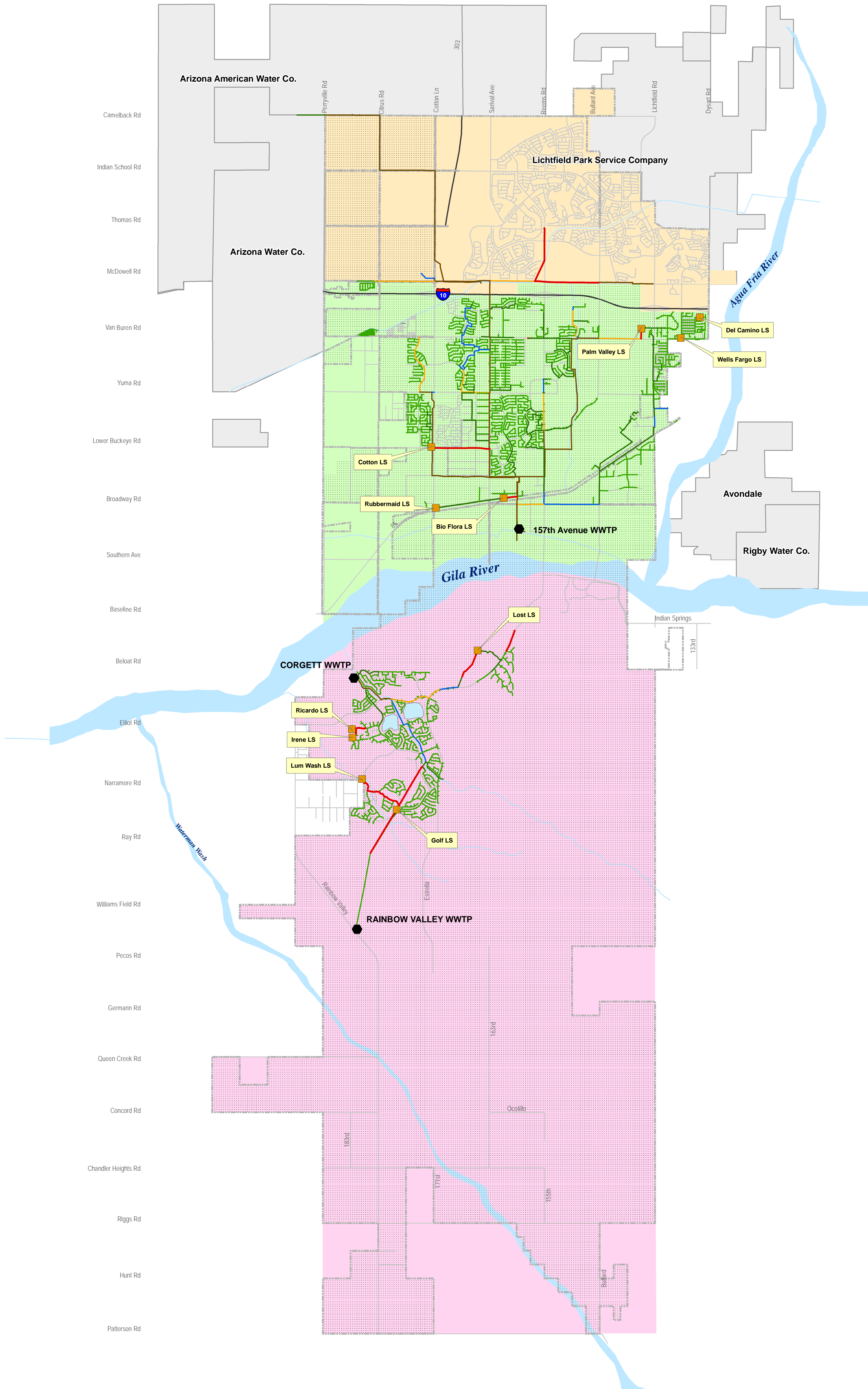


3.0 WASTEWATER BASINS AND FLOW PROJECTIONS

Projected wastewater generation rates are developed for this study for the base year 2007, near term year 2012, future year 2017, and City buildout 2045.

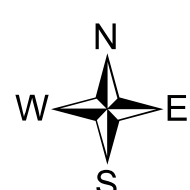
3.1 WASTEWATER BASIN AND SUB-BASIN CONFIGURATION

Wastewater collection systems are designed to first utilize gravity sewers wherever possible and secondly lift stations and pressurized force mains where necessary to convey flows to treatment facilities which are typically located at the lower end of the area they serve. Therefore, the topography of the project area is the primary influence on the locations chosen for the City's wastewater treatment facilities and the pattern in which the collection system develops. Another influence on the collection system development is existing sewer collection and treatment facilities and jurisdictional boundaries. Portions of the study area in WPA2 and WPA3 have existing collection and treatment facilities as shown in Figure 2.



LEGEND

- WWTP
 - Lift Station
 - Force Main
 - Gravity Main
 - 8" and Smaller
 - 10" - 12"
 - 15" - 16"
 - 18" - 20"
 - 24" and Larger
- | | |
|----------------------------|--|
| Study/Planning Area | <ul style="list-style-type: none"> ■ North ■ Central ■ South |
| | <ul style="list-style-type: none"> □ City Limits ▨ Goodyear Water Service Area Boundary ■ Other Service Providers |



1 inch equals 5,000 feet

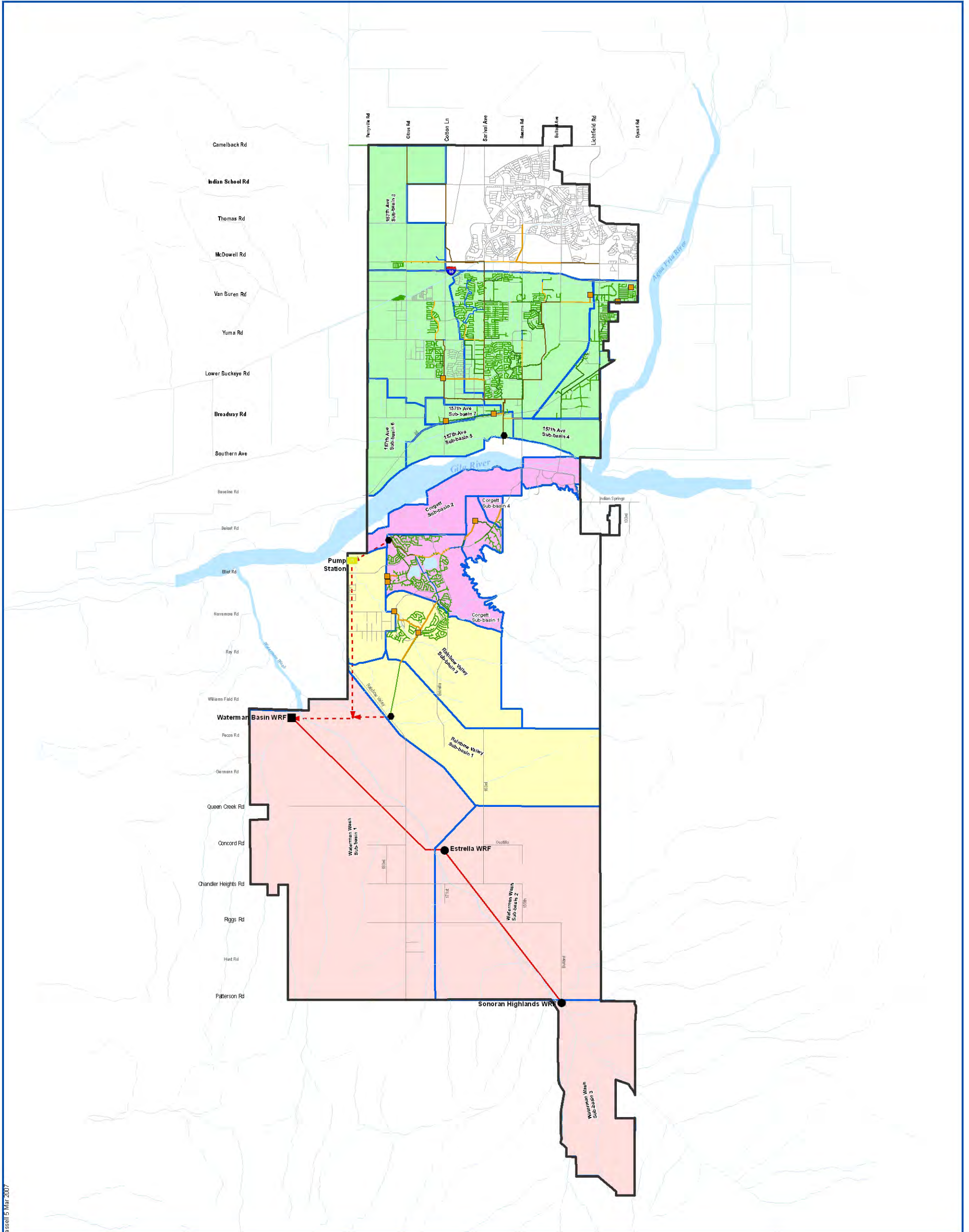
Data source:
City of Goodyear GIS

Figure 2
Base Year - (2007)
Wastewater Collection System
 Integrated Water Master Plan
 City of Goodyear, AZ
 2006





The overall system was planned by first evaluating topography to establish the natural drainage basins and plant locations. It was assumed that the City's Sewer Service area will expand at buildout to the limits of the study area, with the exception of WPA1 where LPSCO also provides service within their certificated service area. The resulting proposed plant locations and drainage basins at buildout are shown in Figure 3. These drainage basins are then further divided into sub-basins reflecting additional topographic, facility and jurisdictional constraints.



V:\Projects\2007\Year11\GIS\011\MapDocuments\ExistingReclam.mxd - Christina Fassel 15 Mar 2007



1 inch equals 12,880 feet

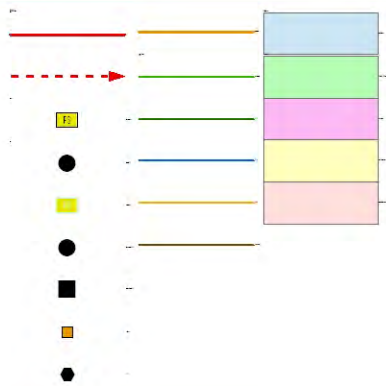


Figure 2 - Sub-Basin Map

Integrated Water Master Plan
 City of Goodyear, AZ
 2007





3.2 PROJECTED WASTEWATER FLOWRATES

Buildout wastewater generation was projected for the Study Area using buildout land use areas (derived from the 2003 General Plan and adjusted per TM1-2) and the gpdu and gpad unit rates established above. Table 6 presents the buildout flow rate calculated for each basin and Tables 7 thru 10 provides a breakdown of each primary basin into sub-basins.



Table 6: Average Day Wastewater Flow Per Basin

LAND USE CATEGORY	Target Density (du/ac)	Land Use								Acreage	Dwelling Units	Projected Generation								
		157th Ave		Corgett		Rainbow Valley		Waterman Wash				Total Acreage in Waste Water Service Area	Total Number of Dwelling Units in Waste Water Service Area	WW Returned (gpdu)	WW Returned (gpad)	157th Ave	Corgett	Rainbow Valley	Waterman Wash	Waste Water Service Area
		(ac)	(du)	(ac)	(du)	(ac)	(du)	(ac)	(du)							(mgd)	(mgd)	(mgd)	(mgd)	(mgd)
RESIDENTIAL																				
Single-Family Residential																				
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	0	0	0	0	176	176	0.0	0.0	0.0	0.0	0.0	0.0	
Rural (0-2 du/ac)	1	2,998	2,998	282	282	1,912	1,912	830	830	6,022	6,022	160	160	0.5	0.0	0.3	0.1	1.0		
Rural (0-2 du/ac)	2	0	0	0	0	3,693	7,386	15,559	31,118	19,252	38,504	160	320	0.0	0.0	1.2	5.0	6.2		
Low Density (2-4 du/ac)	3	5,435	16,305	1,457	4,370	2,639	7,916	10,572	31,716	20,102	60,307	144	432	2.3	0.6	1.1	4.6	8.7		
Low-Medium Density (4-6 du/ac)	5	2,536	12,682	856	4,278	1,320	6,601	1,458	7,292	6,171	30,853	129	647	1.6	0.6	0.9	0.9	4.0		
Single Family Sub Totals =										51,547	135,686			4.5	1.2	3.5	10.6	19.8		
Multi-Family Residential																				
Medium Density (6-10 du/ac)	8	454	3,632	491	3,932	578	4,620	2,047	16,372	3,570	28,556	128	1025	0.5	0.5	0.6	2.1	3.7		
Medium-High Density (10-20 du/ac)	15	541	8,110	196	2,935	73	1,090	368	5,522	1,177	17,658	124	1867	1.0	0.4	0.1	0.7	2.2		
High Density Residential (20+ du/ac)	25	0	2	97	2,429	257	6,432	553	13,837	908	22,701	110	2750	0.0	0.3	0.7	1.5	2.5		
Multi-Family Sub Totals =										5,655	68,915			1.5	1.1	1.4	4.3	8.4		
Residential Sub Totals =		11,964	43,730	3,378	18,225	10,472	35,958	31,387	106,688	57,202	204,601									
NON RESIDENTIAL																				
Employment																				
Community Commercial		1,728		209		431		1,265		3,633			815	1.4	0.2	0.4	1.0	3.0		
Regional Commercial		426		0		0		28		454			1,019	0.4	0.0	0.0	0.0	0.5		
City Center / Village Center		173		0		30		101		305			5,606	1.0	0.0	0.2	0.6	1.7		
Ballpark Village		48		0		0		0		48			3,737	0.2	0.0	0.0	0.0	0.2		
Light Industrial		4,069		0		117		224		4,409			544	2.2	0.0	0.1	0.1	2.4		
General Industrial		1,340		1		1		1		1,343			1,019	1.4	0.0	0.0	0.0	1.4		
Mixed Use		0		0		0		255		255			2,000	0.0	0.0	0.0	0.5	0.5		
														6.6	0.2	0.6	2.3	9.6		
Support																				
Public / Quasi Public		345		56		217		749		1,367			1,019	0.4	0.1	0.2	0.8	1.4		
Prison		427		0		0		0		427			1,699	0.7	0.0	0.0	0.0	0.7		
Airport		796		0		0		0		796			170	0.1	0.0	0.0	0.0	0.1		
Parks		100		947		334		503		1,883			0	0.0	0.0	0.0	0.0	0.0		
Roads		333		351		537		2,095		3,315			0	0.0	0.0	0.0	0.0	0.0		
Open Space		1,168		1,588		1,465		3,882		8,103			0	0.0	0.0	0.0	0.0	0.0		
Non- Residential Sub Totals =														1.2	0.1	0.2	0.8	2.3		
TOTAL =		22,917		6,530		13,603		40,490		83,539	204,601	TOTAL GENERATION =	13.7	2.6	5.7	18.0	40.0			

Waste Water Service Area Population = 542,191
Per Capita Unit Rate (gpcd) = 74



Table 7: Average Day Wastewater Flow - 157th Ave WWTP Sub Basins

LAND USE CATEGORY	Target Density (du/ac)	Land Use																Acreage	Dwelling Units	Projected Generation										Waste Water Service Area
		157th Ave. Sub Basins																		157th Ave Sub Basins										
		1		2		3		4		5		6		7		8				Total Acreage in Waste Water Service Area	Total Number of Dwelling Units in Waste Water Service Area	WW Returned (gpdu)	WW Returned (gpud)	1	2	3	4	5	6	
(ac)	(du)	(ac)	(du)	(ac)	(du)	(ac)	(du)	(ac)	(du)	(ac)	(du)	(ac)	(du)	(ac)	(du)	(mgd)	(mgd)	(mgd)	(mgd)					(mgd)	(mgd)	(mgd)	(mgd)	(mgd)	(mgd)	
RESIDENTIAL																														
Single-Family Residential																														
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	176	176	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Rural (0-2 du/ac)	1	426	426	889	889	997	997	0	0	1	1	668	668	0	0	17	17	2,998	2,998	160	160	0.1	0.1	0.2	0.0	0.0	0.1	0.0	0.5	
Rural (0-2 du/ac)	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	160	320	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Low Density (2-4 du/ac)	3	1,717	5,150	2,464	7,392	0	0	0	0	487	1,461	559	1,676	1	2	208	624	5,435	16,305	144	432	0.7	1.1	0.0	0.0	0.2	0.2	0.0	0.1	2.3
Low-Medium Density (4-6 du/ac)	5	316	1,582	125	624	1,867	9,337	0	0	197	986	6	29	0	0	25	125	2,536	12,682	129	647	0.2	0.1	1.2	0.0	0.1	0.0	0.0	1.6	
Single Family Sub Totals =																	10,970	31,985			1.0	1.3	1.4	0.0	0.3	0.4	0.0	0.1	4.5	
Multi-Family Residential																														
Medium Density (6-10 du/ac)	8	189	1,508	127	1,019	0	0	0	0	127	1,018	1	8	0	0	10	78	454	3,553	128	1025	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.5	
Medium-High Density (10-20 du/ac)	15	275	4,131	123	1,838	0	0	0	0	143	2,141	0	0	0	0	0	0	541	8,110	124	1867	0.5	0.2	0.0	0.0	0.3	0.0	0.0	1.0	
High Density Residential (20+ du/ac)	25	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	110	2750	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Multi-Family Sub Totals =																	995	11,663			0.7	0.4	0.0	0.0	0.4	0.0	0.0	0.0	1.5	
Residential Sub Totals =		2,923	12,798	3,728	11,761	2,865	10,334	0	0	955	5,607	1,233	2,380	1	4	260	845	11,964	43,649											
NON RESIDENTIAL																														
Employment																														
Community Commercial		650		322		149		0		42		83		57		425		1,728		815	0.5	0.3	0.1	0.0	0.0	0.1	0.0	0.3	1.4	
Regional Commercial		298		116		0		0		0		0		0		13		426		1,019	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.4		
City Center / Village Center		173		0		0		0		0		0		0		0		173		5,606	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0		
Ballpark Village		48		0		0		0		0		0		0		0		48		3,737	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2		
Light Industrial		1,548		427		0		476		217		459		19		923		4,069		544	0.8	0.2	0.0	0.3	0.1	0.2	0.0	0.5	2.2	
General Industrial		320		106		0		410		0		0		421		82		1,340		1,019	0.3	0.1	0.0	0.4	0.0	0.0	0.4	1.4		
Mixed Use		0		0		0		0		0		0		0		0		0		2,000	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
																					3.2	0.7	0.1	0.7	0.2	0.3	0.5	0.9	6.6	
Support																														
Public / Quasi Public		140		11		0		79		81		0		0		34		345		1,019	0.1	0.0	0.0	0.1	0.1	0.0	0.0	0.4		
Prison		0		0		427		0		0		0		0		0		427		1,699	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.7		
Airport		509		0		0		0		0		0		0		287		796		170	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1		
Parks		100		0		0		0		0		0		0		0		100		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Roads		79		116		35		0		51		0		10		43		333		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Open Space		647		280		0		164		4		56		16		1		1,168		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Non- Residential Sub Totals =																					0.2	0.0	0.7	0.1	0.1	0.0	0.0	0.1	1.2	
TOTAL=		7,434		5,106		3,475		1,129		1,349		1,831		524		2,068		22,917	43,649	TOTAL GENERATION =	5.1	2.4	2.2	0.8	1.0	0.7	0.5	1.1	13.7	

Waste Water Service Area
Population = 115,669
Per Capita Unit Rate (gpud) = 119



Table 8: Average Day Wastewater Flow - Corgett WRF Sub Basins

LAND USE CATEGORY	Target Density (du/ac)	Land Use										Acreage	Dwelling Units	Projected Generation					Waste Water Service Area		
		Corgett Sub Basins										Total Acreage in Waste Water Service Area	Total Number of Dwelling Units in Waste Water Service Area	WW Returned (gpdu)	WW Returned (gpac)	Corgett Sub Basins					
		1	2	3	4	5	1	2	3	4	5										
		(ac)	(du)	(ac)	(du)	(ac)	(du)	(ac)	(du)	(ac)	(du)					(mgd)	(mgd)	(mgd)	(mgd)	(mgd)	(mgd)
RESIDENTIAL																					
Single-Family Residential																					
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	0	0	0	0	0	0	176	176	0.0	0.0	0.0	0.0	0.0	0.0
Rural (0-2 du/ac)	1	2	2	279	279	0	0	0	0	0	0	281	281	160	160	0.0	0.0	0.0	0.0	0.0	0.0
Rural (0-2 du/ac)	2	0	0	0	0	0	0	0	0	0	0	0	0	160	320	0.0	0.0	0.0	0.0	0.0	0.0
Low Density (2-4 du/ac)	3	501	1,503	486	1,459	328	985	143	430	0	0	1,459	4,378	144	432	0.2	0.2	0.1	0.1	0.0	0.6
Low-Medium Density (4-6 du/ac)	5	260	1,301	595	2,976	0	0	0	0	0	0	856	4,278	129	647	0.2	0.4	0.0	0.0	0.0	0.6
Single Family Sub Totals =												2,596	8,937			0.4	0.6	0.1	0.1	0.0	1.2
Multi-Family Residential																					
Medium Density (6-10 du/ac)	8	396	3,166	96	765	0	0	0	0	0	0	491	3,932	128	1025	0.4	0.1	0.0	0.0	0.0	0.5
Medium-High Density (10-20 du/ac)	15	183	2,747	13	188	0	0	0	0	0	0	196	2,935	124	1867	0.3	0.0	0.0	0.0	0.0	0.4
High Density Residential (20+ du/ac)	25	97	2,429	0	0	0	0	0	0	0	0	97	2,429	110	2750	0.3	0.0	0.0	0.0	0.0	0.3
Multi-Family Sub Totals =												784	9,296			1.0	0.1	0.0	0.0	0.0	1.1
Residential Sub Totals =		1,440	11,149	1,469	5,669	328	985	143	430	0	0	3,380	18,233								
NON RESIDENTIAL																					
Employment																					
Community Commercial		169		35		6		0		0		209			815	0.1	0.0	0.0	0.0	0.0	0.2
Regional Commercial		0		0		0		0		0		0			1,019	0.0	0.0	0.0	0.0	0.0	0.0
City Center / Village Center		0		0		0		0		0		0			5,606	0.0	0.0	0.0	0.0	0.0	0.0
Ballpark Village		0		0		0		0		0		0			3,737	0.0	0.0	0.0	0.0	0.0	0.0
Light Industrial		0		0		0		0		0		0			544	0.0	0.0	0.0	0.0	0.0	0.0
General Industrial		0		1		0		0		0		1			1,019	0.0	0.0	0.0	0.0	0.0	0.0
Mixed Use		0		0		0		0		0		0			2,000	0.0	0.0	0.0	0.0	0.0	0.0
																0.1	0.0	0.0	0.0	0.0	0.2
Support																					
Public / Quasi Public		27		28		0		0		0		56			1,019	0.0	0.0	0.0	0.0	0.0	0.1
Prison		0		0		0		0		0		0			1,699	0.0	0.0	0.0	0.0	0.0	0.0
Airport		0		0		0		0		0		0			170	0.0	0.0	0.0	0.0	0.0	0.0
Parks		37		80		95		0		735		947			0	0.0	0.0	0.0	0.0	0.0	0.0
Roads		187		126		24		14		0		351			0	0.0	0.0	0.0	0.0	0.0	0.0
Open Space		848		434		232		71		3		1,588			0	0.0	0.0	0.0	0.0	0.0	0.0
Non- Residential Sub Totals =																0.0	0.0	0.0	0.0	0.0	0.1
TOTAL =		2,708		2,173		686		228		738		6,532	18,233	TOTAL GENERATION =	1.6	0.8	0.1	0.1	0.0	2.6	

Waste Water Service Area Population = 48,317
Per Capita Unit Rate (gpca) = 54



Table 9: Average Day Wastewater Flow – Rainbow Valley WRF Sub Basins

LAND USE CATEGORY	Target Density (du/ac)	Land Use						Acreage	Dwelling Units	Projected Generation						
		Rainbow Valley Sub Basins						Total Acreage in Waste Water Service Area	Total Number of Dwelling Units in Waste Water Service Area	Rainbow Valley Sub Basins			Waste Water Service Area			
		1	2	3	1	2	3									
		(ac)	(du)	(ac)	(du)	(ac)	(du)			WW Returned (gpdu)	WW Returned (gpad)	(mgd)	(mgd)	(mgd)	(mgd)	
RESIDENTIAL																
Single-Family Residential																
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	0	0	176	176	0.0	0.0	0.0	0.0	
Rural (0-2 du/ac)	1	0	0	431	431	1,481	1,481	1,912	1,912	160	160	0.0	0.1	0.2	0.3	
Rural (0-2 du/ac)	2	3,693	7,386	0	0	0	0	3,693	7,386	160	320	1.2	0.0	0.0	1.2	
Low Density (2-4 du/ac)	3	1,204	3,612	1,282	3,845	151	454	2,637	7,910	144	432	0.5	0.6	0.1	1.1	
Low-Medium Density (4-6 du/ac)	5	677	3,385	643	3,214	0	2	1,320	6,601	129	647	0.4	0.4	0.0	0.9	
Single Family Sub Totals =								9,562	23,810			2.1	1.0	0.3	3.5	
Multi-Family Residential																
Medium Density (6-10 du/ac)	8	233	1,864	345	2,756	0	0	578	4,621	128	1025	0.2	0.4	0.0	0.6	
Medium-High Density (10-20 du/ac)	15	60	906	12	184	0	0	73	1,090	124	1867	0.1	0.0	0.0	0.1	
High Density Residential (20+ du/ac)	25	63	1,567	195	4,865	0	0	257	6,432	110	2750	0.2	0.5	0.0	0.7	
Multi-Family Sub Totals =								908	12,143			0.5	0.9	0.0	1.4	
Residential Sub Totals =		5,930	18,720	2,907	15,295	1,633	1,937	10,470	35,953							
NON RESIDENTIAL																
Employment																
Community Commercial		272		159		0		431			815	0.2	0.1	0.0	0.4	
Regional Commercial		0		0		0		0			1,019	0.0	0.0	0.0	0.0	
City Center / Village Center		2		28		0		30			5,606	0.0	0.2	0.0	0.2	
Ballpark Village		0		0		0		0			3,737	0.0	0.0	0.0	0.0	
Light Industrial		105		11		0		117			544	0.1	0.0	0.0	0.1	
General Industrial		0		1		0		1			1,019	0.0	0.0	0.0	0.0	
Mixed Use		0		0		0		0			2,000	0.0	0.0	0.0	0.0	
												0.3	0.3	0.0	0.6	
Support																
Public / Quasi Public		56		160		0		217			1,019	0.1	0.2	0.0	0.2	
Prison		0		0		0		0			1,699	0.0	0.0	0.0	0.0	
Airport		0		0		0		0			170	0.0	0.0	0.0	0.0	
Parks		71		264		0		334			0	0.0	0.0	0.0	0.0	
Roads		246		290		1		537			0	0.0	0.0	0.0	0.0	
Open Space		548		687		230		1,465			0	0.0	0.0	0.0	0.0	
Non- Residential Sub Totals =												0.1	0.2	0.0	0.2	
TOTAL =		7,231		4,507		1,864		13,601	35,953			TOTAL GENERATION =	3.0	2.4	0.3	5.7

Waste Water Service Area Population = 95,275
Per Capita Unit Rate (gpcd) = 60



Table 10: Average Day Wastewater Flow – Waterman Wash WRF Sub Basins
WATERMAN WASH WWTP BASIN

LAND USE CATEGORY	Target Density (du/ac)	Land Use						Acreage	Dwelling Units	Projected Generation						
		Waterman Wash Sub Basins								Waterman Wash Sub Basins					Waste Water Service Area	
		1		2		3				Total Acreage in Waste Water Service Area	Total Number of Dwelling Units in Waste Water Service Area	WW Returned (gpdu)	WW Returned (gpad)	1		2
(ac)	(du)	(ac)	(du)	(ac)	(du)	(mgd)	(mgd)	(mgd)	(mgd)							
RESIDENTIAL																
Single-Family Residential																
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	0	0	176	176	0.0	0.0	0.0	0.0	
Rural (0-2 du/ac)	1	0	0	0	0	830	830	830	830	160	160	0.0	0.0	0.1	0.1	
Rural (0-2 du/ac)	2	10,431	20,861	5,129	10,257	0	0	15,559	31,118	160	320	3.3	1.6	0.0	5.0	
Low Density (2-4 du/ac)	3	5,462	16,386	3,359	10,076	1,752	5,255	10,572	31,717	144	432	2.4	1.5	0.8	4.6	
Low-Medium Density (4-6 du/ac)	5	439	2,194	491	2,455	529	2,643	1,458	7,292	129	647	0.3	0.3	0.3	0.9	
Single Family Sub Totals =								28,419	70,957			6.0	3.4	1.2	10.6	
Multi-Family Residential																
Medium Density (6-10 du/ac)	8	745	5,956	758	6,065	544	4,351	2,047	16,372	128	1025	0.8	0.8	0.6	2.1	
Medium-High Density (10-20 du/ac)	15	117	1,762	133	1,994	118	1,766	368	5,522	124	1867	0.2	0.2	0.2	0.7	
High Density Residential (20+ du/ac)	25	245	6,114	309	7,723	0	0	553	13,837	110	2750	0.7	0.8	0.0	1.5	
Multi-Family Sub Totals =								2,968	35,732			1.7	1.9	0.8	4.3	
Residential Sub Totals =		17,438	53,273	10,178	38,570	3,772	14,845		106,689							
NON RESIDENTIAL																
Employment																
Community Commercial		649		520		96		1,265			815	0.5	0.4	0.1	1.0	
Regional Commercial		28		0		0		28			1,019	0.0	0.0	0.0	0.0	
City Center / Village Center		70		32		0		101			5,606	0.4	0.2	0.0	0.6	
Ballpark Village		0		0		0		0			3,737	0.0	0.0	0.0	0.0	
Light Industrial		66		11		147		224			544	0.0	0.0	0.1	0.1	
General Industrial		0		1		0		1			1,019	0.0	0.0	0.0	0.0	
Mixed Use		38		0		216		255			2,000	0.1	0.0	0.4	0.5	
Employment Sub Totals =												1.1	0.6	0.6	2.3	
Support																
Public / Quasi Public		204		477		68		749			1,019	0.2	0.5	0.1	0.8	
Prison		0		0		0		0			1,699	0.0	0.0	0.0	0.0	
Airport		0		0		0		0			170	0.0	0.0	0.0	0.0	
Parks		173		306		24		503			0	0.0	0.0	0.0	0.0	
Roads		1,079		564		452		2,095			0	0.0	0.0	0.0	0.0	
Open Space		1,794		1,167		921		3,882			0	0.0	0.0	0.0	0.0	
Non- Residential Sub Totals =												0.2	0.5	0.1	0.8	
TOTAL =		21,538		13,255		5,697		40,490	106,689			TOTAL GENERATION =	8.9	6.4	2.7	18.0

Waste Water Service Area Population = 282,725
Per Capita Unit Rate (gpcd) = 63



Table 11 provides a summary of the above buildout projections and a comparison of the resulting gpcd. It can be seen that:

- Total wastewater flow at buildout will be 40 mgd
- The overall city-wide per capita flow rate is 74 gpcd
- The per-capita rate is the highest in the 157th Ave WWTP Basin (119 gpcd) due to the greatest concentration of non-residential land-uses in this basin.
- The per-capita rate is the lowest in the Corgett Basin (54 gpcd) due to the lowest concentration of non-residential land-uses in this basin.

Table 11: Buildout Basin Wastewater Flowrates

Basin	Buildout Flow Rate (mgd)	Gallons per Capita Flow Rate (gpcd)
157 th Ave	13.7	119
Corgett	2.6	54
Rainbow Valley	5.7	60
Waterman Wash	18.0	63
	Total = 40.0	Wtd Avg = 74

3.3 ALTERNATE BASIN CONFIGURATION

The proposed wastewater collection system was evaluated for alternative basin/sub-basin configurations which might improve overall efficiency. The following alternatives are presented in Table 12:

- The base plan is guided by the topography of the land and jurisdictional boundaries. The collection system is designed to utilize gravity sewers and pressurized force mains to convey flows to the treatment facilities. The basin configuration also utilizes the existing collection system and treatment facilities in order to minimize the total number of new structures to be built. The basin configuration for this plan is presented in Figure 3.
- Alternative 1 is based upon the reduction in the ultimate size of the Corgett WRF due to the limited size of the site. The plant is currently treating 0.52 mgd and can only accept up to 0.8 mgd on the current site. However, additional land has been acquired by the City adjacent to the current site. The additional land would allow the Corgett Plant to accept a maximum of 2.4 mgd.
- Alternative 2 completely eliminates the Corgett Plant. The factors in favor of this alternative are the following:



- Reduction in the total number of wastewater treatment facilities operated by the City especially because the Corgett Plant is small in size compared with the other plants the City operates.
- The Corgett Plant does not meet the current minimum 300 ft. setback required by the Maricopa County Environmental Services Department (MCESD).
- The Plant does not provide for the solids handling process. This process needs to be included into the facility or the biosolids need to be wasted to the collection system or trucked to be treated at another plant

Black & Veatch recommends Alternative 2 as the most efficient basin configuration. The City also looks favorably upon this alternative so this is the course the Master Plan will follow. It is recommended that the City utilize the 0.8 mgd capacity of the plant until this time.



Table 12: Build-Out Wastewater Flow Rate Projections Summary

Base Plan			Alternative 1 (Reduced Corgett Flow Rate)			Alternative 2 (Eliminate Corgett WRF)				
		Basin (mgd)			Basin (mgd)			Basin (mgd)		
157th Ave.	1	5.1	157th Ave.	1	5.1	157th Ave.	1	5.1		
	2	2.4		2	2.4		2	2.4		
	3	2.2		3	2.2		3	2.2		
	4	0.8		4	0.8		4	0.8		
	5	1.0		5	1.0		5	1.0		
	6	0.7		6	0.7		6	0.7		
	7	0.5		7	0.5		7	0.5		
	8	1.1		8	1.1		8	1.1		
			Corgett		2	0.8	Corgett		2	0.8
			Corgett		5	0.0	Corgett		5	0.0
157th Ave. WWTP (AAD)		13.7	157th Ave. WWTP (AAD)		14.5	157th Ave. WWTP (AAD)		14.5		
Corgett	1	1.6	Corgett	1	1.6					
	2	0.8		3	0.1					
	3	0.1		4	0.1					
	4	0.1								
	5	0.0								
Corgett WRF (AAD)		2.6	Corgett WRF (AAD)		1.8	Corgett WRF (AAD)		0.0		
Rainbow Valley	1	3.0	Rainbow Valley	1	3.0	Rainbow Valley	1	3.0		
	2	2.4		2	2.4		2	2.4		
	3	0.3		3	0.3					
Rainbow Valley WRF (AAD)		5.7	Rainbow Valley WRF (AAD)		5.7	Rainbow Valley WRF (AAD)		5.4		
Waterman Wash	1	8.9	Waterman Wash	1	8.9	Waterman Wash	1	8.9		
	2	6.4		2	6.4		2	6.4		
	3	2.7		3	2.7		3	2.7		
						Rainbow Valley Corgett	3	0.3		
							1	1.6		
							3	0.1		
							4	0.1		
Waterman Wash WWTP (AAD)		18.0	Waterman Wash WWTP (AAD)		18.0	Waterman Wash WWTP (AAD)		20.0		
Service Area Total		40.0	Service Area Total		40.0	Service Area Total		40.0		

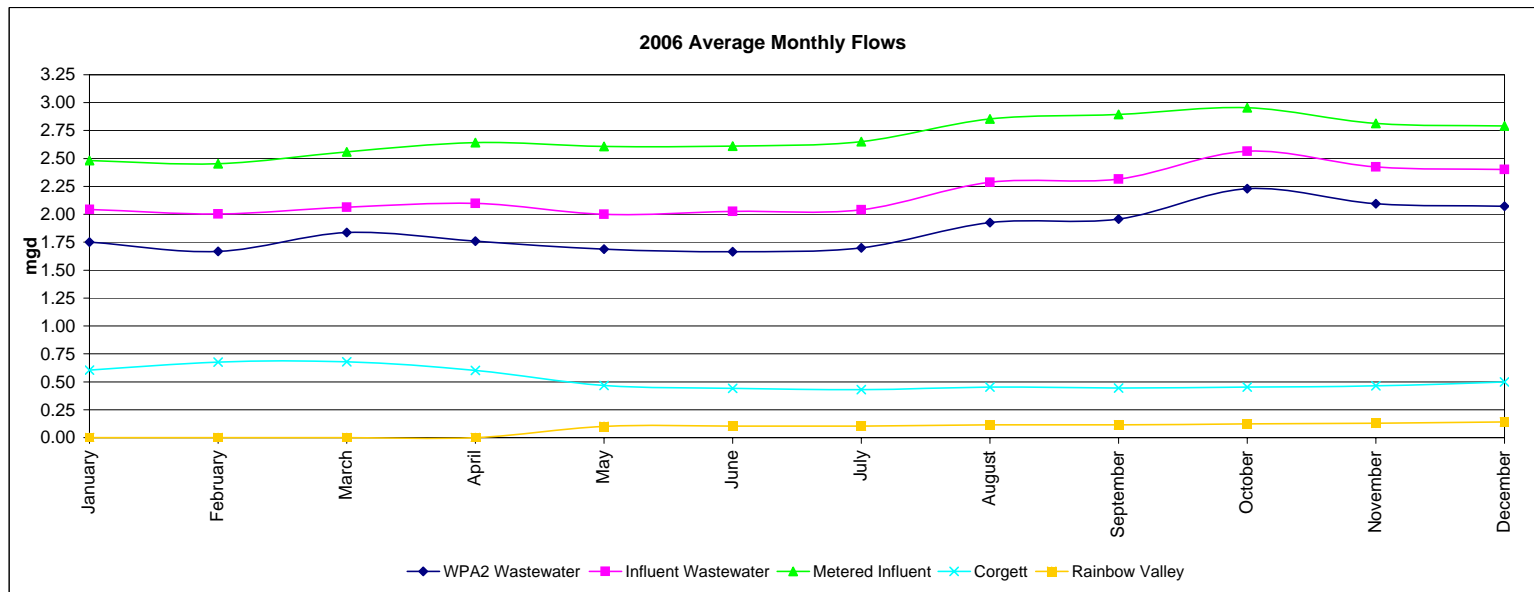


APPENDIX A WASTEWATER FLOW RECORDS

2006 Average Flows							
Month	157th Ave.					Corgett	Rainbow Valley
	Metered Influent (mgd)	Waste Brine (mgd)	Influent Wastewater (mgd)	Perryville Flow (mgd)	WPA2 Wastewater (mgd)	Influent (mgd)	Influent (mgd)
January	2.48	0.44	2.04	0.29	1.75	0.60	N/A
February	2.45	0.45	2.00	0.34	1.67	0.68	N/A
March	2.56	0.49	2.06	0.23	1.84	0.68	N/A
April	2.64	0.54	2.10	0.34	1.76	0.60	N/A
May	2.61	0.61	2.00	0.31	1.69	0.47	0.10
June	2.61	0.58	2.03	0.36	1.67	0.44	0.10
July	2.65	0.61	2.04	0.34	1.70	0.43	0.10
August	2.85	0.57	2.29	0.36	1.93	0.45	0.12
September	2.89	0.58	2.31	0.36	1.96	0.44	0.11
October	2.95	0.39	2.57	0.34	2.23	0.45	0.12
November	2.81	0.39	2.42	0.33	2.09	0.46	0.13
December	2.79	0.39	2.40	0.33	2.07	0.50	0.14
Average	2.69	0.53	2.19	0.33	1.86	0.52	0.12
Max Month	2.95	0.61	2.57	0.36	2.23	0.68	0.14
MM Factor	1.10	1.16	1.17	1.11	1.20	1.31	1.21

Notes:

1. 157th flow adjusted for the Perryville flow and brine wasted to the sewer
2. Corgett flows are adjusted for re-circulated flows in the plant (filter backwash and digester decant)
3. Used 10 month average for Nov. - Dec. in Perryville flows
4. Used .39 for Nov. - Dec. waste brine flows. Data was unavailable for these months



WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD						
1/1/2006	2.48	2.037	0.198	0.356	0	0.369	2.11	0.29	1.82	0.187
1/2/2006	2.48	2.011	0.308	0.32	0	0.36	2.12	0.29	1.83	0.297
1/3/2006	2.48	2.246	0.134	0.363	0.159	0.349	1.97	0.29	1.68	0.123
1/4/2006	2.48	1.784	0.462	0.331	0.009	0.357	2.12	0.29	1.82	0.451
1/5/2006	2.48	1.941	0.593	0.319	0	0.363	2.12	0.29	1.83	0.582
1/6/2006	2.48	2.415	0.81	0.42	0.087	0.397	2.00	0.29	1.71	0.799
1/7/2006	2.48	2.331	0.577	0.308	0.066	0.389	2.03	0.29	1.74	0.566
1/8/2006	2.48	2.245	0.171	0.332	0.17	0.32	1.99	0.29	1.70	0.160
1/9/2006	2.48	2.245	1.117	0.354	0.073	0.432	1.98	0.29	1.69	1.106
1/10/2006	2.48	2.213	0.651	0.337	0.151	0.37	1.96	0.29	1.67	0.640
1/11/2006	2.48	2.003	0.607	0.329	0	0.37	2.11	0.29	1.82	0.596
1/12/2006	2.48	2.002	0.552	0.302	0	0.337	2.14	0.29	1.85	0.541
1/13/2006	2.48	2.362	0.694	0.371	0.018	0.379	2.08	0.29	1.79	0.683
1/14/2006	2.48	1.911	1.057	0.37	0.437	0.47	1.57	0.29	1.28	1.046
1/15/2006	2.48	2.979	0.617	0.325	0	0.333	2.15	0.29	1.86	0.606
1/16/2006	2.48	2.128	0.665	0.345	0.033	0.443	2.01	0.29	1.71	0.654
1/17/2006	2.48	2.216	0.599	0.324	0.188	0.36	1.93	0.29	1.64	0.588
1/18/2006	2.48	2.564	0.713	0.357	0	0.4	2.08	0.29	1.79	0.702
1/19/2006	2.48	1.956	0.613	0.311	0.053	0.346	2.08	0.29	1.79	0.602
1/20/2006	2.48	1.716	0.385	0.419	0.129	0.389	1.96	0.29	1.67	0.374
1/21/2006	2.48	2.501	0.38	0.356	0.012	0.403	2.07	0.29	1.78	0.369
1/22/2006	2.48	2.124	0.91	0.287	0.001	0.301	2.18	0.29	1.89	0.899
1/23/2006	2.48	1.959	0.743	0.629	0.002	0.39	2.09	0.29	1.80	0.732
1/24/2006	2.48	2.094	0.774	0.399	0	0.383	2.10	0.29	1.81	0.763
1/25/2006	2.48	2.49	0.708	0.412	0.021	0.392	2.07	0.29	1.78	0.697
1/26/2006	2.48	2.127	0.585	0.297	0.067	0.328	2.09	0.29	1.80	0.574
1/27/2006	2.48	2.777	0.757	0.363	0.055	0.389	2.04	0.29	1.75	0.746
1/28/2006	2.48	2.465	0.662	0.378	0.081	0.381	2.02	0.29	1.73	0.651
1/29/2006	2.48	2.207	0.682	0.369	0.085	0.368	2.03	0.29	1.74	0.671
1/30/2006	2.48	1.865	0.654	0.335	0	0.441	2.04	0.29	1.75	0.643
1/31/2006	2.48	2.176	0.667	0.356	0.036	0.354	2.09	0.29	1.80	0.656
Minimum	2.48	1.72	0.13	0.29	0.00	0.30	1.57	0.29	1.28	0.12
Maximum	2.48	2.98	1.12	0.63	0.44	0.47	2.18	0.29	1.89	1.11
Total	76.94	68.09	19.05	11.07	1.93	11.66	63.35	9.04	54.30	18.72
Average	2.48	2.20	0.61	0.36	0.06	0.38	2.04	0.29	1.75	0.60
Perryville Flow		0.29	AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD						
2/1/2006	2.45	2.293	0.68	0.358	0.067	0.445	1.94	0.34	1.61	0.669
2/2/2006	2.45	2.171	1.146	0.297	0.036	0.435	1.98	0.34	1.65	1.135
2/3/2006	2.45	2.222	0.55	0.297	0.09	0.336	2.03	0.34	1.69	0.539
2/4/2006	2.45	2.347	0.57	0.297	0.091	0.404	1.96	0.34	1.62	0.559
2/5/2006	2.45	2.382	0.928	0.297	0	0.368	2.09	0.34	1.75	0.917
2/6/2006	2.45	2.274	0.57	0.297	0	0.361	2.09	0.34	1.76	0.559
2/7/2006	2.45	2.191	0.712	0.696	0.102	0.416	1.94	0.34	1.60	0.701
2/8/2006	2.45	2.229	0.655	0.32	0.082	0.404	1.97	0.34	1.63	0.644
2/9/2006	2.45	2.235	0.665	0.351	0.113	0.38	1.96	0.34	1.63	0.654
2/10/2006	2.45	2.422	0.617	0.327	0.087	0.35	2.02	0.34	1.68	0.606
2/11/2006	2.45	2.388	0.69	0.385	0.072	0.443	1.94	0.34	1.60	0.677
2/12/2006	2.45	2.213	0.678	0.374	0.086	0.342	2.03	0.34	1.69	0.667
2/13/2006	2.45	2.056	0.673	0.323	0.015	0.361	2.08	0.34	1.74	0.662
2/14/2006	2.45	2.06	0.664	0.351	0.077	0.424	1.95	0.34	1.62	0.653
2/15/2006	2.45	2.154	0.702	0.373	0.16	0.373	1.92	0.34	1.59	0.691
2/16/2006	2.45	2.102	0.682	0.363	0.089	0.343	2.02	0.34	1.69	0.671
2/17/2006	2.45	2.454	0.686	0.358	0.111	0.355	1.99	0.34	1.65	0.675
2/18/2006	2.45	2.253	0.614	0.361	0.053	0.434	1.97	0.34	1.63	0.603
2/19/2006	2.45	2.211	0.663	0.377	0.098	0.355	2.00	0.34	1.67	0.652
2/20/2006	2.45	1.587	0.674	0.371	0	0.419	2.03	0.34	1.70	0.663
2/21/2006	2.45	1.96	0.687	0.207	0.095	0.381	1.98	0.34	1.64	0.676
2/22/2006	2.45	1.95	0.685	0.205	0.062	0.364	2.03	0.34	1.69	0.674
2/23/2006	2.45	2.468	0.674	0.205	0.077	0.341	2.04	0.34	1.70	0.663
2/24/2006	2.45	1.36	0.714	0.206	0.102	0.349	2.00	0.34	1.67	0.703
2/25/2006	2.45	2.474	0.712	0.245	0.001	0.418	2.03	0.34	1.70	0.701
2/26/2006	2.45	2.227	0.674	0.239	0	0.364	2.09	0.34	1.75	0.663
2/27/2006	2.45	1.94	0.623	0.19	0.008	0.408	2.04	0.34	1.70	0.612
2/28/2006	2.45	2.171	0.656	0.195	0.08	0.389	1.98	0.34	1.65	0.645
									1.64	0.637
Minimum	2.45	1.36	0.55	0.19	0.00	0.34	1.92	0.34	1.59	0.54
Maximum	2.45	2.47	1.15	0.70	0.16	0.45	2.09	0.34	1.76	1.14
Total	68.70	60.79	19.24	8.87	1.85	10.76	56.08	9.38	46.70	18.95
Average	2.45	2.17	0.69	0.32	0.07	0.38	2.00	0.34	1.67	0.68
Perryville Flow		0.34	AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD						
3/1/2006	2.56	2.294	0.648	0.331	0.002	0.285	2.27	0.23	2.04	0.637
3/2/2006	2.56	2.293	0.735	0.371	0.079	0.493	1.99	0.23	1.76	0.724
3/3/2006	2.56	2.785	0.752	0.382	0.074	0.465	2.02	0.23	1.79	0.741
3/4/2006	2.56	1.985	0.549	0.313	0	0.473	2.09	0.23	1.86	0.538
3/5/2006	2.56	2.227	0.783	0.412	0.012	0.46	2.09	0.23	1.86	0.772
3/6/2006	2.56	1.935	0.657	0.329	0	0.514	2.04	0.23	1.82	0.646
3/7/2006	2.56	2.31	0.638	0.362	0.033	0.433	2.09	0.23	1.87	0.627
3/8/2006	2.56	2.33	0.607	0.33	0.109	0.513	1.94	0.23	1.71	0.596
3/9/2006	2.56	2.183	0.696	0.363	0.095	0.417	2.05	0.23	1.82	0.685
3/10/2006	2.56	2.522	1.469	0.396	0.096	0.526	1.94	0.23	1.71	1.458
3/11/2006	2.56	2.512	0.612	0.397	0.098	0.535	1.93	0.23	1.70	0.601
3/12/2006	2.56	2.155	0.721	0.332	0.103	0.397	2.06	0.23	1.83	0.710
3/13/2006	2.56	2.619	0.705	0.366	0.031	0.437	2.09	0.23	1.86	0.694
3/14/2006	2.56	1.818	0.705	0.326	0.065	0.583	1.91	0.23	1.68	0.694
3/15/2006	2.56	2.207	0.629	0.374	0.174	0.385	2.00	0.23	1.77	0.618
3/16/2006	2.56	2.265	0.601	0.331	0.125	0.472	1.96	0.23	1.73	0.590
3/17/2006	2.56	1.914	0.693	0.362	0.007	0.46	2.09	0.23	1.86	0.682
3/18/2006	2.56	2.176	0.689	0.386	0	0.38	2.18	0.23	1.95	0.678
3/19/2006	2.56	2.406	0.7	0.374	0	0.374	2.18	0.23	1.96	0.689
3/20/2006	2.56	1.955	0.63	0.355	0	0.371	2.19	0.23	1.96	0.619
3/21/2006	2.56	2.207	0.667	0.347	0	0.453	2.11	0.23	1.88	0.656
3/22/2006	2.56	2.133	0.663	0.35	0	0.328	2.23	0.23	2.00	0.652
3/23/2006	2.56	2.259	0.667	0.353	0	0.352	2.21	0.23	1.98	0.656
3/24/2006	2.56	3.03	0.586	0.331	0	0.467	2.09	0.23	1.86	0.575
3/25/2006	2.56	2.304	0.69	0.377	0	0.616	1.94	0.23	1.72	0.679
3/26/2006	2.56	2.105	0.658	0.365	0	0.478	2.08	0.23	1.85	0.647
3/27/2006	2.56	2.356	0.662	0.381	0	0.567	1.99	0.23	1.76	0.651
3/28/2006	2.56	2.338	0.639	0.339	0	0.451	2.11	0.23	1.88	0.628
3/29/2006	2.56	2.054	0.736	0.391	0	0.52	2.04	0.23	1.81	0.725
3/30/2006	2.56	2.275	0.557	0.323	0	0.494	2.06	0.23	1.84	0.546
3/31/2006	2.56	2.232	0.613	0.362	0	0.521	2.04	0.23	1.81	0.602
Minimum	2.56	1.82	0.55	0.31	0.00	0.29	1.91	0.23	1.68	0.54
Maximum	2.56	3.03	1.47	0.41	0.17	0.62	2.27	0.23	2.04	1.46
Total	79.31	70.18	21.36	11.11	1.10	14.22	63.98	7.04	56.94	21.03
Average	2.56	2.26	0.69	0.36	0.04	0.46	2.06	0.23	1.84	0.68
Perryville Flow		0.23	AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		RAINBOW WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD					
7/1/2006	2.235	2.426	0.396	0.25	0.114	0.112	0.00	0.53	1.71	1.36	0.385
7/2/2006	2.136	2.498	0.467	0.241	0.141	0.14	0.00	0.666	1.47	1.13	0.456
7/3/2006	2.236	2.348	0.375	0.217	0.069	0.073	0.00	0.533	1.70	1.36	0.364
7/4/2006	2.198	1.73	0.462	0.228	0.091	0.091	0.00	0.596	1.60	1.26	0.451
7/5/2006	2.277	2.901	0.428	0.284	0.102	0.093	0.00	0.612	1.67	1.32	0.417
7/6/2006	2.535	2.661	0.434	0.335	0.099	0.101	0.00	0.431	2.10	1.76	0.423
7/7/2006	2.104	2.185	0.4	0.127	0.082	0.082	0.00	0.659	1.45	1.10	0.389
7/8/2006	2.293	2.445	0.496	0.246	0.13	0.122	0.00	0.538	1.76	1.41	0.485
7/9/2006	2.274	1.332	0.573	0.257	0.094	0.104	0.00	0.643	1.63	1.29	0.562
7/10/2006	2.107	2.241	0.375	0.216	0.089	0.102	0.00	0.464	1.64	1.30	0.364
7/11/2006	2.255	2.297	0.469	0.261	0.089	0.104	0.00	1.77	0.49	0.14	0.458
7/12/2006	2.013	2.105	0.391	0.222	0.094	0.122	0.00	0.736	1.28	0.94	0.380
7/13/2006	2.463	2.711	0.411	0.242	0.116	0.143	0.00	0.593	1.87	1.53	0.400
7/14/2006	2.079	2.013	0.529	0.274	0.086	0.125	0.00	0.494	1.59	1.24	0.518
7/15/2006	2.395	2.511	0.36	0.198	0.114	0.128	0.00	0.697	1.70	1.36	0.349
7/16/2006	2.125	2.429	0.522	0.237	0.098	0.112	0.00	0.56	1.57	1.22	0.511
7/17/2006	2.266	2.31	0.434	0.225	0.096	0.108	0.00	0.503	1.76	1.42	0.423
7/18/2006	2.503	2.589	0.439	0.238	0.089	0.148	0.00	0.617	1.89	1.55	0.428
7/19/2006	2.229	2.158	0.431	0.224	0.191	0.14	0.00	0.686	1.54	1.20	0.420
7/20/2006	2.109	2.397	0.377	0.237	0.095	0.144	0.00	0.507	1.60	1.26	0.366
7/21/2006	2.424	2.502	0.475	0.285	0.089	0.135	0.00	0.493	1.93	1.59	0.464
7/22/2006	2.142	2.301	0.442	0.287	0.114	0.136	0.00	0.594	1.55	1.21	0.431
7/23/2006	2.185	2.494	0.481	0.291	0.106	0.131	0.00	0.629	1.56	1.22	0.470
7/24/2006	2.203	2.175	0.442	0.29	0.084	0.13	0.00	0.399	1.80	1.46	0.431
7/25/2006	2.206	2.183	0.419	0.312	0.091	0.123	0.00	0.557	1.65	1.31	0.408
7/26/2006	2.209	2.238	0.41	0.258	0.103	0.162	0.00	0.701	1.51	1.17	0.399
7/27/2006	2.113	2.323	0.429	0.262	0.114	0.132	0.00	0.575	1.54	1.20	0.418
7/28/2006	2.163	2.493	0.5	0.278	0.121	0.157	0.00	0.473	1.69	1.35	0.489
7/29/2006	2.542	2.778	0.44	0.246	0.098	0.096	0.00	0.661	1.88	1.54	0.429
7/30/2006	2.21	2.378	0.514	0.309	0.107	0.098	0.00	0.565	1.65	1.30	0.503
7/31/2006	2.521	2.594	0.376	0.216	0.098	0.111	0.00	0.462	2.06	1.72	0.365
Minimum	2.01	1.33	0.36	0.13	0.07	0.07	0.00	0.40	0.49	0.14	0.35
Maximum	2.54	2.90	0.57	0.34	0.19	0.16	0.00	1.77	2.10	1.76	0.56
Total	69.75	72.75	13.70	7.79	3.20	3.71	0.00	18.94	50.81	40.26	13.37
Average	2.65	2.35	0.44	0.25	0.10	0.12	0.00	0.61	1.64	1.30	0.43
Perryville Flow		0.34		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		RAINBOW WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD					
9/1/2006	1.933	2.135	0.442	0	0.084	0.103	0	0.712	1.221	0.86	0.431
9/2/2006	2.459	2.542	0.477	0	0.123	0.13	0	0.604	1.855	1.50	0.466
9/3/2006	2.583	2.843	0.465	0	0.132	0.117	0	0.545	2.038	1.68	0.454
9/4/2006	2.12	2.309	0.524	0	0.112	0.114	0	0.58	1.54	1.18	0.513
9/5/2006	2.333	2.514	0.398	0	0.092	0.093	0	0.533	1.8	1.44	0.387
9/6/2006	3.475	3.217	0.495	0	0.135	0.141	0	0.604	2.871	2.51	0.484
9/7/2006	1.699	3.6	0.422	0	0.1	0.1	0	0.579	1.12	0.76	0.411
9/8/2006	2.048	1.758	0.43	0	0.117	0.111	0	0.577	1.471	1.11	0.419
9/9/2006	2.42	2.689	0.444	0	0.116	0.112	0	0.58	1.84	1.48	0.433
9/10/2006	2.729	2.604	0.599	0	0.112	0.11	0	0.479	2.25	1.89	0.588
9/11/2006	2.086	2.455	0.366	0	0.089	0.099	0	0.734	1.352	1.00	0.355
9/12/2006	2.044	2.304	0.49	0	0.122	0.115	0	0.54	1.504	1.15	0.479
9/13/2006	2.174	1.816	0.415	0	0.125	0.111	0	0.566	1.608	1.25	0.404
9/14/2006	2.174	2.424	0.465	0	0.133	0.12	0	0.587	1.587	1.23	0.454
9/15/2006	2.402	3.258	0.43	0	0.08	0.066	0	0.567	1.835	1.48	0.419
9/16/2006	2.337	2.969	0.477	0	0.136	0.125	0	0.569	1.768	1.41	0.466
9/17/2006	2.13	2.195	0.536	0	0.194	0.137	0	0.502	1.628	1.27	0.525
9/18/2006	2.15	2.597	0.37	0	0.028	0.061	0	0.68	1.47	1.11	0.359
9/19/2006	2.049	2.396	0.459	0	0.136	0.114	0	0.575	1.474	1.12	0.448
9/20/2006	2.357	2.661	0.44	0	0.11	0.1	0	0.612	1.745	1.39	0.429
9/21/2006	2.368	2.807	0.432	0	0.089	0.066	0	0.521	1.847	1.49	0.421
9/22/2006	2.394	3.048	0.423	0	0.117	0.097	0	0.627	1.767	1.41	0.412
9/23/2006	2.315	1.923	0.518	0	0.096	0.077	0	0.562	1.753	1.40	0.507
9/24/2006	2.633	2.211	0.477	0	0.163	0.132	0	0.629	2.004	1.65	0.466
9/25/2006	2.041	1.816	0.406	0	0.093	0.082	0	0.375	1.666	1.31	0.395
9/26/2006	2.008	2.576	0.495	0	0.086	0.118	0	0.759	1.249	0.89	0.484
9/27/2006	2.385	2.373	0.449	0	0.114	0.101	0	0.501	1.884	1.53	0.438
9/28/2006	2.038	3.208	0.399	0	0.124	0.099	0	0.475	1.563	1.21	0.388
9/29/2006	2.429	3.062	0.368	0	0.093	0.085	0	0.76	1.669	1.31	0.357
9/30/2006	2.201	2.541	0.501	0	0.175	0.144	0	0.465	1.736	1.38	0.490
										1.35	0.615
Minimum	1.70	1.76	0.37	0.00	0.03	0.06	0.00	0.38	1.12	0.76	0.36
Maximum	3.48	3.60	0.60	0.00	0.19	0.14	0.00	0.76	2.87	2.51	0.62
Total	68.51	76.85	13.61	0.00	3.43	3.18	0.00	17.40	51.12	40.41	13.91
Average	2.89	2.56	0.45	0.00	0.11	0.11	0.00	0.58	1.70	1.35	0.45
Perryville Flow		0.36		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		RAINBOW WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD					
10/1/2006	2.518	2.804	0.626		0.138	0.131	0	0.577	1.941	1.60	0.615
10/2/2006	2.171	3.267	0.404		0.113	0.086	0	0.61	1.561	1.22	0.393
10/3/2006	1.861	2.708	0.456		0.095	0.084	0	0.542	1.319	0.98	0.445
10/4/2006	2.192	2.512	0.419		0.106	0.91	0	0.428	1.764	1.43	0.408
10/5/2006	2.127	2.752	0.427		0.12	0.101	0	0.388	1.739	1.40	0.416
10/6/2006	2.204	2.791	0.454		0.104	0.072	0	0.359	1.845	1.51	0.443
10/7/2006	2.397	2.604	0.405		0.15	0.126	0	0.391	2.006	1.67	0.394
10/8/2006	1.8	2.883	0.63		0.147	0.12	0	0.381	1.419	1.08	0.619
10/9/2006	2.139	2.616	0.466		0.144	0.07	0	0.401	1.738	1.40	0.455
10/10/2006	2.138	2.984	0.42		0.131	0.122	0	0.392	1.746	1.41	0.409
10/11/2006	1.733	2.834	0.472		0.09	0.058	0	0.386	1.347	1.01	0.461
10/12/2006	2.194	2.892	0.437		0.15	0.053	0	0.42	1.774	1.44	0.426
10/13/2006	2.319	2.969	0.479		0.098	0.779	0	0.367	1.952	1.62	0.468
10/14/2006	2.133	2.626	0.485		0.154	0.092	0	0.422	1.711	1.37	0.474
10/15/2006	2.044	2.546	0.459		0.133	0.668	0	0.416	1.628	1.29	0.448
10/16/2006	2.074	2.55	0.457		0.064	0.407	0	0.322	1.752	1.42	0.446
10/17/2006	1.965	2.624	0.391		0.111	0.586	0	0.404	1.561	1.22	0.380
10/18/2006	2.103	2.626	0.448		0.128	0.353	0	0.393	1.71	1.37	0.437
10/19/2006	1.835	2.376	0.42		0.123	0	0	0.386	1.449	1.11	0.409
10/20/2006	2.191	2.735	0.464		0.094	0	0	0.392	1.799	1.46	0.453
10/21/2006	1.983	2.288	0.512		0.174	0	0	0.502	1.481	1.14	0.501
10/22/2006	1.874	2.197	0.555		0.116	0	0	0	1.874	1.54	0.544
10/23/2006	2.192	2.765	0.452		0.141	0	0	0	2.192	1.86	0.441
10/24/2006	1.939	2.272	0.301		0.127	0	0	0.33	1.609	1.27	0.290
10/25/2006	2.329	2.711	0.531		0.101	0	0	0.405	1.924	1.59	0.520
10/26/2006	1.92	2.425	0.442		0.107	0	0	0.399	1.521	1.18	0.431
10/27/2006	2.246	1.771	0.471		0.115	0	0	0.311	1.935	1.60	0.460
10/28/2006	2.029	2.424	0.45		0.154	0	0	0.519	1.51	1.17	0.439
10/29/2006	2.154	2.49	0.556		0.178	0	0	0.345	1.809	1.47	0.545
10/30/2006	2.032	2.51	0.461		0.127	0	0	0.401	1.631	1.29	0.450
10/31/2006	2.028	2.479	0.425		0.109	0	0	0.442	1.586	1.25	0.414
Minimum	1.73	1.77	0.30		0.06	0.00	0.00	0.00	1.32	0.98	0.29
Maximum	2.52	3.27	0.63		0.18	0.91	0.00	0.61	2.19	1.86	0.62
Total	64.86	81.03	14.38		3.84	4.82	0.00	12.03	52.83	42.40	14.05
Average	2.95	2.61	0.46		0.12	0.16	0.00	0.39	1.70	1.37	0.45
Perryville Flow		0.34		AD (MG)							

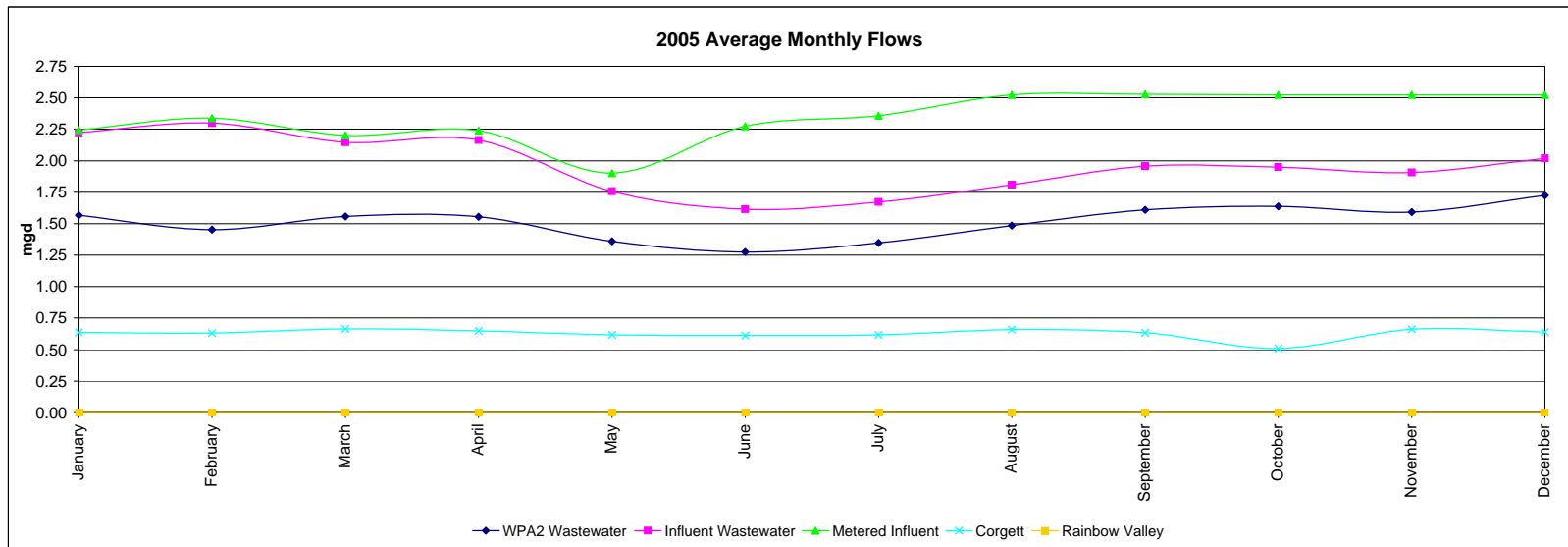
WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		RAINBOW WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD					
12/1/2006	1.54	2.603	0.471	0	0.139		0.39	1.15	0.82	0.460	
12/2/2006	2.292	2.448	0.63		0.141		0.39	1.902	1.57	0.619	
12/3/2006	1.8	2.606	0.532		0.132		0.39	1.41	1.08	0.521	
12/4/2006	2.092	2.606	0.513		0.132		0.39	1.702	1.37	0.502	
12/5/2006	2.476	2.395	0.427		0.133		0.39	2.086	1.76	0.416	
12/6/2006	1.816	2.235	0.445		0.123		0.39	1.426	1.10	0.434	
12/7/2006	2.192	2.35	0.476		0.138		0.39	1.802	1.47	0.465	
12/8/2006	2.281	2.682	0.468		0.114		0.39	1.891	1.56	0.457	
12/9/2006	2.332	2.477	0.561		0.192		0.39	1.942	1.61	0.550	
12/10/2006	2.544	2.636	0.508		0.126		0.39	2.154	1.82	0.497	
12/11/2006	1.941	2.401	0.514		0.092		0.39	1.551	1.22	0.503	
12/12/2006	2.244	2.654	0.478		0.132		0.39	1.854	1.52	0.467	
12/13/2006	2.133	2.381	0.47		0.129		0.39	1.743	1.41	0.459	
12/14/2006	1.989	2.152	0.425		0.119		0.39	1.599	1.27	0.414	
12/15/2006	2.233	2.48	0.416		0.172		0.39	1.843	1.51	0.405	
12/16/2006	2.38	2.557	0.546		0.138		0.39	1.99	1.66	0.535	
12/17/2006	2.411	2.383	0.548		0.181		0.39	2.021	1.69	0.537	
12/18/2006	2.018	2.38	0.502		0.086		0.39	1.628	1.30	0.491	
12/19/2006	2.018	2.38	0.489		0.117		0.39	1.628	1.30	0.478	
12/20/2006	1.593	2.51	0.507		0.131		0.39	1.203	0.87	0.496	
12/21/2006	1.807	2.446	0.539		0.185		0.39	1.417	1.09	0.528	
12/22/2006	1.962	2.534	0.478		0.101		0.39	1.572	1.24	0.467	
12/23/2006	2.243	2.365	0.552		0.193		0.39	1.853	1.52	0.541	
12/24/2006	2.126	2.536	0.758		0.156		0.39	1.736	1.41	0.747	
12/25/2006	1.038	2.482	0.438		0.129		0.39	0.648	0.32	0.427	
12/26/2006	2.047	2.503	0.636		0.144		0.39	1.657	1.33	0.625	
12/27/2006	2.084	2.47	0.514		0.156		0.39	1.694	1.36	0.503	
12/28/2006	2.3	2.481	0.535		0.13		0.39	1.91	1.58	0.524	
12/29/2006	2.131	2.444	0.484		0.18		0.39	1.741	1.41	0.473	
12/30/2006	2.233	2.51	0.474		0.147		0.39	1.843	1.51	0.463	
12/31/2006	2.212	2.515	0.468		0.156		0.39	1.822	1.49	0.457	
Minimum	1.04	2.15	0.42		0.09			0.65	0.32	0.41	
Maximum	2.54	2.68	0.76		0.19			2.15	1.82	0.75	
Total	64.51	76.60	15.80		4.34			52.42	42.19	15.47	
Average	2.79	2.47	0.51		0.14			1.69	1.36	0.50	
Perryville Flow		0.33	AD (MG)								

2005 Average Flows								
Month	157th Ave.						Corgett	Rainbow Valley
	Metered Influent (mgd)	Waste Brine (mgd)	Influent Wastewater (mgd)	Perryville Flow (mgd)	Crane Superfund Site (mgd)	WPA2 Wastewater (mgd)	WPA3 Influent (mgd)	WPA3 Influent (mgd)
January	2.24	0.02	2.22	0.28	0.374	1.57	0.64	N/A
February	2.34	0.04	2.30	0.38	0.472	1.45	0.63	N/A
March	2.20	0.05	2.15	0.27	0.317	1.56	0.66	N/A
April	2.24	0.08	2.16	0.31	0.299	1.55	0.65	N/A
May	1.90	0.14	1.76	0.30	0.099	1.36	0.62	N/A
June	2.27	0.66	1.62	0.34		1.27	0.61	N/A
July	2.36	0.69	1.67	0.33		1.35	0.62	N/A
August	2.52	0.72	1.81	0.32		1.48	0.66	N/A
September	2.53	0.57	1.96	0.35		1.61	0.63	N/A
October	2.52	0.58	1.95	0.31		1.64	0.51	N/A
November	2.52	0.62	1.91	0.31		1.59	0.66	N/A
December	2.52	0.51	2.02	0.29		1.72	0.64	N/A
Average	2.35	0.39	1.96	0.32	0.13	1.51	0.63	
Max Month	2.53	0.72	2.30	0.38	0.47	1.72	0.66	
MM Factor	1.08	1.84	1.17	1.19	3.63	1.14	1.06	

Notes:

- 157th flow adjusted for the Perryville flow and brine wasted to the sewer
- Corgett flows are adjusted for re-circulated flows in the plant (filter backwash and digester decant)



WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
1/1/2005	2.354	2.183	0.783	0.524	0.04	0	2.314	0.337	0.282	1.695	0.772
1/2/2005	2.439	2.226	0.6	0.443	0.037	0	2.402	0.337	0.282	1.783	0.589
1/3/2005	2.132	2.008	0.752	0.528	0.012	0	2.12	0.337	0.282	1.501	0.741
1/4/2005	2.443	2.309	0.628	0.451	0.048	0	2.395	0.337	0.282	1.776	0.617
1/5/2005	2.158	2.175	0.625	0.349	0.009	0	2.149	0.408	0.282	1.459	0.614
1/6/2005	2.376	2.329	0.673	0.368	0.043	0	2.333	0.408	0.282	1.643	0.662
1/7/2005	2.179	2.148	0.729	0.335	0.012	0	2.167	0.408	0.282	1.477	0.718
1/8/2005	2.221	2.57	0.657	0.372	0.037	0	2.184	0.408	0.282	1.494	0.646
1/9/2005	2.704	2.579	0.743	0.478	0	0	2.704	0.408	0.282	2.014	0.732
1/10/2005	2.451	1.914	0.789	0.392	0.053	0	2.398	0.408	0.282	1.708	0.778
1/11/2005	1.801	1.672	0.748	0.364	0	0	1.801	0.340	0.282	1.179	0.737
1/12/2005	2.445	2.014	0.502	0.262	0.01	0	2.435	0.340	0.282	1.813	0.491
1/13/2005	1.649	1.883	0.623	0.412	0.059	0	1.59	0.340	0.282	0.968	0.612
1/14/2005	2.574	2.481	0.627	0.41	0.018	0	2.556	0.340	0.282	1.934	0.616
1/15/2005	1.75	1.66	0.461	0.302	0.035	0	1.715	0.340	0.282	1.093	0.450
1/16/2005	2.305	2.24	0.506	0.391	0.041	0	2.264	0.340	0.282	1.642	0.495
1/17/2005	2.517	2.564	0.607	0.516	0	0	2.517	0.340	0.282	1.895	0.596
1/18/2005	2.185	2.04	0.684	0.616	0.036	0	2.149	0.456	0.282	1.411	0.673
1/19/2005	1.908	2.056	0.554	0.48	0	0	1.908	0.456	0.282	1.170	0.543
1/20/2005	2.163	2.093	0.659	0.397	0	0	2.163	0.456	0.282	1.425	0.648
1/21/2005	2.187	2.062	0.669	0.442	0	0	2.187	0.456	0.282	1.449	0.658
1/22/2005	2.103	2.037	0.605	0.418	0	0	2.103	0.456	0.282	1.365	0.594
1/23/2005	2.417	2.089	0.634	0.42	0	0	2.417	0.456	0.282	1.679	0.623
1/24/2005	2.88	2.464	0.885	0.557	0	0	2.88	0.456	0.282	2.142	0.874
1/25/2005	1.979	1.683	0.6	0.38	0	0	1.979	0.456	0.282	1.241	0.589
1/26/2005	2.132	2.144	0.601	0.389	0	0	2.132	0.294	0.282	1.556	0.590
1/27/2005	2.362	2.212	0.592	0.415	0.103	0	2.259	0.294	0.282	1.683	0.581
1/28/2005	2.207	2.2	0.617	0.409	0	0	2.207	0.294	0.282	1.631	0.606
1/29/2005	2.259	2.336	0.632	0.402	0.002	0	2.257	0.294	0.282	1.681	0.621
1/30/2005	2.455	2.716	0.663	0.487	0	0	2.455	0.294	0.282	1.879	0.652
1/31/2005	1.788	1.824	0.605	0.477	0	0	1.788	0.294	0.282	1.212	0.594
Minimum	1.65	1.66	0.46	0.26	0.00	0.00	1.59	0.29	0.28	0.97	0.45
Maximum	2.88	2.72	0.89	0.62	0.10	0.00	2.88	0.46	0.28	2.14	0.87
Total	69.52	66.91	20.05	13.19	0.60	0.00	68.93	11.59	8.74	48.59	19.73
Average	2.24	2.16	0.65	0.43	0.02	0.00	2.22	0.374	0.28	1.57	0.64
Perryville Flow		0.28		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
3/1/2005	1.832	1.828	0.814	0.509	0.006	0	1.826	0.427	0.272	1.128	0.803
3/2/2005	2.384	2.234	0.593	0.38	0.08	0	2.304	0.253	0.272	1.779	0.582
3/3/2005	2.059	1.913	0.637	0.421	0.053	0	2.006	0.253	0.272	1.481	0.626
3/4/2005	1.986	1.891	0.638	0.411	0	0	1.986	0.253	0.272	1.461	0.627
3/5/2005	1.792	2.532	0.546	0.428	0	0	1.792	0.130	0.272	1.390	0.535
3/6/2005	2.196	2.856	0.546	0.428	0	0	2.196	0.130	0.272	1.794	0.535
3/7/2005	2.168	2.177	0.813	0.588	0	0	2.168	0.130	0.272	1.766	0.802
3/8/2005	2.102	1.969	0.607	0.403	0	0	2.102	0.130	0.272	1.700	0.596
3/9/2005	1.577	1.543	0.694	0.442	0	0	1.577	0.134	0.272	1.171	0.683
3/10/2005	1.967	1.971	0.646	0.379	0	0	1.967	0.134	0.272	1.561	0.635
3/11/2005	2.048	2.017	0.647	0.39	0.006	0	2.042	0.134	0.272	1.636	0.636
3/12/2005	1.472	1.983	0.606	0.374	0	0	1.472	0.134	0.272	1.066	0.595
3/13/2005	2.062	1.954	0.607	0.421	0	0	2.062	0.134	0.272	1.656	0.596
3/14/2005	2.127	2.046	0.697	0.506	0.003	0	2.124	0.134	0.272	1.718	0.686
3/15/2005	2.423	2.122	0.667	0.395	0.099	0	2.324	0.134	0.272	1.918	0.656
3/16/2005	2.168	2.423	0.66	0.398	0.106	0	2.062	0.134	0.272	1.656	0.649
3/17/2005	2.168	2.052	0.642	0.389	0.061	0	2.107	0.134	0.272	1.701	0.631
3/18/2005	2.411	2.594	0.633	0.379	0.088	0	2.323	0.505	0.272	1.546	0.622
3/19/2005	2.261	2.172	0.61	0.379	0.083	0	2.178	0.505	0.272	1.401	0.599
3/20/2005	2.722	2.491	0.554	0.411	0.106	0	2.616	0.505	0.272	1.839	0.543
3/21/2005	2.482	2.273	0.826	0.557	0.105	0	2.377	0.505	0.272	1.600	0.815
3/22/2005	2.367	1.919	0.653	0.403	0.08	0	2.287	0.505	0.272	1.510	0.642
3/23/2005	2.282	2.051	0.67	0.413	0.088	0	2.194	0.505	0.272	1.417	0.659
3/24/2005	2.42	2.09	0.877	0.497	0.112	0	2.308	0.497	0.272	1.540	0.866
3/25/2005	2.316	2.142	0.726	0.488	0.05	0	2.266	0.497	0.272	1.498	0.715
3/26/2005	2.33	2.136	0.706	0.41	0.112	0	2.218	0.497	0.272	1.450	0.695
3/27/2005	2.548	2.316	0.646	0.461	0.035	0	2.513	0.497	0.272	1.745	0.635
3/28/2005	2.327	2.176	0.875	0.602	0.094	0	2.233	0.497	0.272	1.465	0.864
3/29/2005	2.473	2.254	0.611	0.405	0.097	0	2.376	0.497	0.272	1.608	0.600
3/30/2005	2.293	2.15	0.698	0.451	0.093	0	2.2	0.446	0.272	1.482	0.687
3/31/2005	2.453	2.248	0.748	0.505	0.115	0	2.338	0.446	0.272	1.620	0.737
Minimum	1.47	1.54	0.55	0.37	0.00	0.00	1.47	0.13	0.27	1.07	0.54
Maximum	2.72	2.86	0.88	0.60	0.12	0.00	2.62	0.51	0.27	1.92	0.87
Total	68.22	66.52	20.89	13.62	1.67	0.00	66.54	9.82	8.42	48.31	20.57
Average	2.20	2.15	0.67	0.44	0.05	0.00	2.15	0.32	0.27	1.56	0.66
Perryville Flow		0.27		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
5/1/2005	1.887	1.862	0.669	0.434	0.056	0	1.831	0.213	0.298	1.320	0.658
5/2/2005	2.088	2.117	0.672	0.45	0.191	0	1.897	0.213	0.298	1.386	0.661
5/3/2005	1.803	1.893	0.608	0.35	0.06	0	1.743	0.316	0.298	1.129	0.597
5/4/2005	1.845	1.841	0.617	0.453	0.126	0	1.719	0.316	0.298	1.105	0.606
5/5/2005	1.882	1.803	0.525	0.335	0.084	0	1.798	0.264	0.298	1.236	0.514
5/6/2005	2.332	1.907	0.691	0.32	0.168	0	2.164	0.264	0.298	1.602	0.680
5/7/2005	1.713	2.059	0.633	0.353	0.176	0	1.537	0.264	0.298	0.975	0.622
5/8/2005	1.644	1.625	0.648	0.434	0.152	0	1.492	0.264	0.298	0.930	0.637
5/9/2005	2.381	2.409	0.637	0.447	0.152	0	2.229	0.264	0.298	1.667	0.626
5/10/2005	1.826	1.818	0.576	0.341	0.032	0	1.794	0.342	0.298	1.154	0.565
5/11/2005	1.643	1.613	0.649	0.349	0.019	0	1.624	0.342	0.298	0.984	0.638
5/12/2005	1.678	1.729	0.609	0.346	0	0	1.678		0.298	1.380	0.598
5/13/2005	1.921	1.811	0.655	0.373	0	0	1.921		0.298	1.623	0.644
5/14/2005	1.314	1.596	0.602	0.339	0	0	1.314		0.298	1.016	0.591
5/15/2005	1.194	1.3	0.556	0.387	0	0	1.194		0.298	0.896	0.545
5/16/2005	2.204	1.976	0.812	0.57	0	0	2.204		0.298	1.906	0.801
5/17/2005	1.758	1.783	0.55	0.316	0	0	1.758		0.298	1.460	0.539
5/18/2005	1.562	1.4	0.621	0.381	0	0	1.562		0.298	1.264	0.610
5/19/2005	2.103	1.882	0.644	0.381	0	0	2.103		0.298	1.805	0.633
5/20/2005	1.82	1.279	0.6	0.359	0	0	1.82		0.298	1.522	0.589
5/21/2005	1.96	1.821	0.591	0.34	0.032	0	1.928		0.298	1.630	0.580
5/22/2005	1.96	1.583	0.82	0.546	0.183	0	1.777		0.298	1.479	0.809
5/23/2005	2.188	0.659	0.446	0.351	0.183	0	2.005		0.298	1.707	0.435
5/24/2005	1.771	1.478	0.715	0.408	0.177	0	1.594		0.298	1.296	0.704
5/25/2005	2.013	1.956	0.623	0.373	0.18	0	1.833		0.298	1.535	0.612
5/26/2005	2.15	2.15	0.607	0.38	0.215	0.144	1.791		0.298	1.493	0.596
5/27/2005	2.168	1.854	0.591	0.353	0.147	0.202	1.819		0.298	1.521	0.580
5/28/2005	2.045	2.675	0.618	0.393	0.206	0.231	1.608		0.298	1.310	0.607
5/29/2005	2.405	2.427	0.675	0.482	0.151	0.227	2.027		0.298	1.729	0.664
5/30/2005	2.441	2.647	0.506	0.363	0.187	0.359	1.895		0.298	1.597	0.495
5/31/2005	1.271	1.395	0.689	0.45	0.002	0.444	0.825		0.298	0.527	0.678
Minimum	1.19	0.66	0.45	0.32	0.00	0.00	0.83	0.21	0.30	0.53	0.44
Maximum	2.44	2.68	0.82	0.57	0.22	0.44	2.23	0.34	0.30	1.91	0.81
Total	58.97	56.35	19.46	12.16	2.88	1.61	54.48	3.06	9.24	42.18	19.13
Average	1.90	1.82	0.63	0.39	0.09	0.05	1.76	0.28	0.30	1.36	0.62
Perryville Flow		0.30	AD (MG)					0.099			

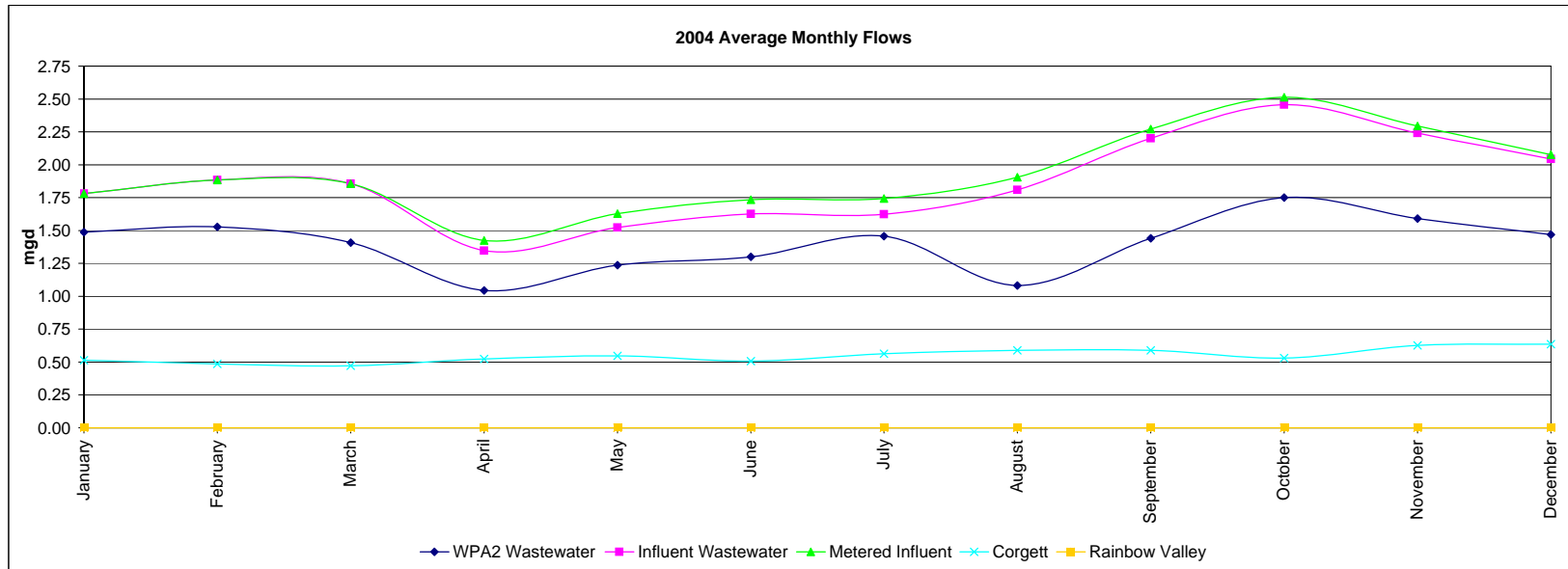
WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
8/1/2005	2.745	2.02	0.719	0.537	0.168	0.604	1.973		0.324	1.649	0.708
8/2/2005	2.409	2.1	0.657	0.415	0.067	0.605	1.737		0.324	1.413	0.646
8/3/2005	1.944	2.192	0.773	0.489	0.091	0.591	1.262		0.324	0.938	0.762
8/4/2005	1.994	2.192	0.581	0.368	0.000	0.696	1.298		0.324	0.974	0.570
8/5/2005	2.407	1.897	0.644	0.41	0.013	0.496	1.898		0.324	1.574	0.633
8/6/2005	2.262	2.271	0.576	0.336	0.112	0.653	1.497		0.324	1.173	0.565
8/7/2005	2.508	2.281	0.626	0.471	0.055	0.627	1.826		0.324	1.502	0.615
8/8/2005	2.953	2.207	0.697	0.522	0.153	0.592	2.208		0.324	1.884	0.686
8/9/2005	2.547	2.413	0.686	0.426	0.057	0.609	1.881		0.324	1.557	0.675
8/10/2005	2.461	2.547	0.666	0.42	0.087	0.608	1.766		0.324	1.442	0.655
8/11/2005	2.229	2.033	0.663	0.429	0.074	0.675	1.480		0.324	1.156	0.652
8/12/2005	2.553	2.563	0.584	0.364	0.139	0.493	1.921		0.324	1.597	0.573
8/13/2005	2.767	2.03	0.606	0.344	0.175	0.563	2.029		0.324	1.705	0.595
8/14/2005	2.947	2.03	0.615	0.455	0.156	0.629	2.162		0.324	1.838	0.604
8/15/2005	4.667	2.091	0.716	0.543	0.144	0.571	3.952		0.324	3.628	0.705
8/16/2005	2.419	2.119	0.666	0.402	0.115	0.562	1.742		0.324	1.418	0.655
8/17/2005	2.289	2.119	0.667	0.427	0.122	0.588	1.579		0.324	1.255	0.656
8/18/2005	2.504	1.925	0.655	0.385	0.168	0.58	1.756		0.324	1.432	0.644
8/19/2005	2.411	1.935	0.635	0.404	0.195	0.612	1.604		0.324	1.280	0.624
8/20/2005	2.338	0.704	0.438	0.265	0.154	0.572	1.612		0.324	1.288	0.427
8/21/2005	2.608	0.305	0.602	0.449	0.170	0.566	1.872		0.324	1.548	0.591
8/22/2005	2.768	1.72	0.785	0.56	0.146	0.577	2.045		0.324	1.721	0.774
8/23/2005	2.162	2	0.679	0.419	0.021	0.575	1.566		0.324	1.242	0.668
8/24/2005	2.454	2.327	0.601	0.369	0.176	0.573	1.705		0.324	1.381	0.590
8/25/2005	2.416	2.141	0.647	0.411	0.193	0.59	1.633		0.324	1.309	0.636
8/26/2005	2.416	2.132	0.621	0.369	0.013	0.624	1.779		0.324	1.455	0.610
8/27/2005	2.847	2.647	0.595	0.362	0.189	0.59	2.068		0.324	1.744	0.584
8/28/2005	2.416	2.226	0.601	0.446	0.173	0.559	1.684		0.324	1.360	0.590
8/29/2005	1.987	1.172	0.723	0.516	0.166	0.573	1.248		0.324	0.924	0.712
8/30/2005	2.282	2.196	0.671	0.408	0.180	0.584	1.518		0.324	1.194	0.660
8/31/2005	2.52	2.251	1.356	0.839	0.190	0.578	1.756		0.324	1.432	1.345
Minimum	1.94	0.31	0.44	0.27	0.00	0.49	1.25	0.00	0.32	0.92	0.43
Maximum	4.67	2.65	1.36	0.84	0.20	0.70	3.95	0.00	0.32	3.63	1.35
Total	78.23	62.78	20.75	13.56	3.86	18.32	56.06	0.00	10.04	46.02	20.42
Average	2.52	2.03	0.67	0.44	0.12	0.59	1.81		0.32	1.48	0.66
Perryville Flow		0.32		AD (MG)							

2004 Average Flows								
Month	157th Ave.				Corgett		Rainbow Valley	
	Metered Influent (mgd)	Waste Brine (mgd)	Influent Wastewater (mgd)	Perryville Flow (mgd)	Crane Superfund Site (mgd)	WPA2 Wastewater (mgd)	WPA3 Influent (mgd)	WPA3 Influent (mgd)
January	1.78	0.00	1.78	0.29		1.49	0.51	N/A
February	1.88	0.00	1.88	0.36		1.53	0.48	N/A
March	1.86	0.00	1.86	0.45		1.41	0.47	N/A
April	1.42	0.08	1.35	0.30		1.05	0.52	N/A
May	1.63	0.11	1.52	0.29		1.24	0.55	N/A
June	1.74	0.11	1.63	0.33		1.30	0.51	N/A
July	1.74	0.12	1.62	0.17		1.46	0.56	N/A
August	1.90	0.10	1.81	0.33	0.40	1.08	0.59	N/A
September	2.27	0.07	2.20	0.42	0.34	1.44	0.59	N/A
October	2.51	0.06	2.46	0.30	0.40	1.75	0.53	N/A
November	2.30	0.06	2.24	0.31	0.34	1.59	0.63	N/A
December	2.08	0.03	2.04	0.27	0.31	1.47	0.64	N/A
Average	1.93	0.06	1.87	0.32	0.15	1.40	0.55	
Max Month	2.51	0.12	2.46	0.45	0.40	1.75	0.64	
MM Factor	1.30	1.99	1.32	1.41	2.72	1.25	1.16	

Notes:

1. 157th Effluent meter reading used in place of influent meter readings
2. 157th flow adjusted for the Perryville flow and brine wasted to the sewer
3. Corgett flows are adjusted for re-circulated flows in the plant (filter backwash and digester decant)



WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
1/1/2004	1.686	1.679	0.554	0.304	0	0	1.679		0.29	1.39	0.543
1/2/2004	1.987	2.015	0.64	0.356	0	0	2.015		0.29	1.72	0.629
1/3/2004	1.62	1.552	0.638	0.357	0	0	1.552		0.29	1.26	0.627
1/4/2004	2.14	2.001	0.802	0.459	0	0	2.001		0.29	1.71	0.791
1/5/2004	2.36	1.966	0.617	0.406	0	0	1.966		0.29	1.67	0.606
1/6/2004	1.626	1.947	0.601	0.323	0	0	1.947		0.29	1.65	0.590
1/7/2004	1.902	1.683	0.63	0.31	0	0	1.683		0.29	1.39	0.619
1/8/2004	1.968	1.172	0.594	0.288	0	0	1.172		0.29	0.88	0.583
1/9/2004	2.077	1.899	0.655	0.345	0	0	1.899		0.29	1.61	0.644
1/10/2004	1.776	1.654	0.41	0.282	0	0	1.654		0.29	1.36	0.399
1/11/2004	2.801	2.074	0.457	0.323	0	0	2.074		0.29	1.78	0.446
1/12/2004	2.408	2	0.665	0.354	0	0	2		0.29	1.71	0.654
1/13/2004	1.914	1.735	0.352	0.27	0	0	1.735		0.29	1.44	0.341
1/14/2004	1.783	1.721	0.534	0.39	0	0	1.721		0.29	1.43	0.523
1/15/2004	1.915	1.861	0.464	0.348	0	0	1.861		0.29	1.57	0.453
1/16/2004	1.675	1.789	0.459	0.332	0	0	1.789		0.29	1.50	0.448
1/17/2004	1.774	1.683	0.396	0.318	0	0	1.683		0.29	1.39	0.385
1/18/2004	2.207	1.897	0.56	0.377	0	0	1.897		0.29	1.60	0.549
1/19/2004	2.194	2.004	0.456	0.31	0	0	2.004		0.29	1.71	0.445
1/20/2004	2.318	1.889	0.764	0.458	0	0	1.889		0.29	1.60	0.753
1/21/2004	1.839	1.756	0.459	0.343	0	0	1.756		0.29	1.46	0.448
1/22/2004	1.904	1.804	0.395	0.313	0	0	1.804		0.29	1.51	0.384
1/23/2004	1.915	1.861	0.464	0.348	0	0	1.861		0.29	1.57	0.453
1/24/2004	1.675	1.789	0.459	0.332	0	0	1.789		0.29	1.50	0.448
1/25/2004	1.993	1.674	0.53	0.383	0	0	1.674		0.29	1.38	0.519
1/26/2004	2.275	1.956	0.642	0.504	0	0	1.956		0.29	1.66	0.631
1/27/2004	1.853	1.723	0.366	0.275	0	0	1.723		0.29	1.43	0.355
1/28/2004	1.966	1.81	0.465	0.351	0	0	1.81		0.29	1.52	0.454
1/29/2004	2.074	1.566	0.425	0.328	0	0	1.566		0.29	1.27	0.414
1/30/2004	1.599	1.444	0.339	0.28	0	0	1.444		0.29	1.15	0.328
1/31/2004	1.614	1.635	0.443	0.345	0	0	1.635		0.29	1.34	0.432
Minimum	1.60	1.17	0.34	0.27	0.00	0.00	1.17	0.00	0.29	0.88	0.33
Maximum	2.80	2.07	0.80	0.50	0.00	0.00	2.07	0.00	0.29	1.78	0.79
Total	60.84	55.24	16.24	10.71	0.00	0.00	55.24	0.00	9.09	46.15	15.91
Average	1.96	1.78	0.52	0.35	0.00	0.00	1.78	0.00	0.29	1.49	0.51
Perryville Flow		0.29		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
3/1/2004	2.109	1.824	0.542	0.369	0	0	1.824		0.45	1.38	0.531
3/2/2004	1.874	1.738	0.433	0.38	0	0	1.738		0.36	1.38	0.422
3/3/2004	1.761	1.555	0.44	0.389	0	0	1.555		0.36	1.20	0.429
3/4/2004	2.045	1.795	0.463	0.4	0	0	1.795		0.36	1.44	0.452
3/5/2004	1.763	1.506	0.473	0.393	0	0	1.506		0.36	1.15	0.462
3/6/2004	1.745	1.499	0.342	0.339	0	0	1.499		0.36	1.14	0.331
3/7/2004	2.01	1.608	0.6	0.472	0	0	1.608		0.36	1.25	0.589
3/8/2004	2.064	1.759	0.476	0.409	0	0	1.759		0.36	1.40	0.465
3/9/2004	1.493	1.303	0.445	0.387	0	0	1.303		0.36	0.95	0.434
3/10/2004	2.012	1.692	0.369	0.332	0	0	1.692		0.36	1.34	0.358
3/11/2004	1.955	1.8	0.576	0.465	0	0	1.8		0.36	1.44	0.565
3/12/2004	1.939	1.774	0.255	0.256	0	0	1.774		0.36	1.42	0.244
3/13/2004	1.747	2.018	0.407	0.358	0	0	2.018		0.36	1.66	0.396
3/14/2004	2.015	2.22	0.585	0.468	0	0	2.22		0.36	1.86	0.574
3/15/2004	2.046	1.903	0.612	0.472	0	0	1.903		0.36	1.55	0.601
3/16/2004	2.646	2.768	0.456	0.376	0	0	2.768		0.36	2.41	0.445
3/17/2004	1.596	1.436	0.329	0.267	0	0	1.436		0.36	1.08	0.318
3/18/2004	2.226	2.349	0.499	0.408	0	0	2.349		0.36	1.99	0.488
3/19/2004	2.32	2.144	0.594	0.415	0	0	2.144		0.36	1.79	0.583
3/20/2004	1.773	1.926	0.567	0.42	0	0	1.926		0.36	1.57	0.556
3/21/2004	2.028	2.326	0.38	0.331	0	0	2.326		0.36	1.97	0.369
3/22/2004	2.054	1.952	0.467	0.367	0	0	1.952		0.36	1.60	0.456
3/23/2004	2.075	2	0.443	0.384	0	0	2		0.36	1.64	0.432
3/24/2004	2.137	1.042	0.461	0.377	0	0	1.042		0.36	0.69	0.450
3/25/2004	1.755	1.674	0.703	0.504	0	0	1.674		0.36	1.32	0.692
3/26/2004	2.07	2.098	0.464	0.336	0	0	2.098		0.36	1.74	0.453
3/27/2004	1.745	2.976	0.346	0.301	0	0	2.976		0.36	2.62	0.335
3/28/2004	1.995	2.029	0.665	0.46	0	0	2.029		0.36	1.67	0.654
3/29/2004	1.855	1.715	0.571	0.394	0	0	1.715		0.36	1.36	0.560
3/30/2004	1.602	1.568	0.476	0.367	0	0	1.568		0.36	1.21	0.465
3/31/2004	1.511	1.54	0.473	0.252	0	0	1.54		0.36	1.18	0.462
										1.54	0.501
Minimum	1.49	1.04	0.26	0.25	0.00	0.00	1.04	0.00	0.36	0.69	0.24
Maximum	2.65	2.98	0.70	0.50	0.00	0.00	2.98	0.00	0.45	2.62	0.69
Total	59.97	57.54	14.91	11.85	0.00	0.00	54.43	0.00	10.40	46.43	14.58
Average	1.93	1.86	0.48	0.38	0.00	0.00	1.88		0.36	1.50	0.47
Perryville Flow		0.45		AD (MG)							

No rain on max day

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
4/1/2004	1.943	1.838	0.512	0.393	0	0	1.838		0.30	1.54	0.501
4/2/2004	0.714	0.852	0.549	0.411	0	0	0.852		0.30	0.55	0.538
4/3/2004	2.747	2.001	0.363	0.425	0	0	2.001		0.30	1.70	0.352
4/4/2004	2.048	1.806	0.558	0.439	0	0	1.806		0.30	1.50	0.547
4/5/2004	2.314	1.608	0.701	0.645	0	0	1.608		0.30	1.31	0.690
4/6/2004	1.942	1.3	0.591	0.502	0	0	1.3		0.30	1.00	0.580
4/7/2004	1.916	1.201	0.614	0.375	0	0	1.201		0.30	0.90	0.603
4/8/2004	2.413	1.276	0.493	0.43	0	0	1.276		0.30	0.97	0.482
4/9/2004	1.885	0.839	0.428	0.596	0	0	0.839		0.30	0.54	0.417
4/10/2004	1.972	1.378	0.457	0.327	0	0	1.378		0.30	1.08	0.446
4/11/2004	2.163	0.651	0.557	0.492	0	0	0.651		0.30	0.35	0.546
4/12/2004	2.196	0.733	0.641	0.475	0	0	0.733		0.30	0.43	0.630
4/13/2004	2.177	1.418	0.429	0.295	0	0	1.418		0.30	1.12	0.418
4/14/2004	2.076	1.592	0.485	0.37	0	0	1.592		0.30	1.29	0.474
4/15/2004	2.006	1.56	0.496	0.36	0	0	1.56		0.30	1.26	0.485
4/16/2004	1.861	1.419	0.46	0.359	0	0	1.419		0.30	1.12	0.449
4/17/2004	1.838	1.962	0.43	0.37	0	0	1.962		0.30	1.66	0.419
4/18/2004	2.066	2.159	0.487	0.388	0	0	2.159		0.30	1.86	0.476
4/19/2004	1.824	2.99	0.665	0.477	0	0	2.99		0.30	2.69	0.654
4/20/2004	1.929	1.15	0.805	0.529	0	0	1.15		0.30	0.85	0.794
4/21/2004	1.892	1.14	0.45	0.358	0	0	1.14		0.30	0.84	0.439
4/22/2004	2.078	1.26	0.6	0.358	0	0	1.26		0.30	0.96	0.589
4/23/2004	2.84	1.278	0.477	0.33	0	0	1.278		0.30	0.98	0.466
4/24/2004	1.863	1.124	0.537	0.381	0	0	1.124		0.30	0.82	0.526
4/25/2004	2.058	1.071	0.479	0.343	0	0	1.071		0.30	0.77	0.468
4/26/2004	2.158	1.401	0.828	0.472	0	0	1.401		0.30	1.10	0.817
4/27/2004	1.837	1.278	0.402	0.3	0	0	1.278		0.30	0.98	0.391
4/28/2004	2.236	1.651	0.5	0.374	0	0	1.651		0.30	1.35	0.489
4/29/2004	1.913	1.45	0.54	0.237	1.69	0	-0.24		0.30	-0.54	0.529
4/30/2004	1.89	1.337	0.489	0.381	0.61	0	0.727		0.30	0.42	0.478
										0.87	0.338
Minimum	0.71	0.65	0.36	0.24	0.00	0.00	-0.24	0.00	0.30	-0.54	0.35
Maximum	2.84	2.99	0.83	0.65	1.69	0.00	2.99	0.00	0.30	2.69	0.82
Total	60.80	42.72	16.02	12.19	2.30	0.00	39.70	0.00	8.77	31.35	15.71
Average	2.03	1.42	0.53	0.41	0.08	0.00	1.37		0.30	1.05	0.52
Perryville Flow		0.30		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
5/1/2004	1.911	1.158	0.409	0.314	0.000	0	1.158		0.29	0.87	0.398
5/2/2004	1.922	1.227	0.575	0.402	0.000	0	1.227		0.29	0.94	0.564
5/3/2004	2.156	1.311	0.762	0.486	0.050	0	1.261		0.29	0.98	0.751
5/4/2004	2.14	1.499	0.58	0.395	0.101	0	1.398		0.29	1.11	0.569
5/5/2004	1.885	1.175	0.48	0.309	0.139	0	1.036		0.29	0.75	0.469
5/6/2004	2.066	1.407	0.574	0.385	0.114	0	1.293		0.29	1.01	0.563
5/7/2004	2.468	1.499	0.506	0.182	0.127	0	1.372		0.29	1.09	0.495
5/8/2004	1.919	1.311	0.568	0.402	0.071	0	1.24		0.29	0.95	0.557
5/9/2004	2.63	2.049	0.725	0.405	0.049	0	2		0.29	1.71	0.714
5/10/2004	1.161	1.849	0.658	0.465	0.101	0	1.748		0.29	1.46	0.647
5/11/2004	2.877	1.427	0.443	0.342	0.108	0	1.319		0.29	1.03	0.432
5/12/2004	2.068	1.704	0.203	0.371	0.143	0	1.561		0.29	1.28	0.192
5/13/2004	2.268	1.788	0.861	0.406	0.133	0	1.655		0.29	1.37	0.850
5/14/2004	2.096	1.621	0.406	0.295	0.134	0	1.487		0.29	1.20	0.395
5/15/2004	1.805	1.398	0.552	0.414	0.052	0	1.346		0.29	1.06	0.541
5/16/2004	2.338	1.663	0.516	0.38	0.149	0	1.514		0.29	1.23	0.505
5/17/2004	2.371	1.696	0.688	0.47	0.065	0	1.631		0.29	1.35	0.677
5/18/2004	2.049	1.534	0.519	0.37	0.160	0	1.374		0.29	1.09	0.508
5/19/2004	2.25	1.669	0.424	0.307	0.096	0	1.573		0.29	1.29	0.413
5/20/2004	2.12	1.885	0.607	0.338	0.121	0	1.764		0.29	1.48	0.596
5/21/2004	2.015	1.61	0.779	0.44	0.114	0	1.496		0.29	1.21	0.768
5/22/2004	1.861	1.536	0.544	0.318	0.133	0	1.403		0.29	1.12	0.533
5/23/2004	2.749	2.49	0.651	0.373	0.129	0	2.361		0.29	2.08	0.640
5/24/2004	1.959	1.355	0.766	0.437	0.156	0	1.199		0.29	0.91	0.755
5/25/2004	2.074	1.56	0.476	0.35	0.122	0	1.438		0.29	1.15	0.465
5/26/2004	2.22	1.65	0.469	0.34	0.135	0	1.515		0.29	1.23	0.458
5/27/2004	2.319	1.779	0.469	0.34	0.112	0	1.667		0.29	1.38	0.458
5/28/2004	2.276	1.86	0.456	0.341	0.150	0	1.71		0.29	1.42	0.445
5/29/2004	2.136	1.786	0.483	0.372	0.131	0	1.655		0.29	1.37	0.472
5/30/2004	2.478	2.072	0.648	0.436	0.107	0	1.965		0.29	1.68	0.637
5/31/2004	2.074	1.937	0.501	0.375	0.131	0	1.806		0.29	1.52	0.490
										1.77	0.625
Minimum	1.16	1.16	0.20	0.18	0.00	0.00	1.04	0.00	0.29	0.75	0.19
Maximum	2.88	2.49	0.86	0.49	0.16	0.00	2.36	0.00	0.29	2.08	0.85
Total	66.66	50.51	17.30	11.56	3.33	0.00	43.40	0.00	8.29	38.31	16.97
Average	2.15	1.63	0.56	0.37	0.11	0.00	1.50		0.29	1.24	0.55
Perryville Flow		0.29		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
6/1/2004	2.333	1.624	0.636	0.438	0.128	0	1.496		0.33	1.17	0.625
6/2/2004	2.313	2.017	0.405	0.313	0.126	0	1.891		0.33	1.57	0.394
6/3/2004	2.378	1.989	0.538	0.376	0.133	0	1.856		0.33	1.53	0.527
6/4/2004	1.922	1.604	0.387	0.291	0.134	0	1.47		0.33	1.14	0.376
6/5/2004	2.28	1.975	0.501	0.365	0.121	0	1.854		0.33	1.53	0.490
6/6/2004	2.346	1.948	0.611	0.393	0.126	0	1.822		0.33	1.50	0.600
6/7/2004	2.33	1.843	0.758	0.485	0.131	0	1.712		0.33	1.39	0.747
6/8/2004	2.211	1.857	0.409	0.304	0.143	0	1.714		0.33	1.39	0.398
6/9/2004	2.174	1.733	0.426	0.329	0.128	0	1.605		0.33	1.28	0.415
6/10/2004	2.282	1.888	0.516	0.406	0.058	0	1.83		0.33	1.50	0.505
6/11/2004	2.166	1.745	0.434	0.324	0.093	0	1.652		0.33	1.33	0.423
6/12/2004	2.26	2.005	0.473	0.36	0.124	0	1.881		0.33	1.56	0.462
6/13/2004	2.395	1.919	0.557	0.384	0.094	0	1.825		0.33	1.50	0.546
6/14/2004	2.423	1.64	0.72	0.472	0.092	0	1.548		0.33	1.22	0.709
6/15/2004	2.225	1.738	0.459	0.337	0.117	0	1.621		0.33	1.30	0.448
6/16/2004	2.452	1.646	0.35	0.3	0.039	0	1.607		0.33	1.28	0.339
6/17/2004	2.187	1.745	0.517	0.399	0.145	0	1.6		0.33	1.27	0.506
6/18/2004	2.733	1.655	0.37	0.273	0.117	0	1.538		0.33	1.21	0.359
6/19/2004	1.765	1.699	0.601	0.428	0.006	0	1.693		0.33	1.37	0.590
6/20/2004	2.191	1.791	0.491	0.356	0.043	0	1.748		0.33	1.42	0.480
6/21/2004	2.591	1.537	0.666	0.439	0.086	0	1.451		0.33	1.13	0.655
6/22/2004	1.965	1.325	0.483	0.346	0.097	0	1.228		0.33	0.90	0.472
6/23/2004	2.07	1.582	0.515	0.364	0.152	0	1.43		0.33	1.10	0.504
6/24/2004	2.411	1.758	0.43	0.303	0.099	0	1.659		0.33	1.33	0.419
6/25/2004	2.267	1.694	0.539	0.405	0.125	0	1.569		0.33	1.24	0.528
6/26/2004	1.923	1.846	0.397	0.305	0.105	0	1.741		0.33	1.42	0.386
6/27/2004	2.334	1.605	0.599	0.397	0.122	0	1.483		0.33	1.16	0.588
6/28/2004	2.257	1.465	0.784	0.47	0.124	0	1.341		0.33	1.02	0.773
6/29/2004	2.104	1.646	0.431	0.313	0.12	0	1.526		0.33	1.20	0.420
6/30/2004	2.191	1.532	0.49	0.358	0.163	0	1.369		0.33	1.04	0.479
										1.79	0.544
Minimum	1.77	1.33	0.35	0.27	0.01	0.00	1.23	0.00	0.33	0.90	0.34
Maximum	2.73	2.02	0.78	0.49	0.16	0.00	1.89	0.00	0.33	1.57	0.77
Total	67.48	52.05	15.49	11.03	3.29	0.00	47.39	0.00	9.44	38.99	15.18
Average	2.25	1.74	0.52	0.37	0.11	0.00	1.63		0.33	1.30	0.51
Perryville Flow		0.33		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
7/1/2004	2.477	2.068	0.555	0.428	0.108	0	1.96		0.17	1.79	0.544
7/2/2004	1.9	1.547	0.344	0.259	0.114	0	1.433		0.17	1.27	0.333
7/3/2004	1.818	1.803	0.485	0.335	0.141	0	1.662		0.17	1.49	0.474
7/4/2004	1.578	2.185	0.562	0.145	0.104	0	2.081		0.17	1.91	0.551
7/5/2004	2.053	2.282	0.68	0.073	0.107	0	2.175		0.17	2.01	0.669
7/6/2004	2.239	1.965	0.518	0.099	0.155	0	1.81		0.17	1.64	0.507
7/7/2004	1.935	1.536	0.602	0.372	0.096	0	1.44		0.17	1.27	0.591
7/8/2004	2.155	1.744	0.5	0.319	0.136	0	1.608		0.17	1.44	0.489
7/9/2004	2.171	2.437	0.708	0.415	0.131	0	2.306		0.17	2.14	0.697
7/10/2004	2.058	1.107	0.572	0.371	0.142	0	0.965		0.17	0.80	0.561
7/11/2004	2.37	1.781	0.689	0.217	0.103	0	1.678		0.17	1.51	0.678
7/12/2004	2.209	1.743	0.679	0.336	0.122	0	1.621		0.17	1.45	0.668
7/13/2004	2.73	1.745	0.591	0.381	0.121	0	1.624		0.17	1.46	0.580
7/14/2004	2.285	1.753	0.537	0.357	0.137	0	1.616		0.17	1.45	0.526
7/15/2004	2.526	1.559	0.519	0.332	0.129	0	1.43		0.17	1.26	0.508
7/16/2004	2.497	1.543	0.571	0.357	0.132	0	1.411		0.17	1.24	0.560
7/17/2004	2.434	1.536	0.566	0.382	0.102	0	1.434		0.17	1.27	0.555
7/18/2004	2.697	1.683	0.624	0.23	0.074	0	1.609		0.17	1.44	0.613
7/19/2004	2.111	2.85	0.642	0.201	0.155	0	2.695		0.17	2.53	0.631
7/20/2004	2.34	1.731	0.5	0.103	0.056	0	1.675		0.17	1.51	0.489
7/21/2004	2.162	1.524	0.474	0.321	0.128	0	1.396		0.17	1.23	0.463
7/22/2004	2.179	1.63	0.628	0.404	0.131	0	1.499		0.17	1.33	0.617
7/23/2004	2.201	1.653	0.451	0.297	0.114	0	1.539		0.17	1.37	0.440
7/24/2004	2.198	1.672	0.598	0.402	0.153	0	1.519		0.17	1.35	0.587
7/25/2004	2.374	1.775	0.549	0.164	0.104	0	1.671		0.17	1.50	0.538
7/26/2004	2.433	1.855	0.769	0.354	0.127	0	1.728		0.17	1.56	0.758
7/27/2004	2.056	1.104	0.474	0.114	0.122	0	0.982		0.17	0.81	0.463
7/28/2004	2.193	0.781	0.572	0.579	0.111	0	0.67		0.17	0.50	0.561
7/29/2004	2.164	1.764	0.619	0.558	0.14	0	1.624		0.17	1.46	0.608
7/30/2004	2.612	1.838	0.555	0.545	0.112	0	1.726		0.17	1.56	0.544
7/31/2004	2.177	1.884	0.677	0.018	0.131	0	1.753		0.17	1.59	0.666
Minimum	1.58	0.78	0.34	0.02	0.06	0.00	0.67	0.00	0.17	0.50	0.33
Maximum	2.73	2.85	0.77	0.58	0.16	0.00	2.70	0.00	0.17	2.53	0.76
Total	69.33	54.08	17.81	9.47	3.74	0.00	46.86	0.00	4.85	45.15	17.48
Average	2.24	1.74	0.57	0.31	0.12	0.00	1.62		0.17	1.46	0.56
Perryville Flow		0.17		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
8/1/2004	2.867	2.22	0.482	0.159	0.105	0	2.12	0.3483	0.33	1.44	0.471
8/2/2004	2.8	2.043	0.619	0.056	0.157	0	1.89	0.3483	0.33	1.21	0.608
8/3/2004	2.098	1.449	0.476	0.011	0.091	0	1.36	0.3483	0.33	0.68	0.465
8/4/2004	2.774	1.886	0.593	0.33	0.121	0	1.77	0.3483	0.33	1.09	0.582
8/5/2004	2.622	1.989	0.715	0.469	0.139	0	1.85	0.4519	0.33	1.07	0.704
8/6/2004	2.771	1.882	0.581	0.313	0.067	0	1.82	0.4519	0.33	1.03	0.570
8/7/2004	2.673	2.315	0.718	0.473	0.127	0	2.19	0.4519	0.33	1.41	0.707
8/8/2004	2.893	2.265	0.422	0.297	0.082	0	2.18	0.4519	0.33	1.40	0.411
8/9/2004	2.755	1.589	0.858	0.549	0.116	0	1.47	0.4519	0.33	0.69	0.847
8/10/2004	2.955	1.547	0.459	0.297	0.098	0	1.45	0.4519	0.33	0.67	0.448
8/11/2004	2.437	1.687	0.563	0.356	0.089	0	1.60	0.4519	0.33	0.82	0.552
8/12/2004	2.734	1.944	0.788	0.516	0.101	0	1.84	0.4663	0.33	1.05	0.777
8/13/2004	2.962	1.939	0.474	0.334	0.124	0	1.82	0.4663	0.33	1.02	0.463
8/14/2004	2.56	1.948	0.497	0.332	0.049	0	1.90	0.4663	0.33	1.10	0.486
8/15/2004	2.733	1.955	0.597	0.363	0.077	0	1.88	0.4663	0.33	1.08	0.586
8/16/2004	3.143	1.842	0.705	0.448	0.116	0	1.73	0.4663	0.33	0.93	0.694
8/17/2004	2.558	1.768	0.504	0.339	0.031	0	1.74	0.4663	0.33	0.94	0.493
8/18/2004	3	1.899	0.502	0.329	0.092	0	1.81	0.4663	0.33	1.01	0.491
8/19/2004	2.825	1.757	0.734	0.368	0.113	0	1.64	0.4281	0.33	0.89	0.723
8/20/2004	2.691	2.498	0.536	0.356	0.039	0	2.46	0.4281	0.33	1.70	0.525
8/21/2004	2.653	1.90	0.502	0.31	0.138	0	1.77	0.4281	0.33	1.01	0.491
8/22/2004	2.787	1.90	0.532	0.346	0.06	0	1.84	0.4281	0.33	1.09	0.521
8/23/2004	2.376	1.466	0.821	0.527	0.128	0	1.34	0.4281	0.33	0.58	0.810
8/24/2004	3.071	2.498	0.624	0.39	0.095	0	2.40	0.4281	0.33	1.65	0.613
8/25/2004	3.282	2.378	0.719	0.437	0.083	0	2.30	0.4281	0.33	1.54	0.708
8/26/2004	2.955	2.492	0.485	0.285	0.046	0	2.45	0.2588	0.33	1.86	0.474
8/27/2004	2.795	2.056	0.507	0.32	0.086	0	1.97	0.2588	0.33	1.38	0.496
8/28/2004	2.664	1.90	0.48	0.302	0.132	0	1.77	0.2588	0.33	1.19	0.469
8/29/2004	2.185	1.90	0.527	0.344	0.082	0	1.82	0.2588	0.33	1.24	0.516
8/30/2004	3.618	0.107	0.68	0.44	0.132	0	-0.03	0.2588	0.33	-0.61	0.669
8/31/2004	2.558	2.005	0.858	0.46	0.034	0	1.97	0.2588	0.33	1.38	0.847
Minimum	2.10	0.11	0.42	0.01	0.03	0.00	-0.03	0.26	0.33	-0.61	0.41
Maximum	3.62	2.50	0.86	0.55	0.16	0.00	2.46	0.47	0.33	1.86	0.85
Total	85.80	59.04	18.56	10.86	2.95	0.00	56.09	12.37	10.18	33.54	18.23
Average	2.77	1.90	0.60	0.35	0.10	0.00	1.81	0.40	0.33	1.08	0.59
Perryville Flow		0.33		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
9/1/2004	2.682	1.946	0.419	0.254	0.059	0	1.887	0.2588	0.42	1.21	0.408
9/2/2004	3.256	1.639	0.751	0.415	0.051	0	1.588	0.2588	0.42	0.91	0.740
9/3/2004	2.546	2.511	0.738	0.359	0.135	0	2.376	0.2588	0.42	1.70	0.727
9/4/2004	2.698	2.36	0.571	0.313	0.063	0	2.297	0.2588	0.42	1.62	0.560
9/5/2004	3.007	2.273	0.55	0.357	0.047	0	2.226	0.2588	0.42	1.55	0.539
9/6/2004	2.565	2.374	0.588	0.367	0.096	0	2.278	0.2588	0.42	1.60	0.577
9/7/2004	3.004	2.335	0.721	0.423	0.047	0	2.288	0.2588	0.42	1.61	0.710
9/8/2004	2.234	2.166	0.588	0.375	0.135	0	2.031	0.2588	0.42	1.35	0.577
9/9/2004	2.292	2.293	0.59	0.374	0.089	0	2.204	0.4592	0.42	1.32	0.579
9/10/2004	2.667	2.598	0.676	0.373	0.09	0	2.508	0.4592	0.42	1.63	0.665
9/11/2004	2.568	2.596	0.538	0.369	0.088	0	2.508	0.4592	0.42	1.63	0.527
9/12/2004	2.905	2.611	0.616	0.402	0.074	0	2.537	0.4592	0.42	1.66	0.605
9/13/2004	2.997	2.471	0.734	0.537	0.096	0	2.375	0.4592	0.42	1.49	0.723
9/14/2004	2.506	1.802	0.619	0.415	0.097	0	1.705	0.4592	0.42	0.82	0.608
9/15/2004	2.187	1.962	0.603	0.418	0.087	0	1.875	0.4592	0.42	0.99	0.592
9/16/2004	2.786	2.413	0.589	0.379	0.087	0	2.326	0.1998	0.42	1.70	0.578
9/17/2004	2.545	2.121	0.765	0.51	0.11	0	2.011	0.1998	0.42	1.39	0.754
9/18/2004	2.6	2.231	0.648	0.455	0.053	0	2.178	0.1998	0.42	1.56	0.637
9/19/2004	2.689	2.13	0.547	0.4	0.092	0	2.038	0.1998	0.42	1.42	0.536
9/20/2004	2.438	2.024	0.736	0.523	0.107	0	1.917	0.1998	0.42	1.30	0.725
9/21/2004	2.11	2.016	0.501	0.339	0.037	0	1.979	0.1998	0.42	1.36	0.490
9/22/2004	2.334	2.143	0.627	0.441	0.038	0	2.105	0.1998	0.42	1.48	0.616
9/23/2004	2.043	1.903	0.494	0.394	0.022	0	1.881	0.1998	0.42	1.26	0.483
9/24/2004	2.654	2.267	0.537	0.486	0.014	0	2.253	0.4547	0.42	1.38	0.526
9/25/2004	2.173	2.462	0.483	0.371	0	0	2.462	0.4547	0.42	1.59	0.472
9/26/2004	2.839	2.881	0.573	0.433	0	0	2.881	0.4547	0.42	2.00	0.562
9/27/2004	2.544	2.109	0.714	0.443	0	0	2.109	0.4547	0.42	1.23	0.703
9/28/2004	2.907	2.501	0.515	0.361	0.083	0	2.418	0.4547	0.42	1.54	0.504
9/29/2004	2.923	2.507	0.519	0.38	0.115	0	2.392	0.4547	0.42	1.52	0.508
9/30/2004	2.826	2.484	0.448	0.314	0.124	0	2.36	0.5134	0.42	1.43	0.437
										1.44	0.485
Minimum	2.04	1.64	0.42	0.25	0.00	0.00	1.59	0.20	0.42	0.82	0.41
Maximum	3.26	2.88	0.77	0.54	0.14	0.00	2.88	0.51	0.42	2.00	0.75
Total	78.53	68.13	18.00	11.98	2.14	0.00	65.99	10.13	12.65	43.22	17.68
Average	2.62	2.27	0.60	0.40	0.07	0.00	2.20	0.34	0.42	1.44	0.59
Perryville Flow		0.42		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
10/1/2004	2.747	2.52	0.4796	0.544	0.05	0	2.47	0.5134	0.30	1.6543	0.469
10/2/2004	2.859	2.844	0.501	0.364	0.091	0	2.753	0.5134	0.30	1.9373	0.490
10/3/2004	2.891	2.619	0.59	0.418	0.098	0	2.521	0.5134	0.30	1.7053	0.579
10/4/2004	3.099	2.573	0.721	0.451	0.113	0	2.46	0.5134	0.30	1.6443	0.710
10/5/2004	2.499	2.296	0.473	0.311	0.036	0	2.26	0.5134	0.30	1.4443	0.462
10/6/2004	2.873	3.381	0.535	0.314	0.123	0	3.258	0.5134	0.30	2.4423	0.524
10/7/2004	2.678	2.583	0.545	0.314	0.02	0	2.563	0.4006	0.30	1.8601	0.534
10/8/2004	2.706	2.415	0.525	0.408	0	0	2.415	0.4006	0.30	1.7121	0.514
10/9/2004	2.635	2.549	0.38	0.508	0.017	0	2.532	0.4006	0.30	1.8291	0.369
10/10/2004	2.692	2.635	0.411	0.556	0	0	2.635	0.4006	0.30	1.9321	0.400
10/11/2004	3.173	2.271	0.433	0.601	0	0	2.271	0.4006	0.30	1.5681	0.422
10/12/2004	2.998	2.375	0.361	0.479	0	0	2.375	0.4006	0.30	1.6721	0.350
10/13/2004	2.852	2.516	0.524	0.384	0.113	0	2.403	0.4006	0.30	1.7001	0.513
10/14/2004	2.685	2.352	0.496	0.347	0.07	0	2.282	0.4547	0.30	1.5250	0.485
10/15/2004	2.42	2.131	0.52	0.372	0	0	2.131	0.4547	0.30	1.3740	0.509
10/16/2004	2.913	2.711	0.533	0.373	0.024	0	2.687	0.4547	0.30	1.9300	0.522
10/17/2004	3.349	2.19	0.534	0.377	0.055	0	2.135	0.4547	0.30	1.3780	0.523
10/18/2004	2.82	2.233	0.759	0.522	0.01	0	2.223	0.4547	0.30	1.4660	0.748
10/19/2004	2.764	2.519	0.49	0.304	0.11	0	2.409	0.4547	0.30	1.6520	0.479
10/20/2004	2.63	2.154	0.558	0.333	0.042	0	2.112	0.4547	0.30	1.3550	0.547
10/21/2004	2.854	2.229	0.526	0.34	0.06	0	2.169	0.2861	0.30	1.5805	0.515
10/22/2004	2.479	2.224	0.558	0.39	0.078	0	2.146	0.2861	0.30	1.5575	0.547
10/23/2004	2.534	2.996	0.561	0.368	0.006	0	2.99	0.2861	0.30	2.4015	0.550
10/24/2004	2.599	2.994	0.599	0.403	0.08	0	2.914	0.2861	0.30	2.3255	0.588
10/25/2004	2.602	2.167	0.865	0.487	0.103	0	2.064	0.2861	0.30	1.4755	0.854
10/26/2004	2.629	2.488	0.461	0.322	0.045	0	2.443	0.2861	0.30	1.8545	0.450
10/27/2004	2.689	2.636	0.545	0.354	0.112	0	2.524	0.2861	0.30	1.9355	0.534
10/28/2004	2.613	2.443	0.512	0.321	0.121	0	2.322	0.3706	0.30	1.6491	0.501
10/29/2004	2.065	2.206	0.492	0.315	0.067	0	2.139	0.3706	0.30	1.4661	0.481
10/30/2004	1.913	2.8	0.706	0.444	0.082	0	2.718	0.3706	0.30	2.0451	0.695
10/31/2004	2.555	2.867	0.605	0.387	0.035	0	2.832	0.3706	0.30	2.1591	0.594
Minimum	1.91	2.13	0.36	0.30	0.00	0.00	2.06	0.29	0.30	1.35	0.35
Maximum	3.35	3.38	0.87	0.60	0.12	0.00	3.26	0.51	0.30	2.44	0.85
Total	83.82	77.92	16.80	12.41	1.76	0.00	76.16	12.55	9.37	54.23	16.47
Average	2.70	2.51	0.54	0.40	0.06	0.00	2.46	0.40	0.30	1.75	0.53
Perryville Flow		0.30		AD (MG)							

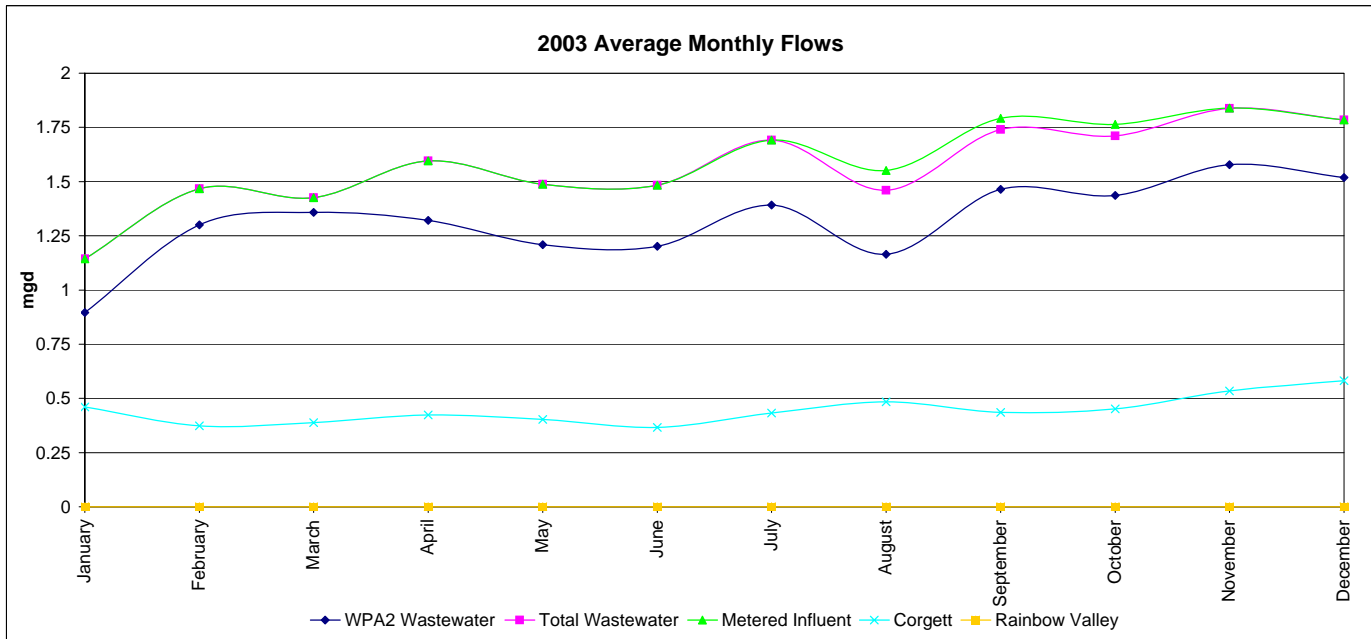
WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Crane Superfund Site MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
11/1/2004	2.933	2.431	0.701	0.422	0.075	0	2.356	0.371	0.31	1.677	0.690
11/2/2004	2.063	2.257	0.655	0.323	0.1	0	2.157	0.371	0.31	1.478	0.644
11/3/2004	2.207	2.118	0.578	0.334	0.05	0	2.068	0.371	0.31	1.389	0.567
11/4/2004	2.647	2.321	0.571	0.335	0.086	0	2.235	0.457	0.31	1.470	0.560
11/5/2004	2.38	2.252	0.589	0.341	0.086	0	2.166	0.457	0.31	1.401	0.578
11/6/2004	2.461	2.694	0.531	0.336	0.105	0	2.589	0.457	0.31	1.824	0.520
11/7/2004	2.451	2.06	0.584	0.366	0.047	0	2.013	0.457	0.31	1.248	0.573
11/8/2004	2.643	2.211	0.639	0.426	0.094	0	2.117	0.457	0.31	1.352	0.628
11/9/2004	2.586	2.362	0.741	0.413	0.018	0	2.344	0.457	0.31	1.579	0.730
11/10/2004	2.743	2.394	0.734	0.549	0	0	2.394	0.457	0.31	1.629	0.723
11/11/2004	1.932	2.11	0.47	0.297	0.005	0	2.105	0.341	0.31	1.456	0.459
11/12/2004	2.305	2.11	0.605	0.371	0	0	2.11	0.341	0.31	1.461	0.594
11/13/2004	2.325	2.57	0.639	0.36	0	0	2.57	0.341	0.31	1.921	0.628
11/14/2004	2.134	2.42	0.572	0.366	0	0	2.42	0.341	0.31	1.771	0.561
11/15/2004	2.164	1.96	0.68	0.455	0	0	1.96	0.341	0.31	1.311	0.669
11/16/2004	2.276	2.331	0.588	0.476	0.002	0	2.329	0.341	0.31	1.680	0.577
11/17/2004	2.502	2.368	0.621	0.366	0	0	2.368	0.341	0.31	1.719	0.610
11/18/2004	2.635	2.38	0.518	0.312	0.087	0	2.293	0.370	0.31	1.614	0.507
11/19/2004	2.253	2.182	0.612	0.349	0.114	0	2.068	0.370	0.31	1.389	0.601
11/20/2004	2.317	2.582	0.528	0.323	0.088	0	2.494	0.370	0.31	1.815	0.517
11/21/2004	2.248	2.479	0.636	0.396	0.092	0	2.387	0.370	0.31	1.708	0.625
11/22/2004	2.477	2.443	0.661	0.423	0.102	0	2.341	0.370	0.31	1.662	0.650
11/23/2004	1.931	1.757	0.627	0.374	0.124	0	1.633	0.370	0.31	0.954	0.616
11/24/2004	2.377	2.313	0.746	0.426	0.029	0	2.284	0.370	0.31	1.605	0.735
11/25/2004	2.48	2.457	0.557	0.336	0.069	0	2.388	0.161	0.31	1.919	0.546
11/26/2004	2.46	2.403	1.041	0.393	0.02	0	2.383	0.161	0.31	1.914	1.030
11/27/2004	2.921	3.196	0.663	0.377	0.055	0	3.141	0.161	0.31	2.672	0.652
11/28/2004	1.813	2.199	0.663	0.399	0.084	0	2.115	0.161	0.31	1.646	0.652
11/29/2004	2.332	2.277	0.839	0.498	0.052	0	2.225	0.161	0.31	1.756	0.828
11/30/2004	2.28	1.242	0.552	0.313	0.072	0	1.17	0.161	0.31	0.701	0.541
										1.755	0.735
Minimum	1.81	1.24	0.47	0.30	0.00	0.00	1.17	0.16	0.31	0.70	0.46
Maximum	2.93	3.20	1.04	0.55	0.12	0.00	3.14	0.46	0.31	2.67	1.03
Total	71.28	68.88	19.14	11.46	1.66	0.00	67.22	10.25	9.25	47.72	18.82
Average	2.38	2.30	0.64	0.38	0.06	0.00	2.24	0.34	0.31	1.59	0.63
Perryville Flow		0.31		AD (MG)							

2003 Average Flows							
Month	157th Ave.					Corgett	Rainbow Valley
	Metered Influent (mgd)	Waste Brine (mgd)	Influent Wastewater (mgd)	Perryville Flow (mgd)	WPA2 Wastewater (mgd)	WPA3 Influent (mgd)	WPA3 Influent (mgd)
January	1.14	0.00	1.14	0.25	0.90	0.46	N/A
February	1.47	0.00	1.47	0.17	1.30	0.37	N/A
March	1.43	0.00	1.43	0.07	1.36	0.39	N/A
April	1.60	0.00	1.60	0.27	1.32	0.42	N/A
May	1.49	0.00	1.49	0.28	1.21	0.40	N/A
June	1.48	0.00	1.48	0.28	1.20	0.37	N/A
July	1.69	0.00	1.69	0.30	1.39	0.43	N/A
August	1.55	0.09	1.46	0.30	1.16	0.48	N/A
September	1.79	0.05	1.74	0.28	1.46	0.43	N/A
October	1.76	0.05	1.71	0.27	1.44	0.45	N/A
November	1.84	0.00	1.84	0.26	1.58	0.53	N/A
December	1.79	0.00	1.79	0.27	1.52	0.58	N/A
Average	1.59	0.02	1.57	0.25	1.32	0.44	
Max Month	1.84	0.09	1.84	0.30	1.58	0.58	
MM Factor	1.16	5.53	1.17	1.20	1.20	1.31	

Notes:

1. 157th Effluent meter reading used in place of influent meter readings
2. 157th flow adjusted for the Perryville flow
3. Corgett flows are adjusted for re-circulated flows in the plant (filter backwash and digester decant)



WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	3-Day Average	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
1/1/2003	1.484	1.26	0.463	0.234	0	0	1.26	0.25	1.01		0.452
1/2/2003	1.497	1.293	0.603	0.212	0	0	1.293	0.25	1.04	0.98	0.592
1/3/2003	1.421	1.136	0.457	0.198	0	0	1.136	0.25	0.89	0.89	0.446
1/4/2003	1.327	0.981	0.64	0.279	0	0	0.981	0.25	0.73	0.82	0.629
1/5/2003	1.589	1.084	0.61	0.226	0	0	1.084	0.25	0.83	0.79	0.599
1/6/2003	1.705	1.048	0.578	0.292	0	0	1.048	0.25	0.80	0.83	0.567
1/7/2003	1.363	1.115	0.55	0.25	0	0	1.115	0.25	0.87	0.89	0.539
1/8/2003	1.525	1.259	0.654	0.554	0	0	1.259	0.25	1.01	0.88	0.643
1/9/2003	1.291	1.003	0.506	0.266	0	0	1.003	0.25	0.75	0.86	0.495
1/10/2003	1.328	1.057	0.259	0.492	0	0	1.057	0.25	0.81	0.82	0.248
1/11/2003	1.282	1.158	0.544	0.187	0	0	1.158	0.25	0.91	0.84	0.533
1/12/2003	1.552	1.059	0.524	0.227	0	0	1.059	0.25	0.81	0.90	0.513
1/13/2003	1.988	1.221	0.682	0.303	0	0	1.221	0.25	0.97	0.89	0.671
1/14/2003	1.244	1.124	0.56	0.276	0	0	1.124	0.25	0.87	0.86	0.549
1/15/2003	1.379	0.989	0.467	0.439	0	0	0.989	0.25	0.74	0.85	0.456
1/16/2003	1.371	1.178	0.478	0.476	0	0	1.178	0.25	0.93	0.87	0.467
1/17/2003	1.397	1.198	0.366	0.321	0	0	1.198	0.25	0.95	0.90	0.355
1/18/2003	1.266	1.06	0.366	0.321	0	0	1.06	0.25	0.81	0.78	0.355
1/19/2003	1.532	0.837	0.452	0.378	0	0	0.837	0.25	0.59	0.75	0.441
1/20/2003	1.619	1.113	0.529	0.382	0	0	1.113	0.25	0.86	0.83	0.518
1/21/2003	1.644	1.281	0.56	0.459	0	0	1.281	0.25	1.03	1.00	0.549
1/22/2003	1.479	1.366	0.373	0.264	0	0	1.366	0.25	1.12	1.02	0.362
1/23/2003	1.572	1.165	0.467	0.497	0	0	1.165	0.25	0.92	0.94	0.456
1/24/2003	1.524	1.027	0.35	0.297	0	0	1.027	0.25	0.78	0.87	0.339
1/25/2003	1.508	1.175	0.499	0.411	0	0	1.175	0.25	0.93	0.90	0.488
1/26/2003	1.755	1.25	0.421	0.372	0	0	1.25	0.25	1.00	1.03	0.410
1/27/2003	1.808	1.398	0.321	0.333	0	0	1.398	0.25	1.15	1.04	0.310
1/28/2003	1.557	1.216	0.358	0.341	0	0	1.216	0.25	0.97	1.09	0.347
1/29/2003	1.568	1.41	0.299	0.257	0	0	1.41	0.25	1.16	0.91	0.288
1/30/2003	1.617	0.852	0.387	0.33	0	0	0.852	0.25	0.60	0.89	0.376
1/31/2003	1.338	1.168	0.259	0.332	0	0	1.168	0.25	0.92	0.81	0.248
									0.85		0.272
Minimum	1.24	0.84	0.26	0.19	0.00	0.00	0.84	0.25	0.59	0.75	0.25
Maximum	1.99	1.41	0.68	0.55	0.00	0.00	1.41	0.25	1.16	1.09	0.67
Total	46.53	35.48	14.58	10.21	0.00	0.00	35.48	7.73	27.75	26.73	14.25
Average	1.50	1.14	0.47	0.33	0.00	0.00	1.14	0.25	0.90	0.89	0.46
Perryville Flow		0.25		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	3-Day Average	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
3/1/2003	1.438	1.769	0.3	0.403	0	0	1.769	0.07	1.70		0.289
3/2/2003	1.747	1.721	0.44	0.459	0	0	1.721	0.07	1.65	1.60	0.429
3/3/2003	1.912	1.504	0.425	0.435	0	0	1.504	0.07	1.44	1.49	0.414
3/4/2003	1.624	1.448	0.308	0.408	0	0	1.448	0.07	1.38	1.39	0.297
3/5/2003	1.741	1.421	0.278	0.296	0	0	1.421	0.07	1.35	1.36	0.267
3/6/2003	1.818	1.408	0.37	0.479	0	0	1.408	0.07	1.34	1.26	0.359
3/7/2003	1.614	1.171	0.319	0.411	0	0	1.171	0.07	1.10	1.13	0.308
3/8/2003	1.234	1.014	0.369	0.35	0	0	1.014	0.07	0.95	1.08	0.358
3/9/2003	1.616	1.251	0.445	0.415	0	0	1.251	0.07	1.18	1.20	0.434
3/10/2003	1.717	1.551	0.511	0.475	0	0	1.551	0.07	1.48	1.22	0.500
3/11/2003	1.225	1.076	0.307	0.38	0	0	1.076	0.07	1.01	1.26	0.296
3/12/2003	1.577	1.345	0.403	0.516	0	0	1.345	0.07	1.28	1.06	0.392
3/13/2003	1.385	0.968	0.549	0.386	0	0	0.968	0.07	0.90	1.09	0.538
3/14/2003	1.217	1.175	0.329	0.433	0	0	1.175	0.07	1.11	1.04	0.318
3/15/2003	1.217	1.175	0.29	0.39	0	0	1.175	0.07	1.11	1.17	0.279
3/16/2003	1.56	1.366	0.502	0.506	0	0	1.366	0.07	1.30	1.26	0.491
3/17/2003	1.661	1.453	0.347	0.371	0	0	1.453	0.07	1.38	1.33	0.336
3/18/2003	1.594	1.364	0.369	0.423	0	0	1.364	0.07	1.30	1.32	0.358
3/19/2003	1.594	1.364	0.383	0.435	0	0	1.364	0.07	1.30	1.31	0.372
3/20/2003	1.844	1.423	0.428	0.439	0	0	1.423	0.07	1.35	1.36	0.417
3/21/2003	1.718	1.513	0.338	0.417	0	0	1.513	0.07	1.44	1.49	0.327
3/22/2003	1.569	1.732	0.381	0.4	0	0	1.732	0.07	1.66	1.56	0.370
3/23/2003	1.811	1.637	0.534	0.495	0	0	1.637	0.07	1.57	1.54	0.523
3/24/2003	1.626	1.455	0.423	0.377	0	0	1.455	0.07	1.39	1.53	0.412
3/25/2003	1.728	1.717	0.469	0.458	0	0	1.717	0.07	1.65	1.49	0.458
3/26/2003	1.864	1.492	0.345	0.34	0	0	1.492	0.07	1.42	1.53	0.334
3/27/2003	1.661	1.578	0.396	0.377	0	0	1.578	0.07	1.51	1.42	0.385
3/28/2003	1.637	1.407	0.456	0.327	0	0	1.407	0.07	1.34	1.45	0.445
3/29/2003	1.582	1.565	0.547	0.532	0	0	1.565	0.07	1.50	1.44	0.536
3/30/2003	1.856	1.551	0.303	0.292	0	0	1.551	0.07	1.48	1.51	0.292
3/31/2003	1.886	1.607	0.492	0.38	0	0	1.607	0.07	1.54	1.45	0.481
Minimum	1.22	0.97	0.28	0.29	0.00	0.00	0.97	0.07	0.90	1.04	0.27
Maximum	1.91	1.77	0.55	0.53	0.00	0.00	1.77	0.07	1.70	1.60	0.54
Total	50.27	44.22	12.36	12.81	0.00	0.00	44.22	2.13	42.09	40.33	12.03
Average	1.62	1.43	0.40	0.41	0.00	0.00	1.43	0.07	1.36	1.34	0.39
Perryville Flow		0.07		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	3-Day Average	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
5/1/2003	1.692	1.556	0.572	0.375	0	0	1.556	0.28	1.28		0.561
5/2/2003	1.704	1.58	0.424	0.278	0	0	1.58	0.28	1.30	1.27	0.413
5/3/2003	1.493	1.505	0.27	0.177	0	0	1.505	0.28	1.23	1.31	0.259
5/4/2003	1.815	1.68	0.474	0.322	0	0	1.68	0.28	1.40	1.37	0.463
5/5/2003	1.898	1.752	0.503	0.314	0	0	1.752	0.28	1.47	1.51	0.492
5/6/2003	1.798	1.948	0.372	0.186	0	0	1.948	0.28	1.67	1.49	0.361
5/7/2003	1.621	1.614	0.358	0.326	0	0	1.614	0.28	1.33	1.44	0.347
5/8/2003	1.698	1.586	0.478	0.305	0	0	1.586	0.28	1.31	1.32	0.467
5/9/2003	1.6	1.585	0.434	0.325	0	0	1.585	0.28	1.31	1.36	0.423
5/10/2003	1.658	1.745	0.258	0.205	0	0	1.745	0.28	1.47	1.34	0.247
5/11/2003	1.935	1.527	0.438	0.229	0	0	1.527	0.28	1.25	1.38	0.427
5/12/2003	1.815	1.71	0.445	0.299	0	0	1.71	0.28	1.43	1.32	0.434
5/13/2003	1.574	1.558	0.484	0.294	0	0	1.558	0.28	1.28	1.29	0.473
5/14/2003	1.994	1.434	0.45	0.297	0	0	1.434	0.28	1.15	1.23	0.439
5/15/2003	1.748	1.547	0.345	0.231	0	0	1.547	0.28	1.27	1.27	0.334
5/16/2003	1.702	1.655	0.477	0.316	0	0	1.655	0.28	1.38	1.29	0.466
5/17/2003	1.804	1.492	0.479	0.291	0	0	1.492	0.28	1.21	1.23	0.468
5/18/2003	1.53	1.38	0.307	0.256	0	0	1.38	0.28	1.10	1.22	0.296
5/19/2003	1.705	1.621	0.46	0.343	0	0	1.621	0.28	1.34	1.22	0.449
5/20/2003	1.663	1.504	0.491	0.323	0	0	1.504	0.28	1.22	1.34	0.480
5/21/2003	1.447	1.727	0.411	0.253	0	0	1.727	0.28	1.45	1.12	0.400
5/22/2003	1.479	0.97	0.369	0.245	0	0	0.97	0.28	0.69	1.11	0.358
5/23/2003	1.345	1.467	0.442	0.288	0	0	1.467	0.28	1.19	0.94	0.431
5/24/2003	1.26	1.235	0.384	0.271	0	0	1.235	0.28	0.96	1.03	0.373
5/25/2003	1.237	1.236	0.302	0.243	0	0	1.236	0.28	0.96	0.94	0.291
5/26/2003	1.279	1.178	0.512	0.307	0	0	1.178	0.28	0.90	1.05	0.501
5/27/2003	1.676	1.572	0.617	0.365	0	0	1.572	0.28	1.29	0.97	0.606
5/28/2003	1.061	1.008	0.323	0.229	0	0	1.008	0.28	0.73	1.00	0.312
5/29/2003	1.596	1.265	0.289	0.254	0	0	1.265	0.28	0.99	0.92	0.278
5/30/2003	1.422	1.337	0.329	0.253	0	0	1.337	0.28	1.06	0.97	0.318
5/31/2003	1.197	1.155	0.331	0.268	0	0	1.155	0.28	0.88	1.01	0.320
Minimum	1.06	0.97	0.26	0.18	0.00	0.00	0.97	0.28	0.69	0.92	0.25
Maximum	1.99	1.95	0.62	0.38	0.00	0.00	1.95	0.28	1.67	1.51	0.61
Total	49.45	46.13	12.83	8.67	0.00	0.00	46.13	8.65	37.48	36.27	12.50
Average	1.60	1.49	0.41	0.28	0.00	0.00	1.49	0.28	1.21	1.21	0.40
Perryville Flow		0.28		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	3-Day Average	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
7/1/2003	1.379	1.268	0.35	0.222	0	0	1.268	0.30	0.97		0.339
7/2/2003	1.375	1.439	0.368	0.243	0	0	1.439	0.30	1.14	1.14	0.357
7/3/2003	1.945	1.608	0.382	0.243	0	0	1.608	0.30	1.31	1.27	0.371
7/4/2003	1.896	1.66	0.418	0.262	0	0	1.66	0.30	1.36	1.30	0.407
7/5/2003	1.84	1.525	0.457	0.277	0	0	1.525	0.30	1.23	1.64	0.446
7/6/2003	1.954	2.641	0.473	0.285	0	0	2.641	0.30	2.34	1.68	0.462
7/7/2003	2.107	1.784	0.424	0.288	0	0	1.784	0.30	1.48	1.77	0.413
7/8/2003	1.029	1.773	0.344	0.242	0	0	1.773	0.30	1.47	1.40	0.333
7/9/2003	1.832	1.547	0.36	0.245	0	0	1.547	0.30	1.25	1.44	0.349
7/10/2003	2.072	1.887	0.296	0.195	0	0	1.887	0.30	1.59	1.39	0.285
7/11/2003	2.088	1.643	0.407	0.279	0	0	1.643	0.30	1.34	1.37	0.396
7/12/2003	1.852	1.475	0.472	0.279	0	0	1.475	0.30	1.18	1.30	0.461
7/13/2003	2.186	1.669	0.52	0.302	0	0	1.669	0.30	1.37	1.39	0.509
7/14/2003	2.388	1.915	0.636	0.363	0	0	1.915	0.30	1.62	1.46	0.625
7/15/2003	1.76	1.683	0.261	0.172	0	0	1.683	0.30	1.38	1.44	0.250
7/16/2003	2.151	1.633	0.337	0.266	0	0	1.633	0.30	1.33	1.37	0.326
7/17/2003	0.656	1.693	0.422	0.25	0	0	1.693	0.30	1.39	1.48	0.411
7/18/2003	1.934	2.004	0.472	0.284	0	0	2.004	0.30	1.70	1.46	0.461
7/19/2003	1.737	1.584	0.411	0.256	0	0	1.584	0.30	1.28	1.45	0.400
7/20/2003	2.053	1.651	0.567	0.34	0	0	1.651	0.30	1.35	1.37	0.556
7/21/2003	2.146	1.772	0.563	0.275	0	0	1.772	0.30	1.47	1.38	0.552
7/22/2003	1.877	1.611	0.495	0.306	0	0	1.611	0.30	1.31	1.48	0.484
7/23/2003	2.097	1.946	0.406	0.242	0	0	1.946	0.30	1.65	1.48	0.395
7/24/2003	1.853	1.77	0.609	0.347	0	0	1.77	0.30	1.47	1.53	0.598
7/25/2003	1.908	1.783	0.603	0.338	0	0	1.783	0.30	1.48	1.51	0.592
7/26/2003	1.737	1.878	0.389	0.231	0	0	1.878	0.30	1.58	1.45	0.378
7/27/2003	1.743	1.583	0.55	0.358	0	0	1.583	0.30	1.28	1.42	0.539
7/28/2003	1.955	1.705	0.515	0.268	0	0	1.705	0.30	1.41	1.36	0.504
7/29/2003	1.906	1.694	0.467	0.382	0	0	1.694	0.30	1.39	1.34	0.456
7/30/2003	1.98	1.511	0.246	0.165	0	0	1.511	0.30	1.21	1.14	0.235
7/31/2003	1.775	1.107	0.515	0.329	0	0	1.107	0.30	0.81	1.01	0.504
Minimum	0.66	1.11	0.25	0.17	0.00	0.00	1.11	0.30	0.81	1.01	0.24
Maximum	2.39	2.64	0.64	0.38	0.00	0.00	2.64	0.30	2.34	1.77	0.63
Total	57.21	52.44	13.74	8.53	0.00	0.00	52.44	9.28	43.17	42.20	13.41
Average	1.85	1.69	0.44	0.28	0.00	0.00	1.69	0.30	1.39	1.41	0.43
Perryville Flow		0.30		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	3-Day Average	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
8/1/2003	2.075	1.392	0.387	0.28	0.1	0	1.292	0.30	1.00		0.376
8/2/2003	1.574	1.4	0.379	0.302	0.125	0	1.275	0.30	0.98	1.41	0.368
8/3/2003	1.932	2.684	0.496	0.332	0.144	0	2.54	0.30	2.24	1.86	0.485
8/4/2003	2.184	2.794	0.87	0.25	0.141	0	2.653	0.30	2.36	1.90	0.859
8/5/2003	1.634	1.546	0.424	0.281	0.141	0	1.405	0.30	1.11	1.45	0.413
8/6/2003	1.678	1.333	0.517	0.327	0.15	0	1.183	0.30	0.89	1.13	0.506
8/7/2003	2.517	1.82	0.429	0.263	0.13	0	1.69	0.30	1.39	1.10	0.418
8/8/2003	1.701	1.463	0.639	0.369	0.151	0	1.312	0.30	1.02	1.21	0.628
8/9/2003	1.653	1.52	0.466	0.295	0.01	0	1.51	0.30	1.21	1.22	0.455
8/10/2003	1.917	1.723	0.591	0.343	0	0	1.723	0.30	1.43	1.34	0.580
8/11/2003	2.317	1.68	0.389	0.386	0	0	1.68	0.30	1.38	1.31	0.378
8/12/2003	1.878	1.404	0.589	0.345	0	0	1.404	0.30	1.11	1.20	0.578
8/13/2003	2.166	1.512	0.52	0.311	0.11	0	1.402	0.30	1.11	1.08	0.509
8/14/2003	2.205	1.446	0.4	0.249	0.125	0	1.321	0.30	1.03	0.97	0.389
8/15/2003	2.185	1.208	0.604	0.513	0.144	0	1.064	0.30	0.77	0.99	0.593
8/16/2003	1.91	1.56	0.458	0.313	0.076	0	1.484	0.30	1.19	1.12	0.447
8/17/2003	2.33	1.798	0.53	0.42	0.105	0	1.693	0.30	1.40	1.41	0.519
8/18/2003	2.234	1.981	0.513	0.396	0.054	0	1.927	0.30	1.63	1.40	0.502
8/19/2003	1.981	1.554	0.513	0.396	0.099	0	1.455	0.30	1.16	1.24	0.502
8/20/2003	1.729	1.212	0.672	0.428	0.002	0	1.21	0.30	0.91	1.01	0.661
8/21/2003	1.677	1.33	0.524	0.338	0.074	0	1.256	0.30	0.96	0.99	0.513
8/22/2003	1.765	1.478	0.489	0.382	0.102	0	1.376	0.30	1.08	0.92	0.478
8/23/2003	1.477	1.152	0.344	0.31	0.142	0	1.01	0.30	0.71	0.87	0.333
8/24/2003	1.833	1.25	0.444	0.318	0.149	0	1.101	0.30	0.81	0.83	0.433
8/25/2003	1.813	1.392	0.698	0.378	0.128	0	1.264	0.30	0.97	0.91	0.687
8/26/2003	1.646	1.261	0.457	0.367	0.016	0	1.245	0.30	0.95	0.91	0.446
8/27/2003	1.319	1.1	0.453	0.327	0	0	1.1	0.30	0.80	0.87	0.442
8/28/2003	1.743	1.283	0.448	0.497	0.147	0	1.136	0.30	0.84	0.85	0.437
8/29/2003	1.466	1.354	0.337	0.266	0.147	0	1.207	0.30	0.91	0.99	0.326
8/30/2003	1.87	1.581	0.303	0.277	0.07	0	1.511	0.30	1.22	1.21	0.292
8/31/2003	2.096	1.872	0.475	0.377	0.068	0	1.804	0.30	1.51	1.56	0.464
Minimum	1.32	1.10	0.30	0.25	0.00	0.00	1.01	0.30	0.71	0.83	0.29
Maximum	2.52	2.79	0.87	0.51	0.15	0.00	2.65	0.30	2.36	1.90	0.86
Total	58.51	48.08	15.36	10.64	2.85	0.00	45.23	9.15	36.08	35.24	15.03
Average	1.89	1.55	0.50	0.34	0.09	0.00	1.46	0.30	1.16	1.17	0.48
Perryville Flow		0.30		AD (MG)							

WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	3-Day Average	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
10/1/2003	2.124	1.953	0.412	0.255	0.051	0	1.902	0.27	1.63		0.401
10/2/2003	2.094	1.928	0.346	0.24	0.066	0	1.862	0.27	1.59	1.62	0.335
10/3/2003	2.124	1.966	0.389	0.277	0.054	0	1.912	0.27	1.64	1.35	0.378
10/4/2003	1.547	1.188	0.558	0.342	0.092	0	1.096	0.27	0.82	1.37	0.547
10/5/2003	2.166	1.995	0.44	0.309	0.054	0	1.941	0.27	1.67	1.38	0.429
10/6/2003	2.124	1.966	0.685	0.411	0.052	0	1.914	0.27	1.64	1.68	0.674
10/7/2003	2.157	2.082	0.303	0.189	0.07	0	2.012	0.27	1.74	1.47	0.292
10/8/2003	1.69	1.383	0.439	0.329	0.06	0	1.323	0.27	1.05	1.43	0.428
10/9/2003	2.102	1.856	0.44	0.299	0.081	0	1.775	0.27	1.50	1.26	0.429
10/10/2003	1.853	1.556	0.463	0.319	0.037	0	1.519	0.27	1.24	1.49	0.452
10/11/2003	1.719	2.051	0.539	0.377	0.047	0	2.004	0.27	1.73	1.80	0.528
10/12/2003	2.055	2.76	0.562	0.403	0.055	0	2.705	0.27	2.43	1.94	0.551
10/13/2003	2.159	2.011	0.606	0.422	0.079	0	1.932	0.27	1.66	1.88	0.595
10/14/2003	2.153	1.883	0.421	0.271	0.044	0	1.839	0.27	1.56	1.47	0.410
10/15/2003	1.774	1.524	0.465	0.323	0.069	0	1.455	0.27	1.18	1.49	0.454
10/16/2003	1.936	2.066	0.412	0.293	0.072	0	1.994	0.27	1.72	1.25	0.401
10/17/2003	1.847	1.185	0.431	0.308	0.05	0	1.135	0.27	0.86	1.52	0.420
10/18/2003	1.855	2.317	0.352	0.286	0.063	0	2.254	0.27	1.98	1.70	0.341
10/19/2003	2.112	2.606	0.611	0.41	0.066	0	2.54	0.27	2.27	1.57	0.600
10/20/2003	2.216	0.816	0.553	0.373	0.063	0	0.753	0.27	0.48	0.80	0.542
10/21/2003	2.091	0.026	0.418	0.285	0.105	0	-0.079	0.27	-0.35	-0.05	0.407
10/22/2003	1.983	0.04	0.429	0.304	0.031	0	0.009	0.27	-0.27	0.41	0.418
10/23/2003	2.075	2.144	0.37	0.288	0.031	0	2.113	0.27	1.84	1.08	0.359
10/24/2003	2.004	2	0.371	0.288	0.068	0	1.932	0.27	1.66	2.06	0.360
10/25/2003	2.03	3.029	0.523	0.337	0.064	0	2.965	0.27	2.69	1.99	0.512
10/26/2003	2.135	2.002	0.479	0.337	0.093	0	1.909	0.27	1.63	1.81	0.468
10/27/2003	1.954	1.419	0.626	0.41	0.045	0	1.374	0.27	1.10	1.37	0.615
10/28/2003	1.678	1.654	0.458	0.327	0.003	0	1.651	0.27	1.38	1.30	0.447
10/29/2003	2.003	1.706	0.358	0.242	0	0	1.706	0.27	1.43	1.48	0.347
10/30/2003	2.048	1.895	0.477	0.356	0	0	1.895	0.27	1.62	1.49	0.466
10/31/2003	1.651	1.682	0.406	0.311	0	0	1.682	0.27	1.41	1.64	0.395
Minimum	1.55	0.03	0.30	0.19	0.00	0.00	-0.08	0.27	-0.35	-0.05	0.29
Maximum	2.22	3.03	0.69	0.42	0.11	0.00	2.97	0.27	2.69	2.06	0.67
Total	61.46	54.69	14.34	9.92	1.67	0.00	53.02	8.52	44.51	43.05	14.01
Average	1.98	1.76	0.46	0.32	0.05	0.00	1.71	0.27	1.44	1.44	0.45
Perryville Flow		0.27		AD (MG)							

WRF MONTHLY FLOWS

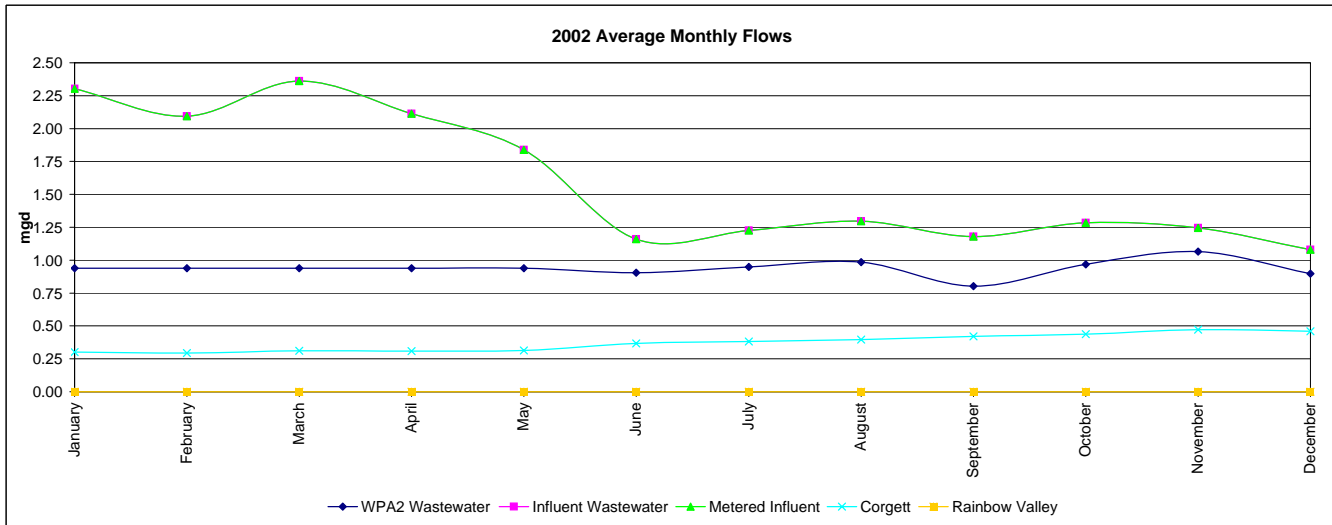
Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	3-Day Average	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
11/1/2003	1.922	2.141	0.404	0.34	0	0	2.141	0.26	1.88		0.393
11/2/2003	1.797	2.393	0.603	0.424	0	0	2.393	0.26	2.13	1.98	0.592
11/3/2003	1.997	2.193	0.625	0.421	0	0	2.193	0.26	1.93	1.81	0.614
11/4/2003	1.761	1.62	0.512	0.349	0	0	1.62	0.26	1.36	1.62	0.501
11/5/2003	1.835	1.828	0.386	0.298	0	0	1.828	0.26	1.57	1.43	0.375
11/6/2003	1.742	1.619	0.459	0.305	0	0	1.619	0.26	1.36	1.60	0.448
11/7/2003	2.298	2.14	0.502	0.339	0	0	2.14	0.26	1.88	1.78	0.491
11/8/2003	1.589	2.349	0.444	0.345	0	0	2.349	0.26	2.09	2.10	0.433
11/9/2003	1.931	2.592	0.499	0.343	0	0	2.592	0.26	2.33	2.08	0.488
11/10/2003	2.408	2.079	0.696	0.437	0	0	2.079	0.26	1.82	1.78	0.685
11/11/2003	1.361	1.452	0.539	0.362	0.004	0	1.448	0.26	1.19	1.58	0.528
11/12/2003	2.554	2.025	0.442	0.3	0.028	0	1.997	0.26	1.74	1.31	0.431
11/13/2003	1.96	1.278	0.597	0.356	0.02	0	1.258	0.26	1.00	1.31	0.586
11/14/2003	1.581	1.455	0.473	0.337	0.014	0	1.441	0.26	1.18	1.33	0.462
11/15/2003	1.778	2.062	0.511	0.351	0	0	2.062	0.26	1.80	1.55	0.500
11/16/2003	1.95	1.933	0.636	0.424	0	0	1.933	0.26	1.67	1.73	0.625
11/17/2003	2.212	1.982	0.547	0.39	0	0	1.982	0.26	1.72	1.57	0.536
11/18/2003	1.829	1.569	0.488	0.342	0	0	1.569	0.26	1.31	1.34	0.477
11/19/2003	2.266	1.247	0.664	0.389	0	0	1.247	0.26	0.99	1.18	0.653
11/20/2003	1.591	1.515	0.446	0.28	0	0	1.515	0.26	1.26	1.27	0.435
11/21/2003	1.89	1.815	0.639	0.397	0	0	1.815	0.26	1.56	1.40	0.628
11/22/2003	1.769	1.641	0.489	0.306	0	0	1.641	0.26	1.38	1.79	0.478
11/23/2003	1.82	2.697	0.622	0.408	0.003	0	2.694	0.26	2.43	1.81	0.611
11/24/2003	2.136	1.882	0.601	0.036	0	0	1.882	0.26	1.62	1.81	0.590
11/25/2003	1.595	1.625	0.53	0.35	0	0	1.625	0.26	1.37	1.46	0.519
11/26/2003	2.145	1.664	0.586	0.244	0	0	1.664	0.26	1.40	1.55	0.575
11/27/2003	1.929	2.131	0.534	0.338	0	0	2.131	0.26	1.87	1.30	0.523
11/28/2003	1.692	0.892	0.594	0.472	0	0	0.892	0.26	0.63	1.27	0.583
11/29/2003	1.755	1.552	0.621	0.397	0	0	1.552	0.26	1.29	1.16	0.610
11/30/2003	1.889	1.823	0.666	0.395	0	0	1.823	0.26	1.56	1.49	0.655
									1.87		0.555
Minimum	1.36	0.89	0.39	0.04	0.00	0.00	0.89	0.26	0.63	1.16	0.38
Maximum	2.55	2.70	0.70	0.47	0.03	0.00	2.69	0.26	2.43	2.10	0.69
Total	56.98	55.19	16.36	10.47	0.07	0.00	55.13	7.79	47.33	45.38	16.04
Average	1.90	1.84	0.55	0.35	0.00	0.00	1.84	0.26	1.58	1.56	0.53
Perryville Flow		0.26		AD (MG)							

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	WPA2 Wastewater MGD	3-Day Average	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
12/1/2003	2.006	1.881	0.569	0.371	0	0	1.881	0.27	1.61		0.558
12/2/2003	2.052	1.811	0.662	0.358	0	0	1.811	0.27	1.54	1.75	0.651
12/3/2003	2.081	2.356	0.572	0.312	0	0	2.356	0.27	2.09	1.59	0.561
12/4/2003	1.423	1.413	0.602	0.331	0	0	1.413	0.27	1.15	1.50	0.591
12/5/2003	1.493	1.526	0.538	0.313	0	0	1.526	0.27	1.26	1.30	0.527
12/6/2003	1.839	1.759	0.529	0.324	0	0	1.759	0.27	1.49	1.47	0.518
12/7/2003	2.071	1.912	0.695	0.426	0	0	1.912	0.27	1.65	1.62	0.684
12/8/2003	2.271	2.001	0.568	0.378	0	0	2.001	0.27	1.73	1.55	0.557
12/9/2003	1.737	1.523	0.505	0.295	0	0	1.523	0.27	1.26	1.46	0.494
12/10/2003	1.723	1.643	0.56	0.311	0	0	1.643	0.27	1.38	1.36	0.549
12/11/2003	1.939	1.711	0.615	0.332	0	0	1.711	0.27	1.44	1.41	0.604
12/12/2003	2.491	1.667	0.573	0.343	0	0	1.667	0.27	1.40	1.47	0.562
12/13/2003	2.046	1.837	0.456	0.271	0	0	1.837	0.27	1.57	1.44	0.445
12/14/2003	1.759	1.603	0.597	0.381	0	0	1.603	0.27	1.34	1.55	0.586
12/15/2003	2.171	2.019	0.656	0.406	0	0	2.019	0.27	1.75	1.56	0.645
12/16/2003	2.44	1.846	0.598	0.316	0	0	1.846	0.27	1.58	1.48	0.587
12/17/2003	1.385	1.36	0.548	0.351	0	0	1.36	0.27	1.09	1.50	0.537
12/18/2003	2.217	2.089	0.633	0.348	0	0	2.089	0.27	1.82	1.43	0.622
12/19/2003	1.806	1.644	0.541	0.321	0	0	1.644	0.27	1.38	1.59	0.530
12/20/2003	1.863	1.849	0.514	0.334	0	0	1.849	0.27	1.58	1.56	0.503
12/21/2003	2.13	1.98	0.618	0.387	0	0	1.98	0.27	1.71	1.63	0.607
12/22/2003	2.178	1.873	0.591	0.383	0	0	1.873	0.27	1.61	1.63	0.580
12/23/2003	1.946	1.84	0.597	0.348	0	0	1.84	0.27	1.57	1.54	0.586
12/24/2003	1.815	1.7	0.634	0.362	0	0	1.7	0.27	1.43	1.49	0.623
12/25/2003	1.772	1.739	0.564	0.354	0	0	1.739	0.27	1.47	1.45	0.553
12/26/2003	2.01	1.72	0.535	0.087	0	0	1.72	0.27	1.45	1.44	0.524
12/27/2003	1.749	1.669	0.719	0.346			1.669	0.27	1.40	1.48	0.708
12/28/2003	2.131	1.852	0.635	0.385			1.852	0.27	1.59	1.57	0.624
12/29/2003	2.067	1.985	0.634	0.389			1.985	0.27	1.72	1.63	0.623
12/30/2003	1.931	1.848	0.621	0.346			1.848	0.27	1.58	1.57	0.610
12/31/2003	2.074	1.679	0.671				1.679	0.27	1.41	1.50	0.660
Minimum	1.39	1.36	0.46	0.09	0.00	0.00	1.36	0.27	1.09	1.30	0.45
Maximum	2.49	2.36	0.72	0.43	0.00	0.00	2.36	0.27	2.09	1.75	0.71
Total	60.62	55.34	18.35	10.57	0.00	0.00	55.34	8.25	47.08	45.52	18.02
Average	1.96	1.79	0.59	0.34	0.00	0.00	1.79	0.27	1.52	1.52	0.58
Perryville Flow		0.27		AD (MG)							

2002 Average Flows								
Month	157th Ave.						Corgett	Rainbow Valley
	Metered Influent (mgd)	Waste Brine (mgd)	Influent Wastewater (mgd)	Perryville Flow (mgd)	LPSCO Flow (mgd)	WPA2 Wastewater (mgd)	WPA3 Influent (mgd)	WPA3 Influent (mgd)
January	2.30	0.00	2.30	0.24	1.13	0.94	0.30	N/A
February	2.09	0.00	2.09	0.25	0.90	0.94	0.29	N/A
March	2.36	0.00	2.36	0.24	1.18	0.94	0.31	N/A
April	2.11	0.00	2.11	0.26	0.91	0.94	0.31	N/A
May	1.84	0.00	1.84	0.23	0.67	0.94	0.31	N/A
June	1.16	0.00	1.16	0.25		0.90	0.37	N/A
July	1.23	0.00	1.23	0.28		0.95	0.38	N/A
August	1.30	0.00	1.30	0.31		0.99	0.40	N/A
September	1.18	0.00	1.18	0.38		0.80	0.42	N/A
October	1.28	0.00	1.28	0.32		0.97	0.44	N/A
November	1.25	0.00	1.25	0.18		1.07	0.47	N/A
December	1.08	0.00	1.08	0.18		0.90	0.46	N/A
Average	1.60	0.00	1.60	0.26	0.40	0.94	0.37	
Max Month	2.36	0.00	2.36	0.38	1.18	1.07	0.47	
MM Factor	1.48	0.00	1.48	1.45	2.96	1.14	1.27	

Notes:

1. 157th Effluent meter reading used in place of influent meter readings
2. 157th flow adjusted for the Perryville and LPSCO flows
3. Corgett flows are adjusted for re-circulated flows in the plant (filter backwash and digester decant)



WRF MONTHLY FLOWS

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	LPSCO MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
1/1/2002	1.79	2.141	0.272	0.184	0	0	2.141	1.13	0.24	0.78	0.261
1/2/2002	1.79	2.186	0.362	0.242	0	0	2.186	1.13	0.24	0.82	0.351
1/3/2002	1.79	2.264	0.357	0.24	0	0	2.264	1.13	0.24	0.90	0.346
1/4/2002	1.79	2.271	0.304	0.22	0	0	2.271	1.13	0.24	0.91	0.293
1/5/2002	1.79	2.201	0.302	0.196	0	0	2.201	1.13	0.24	0.84	0.291
1/6/2002	1.79	2.391	0.34	0.234	0	0	2.391	1.13	0.24	1.03	0.329
1/7/2002	1.79	2.482	0.374	0.367	0	0	2.482	1.13	0.24	1.12	0.363
1/8/2002	1.79	2.503	0.272	0.184	0	0	2.503	1.13	0.24	1.14	0.261
1/9/2002	1.79	2.244	0.264	0.177	0	0	2.244	1.13	0.24	0.88	0.253
1/10/2002	1.79	2.431	0.279	0.192	0	0	2.431	1.13	0.24	1.07	0.268
1/11/2002	1.79	2.086	0.278	0.191	0	0	2.086	1.13	0.24	0.72	0.267
1/12/2002	1.79	2.369	0.285	0.171	0	0	2.369	1.13	0.24	1.01	0.274
1/13/2002	1.79	2.375	0.332	0.225	0	0	2.375	1.13	0.24	1.01	0.321
1/14/2002	1.79	2.579	0.353	0.242	0	0	2.579	1.13	0.24	1.22	0.342
1/15/2002	1.79	2.297	0.275	0.188	0	0	2.297	1.13	0.24	0.93	0.264
1/16/2002	1.79	2.297	0.287	0.196	0	0	2.297	1.13	0.24	0.93	0.276
1/17/2002	1.79	2.28	0.283	0.207	0	0	2.28	1.13	0.24	0.92	0.272
1/18/2002	1.79	2.238	0.48	0.287	0	0	2.238	1.13	0.24	0.87	0.469
1/19/2002	1.79	2.212	0.314	0.275	0	0	2.212	1.13	0.24	0.85	0.303
1/20/2002	1.79	2.148	0.277	0.254	0	0	2.148	1.13	0.24	0.78	0.266
1/21/2002	1.79	2.467	0.386	0.333	0	0	2.467	1.13	0.24	1.10	0.375
1/22/2002	1.79	1.82	0.309	0.254	0	0	1.82	1.13	0.24	0.46	0.298
1/23/2002	1.79	2.496	0.27	0.264	0	0	2.496	1.13	0.24	1.13	0.259
1/24/2002	1.79	2.297	0.293	0.256	0	0	2.297	1.13	0.24	0.93	0.282
1/25/2002	1.79	2.269	0.288	0.265	0	0	2.269	1.13	0.24	0.91	0.277
1/26/2002	1.79	2.329	0.309	0.256	0	0	2.329	1.13	0.24	0.97	0.298
1/27/2002	1.79	2.198	0.351	0.297	0	0	2.198	1.13	0.24	0.83	0.340
1/28/2002	1.79	2.435	0.338	0.315	0	0	2.435	1.13	0.24	1.07	0.327
1/29/2002	1.79	2.377	0.278	0.264	0	0	2.377	1.13	0.24	1.01	0.267
1/30/2002	1.79	2.347	0.276	0.27	0	0	2.347	1.13	0.24	0.98	0.265
1/31/2002	1.79	2.335	0.27	0.253	0	0	2.335	1.13	0.24	0.97	0.259
Minimum	1.79	1.82	0.26	0.17	0.00	0.00	1.82	1.13	0.24	0.46	0.25
Maximum	1.79	2.58	0.48	0.37	0.00	0.00	2.58	1.13	0.24	1.22	0.47
Total	55.51	71.37	9.66	7.50	0.00	0.00	71.37	34.96	7.30	29.11	9.33
Average	1.79	2.30	0.31	0.24	0.00	0.00	2.30	1.13	0.24	0.94	0.30
Perryville Flow		0.24		AD (MG)							

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	LPSCO MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
2/1/2002	1.79	2.395	0.313	0.272	0	0	2.40	0.90	0.25	1.24	0.302
2/2/2002	1.79	2.136	0.287	0.288	0	0	2.14	0.90	0.25	0.98	0.276
2/3/2002	1.79	2.353	0.36	0.288	0	0	2.35	0.90	0.25	1.20	0.349
2/4/2002	1.79	2.353	0.345	0.311	0	0	2.35	0.90	0.25	1.20	0.334
2/5/2002	1.79	2.44	0.269	0.256	0	0	2.44	0.90	0.25	1.29	0.258
2/6/2002	1.79	2.358	0.291	0.257	0	0	2.36	0.90	0.25	1.20	0.280
2/7/2002	1.79	2.367	0.282	0.26	0	0	2.37	0.90	0.25	1.21	0.271
2/8/2002	1.79	2.292	0.277	0.251	0	0	2.29	0.90	0.25	1.14	0.266
2/9/2002	1.79	2.315	0.301	0.261	0	0	2.32	0.90	0.25	1.16	0.290
2/10/2002	1.79	2.452	0.324	0.288	0	0	2.45	0.90	0.25	1.30	0.313
2/11/2002	1.79	2.571	0.373	0.323	0	0	2.57	0.90	0.25	1.42	0.362
2/12/2002	1.79	2.407	0.276	0.255	0	0	2.41	0.90	0.25	1.25	0.265
2/13/2002	1.79	2.358	0.276	0.249	0	0	2.36	0.90	0.25	1.20	0.265
2/14/2002	1.79	1.732	0.29	0.271	0	0	1.73	0.90	0.25	0.58	0.279
2/15/2002	1.79	1.976	0.258	0.223	0	0	1.98	0.90	0.25	0.82	0.247
2/16/2002	1.79	2.476	0.331	0.287	0	0	2.48	0.90	0.25	1.32	0.320
2/17/2002	1.79	2.09	0.339	0.29	0	0	2.09	0.90	0.25	0.94	0.328
2/18/2002	1.79	2.09	0.341	0.308	0	0	2.09	0.90	0.25	0.94	0.330
2/19/2002	1.79	0.362	0.313	0.284	0	0	0.36	0.90	0.25	-0.79	0.302
2/20/2002	1.79	2.328	0.304	0.27	0	0	2.33	0.90	0.25	1.17	0.293
2/21/2002	1.79	2.299	0.289	0.261	0	0	2.30	0.90	0.25	1.14	0.278
2/22/2002	1.79	2.233	0.233	0.204	0	0	2.23	0.90	0.25	1.08	0.222
2/23/2002	1.79	2.09	0.349	0.299	0	0	2.09	0.90	0.25	0.94	0.338
2/24/2002	1.79	2.09	0.319	0.275	0	0	2.09	0.90	0.25	0.94	0.308
2/25/2002	1.79	0.242	0.346	0.304	0	0	0.24	0.90	0.25	-0.91	0.335
2/26/2002	1.79	2.238	0.294	0.252	0	0	2.24	0.90	0.25	1.08	0.283
2/27/2002	1.79	2.092	0.276	0.25	0	0	2.09	0.90	0.25	0.94	0.265
2/28/2002	1.79	1.456	0.269	0.246	0	0	1.46	0.90	0.25	0.30	0.258
Minimum	1.79	0.24	0.23	0.20	0.00	0.00	0.24	0.90	0.25	-0.91	0.22
Maximum	1.79	2.57	0.37	0.32	0.00	0.00	2.57	0.90	0.25	1.42	0.36
Total	50.14	58.60	8.53	7.58	0.00	0.00	58.60	25.23	7.08	26.29	8.23
Average	1.79	2.09	0.30	0.27	0.00	0.00	2.09	0.90	0.25	0.94	0.29
Perryville Flow		0.25		AD (MG)							

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	LPSCO MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
3/1/2002	1.79	2.091	0.24	0.214	0	0	2.091	1.18	0.24	0.67	0.229
3/2/2002	1.79	1.353	0.351	0.302	0	0	1.353	1.18	0.24	-0.07	0.340
3/3/2002	1.79	2.348	0.345	0.295	0	0	2.348	1.18	0.24	0.92	0.334
3/4/2002	1.79	2.813	0.357	0.307	0	0	2.813	1.18	0.24	1.39	0.346
3/5/2002	1.79	2.543	0.285	0.257	0	0	2.543	1.18	0.24	1.12	0.274
3/6/2002	1.79	2.202	0.326	0.284	0	0	2.202	1.18	0.24	0.78	0.315
3/7/2002	1.79	2.526	0.297	0.266	0	0	2.526	1.18	0.24	1.10	0.286
3/8/2002	1.79	1.921	0.225	0.216	0	0	1.921	1.18	0.24	0.50	0.214
3/9/2002	1.79	2.126	0.35	0.314	0	0	2.126	1.18	0.24	0.70	0.339
3/10/2002	1.79	2.099	0.417	0.324	0	0	2.099	1.18	0.24	0.68	0.406
3/11/2002	1.79	1.977	0.317	0.28	0	0	1.977	1.18	0.24	0.55	0.306
3/12/2002	1.79	1.964	0.284	0.263	0	0	1.964	1.18	0.24	0.54	0.273
3/13/2002	1.79	2.141	0.288	0.268	0	0	2.141	1.18	0.24	0.72	0.277
3/14/2002	1.79	2.554	0.291	0.272	0	0	2.554	1.18	0.24	1.13	0.280
3/15/2002	1.79	2.201	0.257	0.238	0	0	2.201	1.18	0.24	0.78	0.246
3/16/2002	1.79	2.302	0.342	0.299	0	0	2.302	1.18	0.24	0.88	0.331
3/17/2002	1.79	2.419	0.384	0.323	0	0	2.419	1.18	0.24	1.00	0.373
3/18/2002	1.79	2.511	0.343	0.311	0	0	2.511	1.18	0.24	1.09	0.332
3/19/2002	1.79	2.566	0.281	0.271	0	0	2.566	1.18	0.24	1.14	0.270
3/20/2002	1.79	2.665	0.303	0.283	0	0	2.665	1.18	0.24	1.24	0.292
3/21/2002	1.79	2.38	0.274	0.261	0	0	2.38	1.18	0.24	0.96	0.263
3/22/2002	1.79	2.481	0.289	0.261	0	0	2.481	1.18	0.24	1.06	0.278
3/23/2002	1.79	2.483	0.299	0.26	0	0	2.483	1.18	0.24	1.06	0.288
3/24/2002	1.79	2.815	0.382	0.337	0	0	2.815	1.18	0.24	1.39	0.371
3/25/2002	1.79	2.532	0.38	0.325	0	0	2.532	1.18	0.24	1.11	0.369
3/26/2002	1.79	2.658	0.349	0.293	0	0	2.658	1.18	0.24	1.23	0.338
3/27/2002	1.79	2.782	0.393	0.294	0	0	2.782	1.18	0.24	1.36	0.382
3/28/2002	1.79	2.51	0.33	0.288	0	0	2.51	1.18	0.24	1.09	0.319
3/29/2002	1.79	2.244	0.3	0.287	0	0	2.244	1.18	0.24	0.82	0.289
3/30/2002	1.79	2.449	0.311	0.276	0	0	2.449	1.18	0.24	1.03	0.300
3/31/2002	1.79	2.572	0.4	0.345	0	0	2.572	1.18	0.24	1.15	0.389
Minimum	1.79	1.35	0.23	0.21	0.00	0.00	1.35	1.18	0.24	-0.07	0.21
Maximum	1.79	2.82	0.42	0.35	0.00	0.00	2.82	1.18	0.24	1.39	0.41
Total	55.51	73.23	9.99	8.81	0.00	0.00	73.23	36.72	7.40	29.11	9.66
Average	1.79	2.36	0.32	0.28	0.00	0.00	2.36	1.18	0.24	0.94	0.31
Perryville Flow		0.24		AD (MG)							

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	LPSCO MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
4/1/2002	1.79	2.575	0.399	0.321	0	0	2.575	0.91	0.26	1.40	0.388
4/2/2002	1.79	2.537	0.356	0.282	0	0	2.537	0.91	0.26	1.36	0.345
4/3/2002	1.79	2.388	0.357	0.294	0	0	2.388	0.91	0.26	1.21	0.346
4/4/2002	1.79	2.835	0.307	0.28	0	0	2.835	0.91	0.26	1.66	0.296
4/5/2002	1.79	3.408	0.29	0.27	0	0	3.408	0.91	0.26	2.23	0.279
4/6/2002	1.79	2.527	0.29	0.269	0	0	2.527	0.91	0.26	1.35	0.279
4/7/2002	1.79	2.448	0.379	0.347	0	0	2.448	0.91	0.26	1.27	0.368
4/8/2002	1.79	2.2	0.362	0.319	0	0	2.2	0.91	0.26	1.03	0.351
4/9/2002	1.79	1.957	0.305	0.279	0	0	1.957	0.91	0.26	0.78	0.294
4/10/2002	1.79	1.655	0.289	0.276	0	0	1.655	0.91	0.26	0.48	0.278
4/11/2002	1.79	1.489	0.276	0.266	0	0	1.489	0.91	0.26	0.31	0.265
4/12/2002	1.79	1.226	0.304	0.289	0	0	1.226	0.91	0.26	0.05	0.293
4/13/2002	1.79	0.784	0.294	0.265	0	0	0.784	0.91	0.26	-0.39	0.283
4/14/2002	1.79	1.346	0.312	0.273	0	0	1.346	0.91	0.26	0.17	0.301
4/15/2002	1.79	1.587	0.377	0.334	0	0	1.587	0.91	0.26	0.41	0.366
4/16/2002	1.79	2.172	0.323	0.308	0	0	2.172	0.91	0.26	1.00	0.312
4/17/2002	1.79	2.011	0.273	0.253	0	0	2.011	0.91	0.26	0.84	0.262
4/18/2002	1.79	2.003	0.307	0.295	0	0	2.003	0.91	0.26	0.83	0.296
4/19/2002	1.79	2.278	0.315	0.273	0	0	2.278	0.91	0.26	1.10	0.304
4/20/2002	1.79	0.842	0.311	0.289	0	0	0.842	0.91	0.26	-0.33	0.300
4/21/2002	1.79	2.11	0.324	0.294	0	0	2.113103448	0.91	0.26	0.94	0.313
4/22/2002	1.79	1.927	0.376	0.329	0	0	1.927	0.91	0.26	0.75	0.365
4/23/2002	1.79	2.212	0.289	0.259	0	0	2.212	0.91	0.26	1.04	0.278
4/24/2002	1.79	2.144	0.286	0.267	0	0	2.144	0.91	0.26	0.97	0.275
4/25/2002	1.79	2.523	0.298	0.261	0	0	2.523	0.91	0.26	1.35	0.287
4/26/2002	1.79	2.386	0.312	0.282	0	0	2.386	0.91	0.26	1.21	0.301
4/27/2002	1.79	2.401	0.307	0.273	0	0	2.401	0.91	0.26	1.23	0.296
4/28/2002	1.79	2.616	0.364	0.325	0	0	2.616	0.91	0.26	1.44	0.353
4/29/2002	1.79	2.468	0.31	0.288	0	0	2.468	0.91	0.26	1.29	0.299
4/30/2002	1.79	2.335	0.29	0.283	0	0	2.335	0.91	0.26	1.16	0.279
Minimum	1.79	0.78	0.27	0.25	0.00	0.00	0.78	0.91	0.26	-0.39	0.26
Maximum	1.79	3.41	0.40	0.35	0.00	0.00	3.41	0.91	0.26	2.23	0.39
Total	53.72	63.39	9.58	8.64	0.00	0.00	63.39	27.37	7.85	28.17	9.26
Average	1.79	2.11	0.32	0.29	0.00	0.00	2.11	0.91	0.26	0.94	0.31
Perryville Flow		0.26		AD (MG)							

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	LPSCO MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
6/1/2002	1.072	1.23	0.34	0.101	0	0	1.23		0.25	0.98	0.329
6/2/2002	1.203	2.105	0.239	0.184	0	0	2.105		0.25	1.85	0.228
6/3/2002	1.133	0.869	0.441	0.329	0	0	0.869		0.25	0.61	0.430
6/4/2002	1.086	1.065	0.293	0.254	0	0	1.065		0.25	0.81	0.282
6/5/2002	1.178	1.265	0.531	0.374	0	0	1.265		0.25	1.01	0.520
6/6/2002	1.095	0.437	0.299	0.152	0	0	0.437		0.25	0.18	0.288
6/7/2002	1.11	1.064	0.479	0.198	0	0	1.064		0.25	0.81	0.468
6/8/2002	1.112	1.089	0.269	0.139	0	0	1.089		0.25	0.83	0.258
6/9/2002	1.181	1.751	0.348	0.166	0	0	1.751		0.25	1.50	0.337
6/10/2002	1.136	1.144	0.534	0.412	0	0	1.144		0.25	0.89	0.523
6/11/2002	1.069	1.083	0.373	0.195	0	0	1.083		0.25	0.83	0.362
6/12/2002	1.124	1.15	0.39	0.187	0	0	1.15		0.25	0.90	0.379
6/13/2002	1.142	1.152	0.487	0.237	0	0	1.152		0.25	0.90	0.476
6/14/2002	1.135	1.078	0.297	0.149	0	0	1.078		0.25	0.82	0.286
6/15/2002	1.02	1.032	0.408	0.188	0	0	1.032		0.25	0.78	0.397
6/16/2002	1.136	1.166	0.313	0.271	0	0	1.166		0.25	0.91	0.302
6/17/2002	1.19	1.159	0.316	0.295	0	0	1.159		0.25	0.90	0.305
6/18/2002	1.121	1.122	0.432	0.182	0	0	1.122		0.25	0.87	0.421
6/19/2002	1.129	0.993	0.37	0.184	0	0	0.993		0.25	0.74	0.359
6/20/2002	1.141	2.018	0.42	0.226	0	0	2.018		0.25	1.76	0.409
6/21/2002	1.126	1.148	0.306	0.168	0	0	1.148		0.25	0.89	0.295
6/22/2002	1.064	1.048	0.283	0.148	0	0	1.048		0.25	0.79	0.272
6/23/2002	1.133	1.192	0.422	0.17	0	0	1.192		0.25	0.94	0.411
6/24/2002	1.276	1.021	0.544	0.211	0	0	1.021		0.25	0.77	0.533
6/25/2002	1.139	1.103	0.308	0.171	0	0	1.103		0.25	0.85	0.297
6/26/2002	1.099	1.245	0.324	0.164	0	0	1.245		0.25	0.99	0.313
6/27/2002	1.176	0.75	0.386	0.204	0	0	0.75		0.25	0.50	0.375
6/28/2002	1.195	1.067	0.574	0.199	0	0	1.067		0.25	0.81	0.563
6/29/2002	1.225	1.113	0.394	0.189	0	0	1.113		0.25	0.86	0.383
6/30/2002	1.225	1.113	0.247	0.159	0	0	1.113		0.25	0.86	0.236
Minimum	1.02	0.44	0.24	0.10	0.00	0.00	0.44	0.00	0.25	0.18	0.23
Maximum	1.28	2.11	0.57	0.41	0.00	0.00	2.11	0.00	0.25	1.85	0.56
Total	34.17	34.77	11.37	6.21	0.00	0.00	34.77	0.00	7.64	27.13	11.05
Average	1.14	1.16	0.38	0.21	0.00	0.00	1.16		0.25	0.90	0.37
Perryville Flow		0.25		AD (MG)					0.25		

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	LPSCO MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
7/1/2002	1.362	1.283	0.511	0.207	0	0	1.283		0.28	1.01	0.500
7/2/2002	1.053	0.954	0.324	0.185	0	0	0.954		0.28	0.68	0.313
7/3/2002	1.291	1.247	0.445	0.203	0	0	1.247		0.28	0.97	0.434
7/4/2002	1.214	1.066	0.304	0.177	0	0	1.066		0.28	0.79	0.293
7/5/2002	1.152	1.23	0.336	0.173	0	0	1.23		0.28	0.95	0.325
7/6/2002	1.53	1.065	0.339	0.164	0	0	1.065		0.28	0.79	0.328
7/7/2002	1.162	1.133	0.386	0.161	0	0	1.133		0.28	0.86	0.375
7/8/2002	1.179	1.498	0.372	0.175	0	0	1.498		0.28	1.22	0.361
7/9/2002	1.143	1.117	0.543	0.042	0	0	1.117		0.28	0.84	0.532
7/10/2002	1.179	0.998	0.449	0.208	0	0	0.998		0.28	0.72	0.438
7/11/2002	1.179	0.998	0.313	0.178	0	0	0.998		0.28	0.72	0.302
7/12/2002	1.163	1.026	0.349	0.184	0	0	1.026		0.28	0.75	0.338
7/13/2002	1.103	1.533	0.389	0.204	0	0	1.533		0.28	1.26	0.378
7/14/2002	1.224	1.748	0.441	0.212	0	0	1.748		0.28	1.47	0.430
7/15/2002	1.535	1.765	0.884	0.264	0	0	1.765		0.28	1.49	0.873
7/16/2002	1.213	1.08	0.334	0.199	0	0	1.08		0.28	0.80	0.323
7/17/2002	1.246	1.527	0.47	0.242	0	0	1.527		0.28	1.25	0.459
7/18/2002	1.267	0.941	0.285	0.172	0	0	0.941		0.28	0.66	0.274
7/19/2002	1.134	1.156	0.231	0.04	0	0	1.156		0.28	0.88	0.220
7/20/2002	0.441	0.921	0.285	0.206	0	0	0.921		0.28	0.64	0.274
7/21/2002	0.521	1.033	0.315	0.186	0	0	1.033		0.28	0.76	0.304
7/22/2002	0.552	1.238	0.443	0.182	0	0	1.238		0.28	0.96	0.432
7/23/2002	1.178	1.178	0.454	0.209	0	0	1.178		0.28	0.90	0.443
7/24/2002	1.585	1.585	0.31	0.171	0	0	1.585		0.28	1.31	0.299
7/25/2002	1.159	1.181	0.506	0.246	0	0	1.181		0.28	0.90	0.495
7/26/2002	1.222	1.246	0.325	0.168	0	0	1.246		0.28	0.97	0.314
7/27/2002	1.117	1.069	0.278	0.169	0	0	1.069		0.28	0.79	0.267
7/28/2002	1.224	1.132	0.414	0.202	0	0	1.132		0.28	0.86	0.403
7/29/2002	1.157	1.107	0.446	0.109	0	0	1.107		0.28	0.83	0.435
7/30/2002	1.157	1.069	0.413	0.193	0	0	1.069		0.28	0.79	0.402
7/31/2002	1.199	1.886	0.246	0.147	0	0	1.886		0.28	1.61	0.235
Minimum	0.44	0.92	0.23	0.04	0.00	0.00	0.92	0.00	0.28	0.64	0.22
Maximum	1.59	1.89	0.88	0.26	0.00	0.00	1.89	0.00	0.28	1.61	0.87
Total	35.84	38.01	12.14	5.58	0.00	0.00	38.01	0.00	8.59	29.42	11.81
Average	1.16	1.23	0.39	0.18	0.00	0.00	1.23		0.28	0.95	0.38
Perryville Flow		0.28		AD (MG)							

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	LPSCO MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
9/1/2002	1.079	1.166	0.47	0.196	0	0	1.17		0.38	0.79	0.459
9/2/2002	1.261	1.299	0.419	0.182	0	0	1.30		0.38	0.92	0.408
9/3/2002	1.373	1.026	0.526	0.214	0	0	1.03		0.38	0.65	0.515
9/4/2002	1.152	1	0.402	0.174	0	0	1.00		0.38	0.62	0.391
9/5/2002	1.17	1.482	0.372	0.174	0	0	1.48		0.38	1.10	0.361
9/6/2002	1.203	1.349	0.471	0.205	0	0	1.35		0.38	0.97	0.460
9/7/2002	1.388	1.491	0.379	0.181	0	0	1.49		0.38	1.11	0.368
9/8/2002	1.641	2.416	0.422	0.19	0	0	2.42		0.38	2.04	0.411
9/9/2002	1.619	1.693	0.531	0.235	0	0	1.69		0.38	1.32	0.520
9/10/2002	1.092	1.075	0.471	0.221	0	0	1.08		0.38	0.70	0.460
9/11/2002	1.224	1.038	0.407	0.193	0	0	1.04		0.38	0.66	0.396
9/12/2002	1.201	1.65	0.422	0.197	0	0	1.65		0.38	1.27	0.411
9/13/2002	1.215	0.809	0.41	0.188	0	0	0.81		0.38	0.43	0.399
9/14/2002	1.111	0.069	0.368	0.174	0	0	0.07		0.38	-0.31	0.357
9/15/2002	1.14	1.18	0.421	0.185	0	0	1.18		0.38	0.80	0.410
9/16/2002	1.327	0.897	0.515	0.221	0	0	0.90		0.38	0.52	0.504
9/17/2002	1.167	0.693	0.397	0.18	0	0	0.69		0.38	0.32	0.386
9/18/2002	1.189	0.972	0.461	0.226	0	0	0.97		0.38	0.59	0.450
9/19/2002	1.189	0.972	0.43	0.198	0	0	0.97		0.38	0.59	0.419
9/20/2002	1.127	1.18	0.342	0.158	0	0	1.18		0.38	0.80	0.331
9/21/2002	1.039	1.18	0.352	0.171	0	0	1.18		0.38	0.80	0.341
9/22/2002	1.185	1.171	0.396	0.185	0	0	1.17		0.38	0.79	0.385
9/23/2002	1.356	0.999	0.543	0.214	0	0	1.00		0.38	0.62	0.532
9/24/2002	1.265	0.911	0.388	0.176	0	0	0.91		0.38	0.53	0.377
9/25/2002	1.073	1.116	0.41	0.184	0	0	1.12		0.38	0.74	0.399
9/26/2002	1.169	1.312	0.463	0.218	0	0	1.31		0.38	0.93	0.452
9/27/2002	1.395	1.596	0.5	0.173	0	0	1.60		0.38	1.22	0.489
9/28/2002	0.851	1.076	0.371	0.181	0	0	1.08		0.38	0.70	0.360
9/29/2002	1.307	1.215	0.341	0.171	0	0	1.22		0.38	0.84	0.330
9/30/2002	1.478	1.335	0.536	0.225	0	0	1.34		0.38	0.96	0.525
Minimum	0.85	0.07	0.34	0.16	0.00	0.00	0.07	0.00	0.38	-0.31	0.33
Maximum	1.64	2.42	0.54	0.24	0.00	0.00	2.42	0.00	0.38	2.04	0.53
Total	36.99	35.36	12.94	5.79	0.00	0.00	35.36	0.00	11.32	24.04	12.62
Average	1.23	1.18	0.43	0.19	0.00	0.00	1.18		0.38	0.80	0.42
Perryville Flow		0.38		AD (MG)							

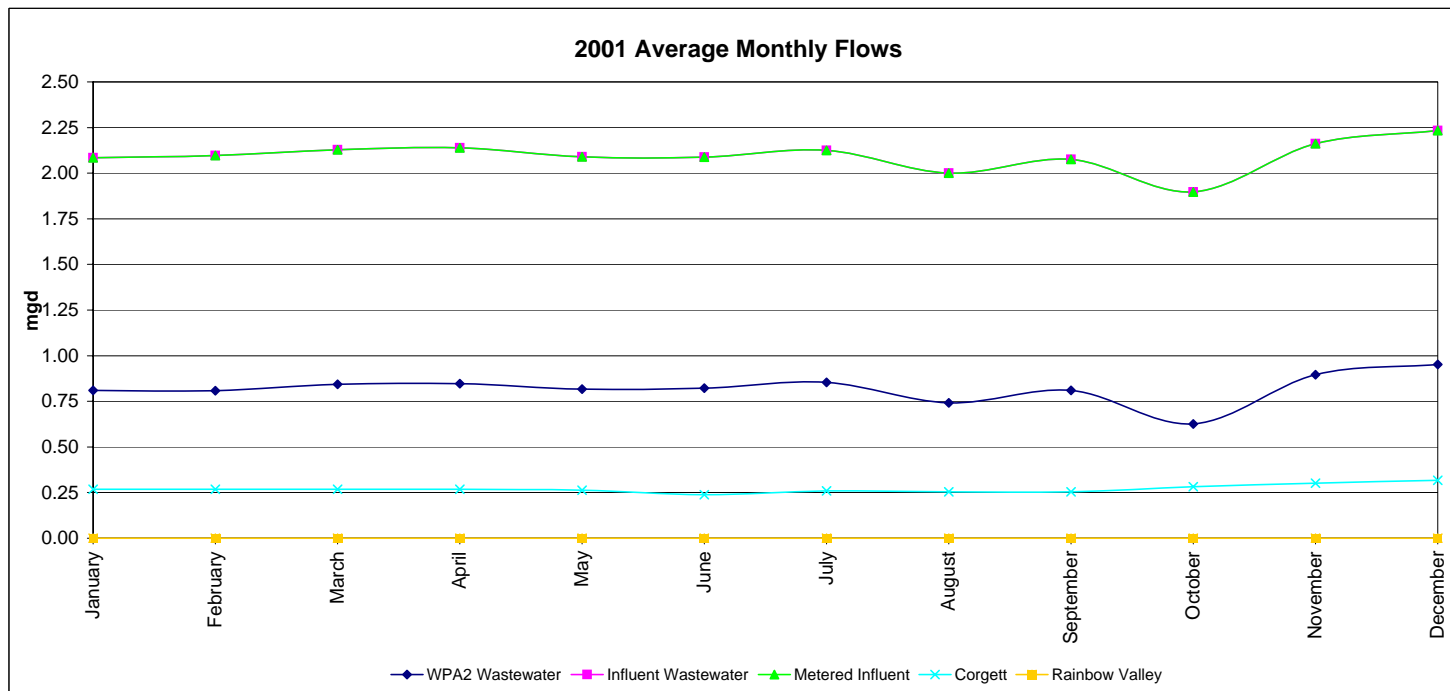
Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	LPSCO MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
10/1/2002	1.1	1.199	0.405	0.184	0	0	1.199		0.32	0.88	0.394
10/2/2002	1.243	1.399	0.506	0.235	0	0	1.399		0.32	1.08	0.495
10/3/2002	1.331	1.736	0.33	0.165	0	0	1.736		0.32	1.42	0.319
10/4/2002	1.154	1.623	0.382	0.182	0	0	1.623		0.32	1.31	0.371
10/5/2002	1.043	1.148	0.332	0.173	0	0	1.148		0.32	0.83	0.321
10/6/2002	1.27	1.458	0.449	0.2	0	0	1.458		0.32	1.14	0.438
10/7/2002	1.281	1.488	0.511	0.225	0	0	1.488		0.32	1.17	0.500
10/8/2002	1.07	1.397	0.441	0.198	0	0	1.397		0.32	1.08	0.430
10/9/2002	1.166	1.311	0.387	0.18	0	0	1.311		0.32	0.99	0.376
10/10/2002	1.139	1.21	0.398	0.187	0	0	1.21		0.32	0.89	0.387
10/11/2002	1.121	1.242	0.421	0.214	0	0	1.242		0.32	0.93	0.410
10/12/2002	1.14	1.197	0.375	0.201	0	0	1.197		0.32	0.88	0.364
10/13/2002	1.082	1.14	0.354	0.191	0	0	1.14		0.32	0.82	0.343
10/14/2002	1.371	1.369	0.487	0.216	0	0	1.369		0.32	1.05	0.476
10/15/2002	1.067	1.196	0.595	0.255	0	0	1.196		0.32	0.88	0.584
10/16/2002	1.207	1.279	0.31	0.129	0	0	1.279		0.32	0.96	0.299
10/17/2002	1.185	1.712	0.323	0.155	0	0	1.712		0.32	1.40	0.312
10/18/2002	1.169	1.175	0.438	0.204	0	0	1.175		0.32	0.86	0.427
10/19/2002	0.985	1.024	0.518	0.232	0	0	1.024		0.32	0.71	0.507
10/20/2002	1.181	1.237	0.492	0.21	0	0	1.237		0.32	0.92	0.481
10/21/2002	1.375	1.362	0.564	0.223	0	0	1.362		0.32	1.05	0.553
10/22/2002	1.187	1.281	0.512	0.213	0	0	1.281		0.32	0.96	0.501
10/23/2002	1.133	1.195	0.449	0.198	0	0	1.195		0.32	0.88	0.438
10/24/2002	1.19	1.065	0.449	0.198	0	0	1.065		0.32	0.75	0.438
10/25/2002	1.206	1.169	0.508	0.217	0	0	1.169		0.32	0.85	0.497
10/26/2002	1.044	1.11	0.426	0.186	0	0	1.11		0.32	0.79	0.415
10/27/2002	1.288	1.252	0.441	0.198	0	0	1.252		0.32	0.94	0.430
10/28/2002	1.462	1.357	0.554	0.247	0	0	1.357		0.32	1.04	0.543
10/29/2002	1.183	1.083	0.513	0.217	0	0	1.083		0.32	0.77	0.502
10/30/2002	1.218	1.185	0.494	0.209	0	0	1.185		0.32	0.87	0.483
10/31/2002	1.209	1.218	0.535	0.218	0	0	1.218		0.32	0.90	0.524
Minimum	0.99	1.02	0.31	0.13	0.00	0.00	1.02	0.00	0.32	0.71	0.30
Maximum	1.46	1.74	0.60	0.26	0.00	0.00	1.74	0.00	0.32	1.42	0.58
Total	36.80	39.82	13.90	6.26	0.00	0.00	39.82	0.00	9.80	30.02	13.57
Average	1.19	1.28	0.45	0.20	0.00	0.00	1.28		0.32	0.97	0.44
Perryville Flow		0.32		AD (MG)							

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	LPSCO MGD	Perryville MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
11/1/2002	1.113	1.225	0.465	0.185	0	0	1.225		0.18	1.04	0.454
11/2/2002	1.045	1.122	0.471	0.209	0	0	1.122		0.18	0.94	0.460
11/3/2002	1.198	1.135	0.456	0.213	0	0	1.135		0.18	0.95	0.445
11/4/2002	1.494	1.422	0.575	0.239	0	0	1.422		0.18	1.24	0.564
11/5/2002	1.214	1.212	0.522	0.229	0	0	1.212		0.18	1.03	0.511
11/6/2002	1.151	1.295	0.55	0.244	0	0	1.295		0.18	1.11	0.539
11/7/2002	1.249	1.025	0.38	0.171	0	0	1.025		0.18	0.84	0.369
11/8/2002	1.114	1.132	0.475	0.214	0	0	1.132		0.18	0.95	0.464
11/9/2002	1.029	1.036	0.455	0.215	0	0	1.036		0.18	0.86	0.444
11/10/2002	1.433	1.347	0.592	0.263	0	0	1.347		0.18	1.17	0.581
11/11/2002	1.295	1.359	0.449	0.198	0	0	1.359		0.18	1.18	0.438
11/12/2002	1.307	1.323	0.481	0.202	0	0	1.323		0.18	1.14	0.470
11/13/2002	1.193	1.224	0.551	0.24	0	0	1.224		0.18	1.04	0.540
11/14/2002	1.275	1.374	0.476	0.203	0	0	1.374		0.18	1.19	0.465
11/15/2002	1.242	1.238	0.561	0.247	0	0	1.238		0.18	1.06	0.550
11/16/2002	0.921	0.974	0.372	0.163	0	0	0.974		0.18	0.79	0.361
11/17/2002	1.134	1.252	0.436	0.2	0	0	1.252		0.18	1.07	0.425
11/18/2002	1.392	1.347	0.537	0.219	0	0	1.347		0.18	1.17	0.526
11/19/2002	1.529	1.347	0.201	0.275	0	0	1.347		0.18	1.17	0.190
11/20/2002	1	0.994	0.404	0.178	0	0	0.994		0.18	0.81	0.393
11/21/2002	1.247	1.298	0.499	0.221	0	0	1.298		0.18	1.12	0.488
11/22/2002	1.125	1.173	0.526	0.221	0	0	1.173		0.18	0.99	0.515
11/23/2002	1.207	1.107	0.347	0.158	0	0	1.107		0.18	0.93	0.336
11/24/2002	1.513	1.252	0.687	0.274	0	0	1.252		0.18	1.07	0.676
11/25/2002	2.68	1.441	0.545	0.219	0	0	1.441		0.18	1.26	0.534
11/26/2002	1.21	1.311	0.535	0.232	0	0	1.311		0.18	1.13	0.524
11/27/2002	1.213	1.406	0.446	0.207	0	0	1.406		0.18	1.23	0.435
11/28/2002	1.12	1.231	0.444	0.213	0	0	1.231		0.18	1.05	0.433
11/29/2002	1.196	1.621	0.491	0.23	0	0	1.621		0.18	1.44	0.480
11/30/2002	1.082	1.166	0.538	0.258	0	0	1.166		0.18	0.99	0.527
Minimum	0.92	0.97	0.20	0.16	0.00	0.00	0.97	0.00	0.18	0.79	0.19
Maximum	2.68	1.62	0.69	0.28	0.00	0.00	1.62	0.00	0.18	1.44	0.68
Total	37.92	37.39	14.47	6.54	0.00	0.00	37.39	0.00	5.41	31.98	14.15
Average	1.26	1.25	0.48	0.22	0.00	0.00	1.25		0.18	1.07	0.47
Perryville Flow		0.18		AD (MG)							

2001 Average Flows								
Month	157th Ave.						Corgett	Rainbow Valley
	Metered Influent (mgd)	Waste Brine (mgd)	Influent Wastewater (mgd)	Perryville Flow (mgd)	LPSCO Flow (mgd)	WPA2 Wastewater (mgd)	WPA3 Influent (mgd)	WPA3 Influent (mgd)
January	2.09	0.00	2.09	0.24	1.03	0.81	0.27	N/A
February	2.10	0.00	2.10	0.26	1.03	0.81	0.27	N/A
March	2.13	0.00	2.13	0.25	1.03	0.84	0.27	N/A
April	2.14	0.00	2.14	0.26	1.03	0.85	0.27	N/A
May	2.09	0.00	2.09	0.24	1.03	0.82	0.26	N/A
June	2.09	0.00	2.09	0.23	1.03	0.82	0.24	N/A
July	2.12	0.00	2.12	0.24	1.03	0.85	0.26	N/A
August	2.00	0.00	2.00	0.23	1.03	0.74	0.25	N/A
September	2.08	0.00	2.08	0.23	1.03	0.81	0.25	N/A
October	1.90	0.00	1.90	0.24	1.03	0.63	0.28	N/A
November	2.16	0.00	2.16	0.23	1.03	0.90	0.30	N/A
December	2.23	0.00	2.23	0.25	1.03	0.95	0.32	N/A
Average	2.09	0.00	2.09	0.24	1.03	0.82	0.27	
Max Month	2.23	0.00	2.23	0.26	1.03	0.95	0.32	
MM Factor	1.07	0.00	1.07	1.08	1.00	1.16	1.17	

Notes:

- 157th Effluent meter reading used in place of influent meter readings
- 157th flow adjusted for the Perryville and LPSCO flows
- Corgett flows are adjusted for re-circulated flows in the plant (filter backwash and digester decant)



Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	LPSCO MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
3/1/2001	2.573	2.55		0.182	0	0	2.55	0.25	1.03	1.27	0.269
3/2/2001	2.461	1.966		0.173	0	0	1.966	0.25	1.03	0.68	0.269
3/3/2001	2.184	2.025		0.136	0	0	2.025	0.25	1.03	0.74	0.269
3/4/2001	2.607	2.115		0.257	0	0	2.115	0.25	1.03	0.83	0.269
3/5/2001	2.671	2.257		0.211	0	0	2.257	0.25	1.03	0.97	0.269
3/6/2001	2.41	2.315		0.21	0	0	2.315	0.25	1.03	1.03	0.269
3/7/2001	2.448	1.959		0.202	0	0	1.959	0.25	1.03	0.67	0.269
3/8/2001	3.158	2.02		0.215	0	0	2.02	0.25	1.03	0.74	0.269
3/9/2001	2.437	2.313		0.195	0	0	2.313	0.25	1.03	1.03	0.269
3/10/2001	2.284	1.715		0.204	0	0	1.715	0.25	1.03	0.43	0.269
3/11/2001	2.684	2.527		0.223	0	0	2.527	0.25	1.03	1.24	0.269
3/12/2001	1.852	2.256		0.236	0	0	2.256	0.25	1.03	0.97	0.269
3/13/2001	1.579	2.059		0.188	0	0	2.059	0.25	1.03	0.77	0.269
3/14/2001	2.393	2.139		0.186	0	0	2.139	0.25	1.03	0.85	0.269
3/15/2001	2.511	2.053		0.18	0	0	2.053	0.25	1.03	0.77	0.269
3/16/2001	2.442	2.027		0.172	0	0	2.027	0.25	1.03	0.74	0.269
3/17/2001	1.901	2.359		0.178	0	0	2.359	0.25	1.03	1.07	0.269
3/18/2001	2.874	2.51		0.204	0	0	2.51	0.25	1.03	1.23	0.269
3/19/2001	2.023	2.253		0.2	0	0	2.253	0.25	1.03	0.97	0.269
3/20/2001	2.938	2.155		0.183	0	0	2.155	0.25	1.03	0.87	0.269
3/21/2001	2.282	2.045		0.171	0	0	2.045	0.25	1.03	0.76	0.269
3/22/2001	2.284	2		0.177	0	0	2	0.25	1.03	0.72	0.269
3/23/2001	2.088	2.081		0.191	0	0	2.081	0.25	1.03	0.80	0.269
3/24/2001	2.306	1.985		0.176	0	0	1.985	0.25	1.03	0.70	0.269
3/25/2001	2.448	2.18		0.181	0	0	2.18	0.25	1.03	0.90	0.269
3/26/2001	2.366	2.217		0.221	0	0	2.217	0.25	1.03	0.93	0.269
3/27/2001	2.14	1.953		0.176	0	0	1.953	0.25	1.03	0.67	0.269
3/28/2001	2.151	1.96		0.168	0	0	1.96	0.25	1.03	0.68	0.269
3/29/2001	2.248	1.986		0.177	0	0	1.986	0.25	1.03	0.70	0.269
3/30/2001	2.075	1.904		0.148	0	0	1.904	0.25	1.03	0.62	0.269
3/31/2001	2.141	2.069		0.21	0	0	2.069	0.25	1.03	0.78	0.269
Minimum	1.58	1.72		0.14	0.00	0.00	1.72	0.25	1.03	0.43	0.27
Maximum	3.16	2.55		0.26	0.00	0.00	2.55	0.25	1.03	1.27	0.27
Total	72.96	65.95		5.93	0.00	0.00	65.95	7.83	31.98	26.15	8.34
Average	2.35	2.13		0.19	0.00	0.00	2.13	0.25	1.03	0.84	0.27
Perryville Flow		0.25	0.28	AD (MG)							

Date	157TH WRF		CORGETT WRF		W-12 Waste MGD	W-19 Waste MGD	Influent Wastewater MGD	Perryville MGD	LPSCO MGD	WPA2 Wastewater MGD	CORGETT INFLUENT ADJUSTED
	INFLUENT MGD	EFFLUENT MGD	INFLUENT MGD	EFFLUENT MGD							
9/1/2001	2.419	2.2	0.221	0.142	0	0	2.2	0.23	1.03	0.93	0.210
9/2/2001	2.695	2.14	0.262	0.186	0	0	2.14	0.23	1.03	0.87	0.251
9/3/2001	2.37	2.121	0.303	0.207	0	0	2.121	0.23	1.03	0.86	0.292
9/4/2001	2.524	2.175	0.295	0.197	0	0	2.175	0.23	1.03	0.91	0.284
9/5/2001	2.298	2.072	0.258	0.195	0	0	2.072	0.23	1.03	0.81	0.247
9/6/2001	2.348	2.062	0.281	0.187	0	0	2.062	0.23	1.03	0.80	0.270
9/7/2001	2.656	1.735	0.251	0.168	0	0	1.735	0.23	1.03	0.47	0.240
9/8/2001	3.058	1.997	0.259	0.17	0	0	1.997	0.23	1.03	0.73	0.248
9/9/2001	2.504	2.194	0.279	0.194	0	0	2.194	0.23	1.03	0.93	0.268
9/10/2001	2.621	2.24	0.322	0.214	0	0	2.24	0.23	1.03	0.97	0.311
9/11/2001	2.606	1.98	0.245	0.171	0	0	1.98	0.23	1.03	0.71	0.234
9/12/2001	2.277	1.942	0.208	0.142	0	0	1.942	0.23	1.03	0.68	0.197
9/13/2001	2.535	2.094	0.284	0.202	0	0	2.094	0.23	1.03	0.83	0.273
9/14/2001	2.548	2.087	0.287	0.218	0	0	2.087	0.23	1.03	0.82	0.276
9/15/2001	2.236	1.901	0.238	0.156	0	0	1.901	0.23	1.03	0.64	0.227
9/16/2001	2.726	2.084	0.331	0.222	0	0	2.084	0.23	1.03	0.82	0.320
9/17/2001	3.454	2.09	0.355	0.25	0	0	2.09	0.23	1.03	0.82	0.344
9/18/2001	2.448	2.141	0.275	0.166	0	0	2.141	0.23	1.03	0.88	0.264
9/19/2001	2.408	2.133	0.272	0.172	0	0	2.133	0.23	1.03	0.87	0.261
9/20/2001	2.351	2.174	0.278	0.174	0	0	2.174	0.23	1.03	0.91	0.267
9/21/2001	2.298	2	0.239	0.173	0	0	2	0.23	1.03	0.73	0.228
9/22/2001	2.178	1.9	0.24	0.155	0	0	1.9	0.23	1.03	0.63	0.229
9/23/2001	2.985	2.052	0.298	0.195	0	0	2.052	0.23	1.03	0.79	0.287
9/24/2001	2.503	2.261	0.364	0.247	0	0	2.261	0.23	1.03	1.00	0.353
9/25/2001	2.48	2.236	0.279	0.182	0	0	2.236	0.23	1.03	0.97	0.268
9/26/2001	2.276	2.016	0.262	0.162	0	0	2.016	0.23	1.03	0.75	0.251
9/27/2001	2.297	2.084	0.251	0.166	0	0	2.084	0.23	1.03	0.82	0.240
9/28/2001	2.703	1.859	0.525	0.242	0	0	1.859	0.23	1.03	0.59	0.514
9/29/2001	2.27	1.998	0.236	0.156	0	0	1.998	0.23	1.03	0.73	0.225
9/30/2001	2.667	2.306	0.308	0.209	0	0	2.306	0.23	1.03	1.04	0.297
Minimum	2.18	1.74	0.21	0.14	0.00	0.00	1.74	0.23	1.03	0.47	0.20
Maximum	3.45	2.31	0.53	0.25	0.00	0.00	2.31	0.23	1.03	1.04	0.51
Total	75.74	62.27	8.51	5.62	0.00	0.00	62.27	7.01	30.94	24.32	8.19
Average	2.52	2.08	0.28	0.19	0.00	0.00	2.08	0.23	1.03	0.81	0.27
Perryville Flow		0.23	AD (MG)								



MODEL CONSTRUCTION AND COLLECTION SYSTEM ANALYSIS TECHNICAL MEMORANDUM NO. 2-2

Table of Contents

1.0	INTRODUCTION.....	3
1.1	General.....	3
1.2	Software.....	4
1.3	Projected Flow Rates.....	4
2.0	MODEL CONSTRUCTION.....	6
2.1	Base Year Model.....	6
2.2	Model Calibration.....	11
2.3	Buildout Model.....	20
2.4	Intermediate Year Model.....	22
3.0	HYDRAULIC ANALYSIS.....	24
3.1	Summary of Analyses.....	24
3.2	Design Parameters.....	25
3.3	Base Year Hydraulic Analysis.....	26
3.3.1	157 th Ave WWTP Basin.....	26
3.3.2	Corgett and Rainbow WRF Basins.....	30
3.4	Buildout Hydraulic Analysis.....	32
3.4.1	157 th Ave WWTP Basin Results.....	32
3.4.2	Corgett WRF Basin.....	49
3.4.3	Rainbow Valley WRF Basin.....	53
3.4.4	Waterman Wash Basin.....	57
4.0	RECOMMENDED IMPROVEMENTS.....	62
4.1	Collection System.....	62
4.2	Lift Stations.....	62
4.3	Reclamation Facilities.....	64



APPENDIX A – PROJECTED WASTEWATER FLOWS ANNUAL AVERAGE
APPENDIX B – CIRCULAR CHART DATA RAIN EVEN DATA
APPENDIX C – LIFT STATION CHARACTERISTICS
APPENDIX D – HYDRAULIC PERFORMANCE
APPENDIX E – WRF INFLOW CURVES
APPENDIX F – TM 2-2 ADDENDUM



1.0 INTRODUCTION

The City of Goodyear currently provides wastewater collection and treatment to customers located in WPA2 and WPA3. An average dry weather flow of 3.5 mgd is currently treated at three wastewater reclamation facilities; the 157th Ave WWTP, Corgett WRF and Rainbow Valley WRF. The purpose of this section is to:

- Provide an outline of the City's existing collection system and treatment facilities.
- Provide an overview of collection basin configuration, hydraulic model construction, and flow allocation.
- Perform hydraulic analyses and develop a phased plan of the recommended collection and treatment infrastructure.

1.1 GENERAL

Hydraulic models of the collection system were used to describe the conveyance of wastewater through a network of links and nodes representative of the pipes and manholes in an actual wastewater collection system. Wastewater enters the model at the nodes using a dynamic (non steady state) pattern that represents actual daily variations in the incoming flow. The resulting flow is routed through the model which accounts for filling and draining of the gravity flow system under a variety of modeled conditions and the model predicts hydraulic performance in terms of velocity, depth of flow and other hydraulic parameters. The model also predicts the performance of lift stations and force mains where these are incorporated into the otherwise gravity flow collection system model.

Computerized hydraulic analyses allow the hydraulics of complex collection systems to be accurately predicted and with this tool multiple options can be tested. Recommended improvements were identified with the goal of:

- Identifying locations in the existing collection system where overloading or surcharging exists (under current or future loadings) and providing the necessary relief in the most efficient manner either by paralleling / replacing sewer lines or by re-routing flow.
- Designing the collection system serving each basin and sub-basin so as to minimize or eliminate the use of lift stations.
- Determining the optimum slope and diameter for all new pipelines so that adequate velocity is maintained at an efficient depth of flow (d/D).



1.2 SOFTWARE

H2OMAP Sewer/Pro

The City of Goodyear provided the existing collection H2OMap Sewer/Pro model as the basis for further hydraulic analysis for this project. H2OMAP Sewer/Pro is a stand alone GIS-based computer modeling program. Development of the hydraulic model network can be supported by various types of data sources including standard GIS formats and CAD (Computer Aided-Design) drawings.

The model allows for steady state and dynamic flow routing using Manning's equation for the flow computation in the gravity flow portions of the system and Hazen & Williams for flow calculations in pressurized force mains. The model accounts for the filling and draining of partial (free-surface) hydraulics and maintains conservation of mass, even during surcharge (full-pipe) conditions.

H2OMAP Load Allocator

H2OMAP Load Allocator, a H2OMAP Sewer add-on module, was used to geospatially allocate wastewater loads (incoming flow) to the collection system. The Allocator tool provides five different methods to compute the network loading. The base-year allocation was completed using geo-coded water meter billing data while flow was allocated to the buildout model by the polygon intersection method in order to key into the City's land use plan. The load allocations are discussed further in their respective section of this TM.

1.3 PROJECTED FLOW RATES

Buildout wastewater generation was projected for the Study Area using buildout land use areas (obtained from the 2003 General Plan and adjusted per TM 1-2) and the unit rates established in TM 2-1. Table 1 presents the buildout flow rates calculated for each basin. Appendix A contains a breakdown of each primary basin into sub-basins.

**Table 1:
BUILD-OUT WASTE WATER GENERATION PROJECTIONS**

LAND USE CATEGORY	Target Density (du/ac)	Land Use								Acreage Total Acreage in Waste Water Service Area	Dwelling Units Total Number of Dwelling Units in Waste Water Service Area	Projected Generation (Annual Average)						
		157th Ave		Corgett		Rainbow Valley		Waterman Wash				157th Ave	Corgett	Rainbow Valley	Waterman Wash	Waste Water Service Area		
		(ac)	(du)	(ac)	(du)	(ac)	(du)	(ac)	(du)			WW Returned (gpdu)	WW Returned (gpac)	(mgd)	(mgd)	(mgd)	(mgd)	(mgd)
RESIDENTIAL																		
Single-Family Residential																		
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	0	0	0	176	176	0.00	0.00	0.00	0.00		
Rural (0-2 du/ac)	1	1	2	2	0	0	830	830	832	832	160	160	0.00	0.00	0.00	0.13		
Rural (0-2 du/ac)	2	3,256	6,513	0	0	2,880	5,761	18,227	36,454	24,364	48,727	160	320	1.04	0.00	0.92	5.83	
Low Density (2-4 du/ac)	3	5,909	17,726	972	2,916	2,773	8,320	10,413	31,239	20,067	60,202	144	432	2.55	0.42	1.20	4.50	
Low-Medium Density (4-6 du/ac)	5	3,125	15,625	260	1,301	1,321	6,604	1,459	7,293	6,165	30,824	129	647	2.02	0.17	0.85	0.94	
Single Family Sub Totals =										51,428	140,585			5.62	0.59	2.97	11.41	
Multi-Family Residential																		
Medium Density (6-10 du/ac)	8	549	4,395	396	3,167	686	5,488	1,939	15,516	3,571	28,565	128	1025	0.56	0.41	0.70	1.99	
Medium-High Density (10-20 du/ac)	15	554	8,312	183	2,747	96	1,438	345	5,174	1,178	17,671	124	1867	1.03	0.34	0.18	0.64	
High Density Residential (20+ du/ac)	25	0	0	97	2,429	258	6,450	553	13,837	909	22,717	110	2750	0.00	0.27	0.71	1.52	
Multi-Family Sub Totals =										5,657	68,953			1.60	1.01	1.59	4.15	
Residential Sub Totals =		13,394	52,572	1,911	12,562	8,014	34,061	33,766	110,343	57,085	209,539							
NON RESIDENTIAL																		
Employment																		
Community Commercial		1,701		175		477		1,219		3,573			951	1.62	0.17	0.45	1.16	
Regional Commercial		627		0		0		67		694			1,087	0.68	0.00	0.00	0.07	
City Center / Village Center		173		0		31		101		306			5,776	1.00	0.00	0.18	0.59	
Ballpark Village		57		0		0		0		57			3,851	0.22	0.00	0.00	0.00	
Light Industrial		3,982		0		117		224		4,323			815	3.25	0.00	0.10	0.18	
General Industrial		1,336		0		0		0		1,336			1,087	1.45	0.00	0.00	0.00	
Mixed Use		0		0		0		216		216			2,000	0.00	0.00	0.00	0.43	
														8.22	0.17	0.73	2.43	
Support																		
Public / Quasi Public		373		27		287		680		1,368			1,019	0.38	0.03	0.29	0.69	
Prison		427		0		0		0		427			1,699	0.73	0.00	0.00	0.00	
Airport		800		0		0		0		800			170	0.14	0.00	0.00	0.00	
Parks		911		133		349		503		1,896			0	0.00	0.00	0.00	0.00	
Roads		504		225		579		2,043		3,350			0	0.00	0.00	0.00	0.00	
Open Space		1,355		1,152		1,164		4,193		7,864			0	0.00	0.00	0.00	0.00	
Non-Residential Sub Totals =														1.24	0.03	0.29	0.69	
TOTAL =		25,641		3,623		11,019		43,012		83,294		209,539		TOTAL GENERATION =	16.7	1.8	5.6	18.7
																		42.7

Notes:

Waste Water Service Area Population = 555,277
Per Capita Unit Rate (gpcd) = 77



2.0 MODEL CONSTRUCTION

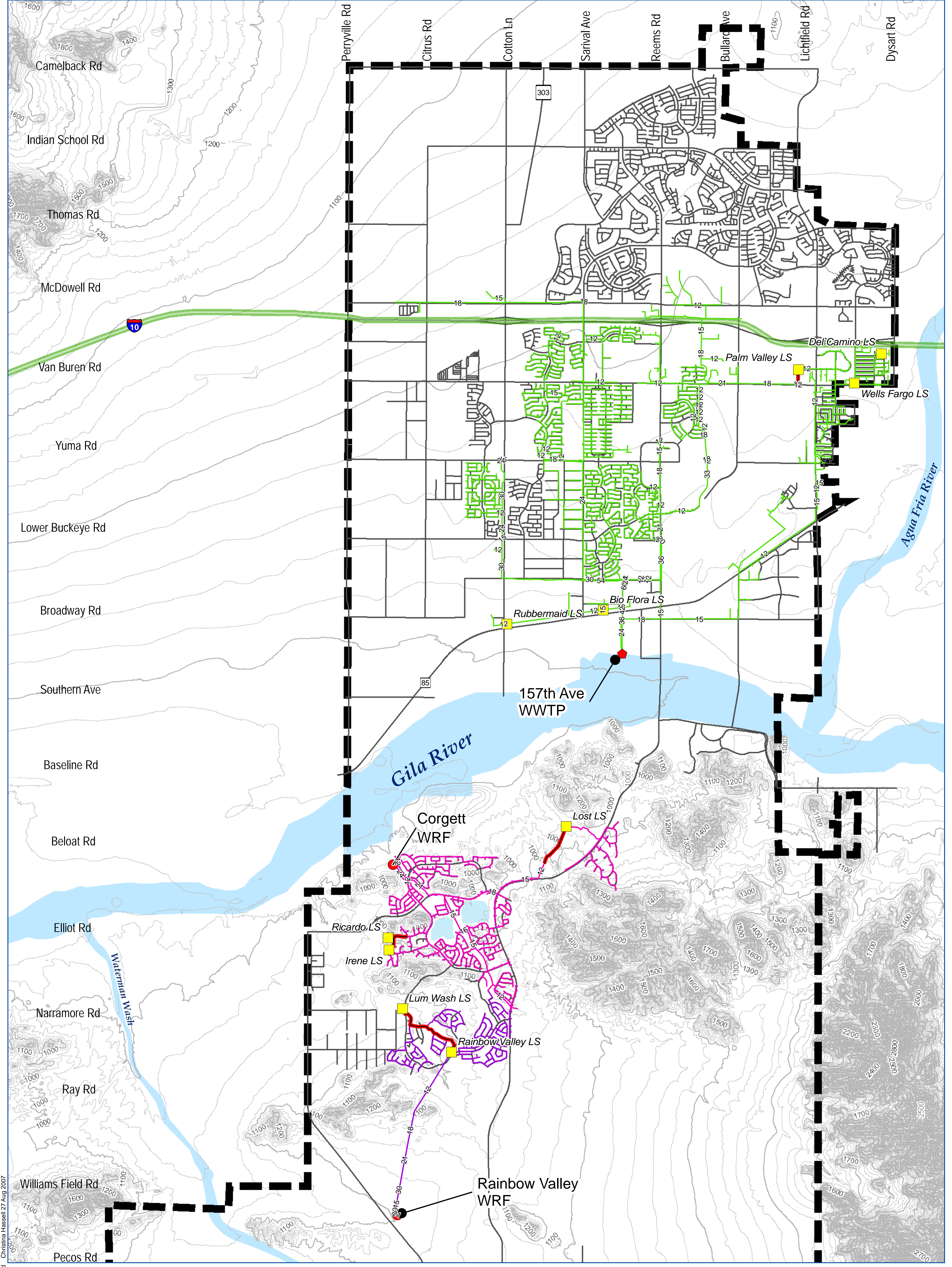
2.1 BASE YEAR MODEL

Hydraulic Model

The City provided the existing collection H2OMAP Sewer/Pro model as the basis for further development and hydraulic analysis. The base year model is shown in Figure 1. The model originally came from two models, one constructed by Carollo Engineers for the 157th Ave WWTP basin and one constructed by Black & Veatch for the Corgett and Rainbow Valley WRF basins. B&V updated the overall model from as-built plans and meetings with City staff to ensure that it included projects under construction or recently completed. The existing conditions model was calibrated using dry weather and wet weather flow records, in the form of circular charts, which were available from the 157th Ave. For the base year, it was assumed that the new 54-inch Dunlap Collector would be operational and that the Cotton Lane Lift Station was retired. However for calibration, the Cotton Lane Lift Station was operational.

Collection System Flow Monitoring

The City provided historical flow records from January 2001 to February 2007 for both the 157th Ave. WWTP and Corgett WRF. There are no intermediate metering points operated by the City, only influent flow records collected at the wastewater treatment plants. Daily totalized flow records and instantaneous flow records (circular charts) were provided for the 157th Ave WWTP. With respect to the Corgett WRF, daily totalized flow records were available but instantaneous flow charts were not. The circular chart data (from the 157th Ave WWTP) was reviewed, analyzed, and summarized under dry and wet weather conditions. The flow data was used for calibration of the collection system and the resulting diurnal patterns and peaking factors were assumed to apply to both the 157th Ave WWTP Basin and the southern basins as well.



\Projects\Goodyear\GIS\01\MapDocuments\Base Year Wastewater.mxd
 Christina Hassell 27 Aug 2007

Legend







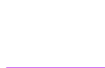

- | | |
|--|--|
|  Master Plan Study Area | Pipes |
|  Water Reclamation Facility |  Force Main |
|  Wastewater Treatment Plant |  157th Avenue |
|  Lift Station |  Corgett |
| |  Rainbow Valley |

Figure 1
Existing Collection System
 Integrated Water Master Plan
 City of Goodyear, AZ
 2007



1 inch equals 3,000 feet

Data Sources:
 City of Goodyear GIS
 ESRI





Base Year Flow Allocation

Base Year Flow

Base year (2007) wastewater flow was projected as a 16 percent increase from the recorded 2006 wastewater flow as shown in Table 2.

Table 2: Recorded 2006 Wastewater Flow*

	Flow (mgd)
WPA 2	1.84
Corgett	0.52
Rainbow Valley	0.12
Total 2006 Flow	2.48
Total Projected 2007 Flow (2006 * 1.16)	2.88

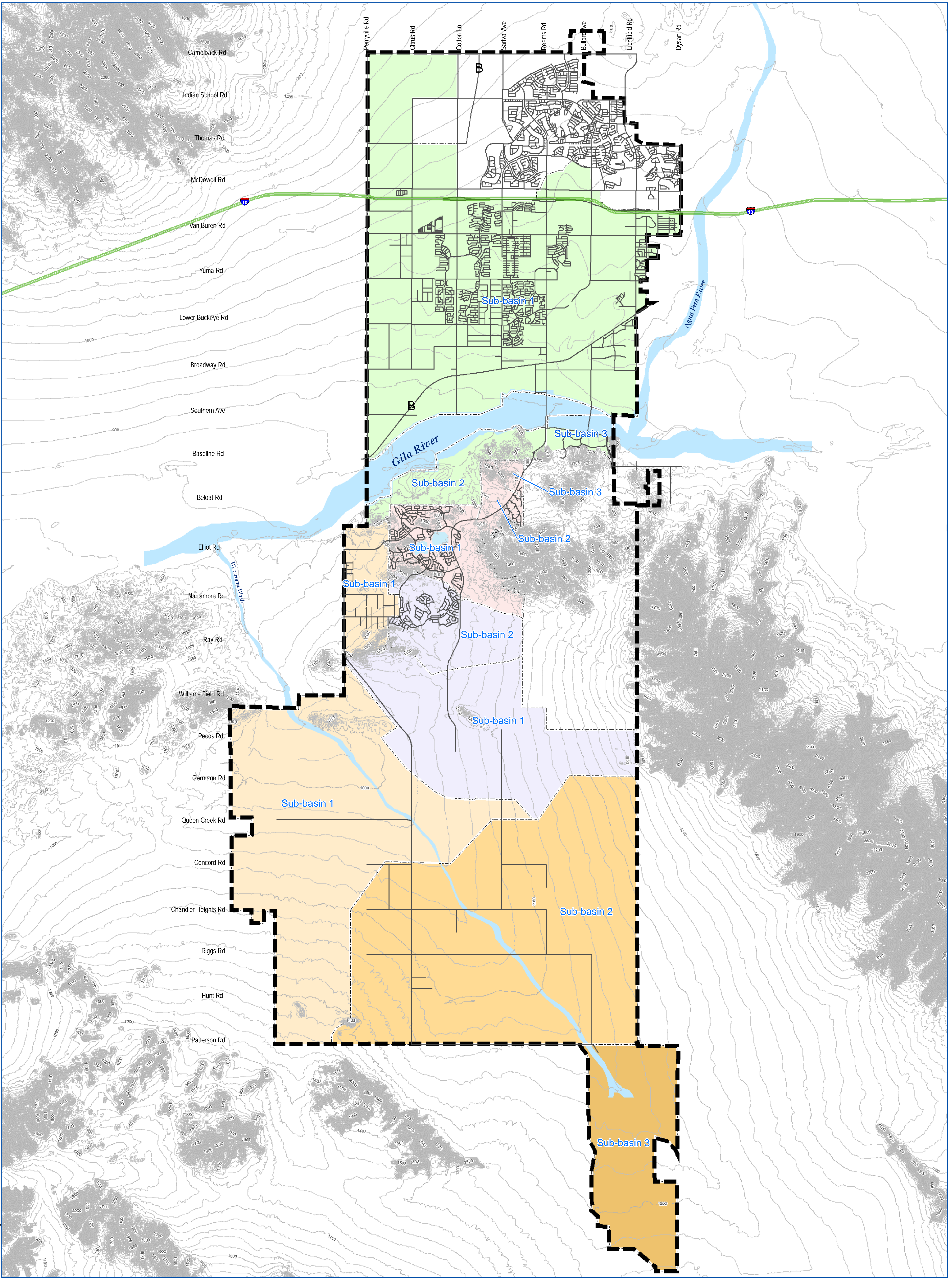
* Residential and Commercial Flow (not including Brine Flow or Perryville Flow)

The 2004 metered water sales records were used to determine the spatial distribution of flow and then wastewater generation factors were applied to adjust the spatially distributed water demand until it matched the projected load of 2.88 mgd. Table 3 shows the base year flow projected City wide using 2004 metered water sales totals, which have been adjusted forward to 2007 and factored to reflect the percent returned as wastewater. Figure 2 shows the basin and sub basin boundaries defining the treatment plant collection areas. The projections for 2007 and the percent returned factors are discussed further in Technical Memorandum 2-1 – Collection/Treatment Plan.


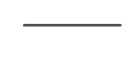

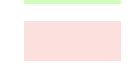




Once the load was allocated, other sources of wastewater which were point loads (Perryville Prison and Brine) were added into the model because these flows could not come from the spatial allocation of metered water sales.

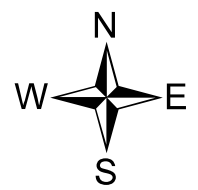
Table 3: Base – Year Flow for Existing Treatment Plants

Basin	2004 Metered Water Sales (mgd)	2007 Adjustment (mgd)	Percent Returned	2007 ADWF (mgd)
Residential	2.73	1.44	0.432	1.70
Commercial	1.58	1.44	0.520	1.18
Total =	4.31			2.88



Legend

-  Master Plan Study Area
-  Street
- Basins**
-  157th Ave WWTP Basin
-  Corgett Basin
-  Rainbow Valley Basin
-  Waterman Wash Sub-basin 1
-  Waterman Wash Sub-basin 2
-  Waterman Wash Sub-basin 3



1 inch equals 5,280 feet

**Figure 2
Collection Basin
Configuration**

Integrated Water Master Plan
City of Goodyear, AZ
2007





Load Allocation in H2OMAP Sewer

Wastewater loads, derived from metered water sales, were geospatially allocated to manholes in the base year model through use of the “Load Allocator” tool. The Load Allocator tool creates a load area polygon called a Thiessen polygon around each manhole and then performs a spatial intersection with the metered sales records which have been geo-spatially located and adjusted to reflect the portion returned as wastewater. The load collected within each manhole’s load polygon is then assigned to the collection system model load database. The total loading to each manhole can be comprised of several load categories and within this model the following load categories were used.

Table 4: Base Year Load Assignment Fields

Load Category	Field
Residential (from billing records)	Load 1
Commercial (from billing records)	Load 2
Brine Waste from Well 12 and 19	Load 3
Perryville Prison	Load 4
Rain Event	Load 5

Residential and commercial flow allocation was based upon factoring the metered water sales as noted above. Additional loads include the discharge of waste brine from reverse-osmosis facilities operated by the City for Wells 12 and 19 which were allocated to specific manholes based on actual metered records of the brine flow. Finally, rainfall dependent infiltration and inflow (RDII) was also allocated to the manholes as a separate load. RDII loading is discussed in more detail in the Wet Weather Calibration portion of this Tech Memo.

Table 5 summarizes the average dry weather flow (ADWF) allocated load for both existing basin systems.



Table 5: Base Year Loads by Source

Load Category	Average Dry Weather Flow (mgd)		
	157 th Ave WWTP Basin	Corgett - Rainbow Valley Basin	Total
Residential	1.10	0.58	0.58
Commercial	1.04	0.14	0.14
Residential & Commercial Subtotal	2.14	0.72	2.86
Brine Waste from Well 12 and 19	0.43		
Perryville Prison	0.20		
Total Average Dry Weather Flow	2.77	0.72	3.49

It can be seen that the actual 2.86 mgd of residential and commercial flow allocated to the model is within one percent of the 2.88 mgd calculated in the spreadsheet and confirms the accuracy of the allocation process

2.2 MODEL CALIBRATION

Flow within a collection system varies continuously in response to the diurnal pattern of flow input. The input patterns undergo further change as peak flows and minimum flows travel through the collection system and combine into new patterns and as the collection system fills and drains over the course of a typical day. The resulting flow pattern recorded at the wastewater treatment plant will be different from the input pattern, with peaking attenuated and timing shifted, as affected by the collection system geometry.

The purpose of calibrating the flow model is to develop input patterns and factors such that total daily flow routed to the treatment plants will not only match on a daily total basis, but also on an hourly basis over the course of the day. A model calibrated in this manner will reflect the dynamic hydraulics which occur in the collection system and can realistically reflect peak dry weather flow (PDWF) and peak wet weather flow (PWWF) throughout the system. Once these input patterns are developed, they can be applied to future models, even though the geometry of these models has changed.

The model was calibrated using dry and wet weather flow records, in the form of circular charts (instantaneous flow) and daily totalized flow records available from the 157th Ave. WWTP and



daily totalized flow records from the Corgett WRF. The historical flow records addressed the period from January 2001 to February 2007 for both facilities, although there were missing records for parts of this time. The collection system model was calibrated using 157th Ave WWTP influent records as Corgett flow records provided only daily totalized flow. The following dates were used for calibration purposes:

- Dry Weather - March 07, 2007
- Wet Weather - July 14, 2002

Dry Weather Calibration

The March 07, 2007 date was chosen for dry-weather calibration because it provided recent flow data and the recorded pattern appeared to be typical for weekday dry weather flow. A copy of the actual circular flow chart with the flow is included in Appendix B. Dry weather calibration was achieved by first adjusting/factoring the residential and commercial load total applied to the model until it matched the totalized daily inflow of 2.2 mgd recorded that day at the 157th Ave WWTP. An hourly input pattern was then developed for both the residential and commercial loadings which distributed the total daily load over each hour of the day. The factors for each hour were then adjusted until the resulting collection system output pattern matched the pattern recorded on the influent meter circular chart for that day.

H2OMAP Sewer uses input patterns to represent these variations in flow during a specified time period. The patterns consist of a series of factors applied to the base load which vary the flow at each manhole over an extended period simulation. The patterns are applied over the 48 – hour extended period simulation run. Three input patterns were created for the model simulations as follows:

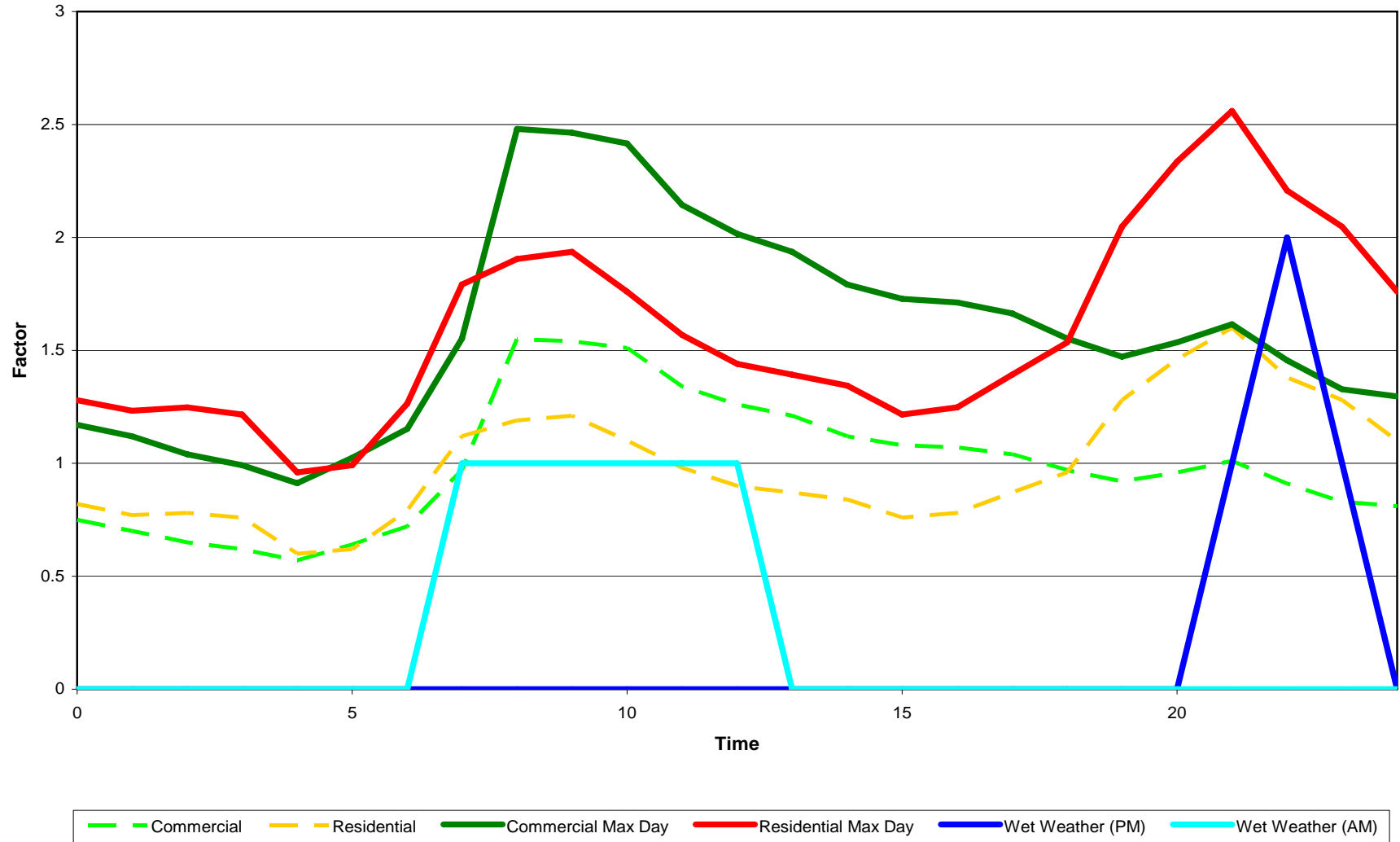
- Residential Pattern – applied at manholes receiving a residential load as dictated by the land use.
- Commercial Pattern – applied at manholes receiving a non-residential load as dictated by the land use.
- Brine Input Pattern – a steady pattern applied to only those manholes and loads where waste brine is input into the system.



Additional patterns were developed to reflect rainfall dependent infiltration and inflow as discussed in the next section. Figure 3 shows the input patterns applied to the residential and commercial loads and Figure 4 shows the resulting model output pattern (under March 07, 2007 loadings) in comparison with the recorded influent pattern at the 157th Ave WWTP for that day.

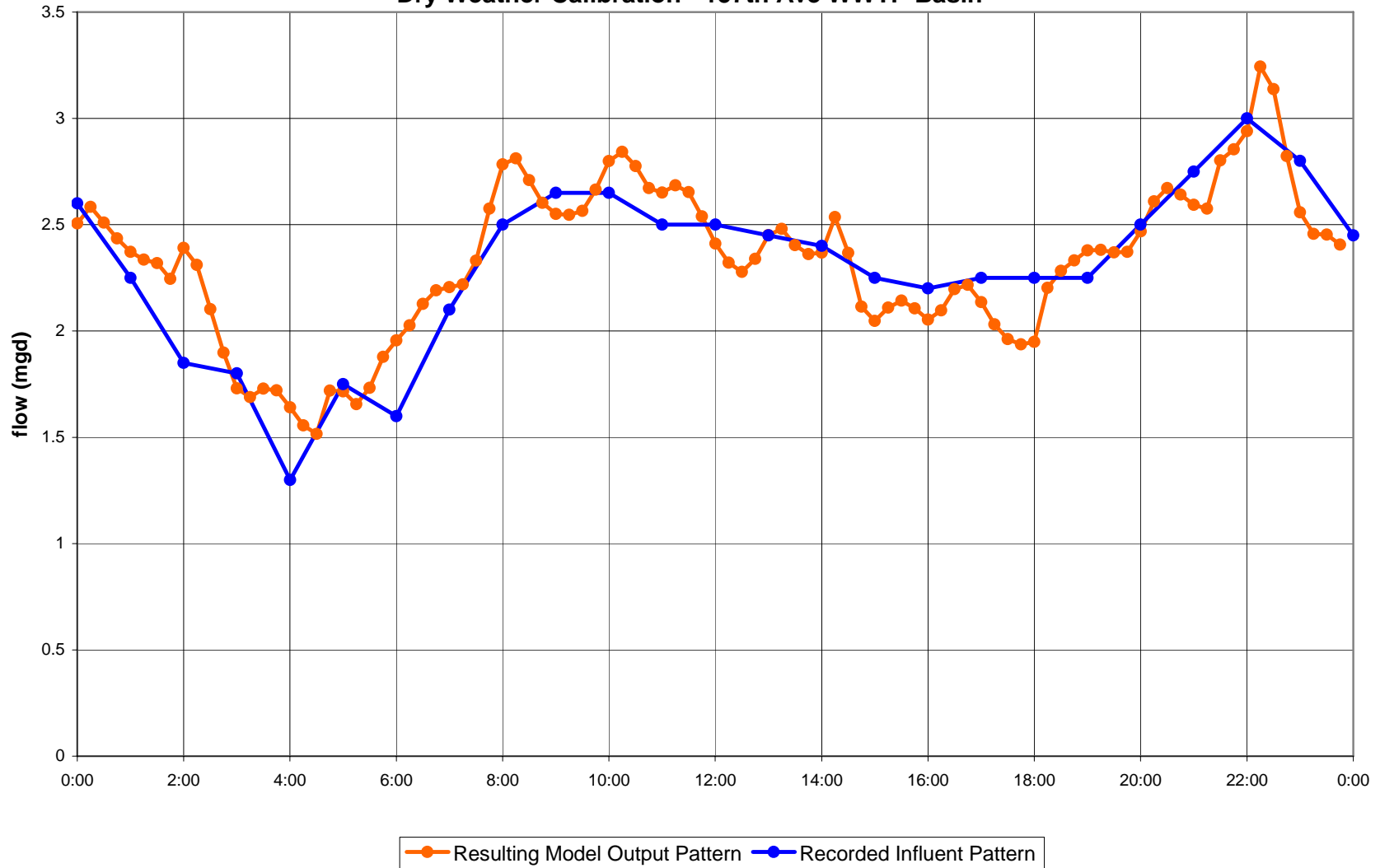


Figure 3 City of Goodyear - Integrated Master Plan
Model Input Patterns





**Figure 4 City of Goodyear - Integrated Master Plan
Dry Weather Calibration - 157th Ave WWTP Basin**





It can be seen that good correlation was achieved between modeled and recorded flow patterns and flow quantity. The slight variations are mostly due to differences in actual pump timing versus modeled pump start/stop timing at lift stations and will not affect the accuracy of this model.

Wet Weather Calibration

Rainfall records from Maricopa County Flood Control District weather stations were reviewed and a rain event on July 14, 2002 was selected for calibrating the model's rainfall dependent inflow and infiltration (RDII) response. The July rain event was identified on the circular flow charts in the evening of July 14th 2002 where it produced a typical short-duration, high-intensity summer rainfall reaction. Both the weather data and the circular flow chart for this date are included in Appendix B. A review of rainfall records for 2000 through 2005 show this to be a typical short-duration, high-intensity summer rainfall event. Figure 5 shows a typical weekend flow curve, recorded on Saturday July 13th and the Sunday July 14th curve which exhibits rainfall dependent inflow and infiltration (RDII).

To develop the model's calibrated RDII response, it was necessary to both determine the load to be applied to the manholes and the hourly pattern for its inflow. By comparing the July 14th flow record with a typical weekend flow pattern, it can be seen in Figure 5 that the RDII response increased the base dry weather flow by 1.2 mgd and then returned to normal dry weather flow over a two-hour period.

After several trial and error iterations it was found that a load of 400 gpad, applied to the currently sewered area for only a one hour duration produced a similar, though slightly larger, 1.4 mgd peak over a three-hour period in the 2007 base year model. Figure 6 shows the resulting PWWF output in comparison to PDWF output in the base year model. It is believed that a slightly larger RDII peak and longer duration is warranted because the extent of the 2007 collection system, in terms of acres covered and total length of pipelines, is estimated to be about 25% greater than it was in 2002 when the calibration rainfall event was recorded.



**Figure 5 City of Goodyear - Integrated Master Plan
Circular Flow Chart Data - 157th Ave WWTP**

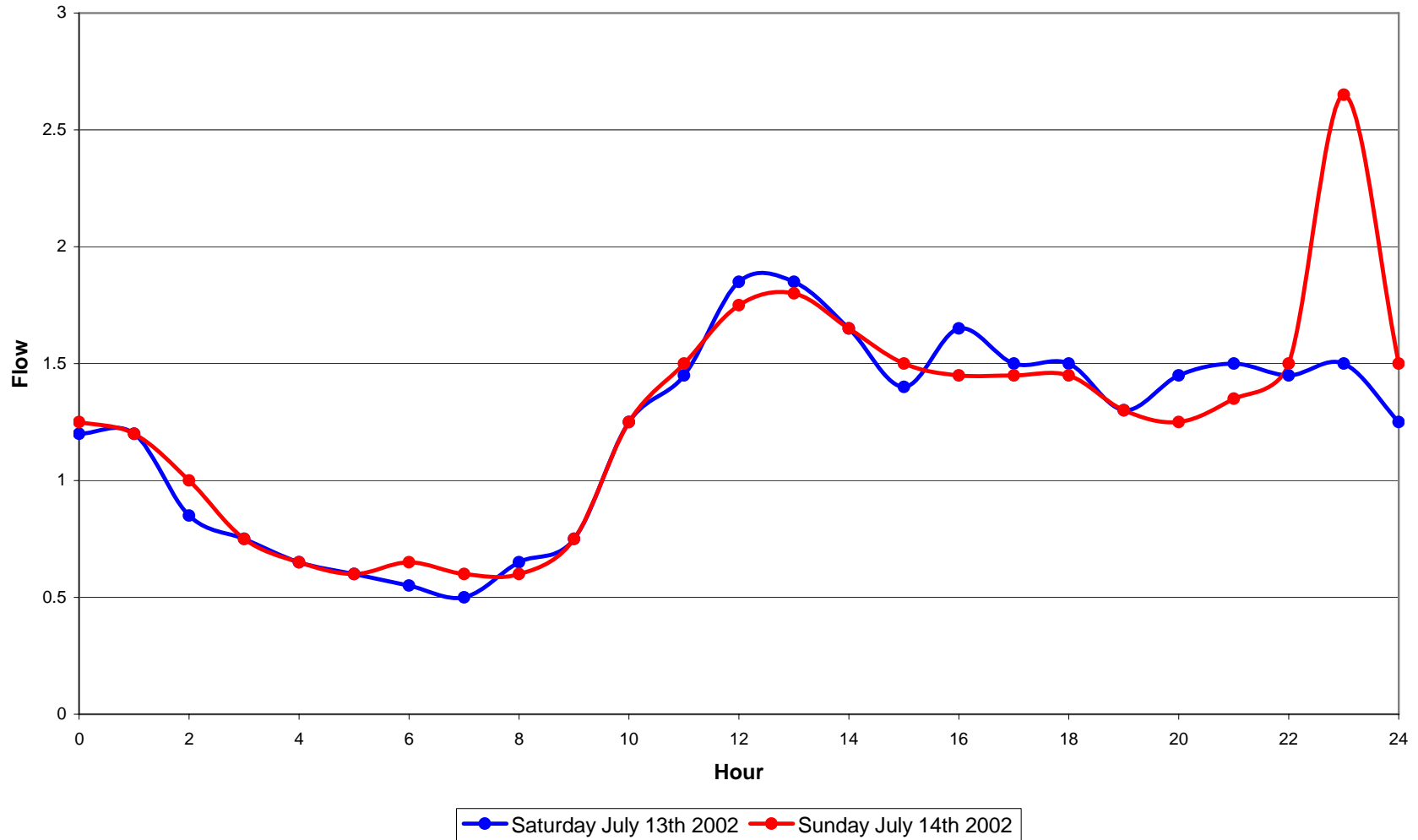
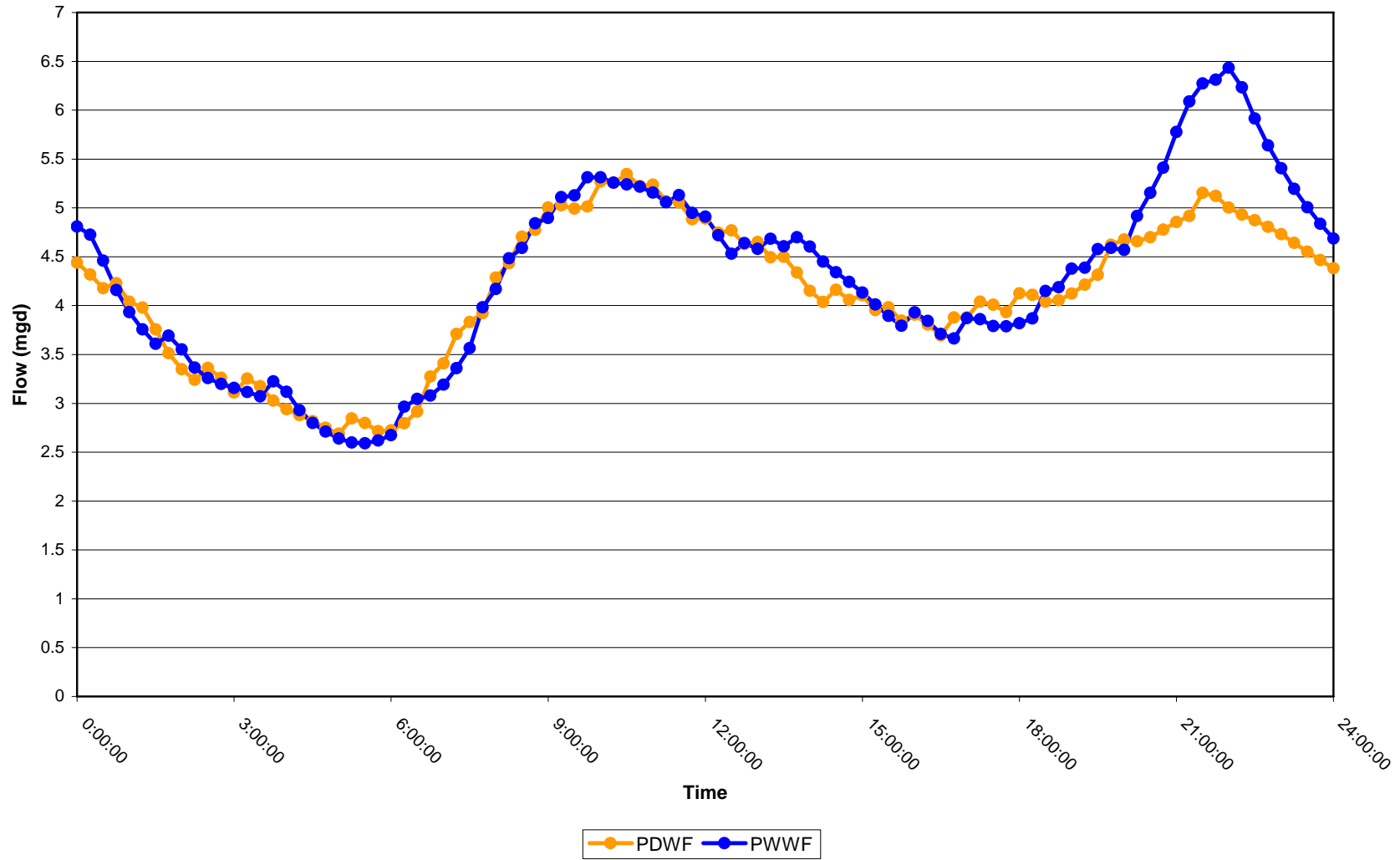




Figure 6 City of Goodyear - Integrated Master Plan
PDWF vs PWWF - Base Year Model





Design Rain Event

In order to see the potential impact of RDII on the collection system hydraulics, the rain event must be programmed to occur on top of the dry weather peak so as to contribute to an even higher peak flow. If the rain contribution entered the system at non-peak hours, it would not be possible to model and design for the potentially higher flows which can occur during significant rain events. The time at which dry-weather peaking occurs within each basin depends on the proportional mix of residential and non-residential customers therefore it was necessary to fit each basin with the correct rain pattern.

As is shown in Figure 6, dry weather peaking in the 157th Ave Basin is roughly equal from morning to evening reflecting the current balance of residential and non-residential customers. However by buildout, the majority of the flow will be from non-residential customers and the dry weather peak flow will occur in the morning due to the dominant effect of the non-residential pattern. In the largely residential southern basins, the opposite occurs, with peak dry weather flow occurring in the early evening due to the dominant effect of the residential pattern.

Therefore, two types of rain events were created, an evening rain event which would be utilized in the southern basins and a morning rain event which will be utilized in the 157th WWTP basin. Table 6 below provides the characteristics of each rain event.

Table 6: Design Rain Event

Summer Rain Event	Winter Rain Event
High-Intensity	Moderate Intensity
Short Duration	Moderate Duration
Load = 400 gpad	Load = 200 gpad
Duration = 1 hour	Duration = 4 hours
Applied to afternoon peaks	Applied to morning peaks
Corgett, Rainbow & Waterman	157 th Ave WWTP Basin

SCADA Data

It is known that the City is implementing a significant expansion and upgrade to their SCADA system. In preparation for future modeling efforts, it is recommended that the City monitor flow at additional points and ensure that all flow data is recorded in the interim period until the next IWMP update is produced. The following data should be recorded by the City’s SCADA system:



- Influent flow records, with both totalized and instantaneous flow readings at all wastewater plants.
- Lift Station flow records and/or pump run times at all wastewater lift stations.

Prior to the next master plan update, the City should also prepare and execute a collection system flow monitoring / rainfall monitoring plan designed to gather flow data and rainfall data from key points within the collection system basins. The monitoring plan data will supplement the City's SCADA records and provide an even better basis for future calibration efforts.

2.3 BUILDOUT MODEL

The buildout model incorporates the new layout of the collection system into two mostly undeveloped basins: Rainbow Valley and Waterman Wash Basin. The main trunks were extended into the 157th Ave. basin to include areas of future development.

Hydraulic Model

Buildout Flow Allocation

Buildout demand was allocated using the Polygon Intersection method of the Load Allocator tool. The polygon intersection method provides a routine for the intersection and allocation of load between two different polygon layers. Thiessen polygons were created for each manhole and registered as the primary layer for intersection in the "Load Allocation Manager" in H2OMAP Sewer. The Land Use shape file was registered as the secondary layer. The node selection set for this allocation included all existing nodes as well as buildout nodes in areas for future development. Wastewater duties (gallons per acre per day) were again calculated as a percent returned of the water demand using an Excel spreadsheet. There was no brine discharge loads allocated in the buildout model as it is assumed that brine will not be discharged to the sewer in the future as discussed in the Water Distribution TM. Further details about wastewater unit rates are located in Technical Memorandum 2-2.

The resulting wastewater duties were copied and pasted into the "Load Allocation Manager" as shown in Table 7. This table is used within the Allocation Manager as a look-up to calculate load based on area for each land use type within a Thiessen Polygon. This load is then summarized according to its type (Residential or Non-Residential) and then assigned to its appropriate Thiessen polygon node in the Load 1 or Load 2 column.



Table 7: Buildout Load Allocation Usage Data

Usage Type	Load Factor (gpad)	Load Field
A	170	Load 1
BallPark	3851	Load 2
CC	951	Load 2
CCTR	5776	Load 2
GI	1087	Load 2
HDR	2750	Load 1
LCLUA	647	Load 1
LDR	432	Load 1
LI	815	Load 2
L-MDR	647	Load 1
MDR	1025	Load 1
M-HDR	1867	Load 1
Mixed Use	2000	Load 2
OS	0	Load 2
P	0	Load 2
PQP	1019	Load 2
PR	1699	Load 2
RC	1087	Load 2
ROAD	0	Load 2
RR	320	Load 1
VCO	1087	Load 2

As with the base year, the model applies the appropriate pattern to each load. Table 8 shows the total loads allocated to each respective basin.

Table 8: Buildout Loads by Source for Collection Basins

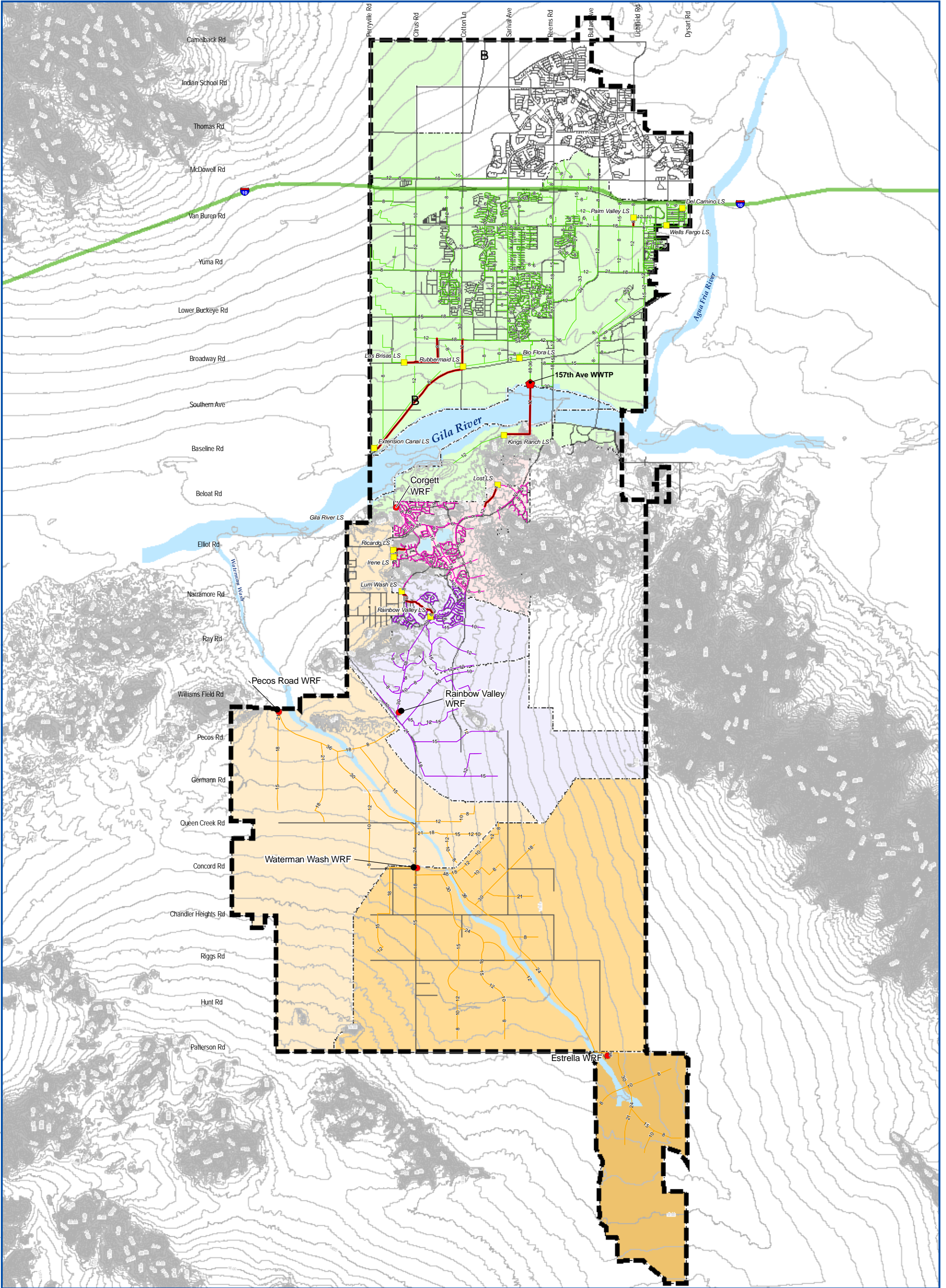
Basin Name	Load Category	Average Dry Weather Flow (mgd)
157 th Ave	Residential	7.20
	Commercial	9.42
Total load allocated to 157 th Ave. Basin =		16.62
Corgett	Residential	1.60
	Commercial	0.20
Total load allocated to Corgett Basin =		1.80
Rainbow Valley	Residential	4.56
	Commercial	1.00
Total load allocated to Rainbow Valley =		5.56
Waterman Wash	Residential	15.59
	Commercial	3.12
Total load allocated to Waterman Wash Basin =		18.71
Total Allocated Load in Goodyear Service Area =		42.69
Total Calculated ADWF (Land Use Spreadsheet) =		42.70



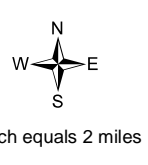
For buildout scenarios, the total load allocated to the model is 42.7 mgd which is the same as the spreadsheet calculated load. This shows an extremely good correlation between the calculated and allocated values.

2.4 INTERMEDIATE YEAR MODEL

The intermediate year model, shown in Figure 7, extends service outward to accommodate projected areas of growth; matching the same limits shown for the Intermediate Year Water and Non-Potable Water models. The boundaries of the intermediate growth were projected from information provided by developers and input from the City and is discussed further in TM1-2. As growth occurs in each basin, the collection system should be extended outward by constructing lines of the indicated size required for buildout flow.



\\Projects\GoodYear\11\GIS\01\MapDocuments\Buildout\Collection_System.mxd Christina Hassell 27 Aug 2007



- Legend**
- Master Plan Study Area
 - Street
 - Water Reclamation Facility
 - Wastewater Treatment Plant
 - Lift Station

- Pipes**
- Force Main
 - 157th Avenue
 - Corgett
 - Rainbow Valley
 - Waterman Wash

- Basins**
- 157th Ave WWTWP Basin
 - Corgett Basin
 - Rainbow Valley Basin
 - Waterman Wash Sub-basin 1
 - Waterman Wash Sub-basin 2
 - Waterman Wash Sub-basin 3

Figure 7
Intermediate Year Collection System
 Integrated Water Master Plan
 City of Goodyear, AZ
 2007



Revised: Wednesday, March 26, 2008



3.0 HYDRAULIC ANALYSIS

Hydraulic model-based analyses are valuable tools for conducting system-wide master planning studies such as the City of Goodyear's 2007 Master Plan.

3.1 SUMMARY OF ANALYSES

A number of model scenarios were formulated in order to analyze collection system performance and determine the improvements required to provide service under future wastewater flow conditions. The hydraulic model studies were all performed using extended period simulations (EPS) or dynamic modeling. This approach considers diurnal variations in flow input and differences in travel time for system flow peaks (time of concentration) as well as system filling and draining. The following list summarizes the EPS hydraulic analyses performed.

- Base year Average Dry Weather Flow
- Base year Peak Dry Weather Flow
- Base year Peak Wet Weather Flow
- Base year Peak Wet Weather Flow + 1,000 gpm LPSCO Flow
- Buildout Average Dry Weather Flow
- Buildout Peak Dry Weather Flow
- Buildout Peak Wet Weather Flow

Model output from the above runs was analyzed and recommended improvements to the collection system were identified with the goal of:

- Identifying locations in the existing collection system where overloading or surcharging will occur under current or future loadings.
- Providing relief to overloaded segments in the most efficient manner either by paralleling or replacing sewer lines or re-routing future flow.
- Designing the collection system serving each basin so as to minimize lift stations.
- Determining the optimum slope and diameter for all new pipelines so that adequate velocity is maintained at an efficient depth of flow (d/D).

This section will document the hydraulic analysis performed for the City's existing and buildout collection system.



3.2 DESIGN PARAMETERS

The evaluation of the collection system is based on fundamental engineering guidelines. These include relief sewers for surcharged pipes sized using existing slopes for parallel pipe alignment, upgrading pumping stations and force main capacity as appropriate, and extending the collection system to serve future development areas. The general criteria used for hydraulic analysis and design of the wastewater collection system are shown in Table 9. Additional guidelines from ADEQ Bulletin 11 were used where applicable.

Table 9: Hydraulic Design Criteria

Criteria	Value
Velocity - Gravity Sewer	
Minimum Average Velocity	2.5 fps
Maximum Velocity	10 fps
Velocity - Force Main	
Minimum Average Velocity	2.0 fps
Maximum Velocity	6.0 fps
Depth of Flow (d/D)	
Peak Dry Weather Flow	0.60
Peak Wet Weather Flow	0.65
Depth to Invert	12 – 20 ft.
Capacity Calculation	
Mannings (n)	0.013
Treatment Plant Nominal Capacity	Annual Average Day
Lift Station Firm Capacity	Peak Wet Weather Flow

In the hydraulic model results, an overloaded pipe is defined as a pipe carrying flow equal to, or greater than, the pipe’s “design capacity”. Design capacity of a gravity sewer pipe is defined as the flow which generates a liquid depth of 65 percent of the pipe diameter under PWWF conditions. This is a common criterion for the design of new collection systems.



3.3 BASE YEAR HYDRAULIC ANALYSIS

The base year collection system analysis consisted of three basins and conveyance of LPSCO flows to the 157th WWTP.

3.3.1 157th Ave WWTP Basin

PWWF loadings were run in the base year model and Figure 8 shows those locations where the design d/D of 0.65 was exceeded including:

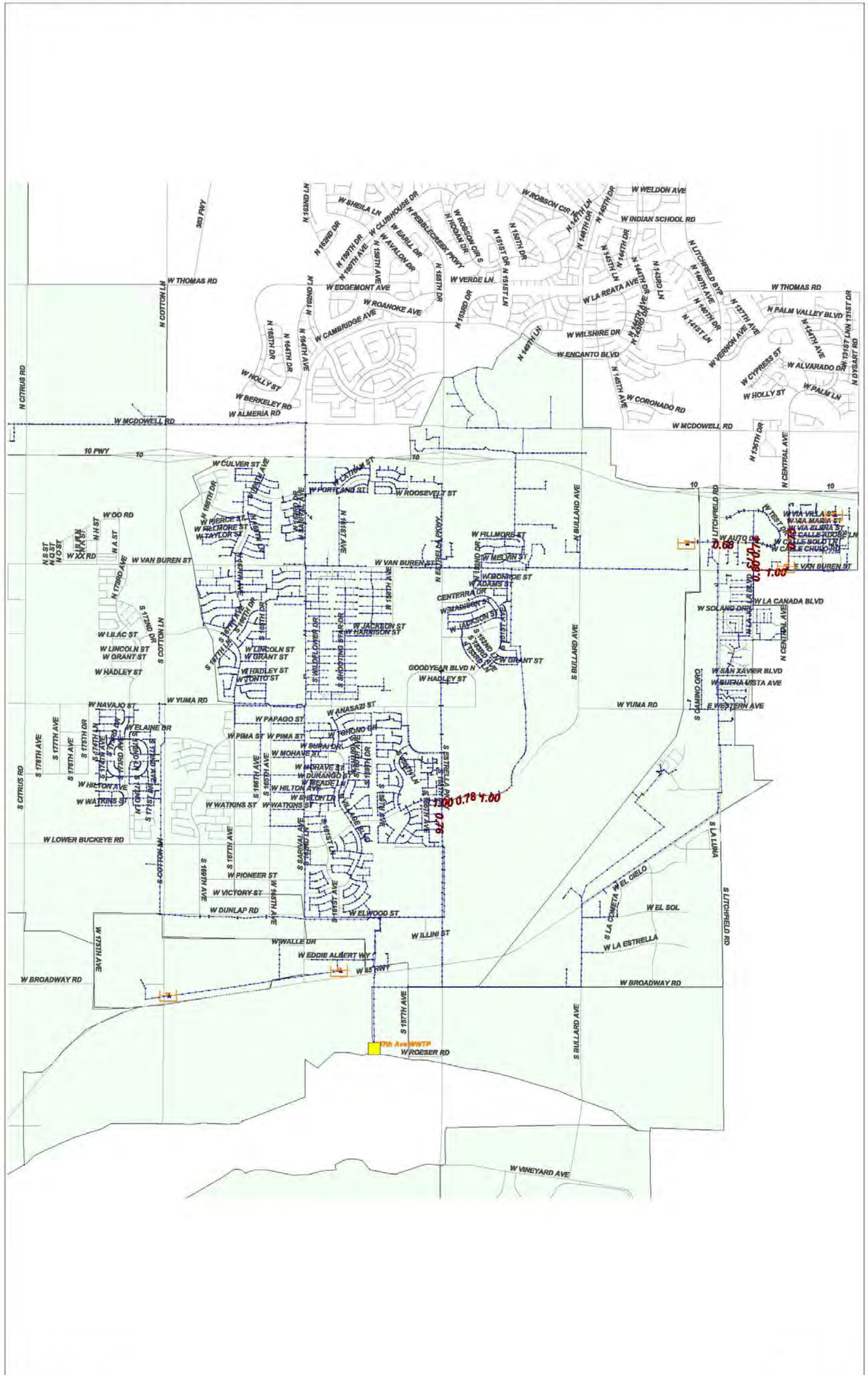
- The 12-inch line connecting into the 33-inch pipeline along S Bullard Ave.
- Pipeline downstream of the Del Camino Lift Station during PWWF.
- Surcharging downstream of Wells Fargo Lift Station.

No improvements were recommended in these specific areas as the overloading is not currently severe and it was possible to re-route flow through later collection system improvements associated with buildout. The future improvements, provided in other areas, were shown to relieve the stress points seen in the base year model. The pump settings at the Wells Fargo lift station should be revised to operate such that under normal fill and drain only one pump comes on. These areas should be monitored until the future improvements are made.



Figure 8 City of Goodyear - Integrated Master Plan

Maximum d/D Greater than 0.65 - PWWF Base-Year Model



Prepared By: Black & Veatch

Date: November 2007

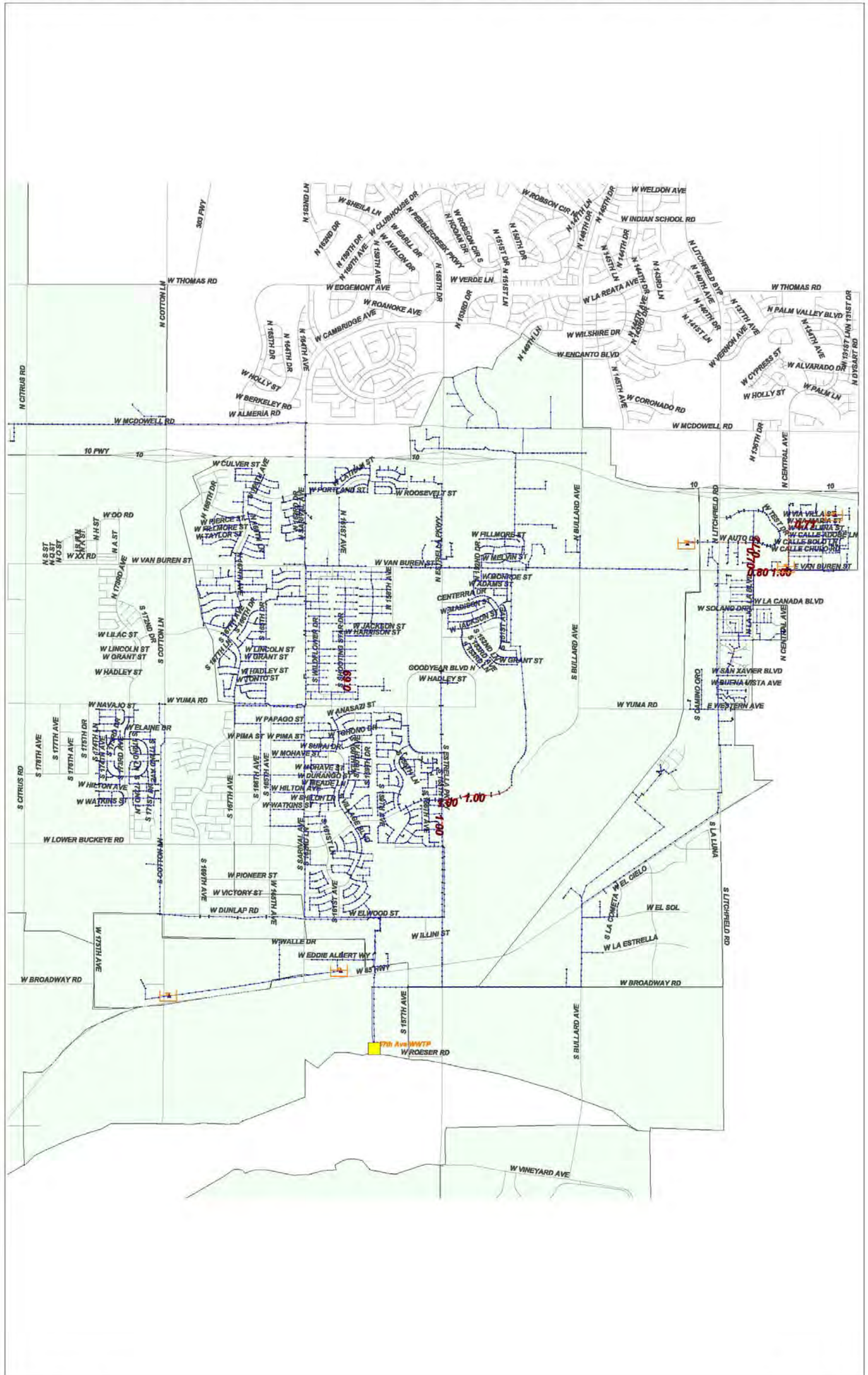


LPSCO Conveyance Capacity (1,000 gpm). The ability of the Goodyear collection system to temporarily convey 1,000 gpm from LPSCO to the 157th WWTP was also tested in the base year model. The flow was assumed to be input at McDowell and Sarival Ave. as a steady 1,000 gpm load. Figure 9 shows the resulting d/D hydraulic loadings in the Sarival Ave sewer when the LPSCO input is added to base year PWWF. It can be seen that the LPSCO input can be accommodated without causing the collection system to overload or surcharge.



Figure 9 City of Goodyear - Integrated Master Plan

Maximum d/D Greater than 0.65 - PWWF Base-Year with 1000 gpm from LPSCO



Prepared By: Black & Veatch

Date: November 2007

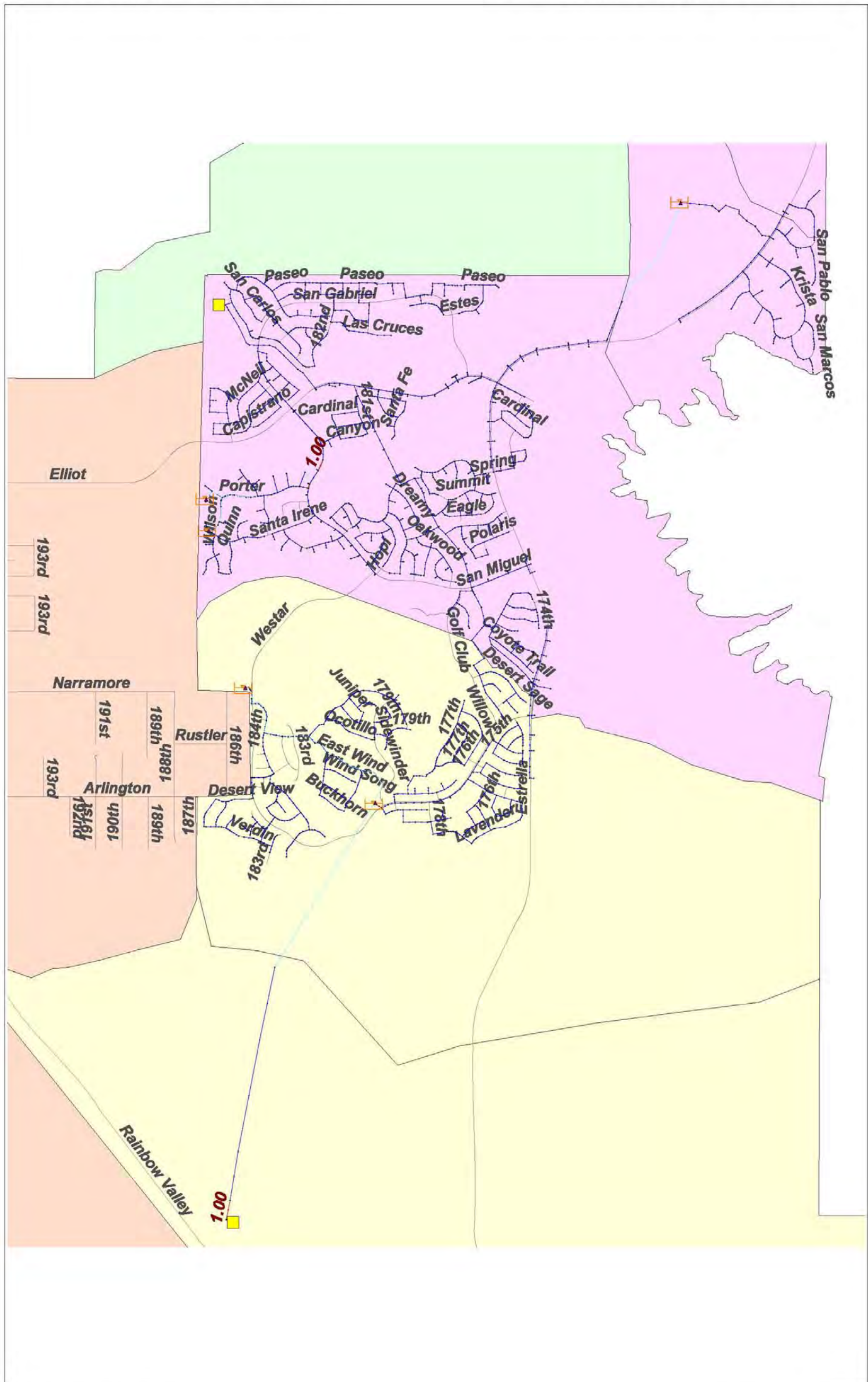


3.3.2 Corgett and Rainbow WRF Basins

Base year hydraulics was run for the Corgett and Rainbow basins and the model output results for PWWF are shown in the Figure 10. It can be seen that there are no significant areas where the design d/D of 0.65 was exceeded. Hydraulic performance within the Corgett and Rainbow basins is currently acceptable.

Figure 10 City of Goodyear - Integrated Master Plan

Maximum d/D Greater then 0.65 - PWWF Base Year Model



Prepared By: Black & Veatch

Date: November 2007



3.4 BUILDOUT HYDRAULIC ANALYSIS

Following the base year analysis, the gravity mains were analyzed under the projected buildout conditions. Figure 11 shows the resulting recommended buildout wastewater infrastructure layout for the 157th Ave Basin along with the recommended sewer main diameters. Figure 12 shows the resulting recommended buildout wastewater infrastructure layout for the Corgett, Rainbow Valley, and Waterman Wash Basins. Detailed hydraulic reports showing pipe performance can be found in Appendix D.

3.4.1 157th Ave WWTP Basin Results

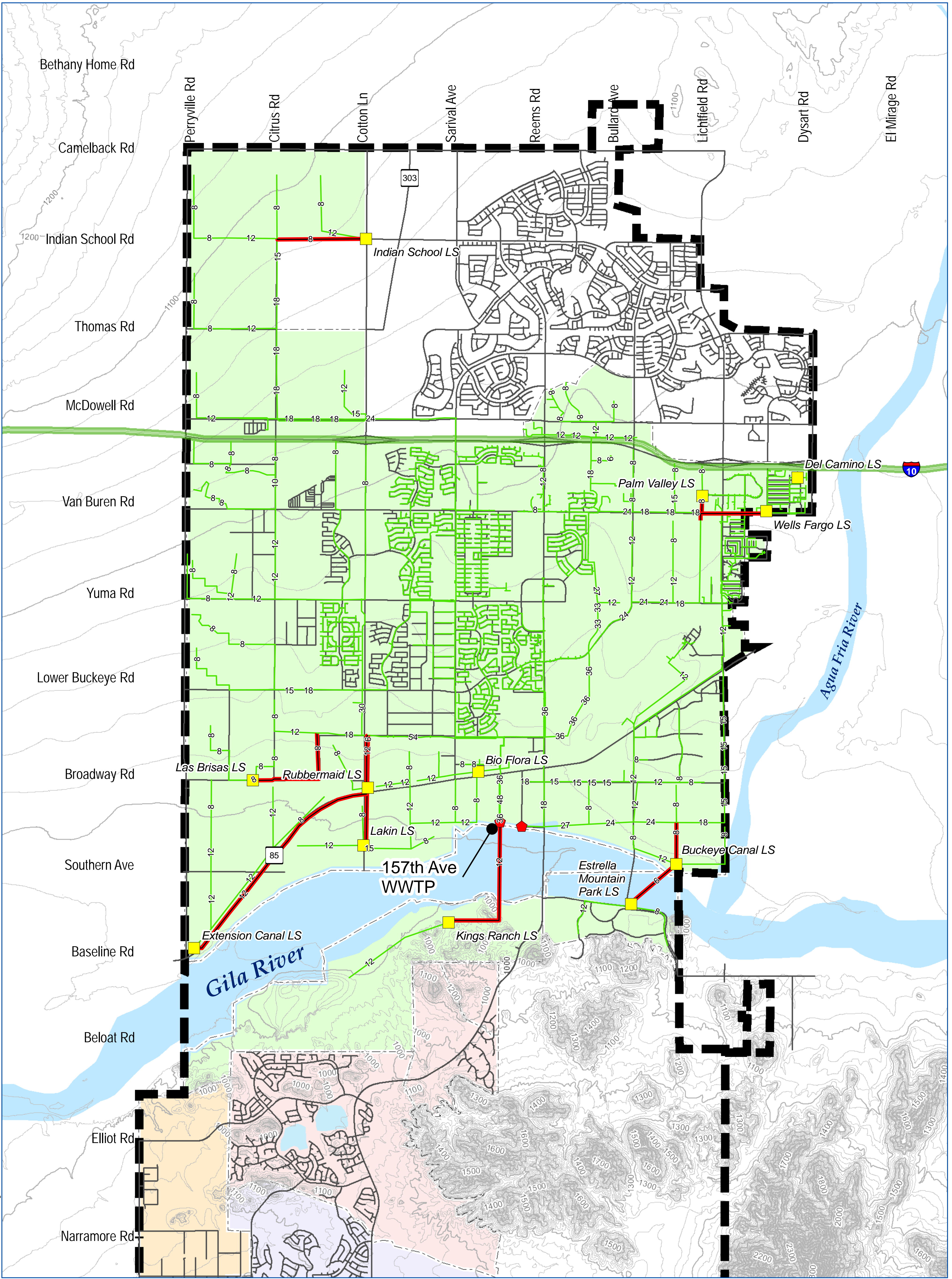
Overloading of existing collection lines was generally solved through implementation of the buildout system. There are few segments of existing pipelines which exceed d/D of 0.65 under PWWF, however the overloading is minimal (no surcharging) and it was not judged severe enough to merit line replacement or paralleling.

The resulting analysis of the 157th Ave WWTP Basin under buildout loading is presented in the following section.

157th Ave WWTP Influent. Buildout PDWF and PWWF loadings were applied to the 157th Ave WWTP Basin and Figure 13 shows the resulting inflow curves for the 157th WWTP. Table 10 shows the resulting ADWF, PDWF and PWWF values for the 157th Ave WWTP.

Table 10: 157th Ave WWTP Flow Results

	ADWF (mgd)	PDWF (mgd)	PWWF (mgd)
Peak Flow rate	23.56	35.64	40.13
Average Flow rate	16.70	26.23	27.32
Min Flow rate	10.15	15.95	16.23



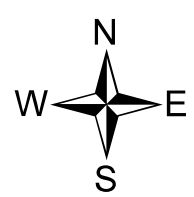
Legend

- Master Plan Study Area
- Street
- Lift Station
- Wastewater Treatment Plant
- Pipes**
- Force Main
- 157th Avenue

Basins

- 157th Ave WWTP Basin
- Corgett Basin
- Rainbow Valley Basin
- Waterman Wash Sub-basin 1
- Waterman Wash Sub-basin 2
- Waterman Wash Sub-basin 3

Figure 11
Build Out Collection System
157th Avenue Basin
 Integrated Water Master Plan
 City of Goodyear, AZ
 2007

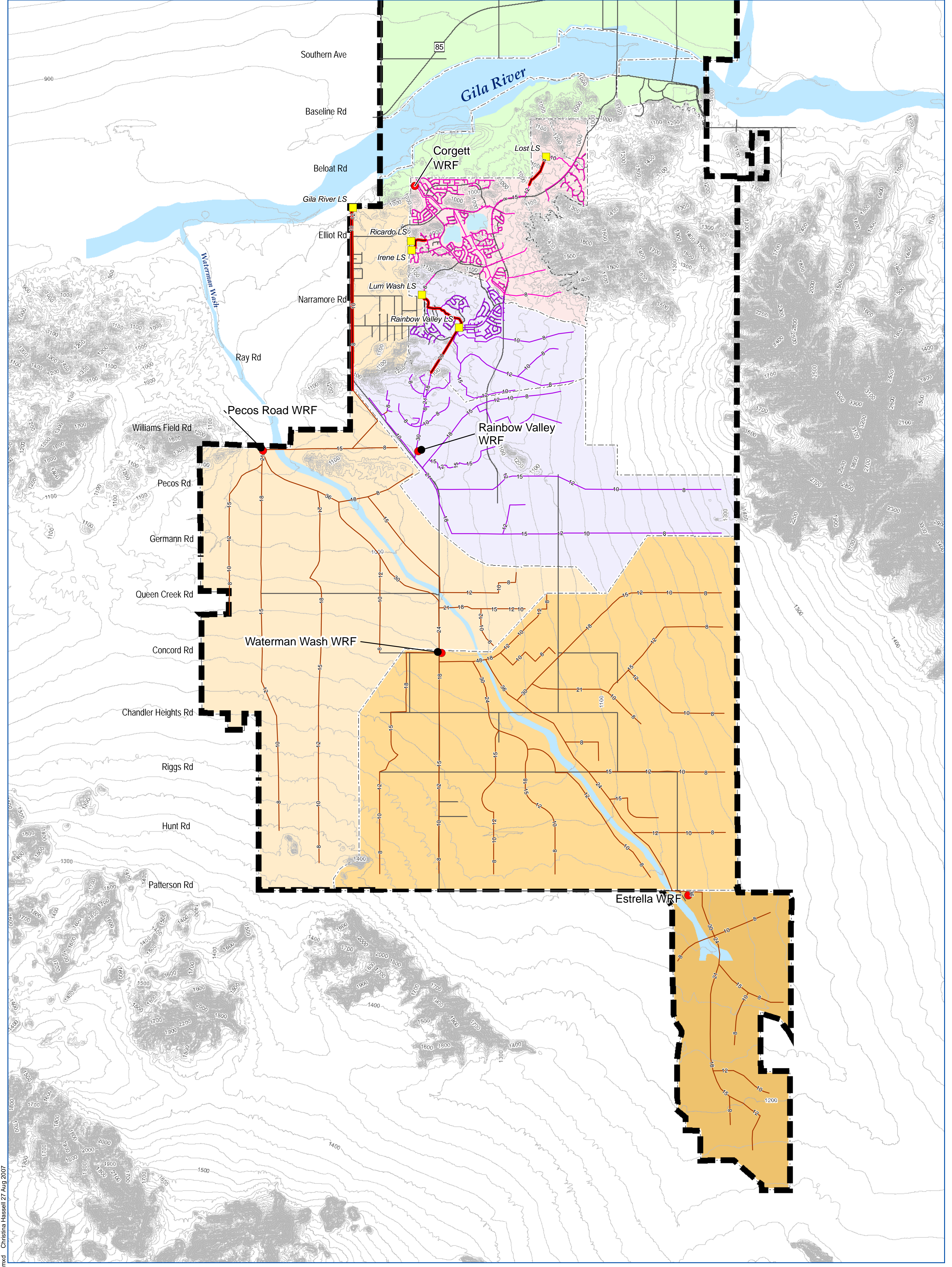


1 inch equals 0.5 miles

Data Sources:
 City of Goodyear GIS
 Wastewater Model
 ESRI



I:\Projects\Goodyear\GIS\01\MapDocuments\BuildOutCollection\System.mxd Christina Hassell 27 Aug 2007



\Projects\Goodyear\GIS\01\MapDocuments\BuildoutCollectionSystem.mxd Christina Hassell 27 Aug 2007



1 inch equals 0.8 miles

Legend

- Master Plan Study Area
- Street
- Lift Station
- Water Reclamation Facility
- Force Main
- Corgett
- Rainbow Valley
- Waterman Wash

Basins

- 157th Ave WWTP Basin
- Corgett Basin
- Rainbow Valley Basin
- Waterman Wash Sub-basin 1
- Waterman Wash Sub-basin 2
- Waterman Wash Sub-basin 3

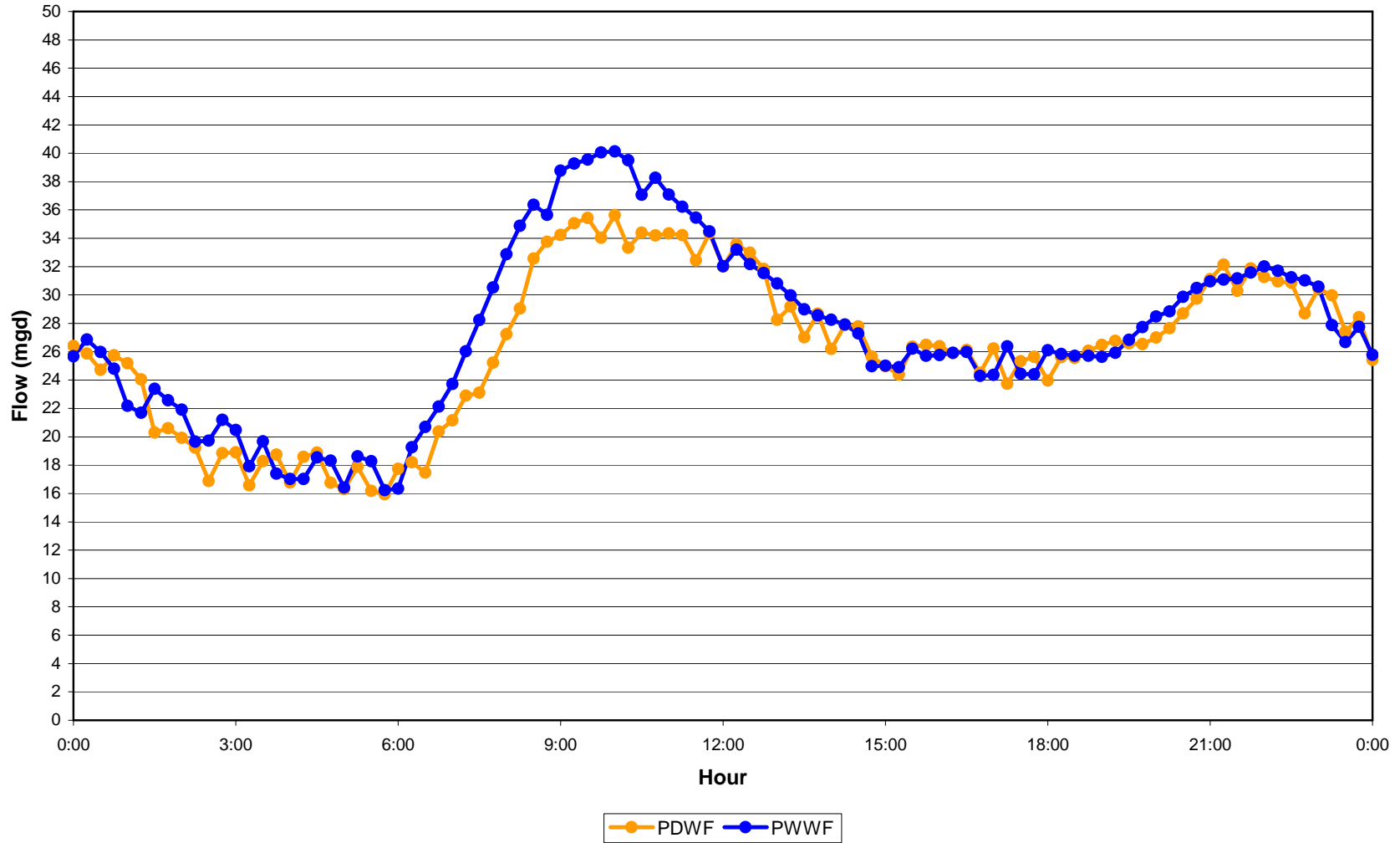
Figure 12
Build Out Collection System
Corgett, Rainbow Valley,
& Waterman Wash Basins

Integrated Water Master Plan
 City of Goodyear, AZ
 2007





Figure 13 City of Goodyear - Integrated Master Plan
157th Ave WWTP Inflow Curves - 2045





It should be noted that the flow rates shown above are the resulting composite of flow from the North Plant and East Plant interceptors and Kings Ranch Lift Station. The resulting factors for PDWF and PWWF are as shown in the following table. It should be noted that the flow rates and factors shown are the actual collection system response as predicted by the model at buildout. They do not include a factor of safety and are provided so the plant designers can see the characteristic response predicted for the basin. The factors actually used for the design of the water reclamation facility should include an appropriate margin of safety.

Table 11: 157th Ave WRF Influent Peaking

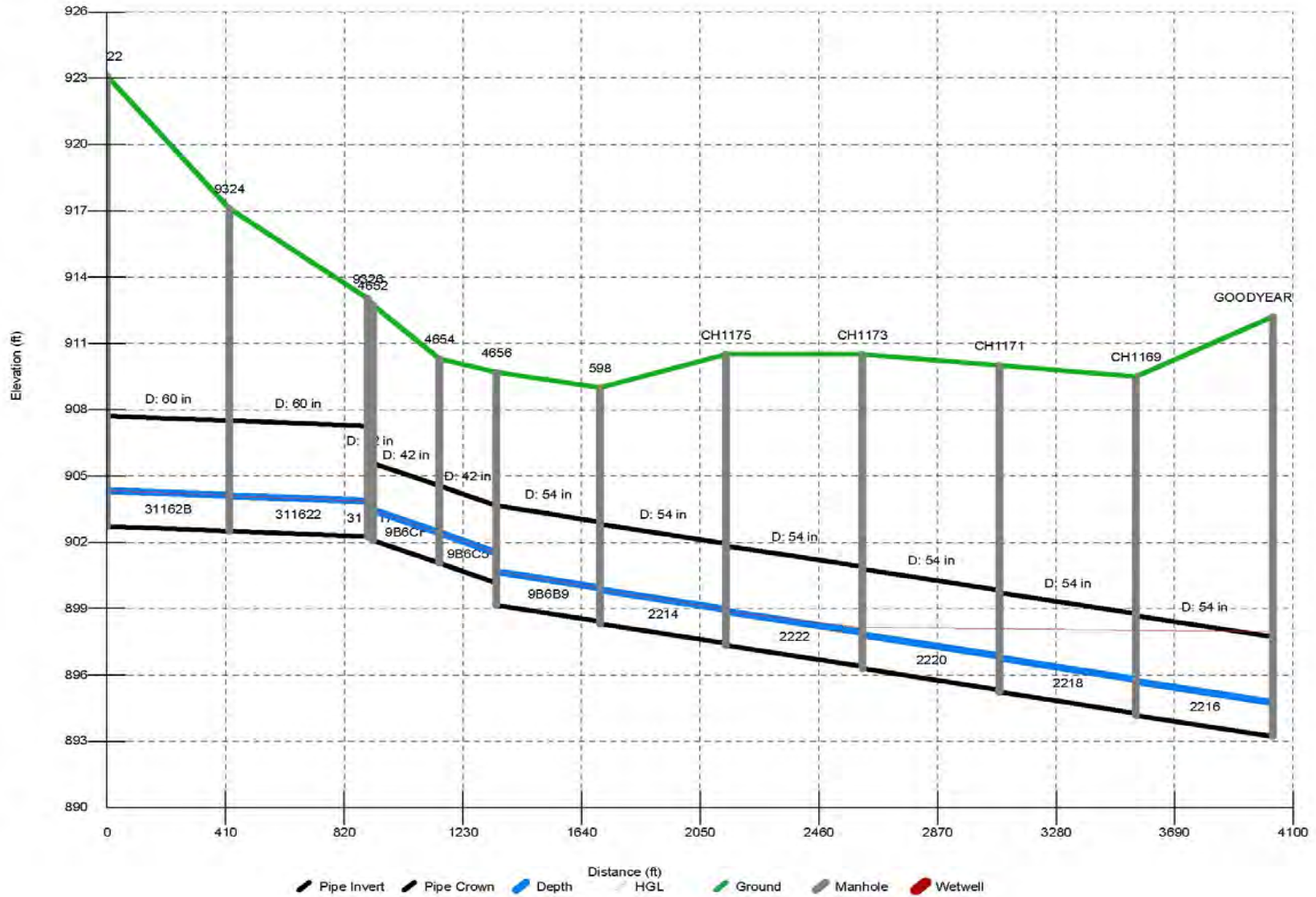
Peaking Factor	Buildout
PDWF to ADWF	2.13
PWWF to ADWF	2.40

North Plant Interceptor. A new North Plant Interceptor was modeled to handle incoming flow delivered primarily through the Dunlap Ave and the Bullard Wash Interceptors. The hydraulic capacity of the existing interceptor is adequate to carry buildout flow rates to junction 4656 (end of pipe 9B6C5), just south of the railroad line, at which point a new 48-inch line (paralleling the existing 36-inch line) will connect to the 157th Ave WWTP. The parallel 24-inch line will be abandoned. Figure 14 shows the profile, diameters and the resulting d/D values for existing and new pipelines in the North Interceptor under PWWF loadings. Additional model output showing detailed hydraulic performance can be found in Appendix D. The depth of the North Plant Interceptor invert at the point of connection to the influent pumping station was limited to 15 feet in order to minimize groundwater impacts during construction.

Appendix F includes the addendum to this TM and discusses alternative configurations for the 157th Ave WWTP north interceptor.



Figure 12 - North Interceptor Pipe Profile @ 03:00



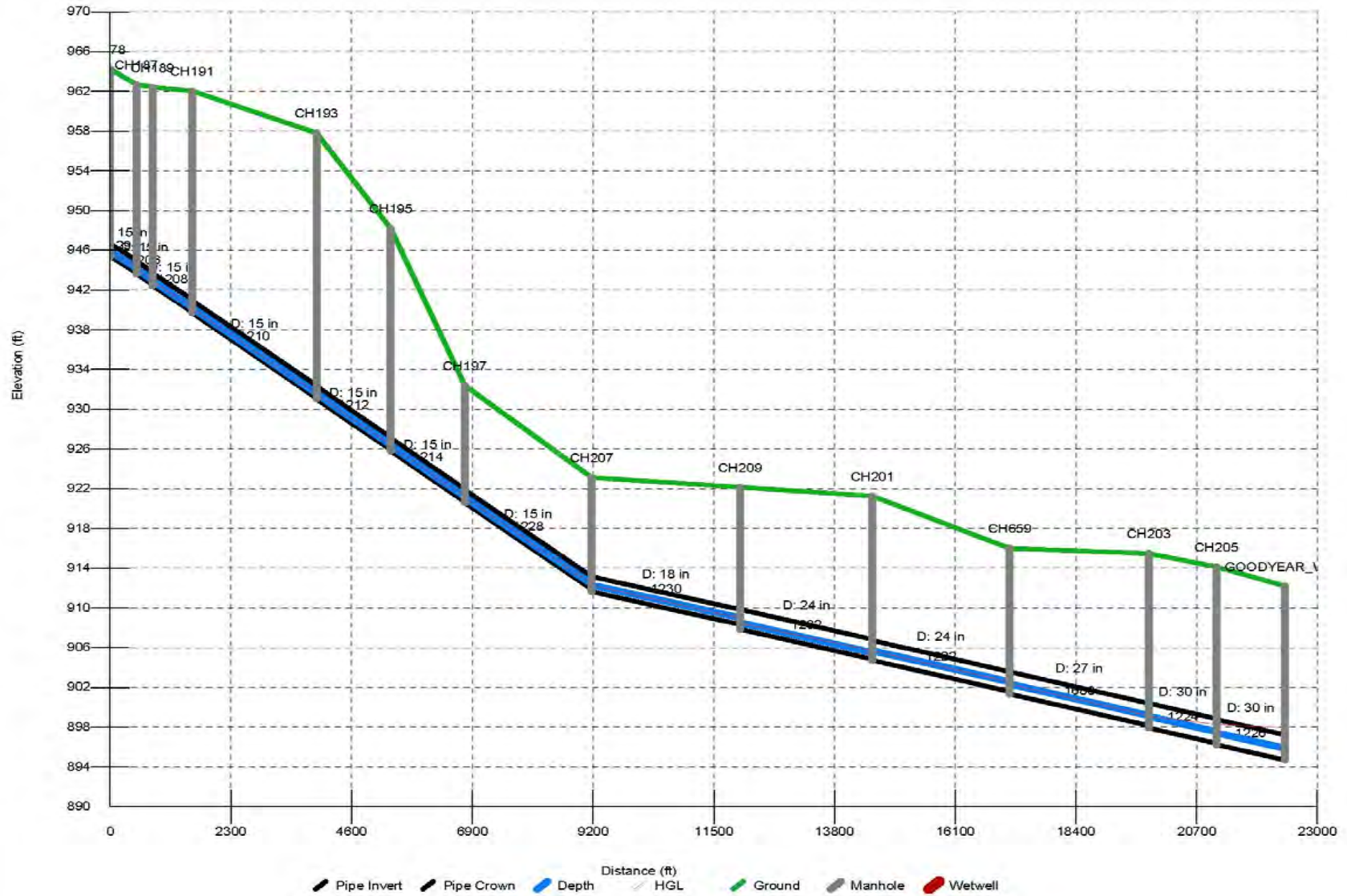


East Plant Interceptor. The new 30-inch East Plant Interceptor was designed to extend service into currently un-sewered areas to the east of the plant and to operate by gravity flow. Figure 15 shows the pipeline profile, diameters and the resulting d/D values under PWWF loadings. Additional model output showing detailed hydraulic performance can be found in Appendix D. The elevation of the interceptor at its point of discharge into the 157th Ave WWTP is designed to match (crowns) with the proposed 54-inch North Plant Interceptor., allowing a single influent pumping station to serve both.

In addition to serving areas of new development in the east, the new interceptor diverts flow which is currently conveyed southward along Litchfield Park Ave and then along the 15-inch line in MC 85 and re-routes this flow through the new interceptor. Doing so frees-up capacity in the MC 85 sewer line to handle increased future flow collected south of the airport.



Figure 13 - East Interceptor Pipe Profile @ 07:15





Wells Fargo and Palm Valley Lift Stations. The Wells Fargo and Palm Valley Lift Stations are duplex stations currently equipped as shown in Table 12 below. Additional model output showing detailed lift station performance can be found in Appendix C. The capacity of both stations is to be increased as shown in order to handle buildout PWWF. The Figure 16 shows that surcharging will occur in the collection system downstream of the Wells Fargo Lift Station once the duplex lift station is expanded to cover the buildout PWWF.

Table 12: Wells Fargo and Palm Valley Lift Station Capacities

Lift Station Name	PWWF	Installed Capacity	Firm Capacity	Force main
WELLS FARGO				
Current Capacity	0.46	0.80	0.40	6
Build-out Capacity	0.39	0.80	0.40	6
PALM VALLEY				
Current Capacity	0.56	1.00	0.50	8
Build-out Capacity	0.62	1.20	0.60	8

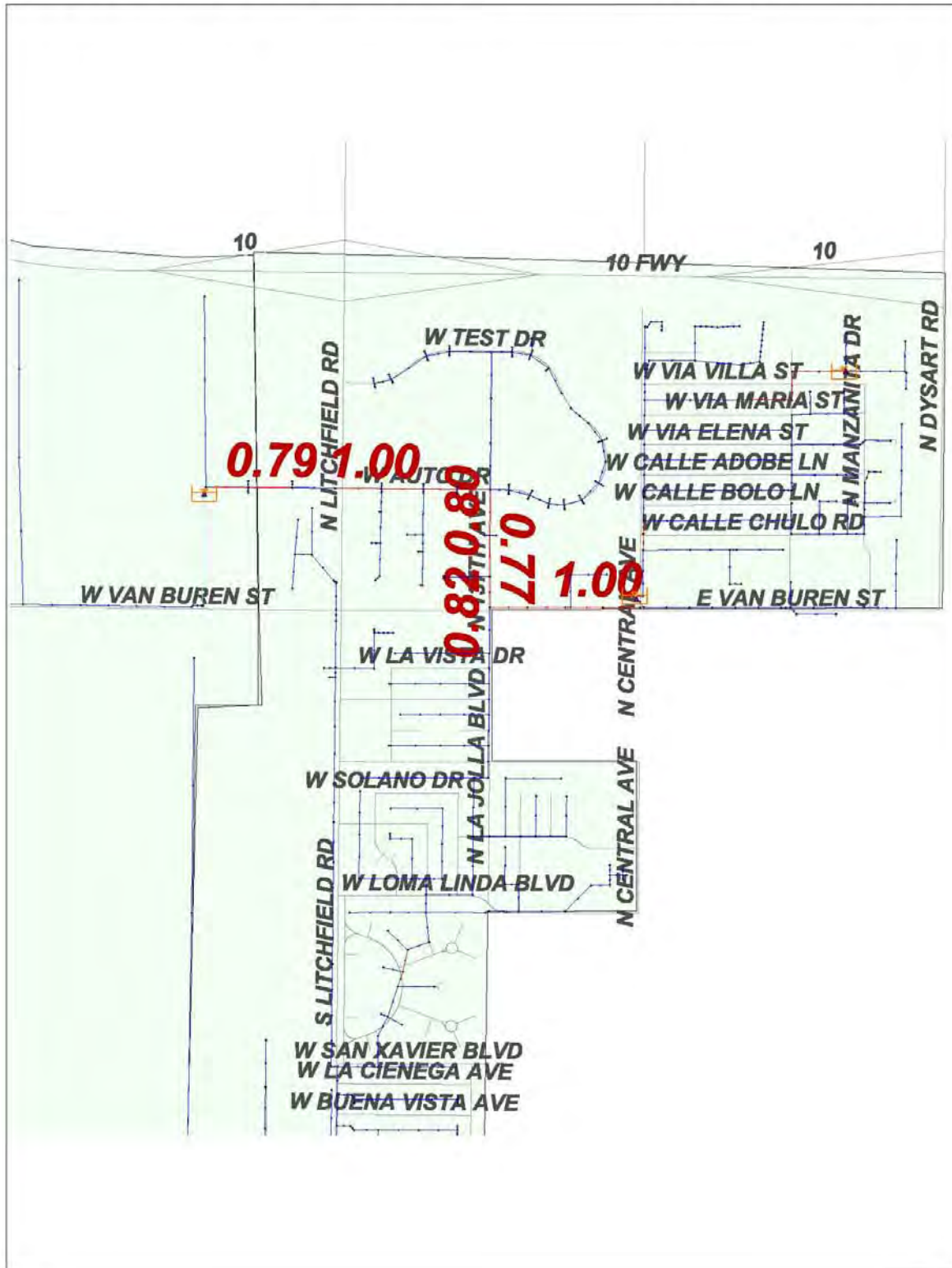
To alleviate the surcharging, a new force main is to be constructed at the time that the new pumps are installed in the Wells Fargo Lift Station and the discharge point is to be re-located to the upper end of a proposed sewer line in the Bullard Wash system as shown in Figure 17.

Re-routing the Wells Fargo discharge eliminates the surcharging and also frees up sufficient capacity in the Palm Valley Lift Station system to accommodate increased build-out loadings without surcharging. Elimination of the Palm Valley Lift Station was considered, however the incoming sewer lines are too deep for connection southward to the Bullard Wash system and must continue to be pumped.



Figure 14 City of Goodyear - Integrated Master Plan

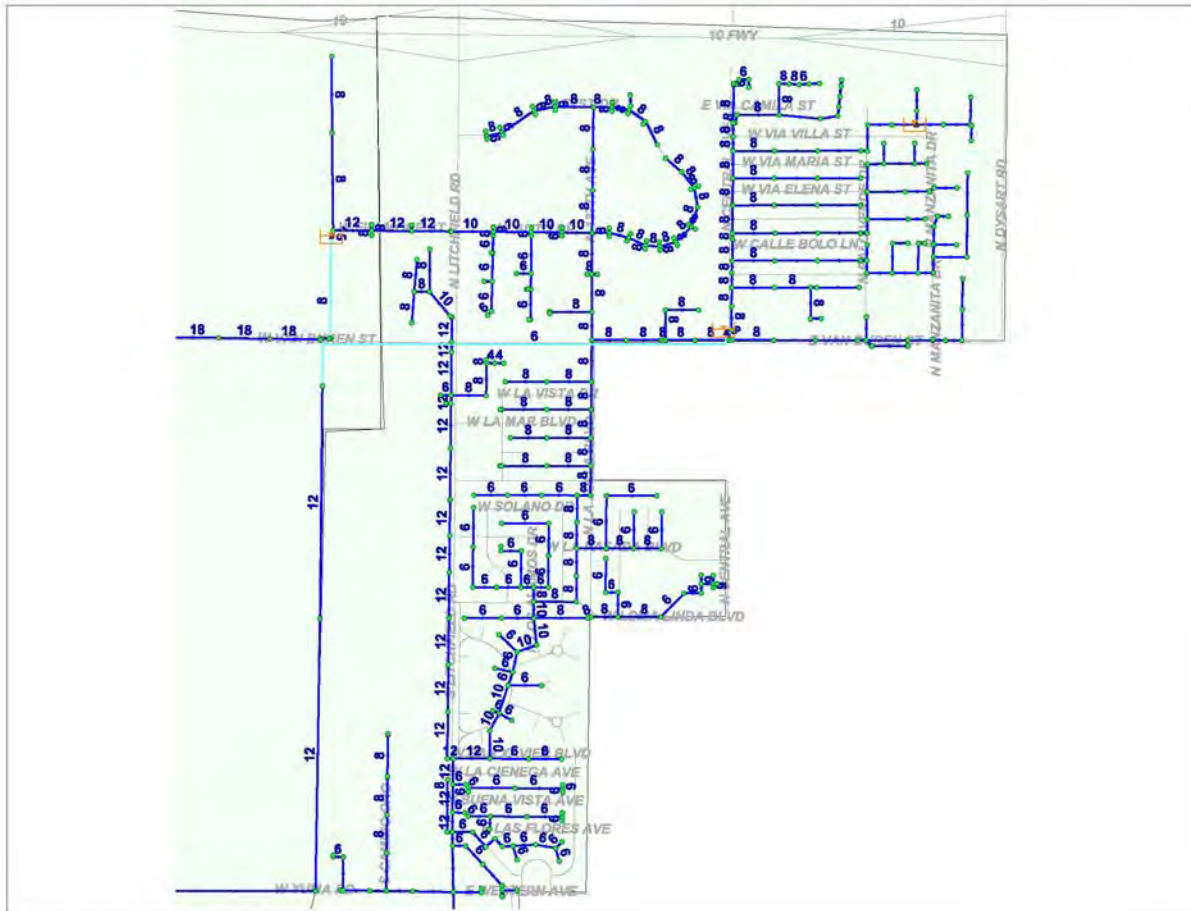
Maximum d/D Greater than 0.65



Prepared By: Black & Veatch

Date: November 2007

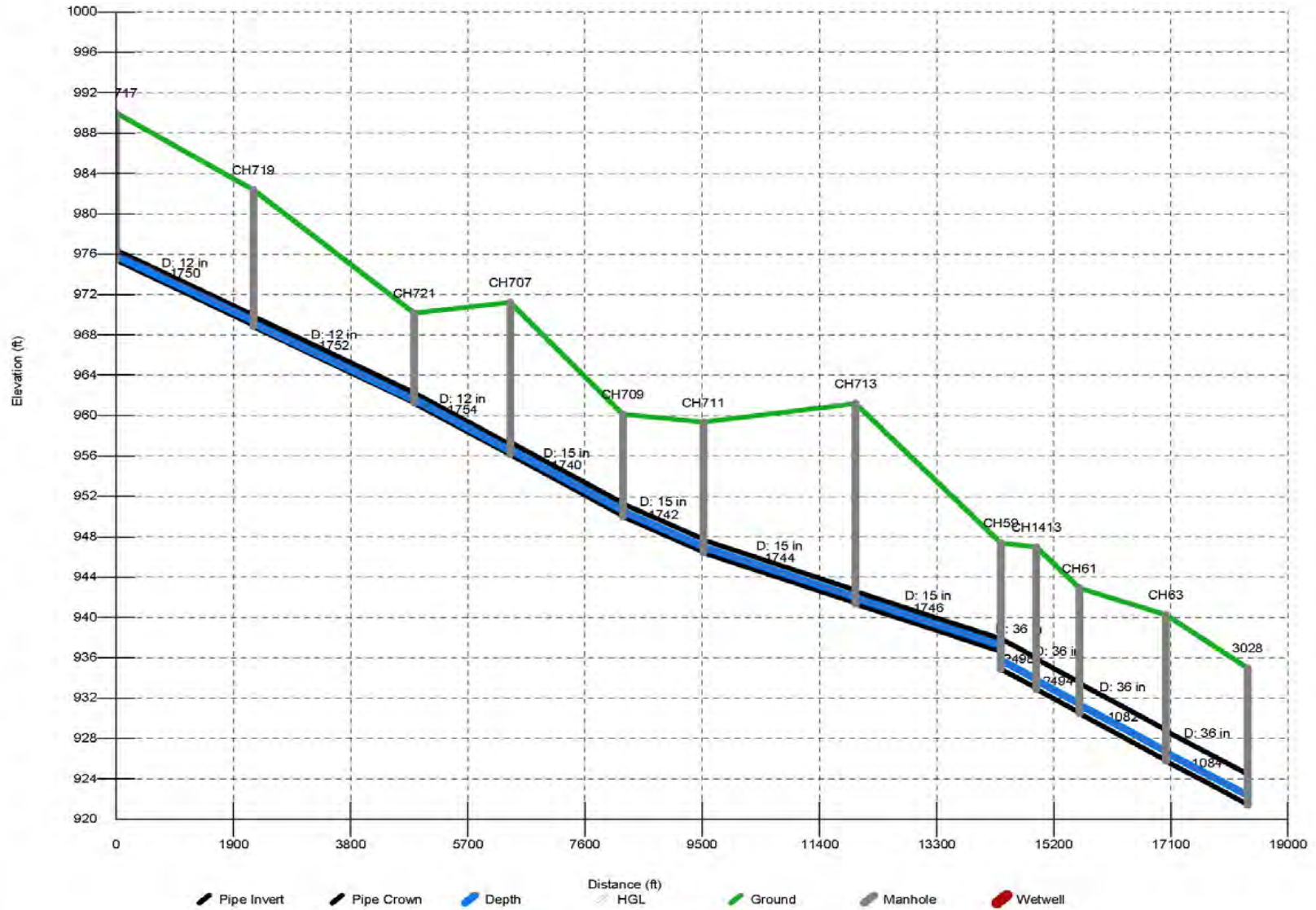
Figure 17: Wells Fargo Lift Station Force Main Re-alignment



Bullard Wash Collector. The new 36-inch Bullard Wash Interceptor was designed to extend service, by gravity flow, into currently un-sewered areas along Bullard Wash and north of the airport; roughly Bullard to Litchfiled and Yuma to Van Buren. Figure 18 shows the pipeline profile, diameters and the resulting d/D values under PWWF loadings. Additional model output showing detailed hydraulic performance can be found in Appendix D. In addition to serving areas of new development north of the airport, flow from the Wells Fargo Lift Station will be re-directed and will be input into a new 12-inch line in the upper reaches the Bullard Wash system as shown in Figure 17. This line also relieves the surcharging noted in the base year model in the 33-inch Lower Buckeye line.



Figure 16 Bullard Wash Collector Pipe Profile @ 07:00





Sub-basins 5,6,7. The currently unsewered sub-basins lying to the west along the Gila River are at elevations lower than the 157th Ave WWTP and must be pumped. Flow collected in sub-basins 5, 6 and 7 will generally flow south and westward to new lift stations, which will pump to the upstream end of the 54-inch Dunlap Sewer Interceptor from where the wastewater will flow by gravity to the 157th Ave WWTP. Table 13 below summarizes the capacity required at build-out for each of the lift stations. Additional model output showing detailed lift station performance can be found in Appendix C. A triplex lift station is recommended for the Lakin Lift Station to better accommodate the range of flow to be pumped from initial low flow to buildout peak flow.

Table 13: Sub Basins 5,6, and 7 Lift Station Capacities

	PWWF (mgd)	Installed Capacity (mgd)	Firm Capacity (mgd)	Force Main (in)
Lakin Lift Station	2.47	5.0	2.5	12
Extension Canal Lift Station	1.36	2.72	1.36	12
Las Brisas Lift Station	0.57	1.20	0.60	8
RUBBERMAID				
Current Capacity	0.12	0.60	0.30	4
Buildout Capacity	0.56	1.10	0.55	6
BIO FLORA				
Current Capacity	0.21	0.80	0.40	6
Buildout Capacity	0.47	0.92	0.46	6

King Ranch Lift Station. Flow collected in the King Ranch Basin is to be pumped northward, across the Gila River and directly to the 157th Ave WWTP. By pumping 0.86 mgd of ADWF (2.2 mgd PWWF) to the 157th Ave WWTP instead of the Corgett WRF, the buildout capacity of the Corgett WRF can be held to 1.8 mgd, which can be accommodated at the restricted site. Table 14 below summarizes the capacity required at buildout for the King Ranch lift station. Additional model output showing detailed lift station performance can be found in Appendix C. A triplex lift station is recommended to better accommodate the range of flow to be pumped from initial low flow to buildout peak flow.

Table 14: Kings Ranch Lift Station Capacities

	PWWF	Installed Capacity	Firm Capacity	Force main
Kings Ranch Lift Station	2.15	4.40	2.20	12



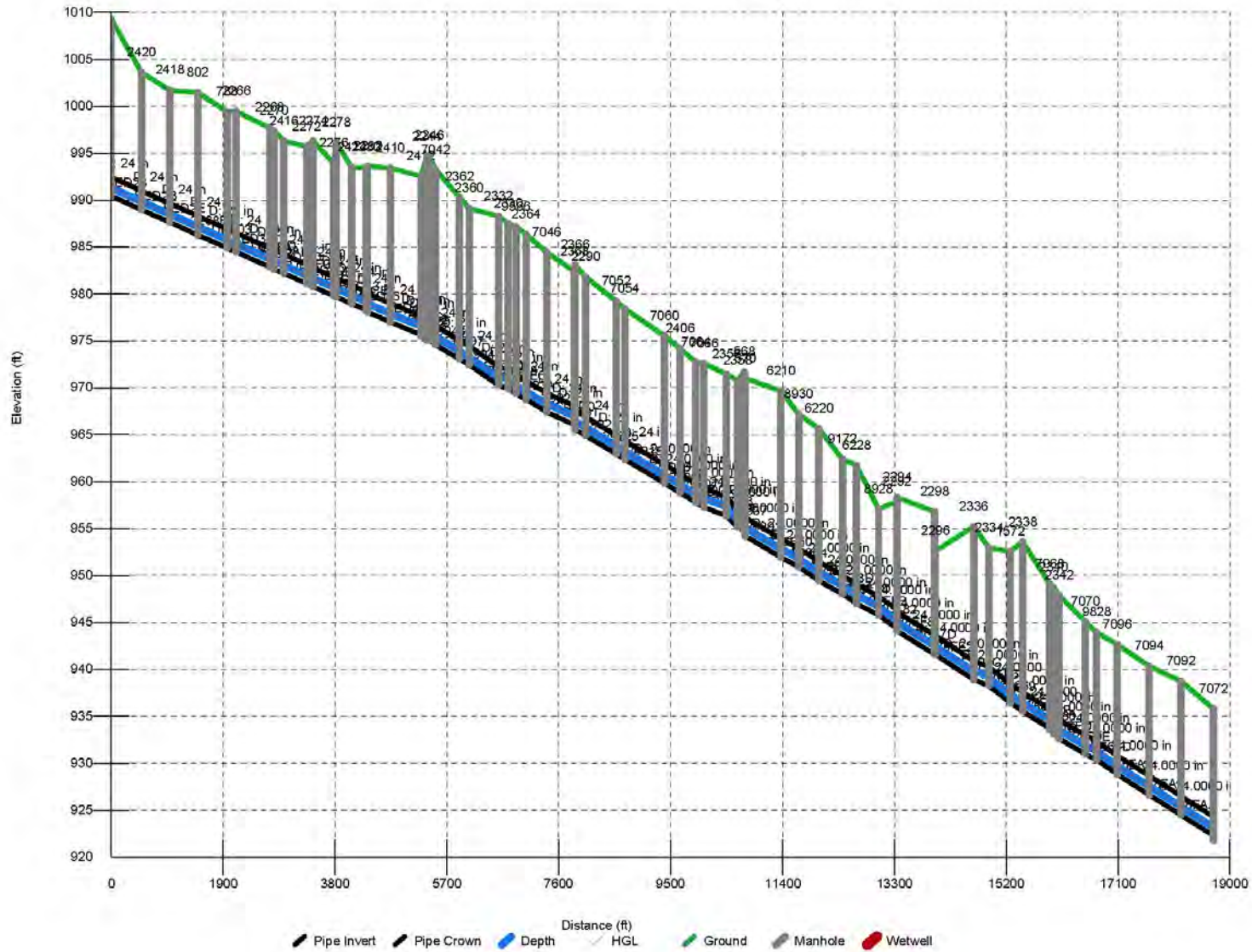
WPA-1 Collection System. A system of new sewers will extend service into five sections of currently un-sewered land in WPA-1. The flow collected will be delivered to the north end of the 24-inch Sarival Ave. collector and then conveyed through to the 157th Ave WWTP. Figure 19 shows the pipeline profile, diameters and the resulting d/D values under PWWF loadings. Additional model output showing detailed hydraulic performance can be found in Appendix D. A lift station will be required to serve WPA-1 and Table 15 below summarizes the capacity required at buildout. Additional model output showing detailed lift station performance can be found in Appendix C.

Table 15: Indian School Lift Station Capacities

	PWWF	Installed Capacity	Firm Capacity	Force main
Indian School Lift Station	0.75	1.50	0.75	8



Figure 17 - Sarival Ave. Pipe Profile @ 06:45

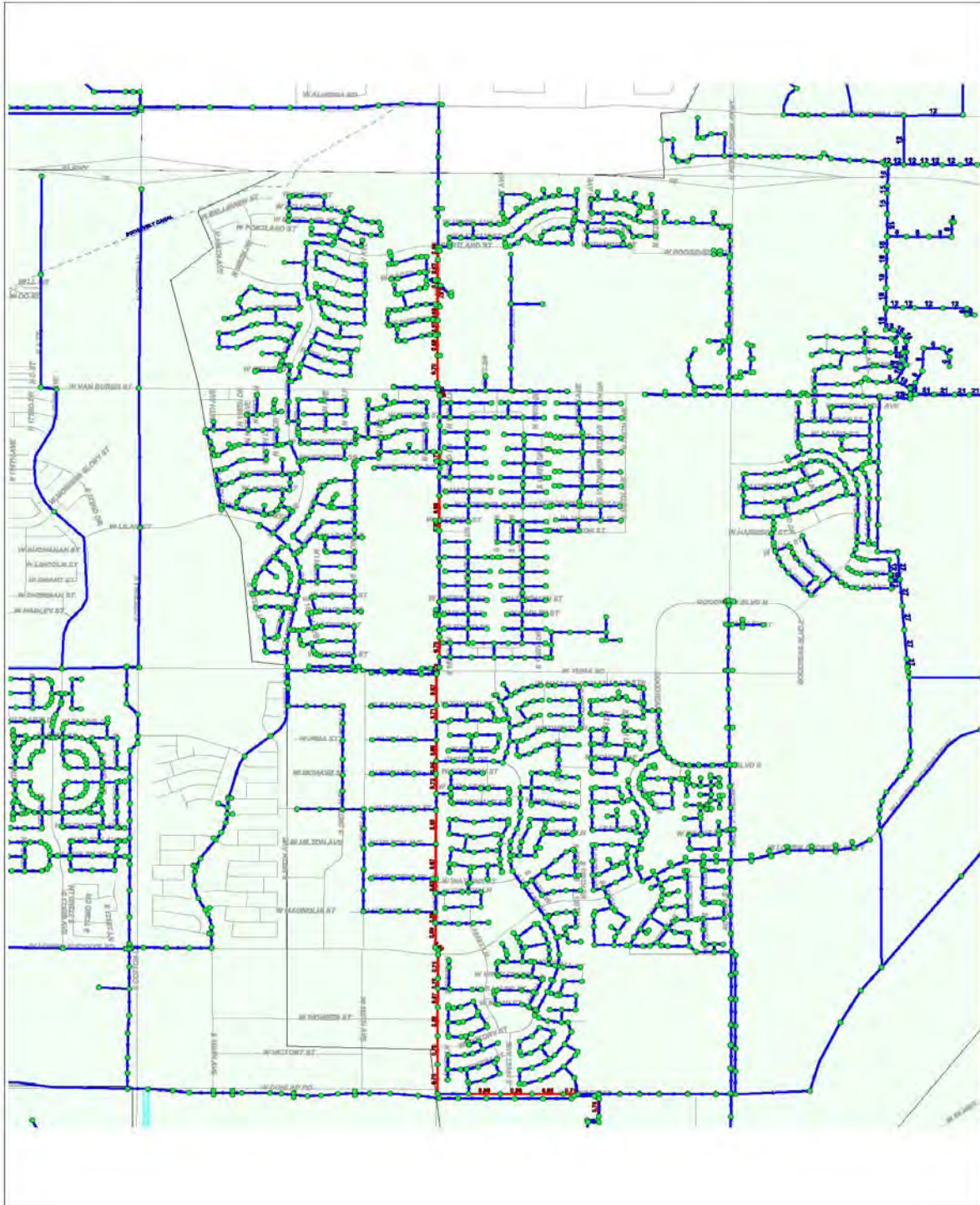




Sarival Ave. / Canyon Trails Collection System. Under buildout PWWF, the 24-inch line in Sarival Ave. will exceed the target PWWF d/D of 0.65 at buildout. This is partially due to the new loads which will come from WPA-1 to the north. In order to alleviate the surcharging, flow collected from approximately one square mile will be re-routed down the new Canyon Trails Collector and then through the Cotton Lane and Dunlap Collectors. Figure 20 shows the degree to which the new flow routing reduces loading in the Estrella Parkway line. While the target d/D value is exceeded, the line does not surcharge and the projected loadings do not warrant paralleling or replacing of the affected segments.



Figure 20: Sarival Ave. Maximum d/D Greater than 0.65





Increased 157th Ave WWTP Basin Loadings. In addition to the buildout loads derived from the Land Use Plan, the City wishes to consider the impacts of potential increased loadings within the 157th Ave WWTP Basin including:

- Conveyance of 4.0 mgd from LPSCO.
- Bullard Economic Corridor Development.

The new and increased flows are to be routed along Bullard Ave, Bullard Wash and then southward to the East Interceptor. An addendum to this TM, included in Appendix F, addressed the flow routing and hydraulic modifications proposed to accommodate this increase in flow.

3.4.2 Corgett WRF Basin

Overloading of existing collection lines was generally solved through implementation of the Buildout system. There are few segments of existing pipelines which exceed d/D of 0.65 under PWWF, however the overloading is minimal (no surcharging) and it was not judged severe enough to merit line replacement or paralleling. These segments should be monitored in future modeling efforts. All new collection mains added within the basin comply with the design criteria in terms of depth of flow and velocity under buildout loadings.

Corgett WRF Inflow Pattern. Build-out PDWF and PWWF loadings were applied to the Corgett WRF Basin and Figure 21 shows the resulting inflow curves for the Corgett WRF. Table 16 shows the resulting ADWF, PDWF and PWWF values for the Corgett WRF.

Table 16: Corgett WRF Flow Results

	ADWF	PDWF	PWWF
Peak Flow Rate	2.78	4.28	4.72
Average Flow Rate	1.84	3.00	3.02
Min Flow Rate	1.18	1.93	1.93

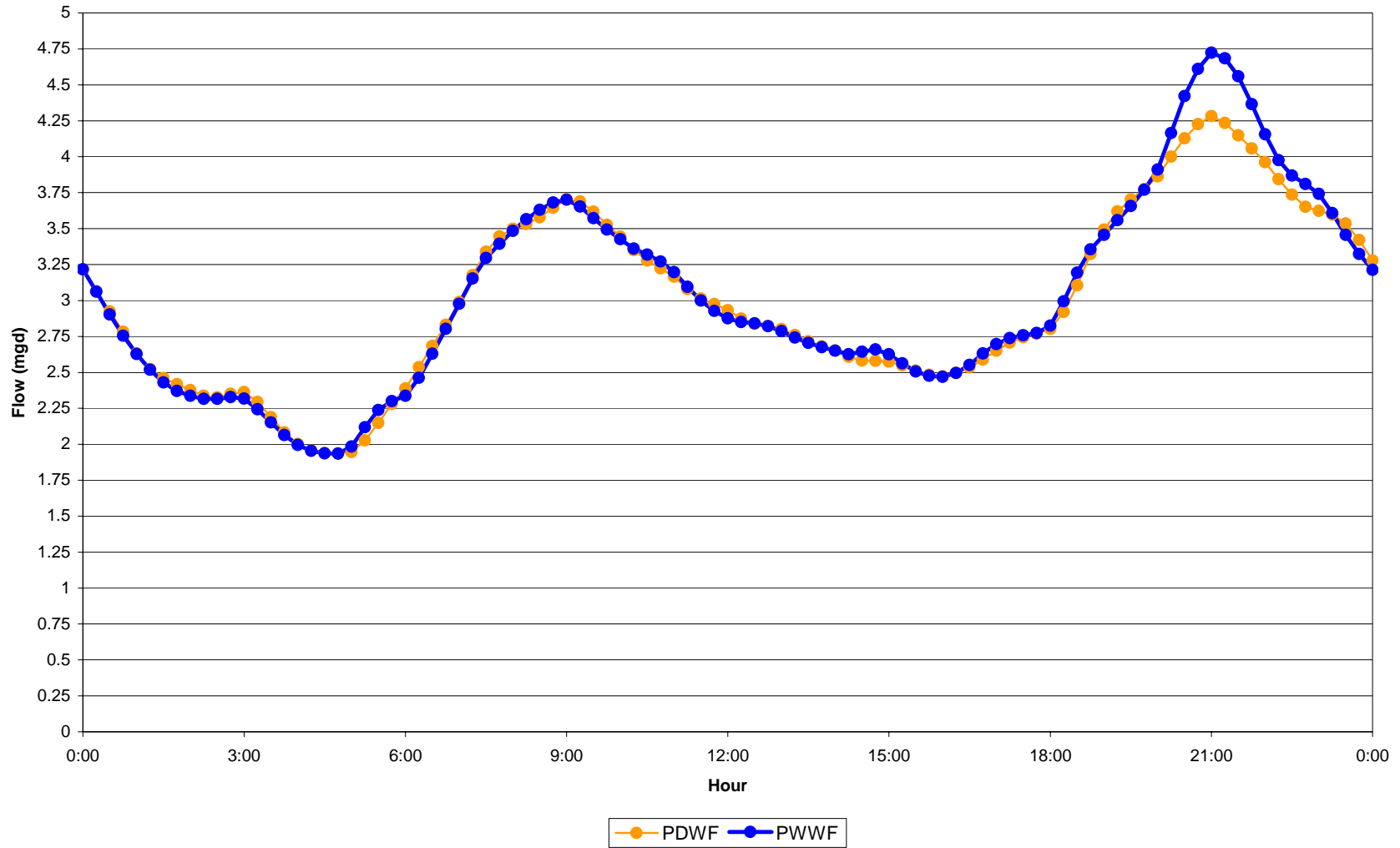
The resulting factors for PDWF and PWWF are as shown in the following Table 17. It should be noted that the flow rates and factors shown are the actual collection system response as predicted by the model at buildout. They do not include a factor of safety and are provided so the plant designers can see the characteristic response predicted for the basin. The factors actually used for the design of the water reclamation facility should include an appropriate margin of safety.

Table 17: Corgett WRF Influent Peaking

Peaking Factor	Buildout
PDWF to ADWF	2.33
PWWF to ADWF	2.57



Figure 21 City of Goodyear - Integrated Master Plan
Corgett WRF Inflow Curves - 2045

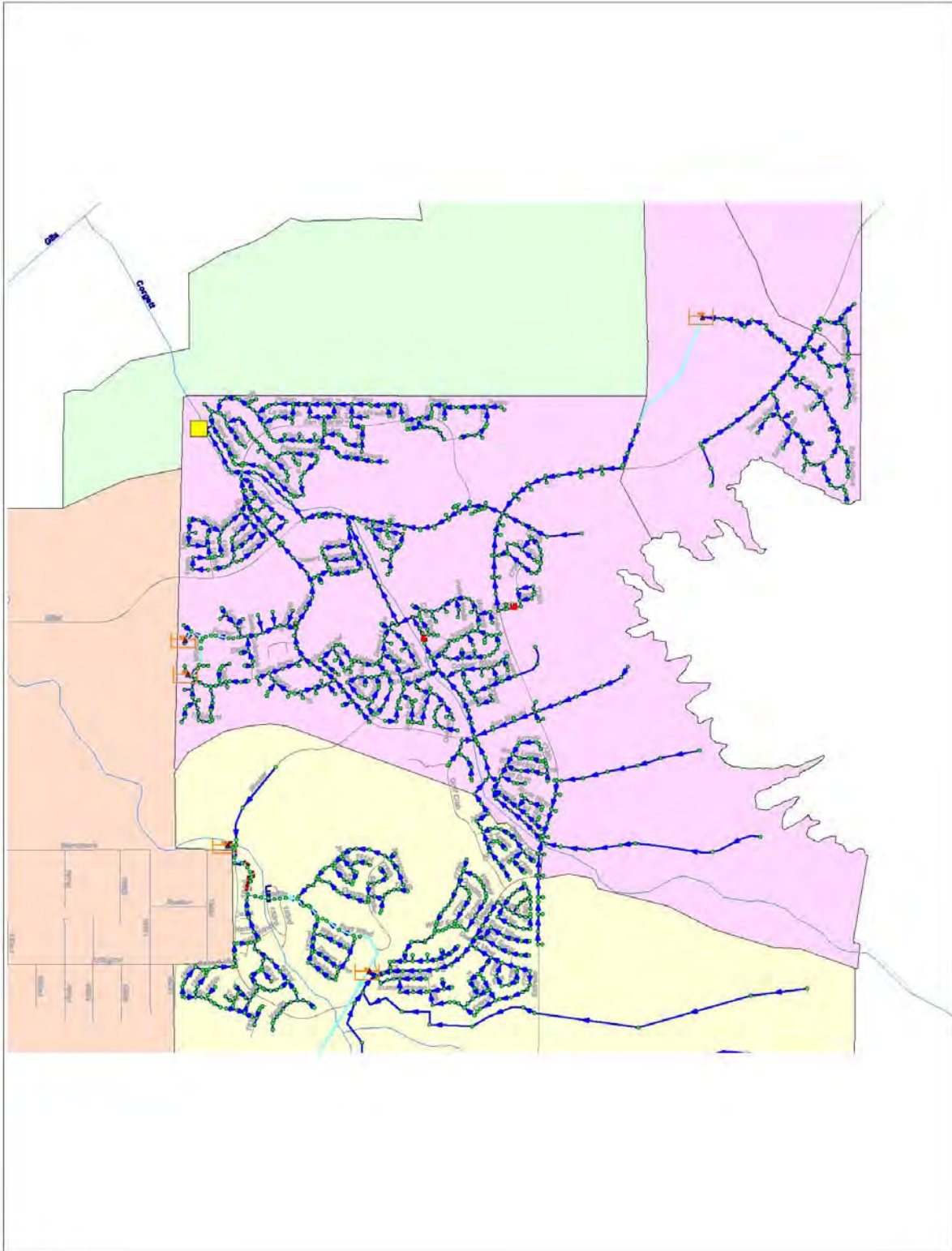




Corgett Basin Collection System. The collection system was extended eastward into areas of projected growth and build out loads were applied. Using plans obtained from developers, surcharging is noted in a few small existing pipelines throughout the system. It is recommended that these pipe inverts are field verified and the pipelines monitored for surcharging as this area reaches buildout. Figure 22 shows the pipe layout, diameters and the resulting d/D values under PWWF loadings.



Figure 22: Corgett Basin Maximum d/D Greater than 0.65





3.4.3 Rainbow Valley WRF Basin

The southern influent main to the Rainbow Valley WRF became surcharged under buildout loadings and will require replacement from manhole CH1273 to manhole CH893. It is anticipated that the plant will be operated in the future with two influent pumping stations due to the significantly different depths of the existing northern and southern influent sewers. All new collection mains added within the basin comply with the design criteria in terms of depth of flow and velocity under buildout loadings.

Rainbow Valley WRF Inflow Pattern. Build-out PDWF and PWWF loadings were applied to the Rainbow Valley Basin and Figure 23 shows the resulting inflow curves for the Rainbow Valley WRF. Table 18 shows the resulting ADWF, PDWF and PWWF values for the Rainbow Valley WRF.

Table 18: Rainbow Valley WRF Flow Results

	ADWF	PDWF	PWWF
Peak Flow Rate	10.04	14.04	15.54
Average Flow Rate	5.89	9.16	9.22
Min Flow Rate	2.71	4.35	4.07

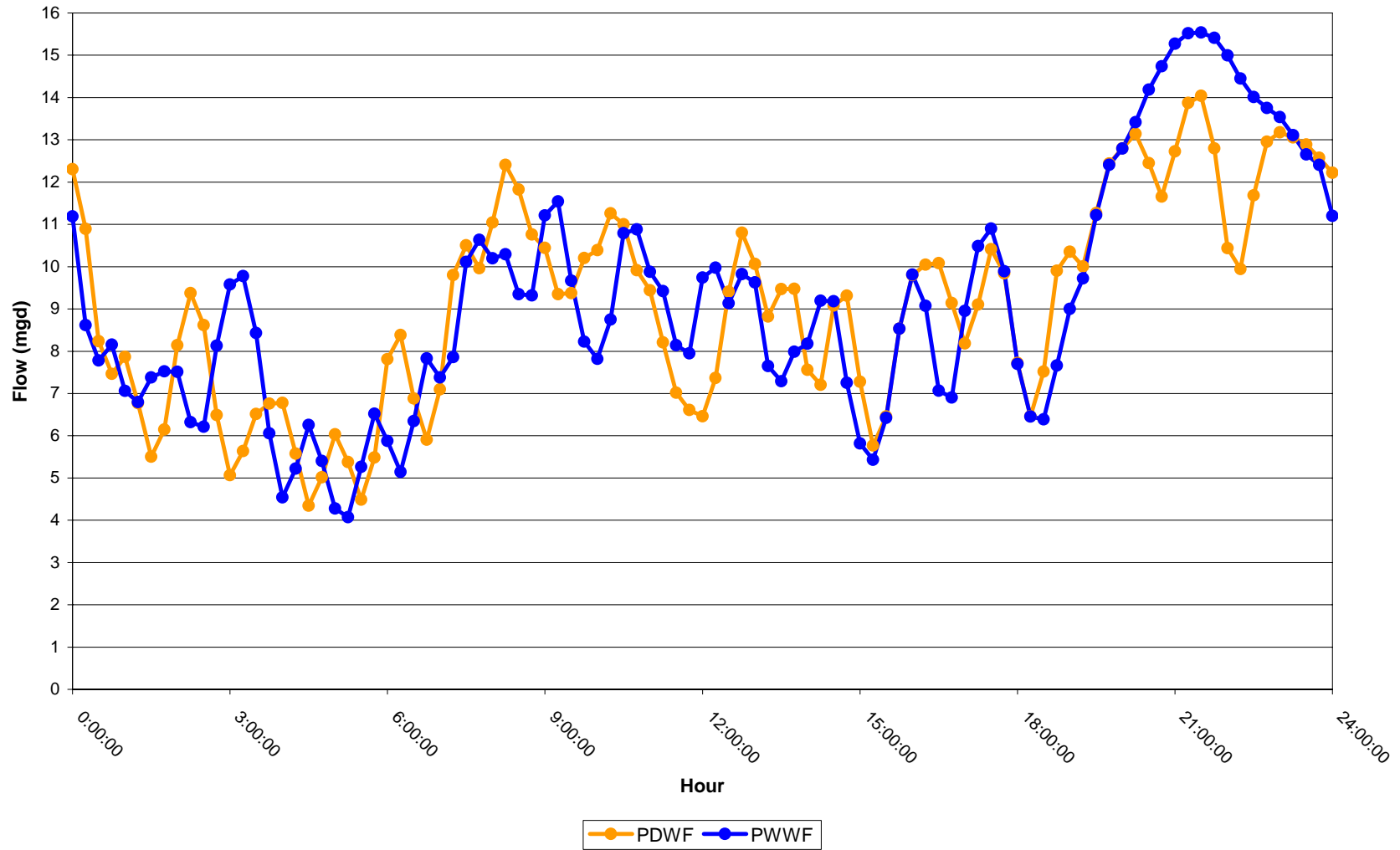
It should be noted that the flow rates shown above are the resulting composite of flow from several incoming lines. The resulting factors for PDWF and PWWF are as shown in the following table. It should be noted that the flow rates and factors shown are the actual collection system response as predicted by the model at buildout. They do not include a factor of safety and are provided so the plant designers can see the characteristic response predicted for the basin. The factors actually used for the design of the water reclamation facility should include an appropriate margin of safety. It can be seen that the base year Rainbow Valley WRF is significantly affected by the pumping pattern from the Rainbow Valley Lift Station.

Table 19: Rainbow Valley WRF Influent Peaking

Peaking Factor	Buildout
PDWF to ADWF	2.64
PWWF to ADWF	2.39



Figure 23 City of Goodyear - Integrated Master Plan
Rainbow Valley WRF - 2045





Lum and Golf Lift Stations. Flow collected in Lum Wash sub-basin will be pumped to the Rainbow Valley Lift Station. The combined inflow to the Rainbow Valley Lift Station (including Lum Wash) will be pumped to the Rainbow Valley WRF. A triplex lift station is recommended for the Rainbow Valley Station to better accommodate the range of flow to be pumped from initial low flow to buildout peak flow. Table 20 below summarizes the capacity required at buildout for each of the lift stations. Additional model output showing detailed lift station performance can be found in Appendix C.

Table 20: Rainbow Valley and Lum Wash Lift Station Capacities

	PWWF	Installed Capacity	Firm Capacity	Force Main
Rainbow Valley Lift Station	4.2	8.40	4.20	2 - 12
Lum Wash Lift Station	0.69	1.80	0.90	8

Rainbow Valley Basin Collection System. Model results show no significant overloading or surcharging in the Rainbow Valley Basin as seen in Figure 24.



Figure 24: Rainbow Valley Basin Maximum d/D Greater than 0.65





3.4.4 Waterman Wash Basin

The Waterman Basin was designed to operate without any lift stations, using gravity flow to collect and convey wastewater to the three Waterman Basin Plants. All new collection mains added within the basin comply with the design criteria in terms of depth of flow and velocity under buildout loadings.

Pecos Road, Waterman Wash and Estrella WRF Inflow Patterns. Buildout PDWF and PWWF loadings were applied in the Waterman Basin. Table 21 shows the resulting ADWF, PDWF and PWWF values for the Pecos Road, Waterman Wash and Estrella WRFs.

Table 21: Pecos, Waterman, and Estrella WRF Flow Results

	ADWF	PDWF	PWWF
Pecos Road WRF			
Peak Flow Rate	13.75	21.65	22.53
Average Flow Rate	9.90	15.75	16.10
Min Flow Rate	6.07	9.98	9.83
Waterman Wash WRF *			
Peak Flow Rate	9.60	15.35	16.10
Average Flow Rate	6.82	10.92	11.14
Min Flow Rate	4.37	6.99	6.99
Estrella WRF *			
Peak Flow Rate	2.95	4.72	4.85
Average Flow Rate	2.13	3.40	3.46
Min Flow Rate	1.31	2.10	2.10

* 25% of inflow by-passed to downstream trunk

The resulting factors for PDWF and PWWF for each of the WRFs are as shown in Table 22. It should be noted that the flow rates and factors shown are the actual collection system response as predicted by the model at buildout. They do not include a factor of safety and are provided so the plant designers can see the characteristic response predicted for each basin. The factors actually used for the design of the water reclamation facilities should include an appropriate margin of safety and should recognize that peaking will initially be more severe.

**Table 22: Water Reclamation Facility Influent Peaking Factors
(At System Buildout)**

Peaking Factor	Pecos Rd WRF	Waterman Wash WRF	Estrella WRF
PDWF to ADWF	2.19	2.25	2.22
PWWF to ADWF	2.28	2.36	2.28



Waterman Wash Interceptor. The trunk interceptor was located along the Waterman Wash and connects between the three reclamation facilities so that the following features could be provided:

- Gravity Flow Operation. Lift stations are not required in the Waterman Basin. The Interceptor and collectors are routed along natural flow paths and located at a depth which will support sewerage of the Waterman Basin without lift stations.
- Bypass Conveyance Capacity. The Waterman Wash Interceptor provides additional capacity, which will allow 25 percent of the Estrella WRF influent to be diverted downstream to the Waterman Wash WRF and 25 percent of the Waterman Wash Influent to be diverted to the Pecos Rd. WRF. This would allow flow to be diverted to a downstream plant in an emergency / maintenance situation and flexibility in the utilization of available capacity and scheduling of expansions for the WRFs.
- Solids Conveyance. Solids produced at the Estrella WRF are to be conveyed to the Waterman Wash WRF via the Waterman Wash Interceptor. This eliminates the need for solids treatment facilities at the smaller Estrella WRF.

Figures 25 - 27 show the Waterman Wash Interceptor profile, diameters and the resulting d/D values under PWWF loadings. Additional model output showing detailed hydraulic performance can be found in Appendix D. Pipeline sizing and hydraulic performance was based upon the case where 25 percent of the collected flow was bypassed at the Estrella and Waterman Wash WRFs. Figure 12 shows the buildout collection system for the City south of the Gila River.



Figure 25 - Interceptor to Estrella WRF Pipe Profile @ 07:30

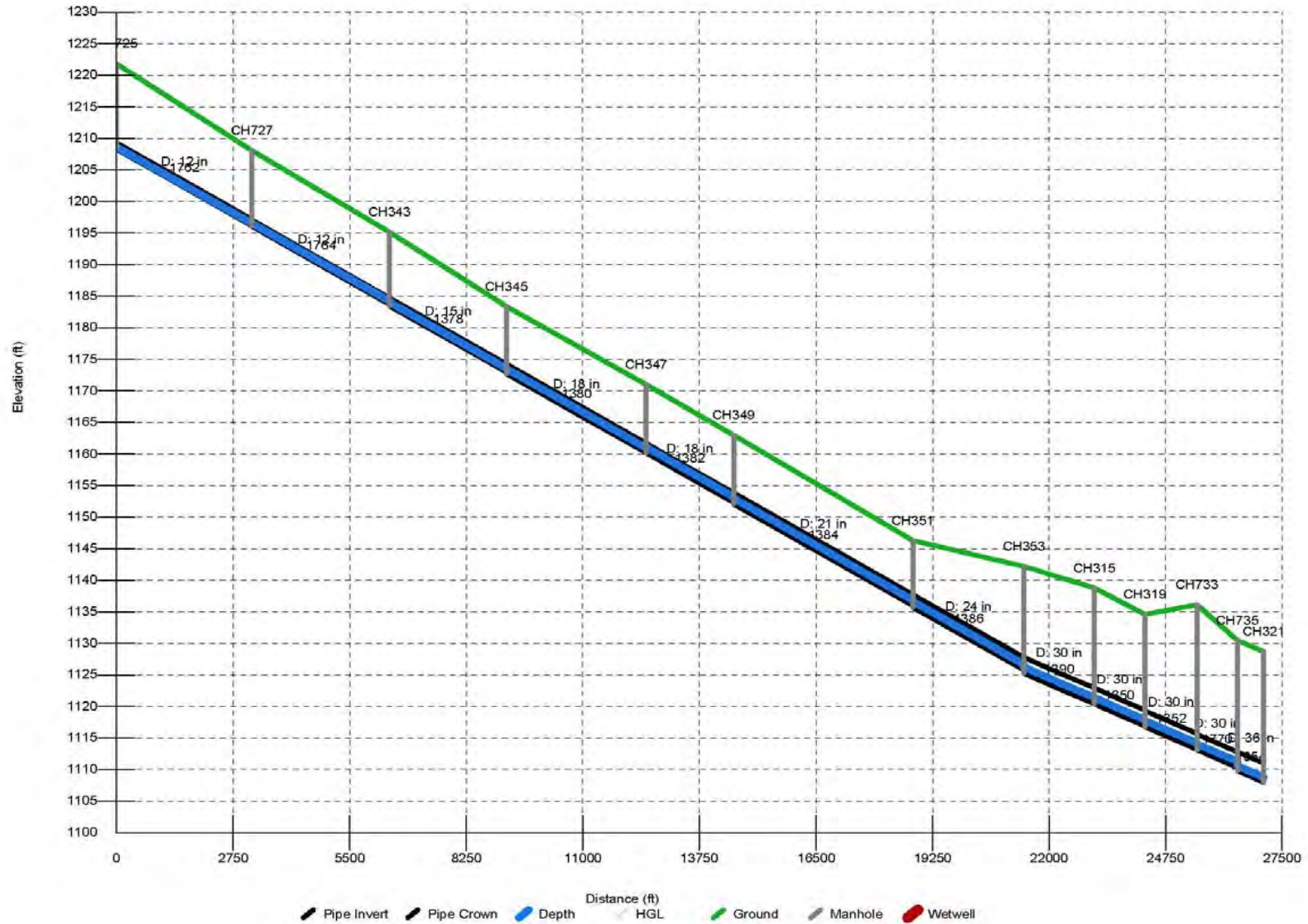




Figure 26 - Interceptor from Estrella WRF to Waterman Wash WRF Pipe Profile @ 07

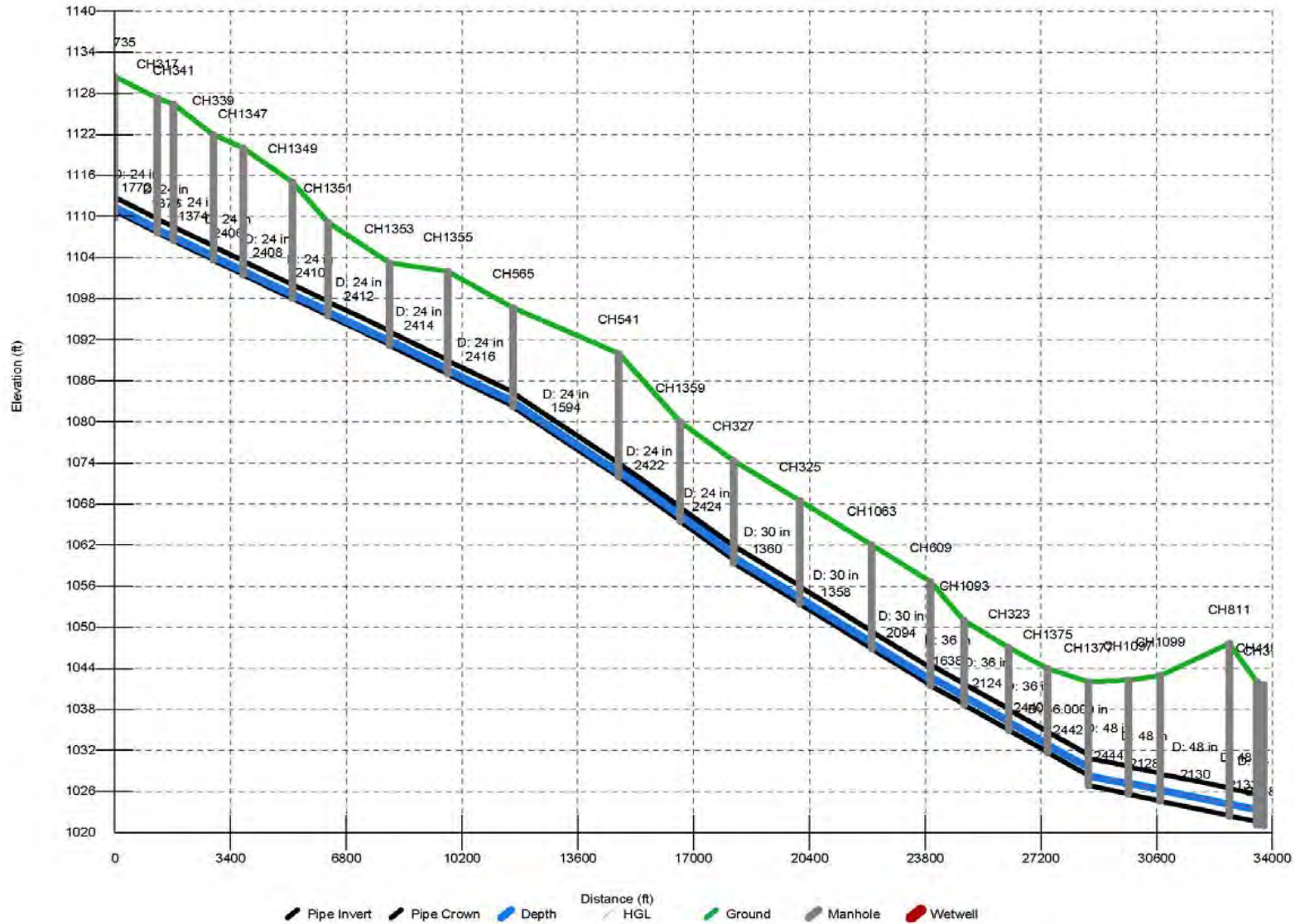
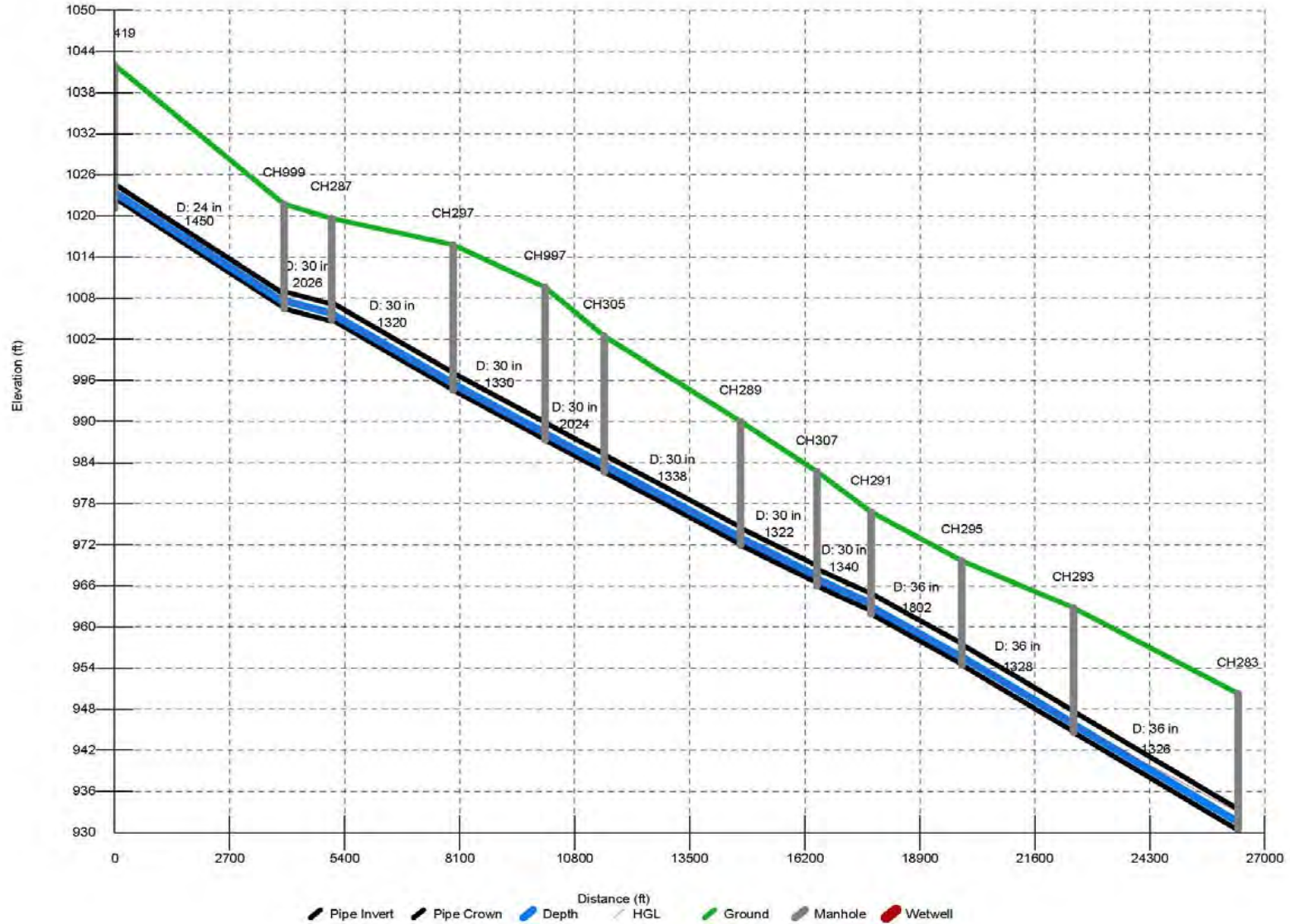




Figure 27 - Waterman Wash WRF to Pecos WRF Pipe Profile @ 07:00





4.0 RECOMMENDED IMPROVEMENTS

4.1 Collection System

The recommended collection system in the 157th WWTP and the Southern Basins is shown in Figures 11 and 12. Additional details of the collection system geometry can be found in the Pipe and Junction report included in Appendix D. As growth occurs in each basin, the collection system should be extended outward by constructing lines of the indicated size required for build-out flow.

4.2 Lift Stations

Table 23 shows the existing and recommended buildout capacities for lift stations within the Goodyear Wastewater Service Area. Additional details of hydraulic performance can be found in Appendix C. To accommodate current and intermediate year loadings, smaller capacity submersible pumps can be installed initially in duplex stations. Triplex stations will operate initially utilizing the capacity of one duty pump. Lift station designers should verify that initial force main velocity will be in the 2 to 4 ft/sec range with final velocity in the 5 to 6 ft/sec range.



Table 23: City of Goodyear Lift Station Capacities

Lift Station Name	PWWF	Installed Capacity	Firm Capacity	Force main
BIO FLORA				
Current Capacity	0.21	0.80	0.40	6
Buildout Capacity	0.47	0.92	0.46	6
BUCKEYE CANAL				
Current Capacity	N/A	N/A	N/A	N/A
Buildout Capacity	0.88	1.70	0.85	8
DEL CAMINO				
Current Capacity	0.08	0.80	0.40	8
Buildout Capacity	0.05	0.86	0.43	8
ESTRELLA MOUNTAIN PARK				
Current Capacity	N/A	N/A	N/A	N/A
Buildout Capacity	0.15	0.30	0.15	6
EXTENSION CANAL				
Current Capacity	N/A	N/A	N/A	N/A
Buildout Capacity	1.56	3.00	1.50	12
GILA RIVER				
Current Capacity	N/A	N/A	N/A	N/A
Buildout Capacity	1.70	3.40	1.70	10
INDIAN SCHOOL				
Current Capacity	N/A	N/A	N/A	N/A
Buildout Capacity	0.75	1.50	0.75	8
IRENE				
Current Capacity	0.04	0.40	0.20	4
Buildout Capacity	0.09	0.40	0.20	4
KINGS RANCH				
Current Capacity	N/A	N/A	N/A	N/A
Buildout Capacity	2.15	4.40	2.20	12
LAKIN				
Current Capacity	N/A	N/A	N/A	N/A
Buildout Capacity	2.47	5.0	2.5	12
LAS BRISAS				
Current Capacity	N/A	N/A	N/A	N/A
Buildout Capacity	0.57	1.20	0.60	8
LOST				
Current Capacity	0.19	2.0	1.0	8
Buildout Capacity	0.68	2.0	1.0	8



LUM WASH				
Current Capacity	0.35	0.20	0.10	8
Buildout Capacity	0.69	1.80	0.90	8
PALM VALLEY				
Current Capacity	0.56	1.0	0.50	8
Buildout Capacity	0.62	1.20	0.60	8
RAINBOW VALLEY				
Current Capacity	0.90	6.7	4.5	12
Buildout Capacity	4.20	8.40	4.20	2 - 12
RICARDO				
Current Capacity	0.10	0.40	0.20	4
Buildout Capacity				
RUBBERMAID				
Current Capacity	0.12	0.60	0.30	4
Buildout Capacity	0.56	1.10	0.55	6
WELLS FARGO				
Current Capacity	0.46	0.80	0.40	6
Buildout Capacity	0.39	0.80	0.40	6

4.3 Reclamation Facilities

The City currently operates three wastewater treatment facilities serving the 157th Ave, Corgett, and Rainbow Valley Basins. At buildout, it is recommended the City build three new treatment plants as well as expands the capacity of the existing wastewater treatment plants. The main hydraulic design criteria for sizing the treatment plant nominal capacity was the annual average day flow seen at the incoming interceptors.

Table 24 shows the projected intermediate and buildout capacity required at the reclamation facilities treating wastewater collected in the service area. The capacity shown has been rounded upward from the actual projected flow to a nominal value to be used for plant design. Intermediate year capacity is based upon projected growth in each basin and builds incrementally to the nominal buildout rating. The schedule shown for the construction of intermediate year reclamation facilities may need to be adjusted to accommodate the actual pace of growth within each basin. The capacity shown for the Waterman Wash and Pecos Road WRFs does not include any additional capacity which would allow the upstream WRFs to bypass flow.



Table 24: Wastewater Treatment Facility Phasing

Planning Phase	Near Term						Intermediate Term						Long Term		Buildout	
Year	2007		2008	2009	2010	2011	2012		2013	2014	2015	2016	2017		2045	
Facility	Flow (mgd)	Plant Size					Flow (mgd)	Plant Size					Flow (mgd)	Plant Size	Flow (mgd)	Plant Size
157 th Ave WWTP	3.1	4.0	4.0	8.0	8.0	8.0	5.4	8.0	8.0	8.0	12.0	12.0	9.0	12.0	16.6	18.0
Corgett WRF	0.2	0.8	0.8	0.8	0.8	0.8	0.7	1.0	1.0	1.0	1.0	1.0	1.1	1.4	1.8	2.0
Rainbow WRF	0.4	0.8	0.8	1.5	1.5	1.5	1.3	3.0	3.0	3.0	3.0	3.0	2.4	3.0	5.6	6.0
Pecos WRF	--	--	--	1.25	1.25	2.5	2.5	2.5	3.0	6.0	6.0	6.0	5.0	6.0	6.8	8.0
Waterman WRF	--	--	--	1.25	1.25	2.5	1.5	2.5	3.0	3.0	3.0	3.0	3.0	3.0	9.2	10.0
Estrella WRF	--	--	--	--	--	--	--	--	--	2.0	2.0	2.0	1.5	2.0	2.7	3.0
Total Capacity	3.7	5.6	5.6	12.8	12.8	15.3	11.4	17.0	18.0	23.0	27.0	27.0	22.0	27.4	42.8	47.0



Table 25 shows the resulting peaking factor for PWWF at each of the WRFs under buildout flow as determined from the model. At interim levels of system development, the PWWF can be assumed to be higher than the factors shown here. The actual design of the plant's headworks and other hydraulic features should provide an appropriate margin of safety at all phases of the plants design.

Table 25: Wastewater Treatment Influent Peaking

Facility Name	ADWF (mgd)	PWWF (mgd)	PWWF Factor
157 th Ave. WWTP	16.7	40.1	2.4
Corgett WRF	1.8	4.8	2.7
Rainbow Valley WRF	5.6	13.7	2.4
Pecos Rd. WRF	6.8	21.1	3.1
Waterman Wash WRF ⁽¹⁾	9.2	16.9	1.8
Estrella WRF ⁽¹⁾	2.7	4.9	1.8

(1) 25% of inflow by-passed to downstream trunk



APPENDIX A PROJECTED WASTEWATER FLOWS ANNUAL AVERAGE

**CITY OF GOODYEAR
INTEGRATED WATER MASTER PLAN
BUILD-OUT WASTE WATER GENERATION PROJECTIONS
CORGETT WRF BASIN**

LAND USE CATEGORY	Target Density (du/ac)	Land Use						Acreage		Dwelling Units		Projected Generation (Annual Average)			
		Corgett Sub Basins						Total Acreage in Waste Water Service Area	Total Number of Dwelling Units in Waste Water Service Area	WW Returned (gpdu)	WW Returned (gpac)	Corgett Sub Basins			Waste Water Service Area
		1		2		3						1	2	3	
		(ac)	(du)	(ac)	(du)	(ac)	(du)					(mgd)	(mgd)	(mgd)	(mgd)
RESIDENTIAL															
Single-Family Residential															
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	0	0	176	176	0.0	0.0	0.0	0.0
Rural (0-2 du/ac)	1	2	2	0	0	0	0	2	2	160	160	0.0	0.0	0.0	0.0
Rural (0-2 du/ac)	2	0	0	0	0	0	0	0	0	160	320	0.0	0.0	0.0	0.0
Low Density (2-4 du/ac)	3	501	1,502	328	985	143	430	972	2,916	144	432	0.2	0.1	0.1	0.4
Low-Medium Density (4-6 du/ac)	5	260	1,301	0	0	0	0	260	1,301	129	647	0.2	0.0	0.0	0.2
Single Family Sub Totals =								1,234	4,220			0.4	0.1	0.1	0.6
Multi-Family Residential															
Medium Density (6-10 du/ac)	8	396	3,166	0	0	0	0	396	3,167	128	1025	0.4	0.0	0.0	0.4
Medium-High Density (10-20 du/ac)	15	183	2,747	0	0	0	0	183	2,747	124	1867	0.3	0.0	0.0	0.3
High Density Residential (20+ du/ac)	25	97	2,429	0	0	0	0	97	2,429	110	2750	0.3	0.0	0.0	0.3
Multi-Family Sub Totals =									8,342			1.0	0.0	0.0	1.0
Residential Sub Totals =		1,439	11,147	328	985	143	430	676	12,562						
NON RESIDENTIAL															
Employment															
Community Commercial		169		6		0		175			951	0.2	0.0	0.0	0.2
Regional Commercial		0		0		0		0			1,087	0.0	0.0	0.0	0.0
City Center / Village Center		0		0		0		0			5,776	0.0	0.0	0.0	0.0
Ballpark Village		0		0		0		0			3,851	0.0	0.0	0.0	0.0
Light Industrial		0		0		0		0			815	0.0	0.0	0.0	0.0
General Industrial		0		0		0		0			1,087	0.0	0.0	0.0	0.0
Mixed Use		0		0		0		0			2,000	0.0	0.0	0.0	0.0
												0.2	0.0	0.0	0.2
Support															
Public / Quasi Public		27		0		0		27			1,019	0.0	0.0	0.0	0.0
Prison		0		0		0		0			1,699	0.0	0.0	0.0	0.0
Airport		0		0		0		0			170	0.0	0.0	0.0	0.0
Parks		38		95		0		133			0	0.0	0.0	0.0	0.0
Roads		187		24		14		225			0	0.0	0.0	0.0	0.0
Open Space		849		232		71		1,152			0	0.0	0.0	0.0	0.0
Non- Residential Sub Totals =												0.0	0.0	0.0	0.0
TOTAL =		2,709		686		228		3,623	12,562	TOTAL GENERATION =		1.6	0.1	0.1	1.8

Waste Water Service Area Population = 33,290
Per Capita Unit Rate (gpdc) = 54

**CITY OF GOODYEAR
INTEGRATED WATER MASTER PLAN
BUILD-OUT WASTE WATER GENERATION PROJECTIONS
RAINBOW VALLEY WRF BASIN**

LAND USE CATEGORY	Target Density (du/ac)	Land Use				Acreage	Dwelling Units	Projected Generation (Annual Average)						
		Rainbow Valley Sub Basins						Total Acreage in Waste Water Service Area	Total Number of Dwelling Units in Waste Water Service Area	WW Returned (gpdu)	WW Returned (gpac)	Rainbow Valley Sub Basins		Waste Water Service Area
		1	2	1	2							1	2	
		(ac)	(du)	(ac)	(du)					(mgd)	(mgd)	(mgd)		
RESIDENTIAL														
Single-Family Residential														
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	176	176	0.0	0.0	0.0		
Rural (0-2 du/ac)	1	0	0	0	0	0	0	160	160	0.0	0.0	0.0		
Rural (0-2 du/ac)	2	2,880	5,760	0	0	2,880	5,761	160	320	0.9	0.0	0.9		
Low Density (2-4 du/ac)	3	1,992	5,977	781	2,343	2,773	8,320	144	432	0.9	0.3	1.2		
Low-Medium Density (4-6 du/ac)	5	678	3,390	643	3,214	1,321	6,604	129	647	0.4	0.4	0.9		
Single Family Sub Totals =						6,975	20,685			2.2	0.8	3.0		
Multi-Family Residential														
Medium Density (6-10 du/ac)	8	517	4,136	169	1,352	686	5,488	128	1025	0.5	0.2	0.7		
Medium-High Density (10-20 du/ac)	15	84	1,256	12	182	96	1,438	124	1867	0.2	0.0	0.2		
High Density Residential (20+ du/ac)	25	97	2,426	161	4,024	258	6,450	110	2750	0.3	0.4	0.7		
Multi-Family Sub Totals =						1,040	13,376			1.0	0.6	1.6		
Residential Sub Totals =		6,248	22,944	1,766	11,117	8,014	34,061							
NON RESIDENTIAL														
Employment														
Community Commercial		397		80		477			951	0.4	0.1	0.5		
Regional Commercial		0		0		0			1,087	0.0	0.0	0.0		
City Center / Village Center		30		1		31			5,776	0.2	0.0	0.2		
Ballpark Village		0		0		0			3,851	0.0	0.0	0.0		
Light Industrial		105		11		117			815	0.1	0.0	0.1		
General Industrial		0		0		0			1,087	0.0	0.0	0.0		
Mixed Use		0		0		0			2,000	0.0	0.0	0.0		
										0.6	0.1	0.7		
Support														
Public / Quasi Public		182		104		287			1,019	0.2	0.1	0.3		
Prison		0		0		0			1,699	0.0	0.0	0.0		
Airport		0		0		0			170	0.0	0.0	0.0		
Parks		146		204		349			0	0.0	0.0	0.0		
Roads		412		167		579			0	0.0	0.0	0.0		
Open Space		581		583		1,164			0	0.0	0.0	0.0		
Non- Residential Sub Totals =										0.2	0.1	0.3		
TOTAL =		8,103		2,916		11,019	34,061			TOTAL GENERATION =	4.0	1.6	5.6	

Waste Water Service Area Population =
Per Capita Unit Rate (gpdc) =

90,262
62

**CITY OF GOODYEAR
INTEGRATED WATER MASTER PLAN
BUILD-OUT WASTE WATER GENERATION PROJECTIONS
WATERMAN WASH WWTP BASIN**

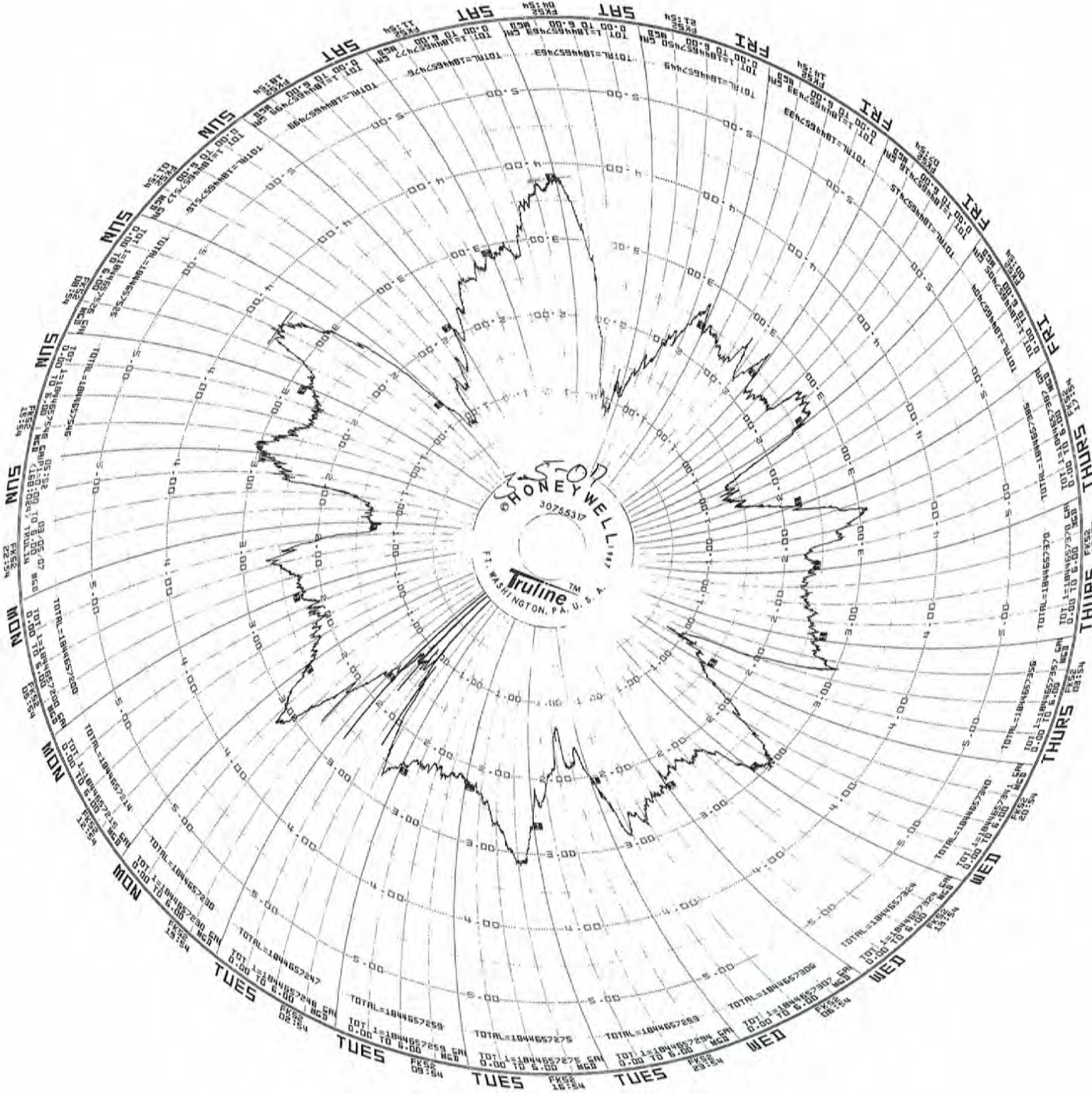
LAND USE CATEGORY	Target Density (du/ac)	Land Use						Acreage		Dwelling Units		Projected Generation (Annual Average)				
		Waterman Wash Sub Basins						Total Acreage in Waste Water Service Area	Total Number of Dwelling Units in Waste Water Service Area	WW Returned (gpdu)	WW Returned (gpad)	Waterman Wash Sub Basins			Waste Water Service Area	
		Pecos		Estrella		Waterman						Pecos	Waterman	Estrella		
		(ac)	(du)	(ac)	(du)	(ac)	(du)					(mgd)	(mgd)	(mgd)	(mgd)	
RESIDENTIAL																
Single-Family Residential																
Agricultural Preservation (1 du/ac)	1	0	0	0	0	0	0	0	0	176	176	0.0	0.0	0.0	0.0	
Rural (0-2 du/ac)	1	0	0	0	0	830	830	830	830	160	160	0.0	0.0	0.1	0.1	
Rural (0-2 du/ac)	2	9,145	18,289	9,082	18,165	0	0	18,227	36,454	160	320	2.9	2.9	0.0	5.8	
Low Density (2-4 du/ac)	3	3,890	11,671	4,775	14,326	1,748	5,243	10,413	31,239	144	432	1.7	2.1	0.8	4.5	
Low-Medium Density (4-6 du/ac)	5	259	1,295	671	3,356	529	2,643	1,459	7,293	129	647	0.2	0.4	0.3	0.9	
Single Family Sub Totals =								30,928	75,816			4.8	5.4	1.2	11.4	
Multi-Family Residential																
Medium Density (6-10 du/ac)	8	395	3,161	1,002	8,013	543	4,342	1,939	15,516	128	1025	0.4	1.0	0.6	2.0	
Medium-High Density (10-20 du/ac)	15	40	596	187	2,812	118	1,766	345	5,174	124	1867	0.1	0.4	0.2	0.6	
High Density Residential (20+ du/ac)	25	180	4,490	374	9,347	0	0	553	13,837	110	2750	0.5	1.0	0.0	1.5	
Multi-Family Sub Totals =								2,838	34,527			1.0	2.4	0.8	4.2	
Residential Sub Totals =		13,908	39,502	16,092	56,018	3,766	14,823		110,343							
NON RESIDENTIAL																
Employment																
Community Commercial		533		590		96		1,219			951	0.5	0.6	0.1	1.2	
Regional Commercial		67		0		0		67			1,087	0.1	0.0	0.0	0.1	
City Center / Village Center		58		43		0		101			5,776	0.3	0.3	0.0	0.6	
Ballpark Village		0		0		0		0			3,851	0.0	0.0	0.0	0.0	
Light Industrial		66		11		147		224			815	0.1	0.0	0.1	0.2	
General Industrial		0		0		0		0			1,087	0.0	0.0	0.0	0.0	
Mixed Use		0		0		216		216			2,000	0.0	0.0	0.4	0.4	
						0						1.0	0.8	0.6	2.4	
Support																
Public / Quasi Public		58		554		68		680			1,019	0.1	0.6	0.1	0.7	
Prison		0		0		0		0			1,699	0.0	0.0	0.0	0.0	
Airport		0		0		0		0			170	0.0	0.0	0.0	0.0	
Parks		110		369		24		503			0	0.0	0.0	0.0	0.0	
Roads		867		724		452		2,043			0	0.0	0.0	0.0	0.0	
Open Space		1,836		1,436		921		4,193			0	0.0	0.0	0.0	0.0	
Non- Residential Sub Totals =												0.1	0.6	0.1	0.7	
TOTAL =		17,502		19,819		5,691		43,012	110,343			TOTAL GENERATION =	6.8	9.2	2.7	18.7

Waste Water Service Area Population =
Per Capita Unit Rate (gpcd) =

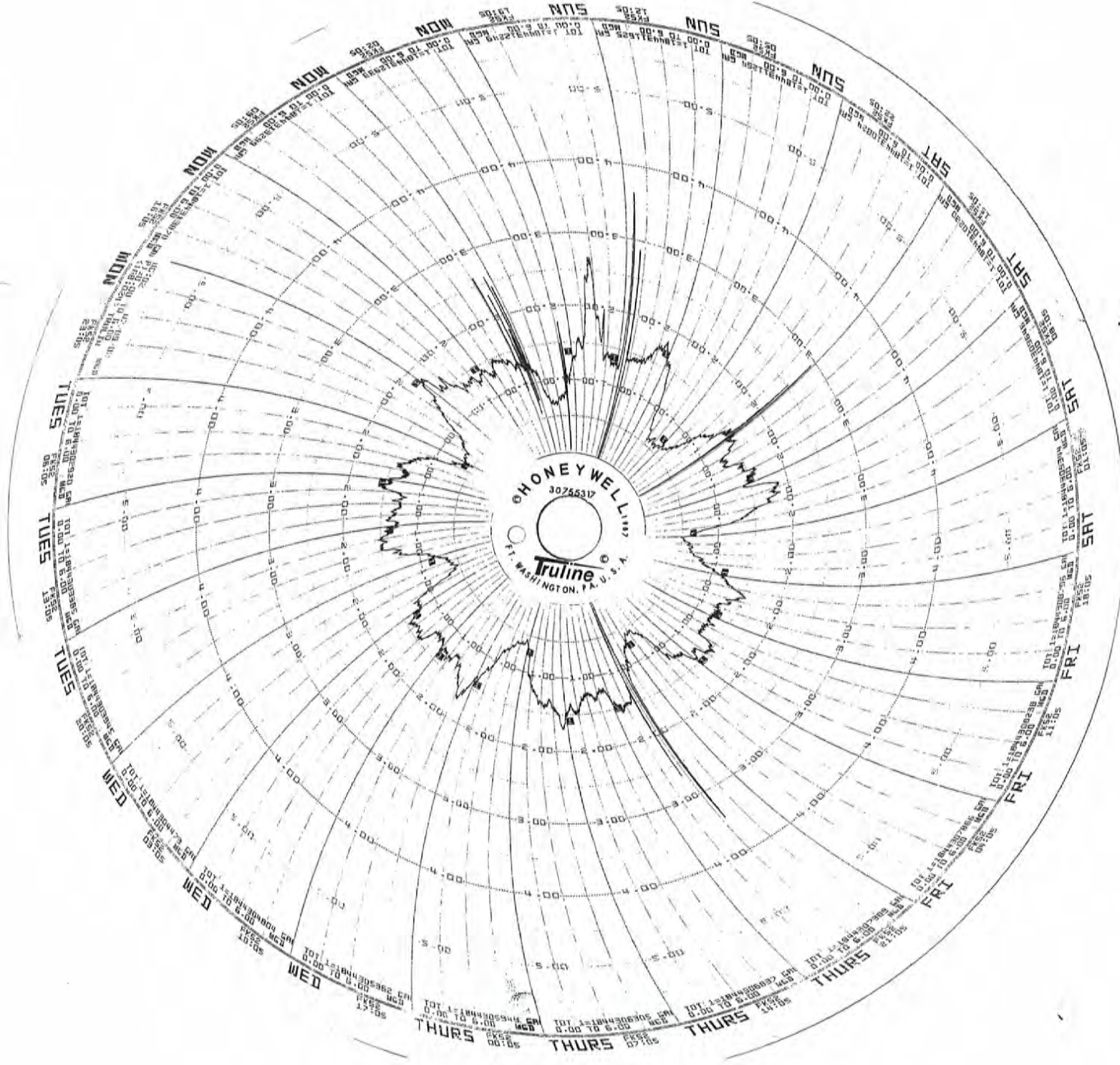
292,409
64



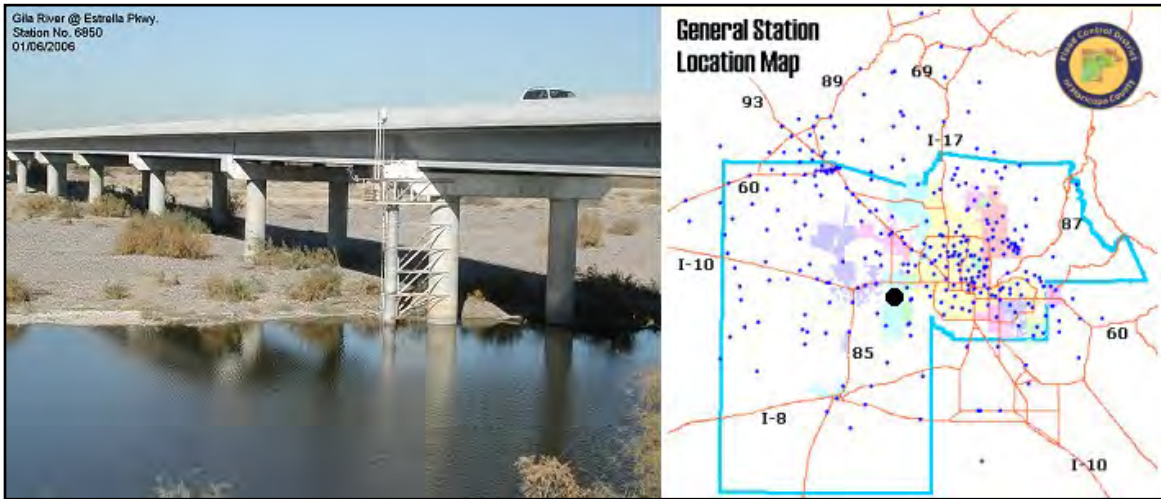
APPENDIX B CIRCULAR CHART DATA RAIN EVEN DATA



March 7th 2007

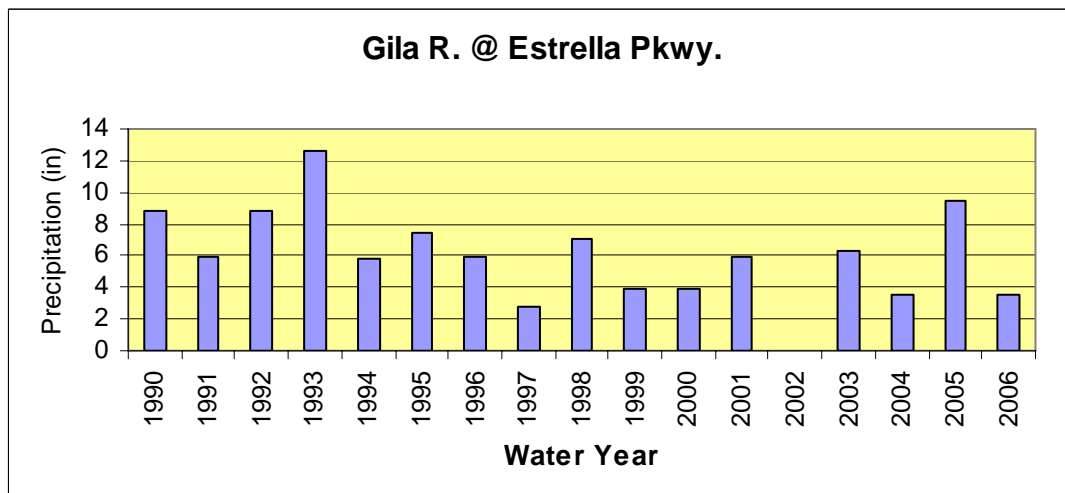


July 14th 2002



Station Name: [Gila River @ Estrella Parkway](#)

Station ID Number History:	6850 since 08/26/94 6840 from 06/26/92 – 08/26/94 6520 from 02/28/89 – 06/26/92
Station Type:	Rain / Stream
Data Begins:	02/28/1989
Years of Record:	17.59 (as of 10/01/06)
Data Repeater:	White Tank Peak
TRS:	T1N-R1W-Section 31
Latitude:	33° 23' 20.6" (33.3891)
Longitude:	112° 23' 32.9" (112.3925)
Elevation:	905 ft. msl
Location:	Gila River at Estrella Parkway Bridge
Data Record:	
Partial Months (>10 days missing):	None
Missing Months:	11/01
Remarks:	Records Fair



Data Statistics for Period of Record:

Number of storms greater than 1 inch in 24 hours:	17	
Number of storms greater than 2 inches in 24 hours:	1	
Number of storms greater than 3 inches in 24 hours:	0	
		Approx. T_r
Greatest 15 minute total:	0.75" on 07/14/02	9 years
Greatest 1 hour total:	0.98" on 08/11/91	4 years
Greatest 3 hour total:	1.34" on 01/11/93	6 years
Greatest 6 hour total:	1.61" on 01/11/93	9 years
Greatest 24 hour total:	2.13" on 01/11/93	9 years

Water Year Totals: (Mean of Complete Water Years [16] = 6.36 inches)

Water Year	Total	Water Year	Total	Water Year	Total
2010		2000	3.86	1990	8.78
2009		1999	3.94	1989	M
2008		1998	7.09	1988	
2007		1997	2.83	1987	
2006	3.54	1996	5.91	1986	
2005	9.49	1995	7.40	1985	
2004	3.58	1994	5.83	1984	
2003	6.30	1993	12.56	1983	
2002	M	1992	8.86	1982	
2001	5.87	1991	5.94	1981	

M: One or more months contain partial or missing data

NOAA Atlas 14 Precipitation Frequency Estimates,
Daily Precipitation Totals, And Annual Statistics
Are On The Following Pages

POINT PRECIPITATION FREQUENCY ESTIMATES FROM NOAA ATLAS 14

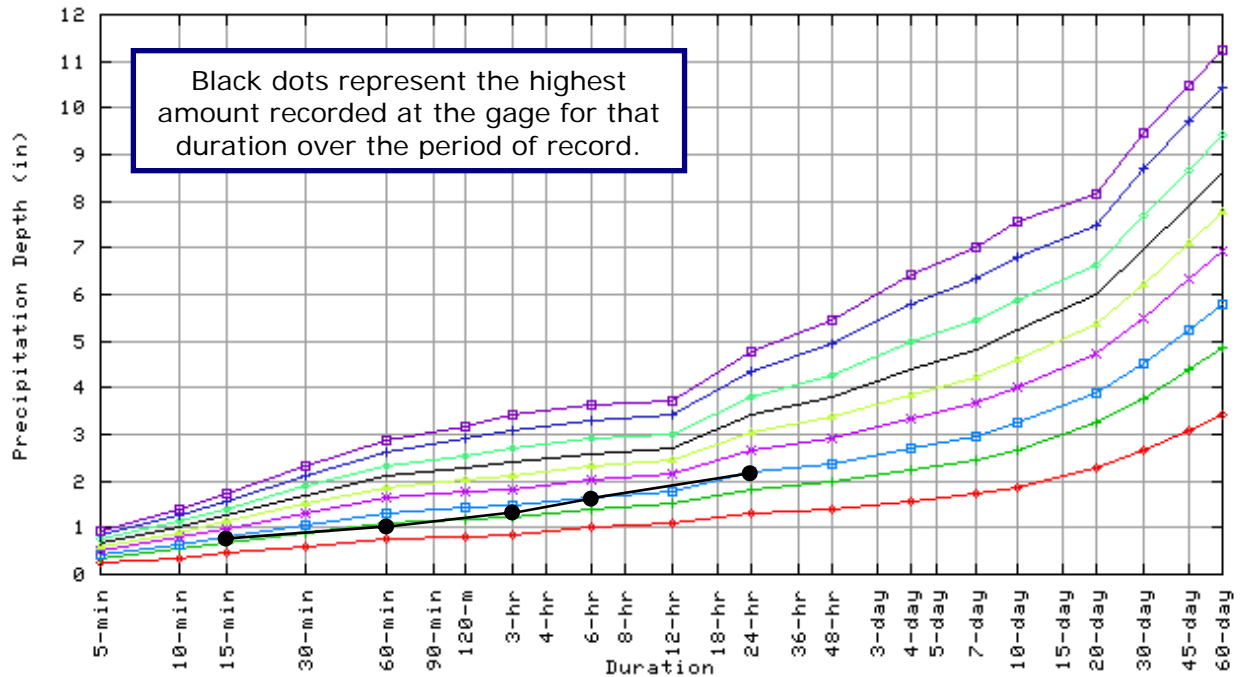
Arizona 33.3891 N 112.3925 W 990 feet

from "Precipitation-Frequency Atlas of the United States" NOAA Atlas 14, Volume 1, Version 4
G.M. Bonnin, D. Martin, B. Lin, T. Parzybok, M.Yekta, and D. Riley
NOAA, National Weather Service, Silver Spring, Maryland, 2006
Extracted: Fri Jul 27 2007

Precipitation Frequency Estimates (inches)

AEP* (1-in-Y)	5 min	10 min	15 min	30 min	60 min	120 min	3 hr	6 hr	12 hr	24 hr	48 hr	4 day	7 day	10 day	20 day	30 day	45 day	60 day
2	0.24	0.36	0.44	0.60	0.74	0.82	0.86	1.00	1.09	1.30	1.39	1.56	1.72	1.88	2.27	2.64	3.09	3.42
5	0.35	0.53	0.65	0.88	1.09	1.19	1.23	1.39	1.50	1.82	1.98	2.23	2.45	2.67	3.24	3.76	4.39	4.86
10	0.42	0.64	0.80	1.08	1.33	1.45	1.49	1.66	1.79	2.18	2.39	2.70	2.97	3.24	3.89	4.51	5.24	5.79
25	0.52	0.79	0.98	1.32	1.64	1.78	1.83	2.03	2.15	2.66	2.93	3.34	3.68	4.00	4.73	5.48	6.32	6.94
50	0.59	0.90	1.12	1.51	1.87	2.03	2.11	2.31	2.43	3.04	3.37	3.85	4.24	4.60	5.36	6.21	7.12	7.79
100	0.67	1.01	1.26	1.69	2.10	2.29	2.39	2.59	2.72	3.42	3.81	4.39	4.83	5.23	5.99	6.95	7.90	8.61
200	0.74	1.13	1.40	1.88	2.33	2.55	2.69	2.89	3.00	3.82	4.28	4.97	5.45	5.88	6.64	7.70	8.68	9.41
500	0.84	1.28	1.58	2.13	2.64	2.90	3.10	3.31	3.40	4.36	4.93	5.77	6.33	6.81	7.50	8.70	9.70	10.45
1000	0.91	1.39	1.72	2.32	2.87	3.17	3.44	3.64	3.72	4.80	5.45	6.42	7.03	7.54	8.16	9.46	10.46	11.22

Annual Maxima based Point Precipitation Frequency Estimates Version: 4
33.3891 N 112.3925 W 990 ft



Fri Jul 27 21:16:23 2007

Annual Exceedance Probability (1-in-Y)	
1 in 2	1 in 100
1 in 5	1 in 200
1 in 10	1 in 500
1 to 25	1 in 1000
1 in 50	

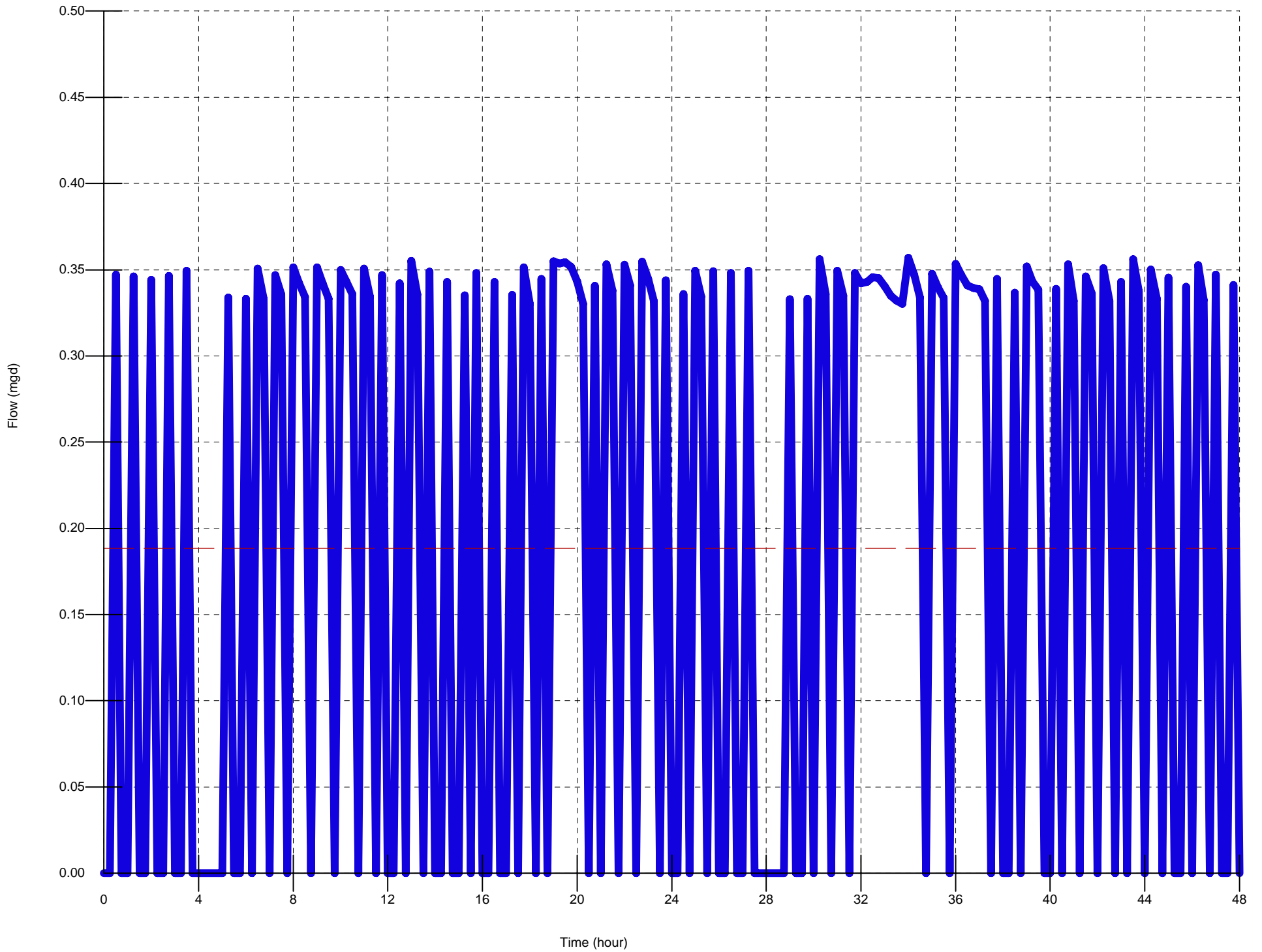
Flood Control District of Maricopa County ALERT System
Daily Rainfall at Gila @ Estrella Parkway (gage # 6850) for Water Year 1992

DAY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1							.24					
2						.43	.08					
3				.24		.24						
4				.04								
5				.04				.16				
6				.67	.04			.04				
7					.83	.04					.04	
8						.28						
9						.20						
10		.04	.24		.31							
11			.04	.67						.08		
12											.04	
13					.24							
14		.12										
15					.08							
16												
17												
18			.35									
19			.79									
20			.04									
21								.04				
22								.04			.12	
23											.04	
24				.04						.04		
25												
26												
27	1.02					.31						
28						.04						
29		.08										
30		.16	.16		-----	.12						
31		-----			-----		-----		-----			-----
SUM	1.02	0.39	1.61	1.69	1.50	1.65	0.31	0.28	0.00	0.12	0.24	0.00
ACC	1.02	1.42	3.03	4.76	6.26	7.91	8.23	8.50	8.50	8.62	8.86	8.86
MAX	1.02	0.16	0.79	0.67	0.83	0.43	0.24	0.16	0.00	0.08	0.12	0.00
NO.	1	4	6	6	5	8	2	4	0	2	4	0
							Maximum Daily Rainfall					1.02
							Maximum Monthly Rainfall					1.73
							Total Annual Rainfall					8.86
							Number of Days with Rain					42

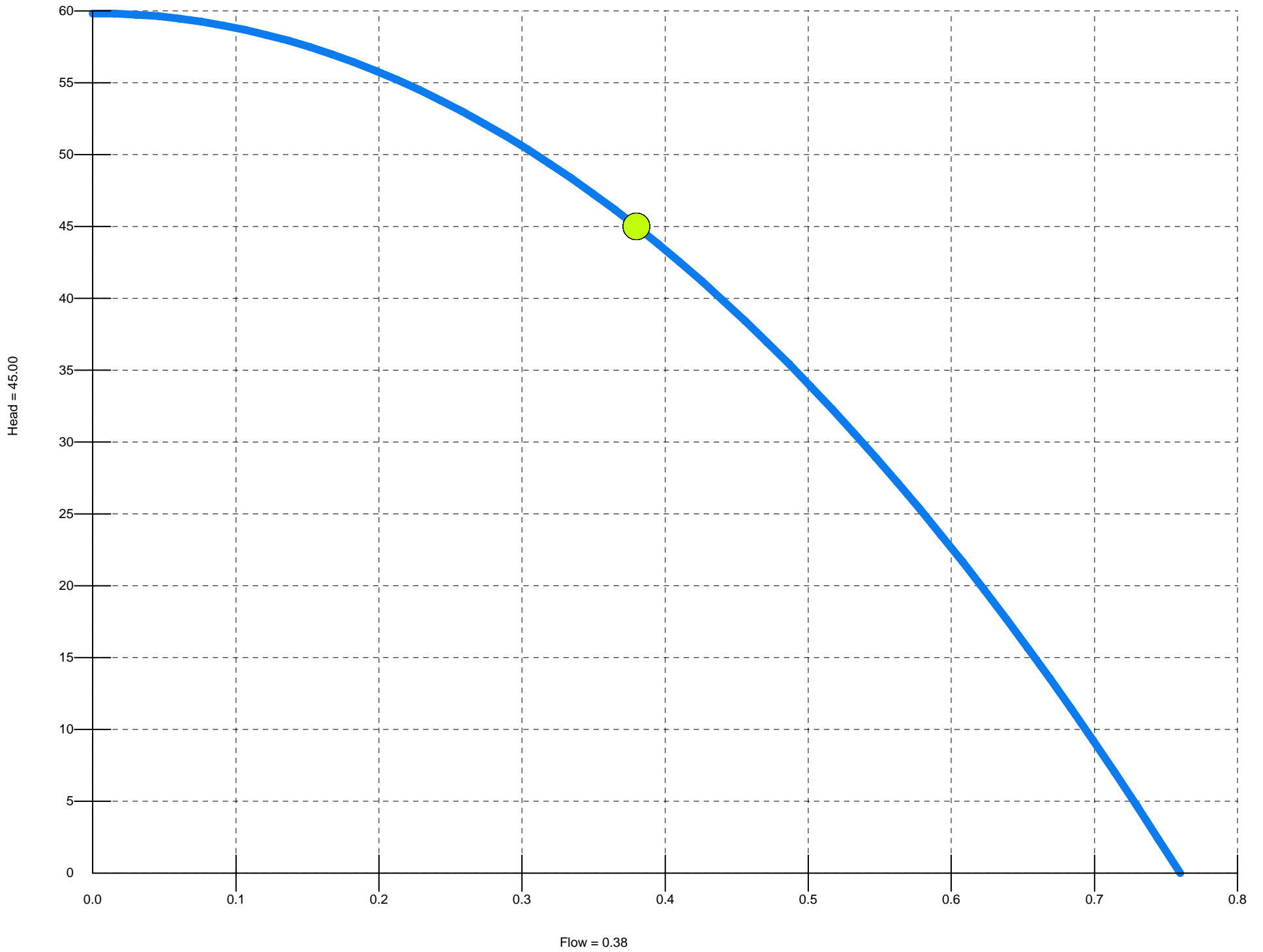


APPENDIX C LIFT STATION CHARACTERISTICS

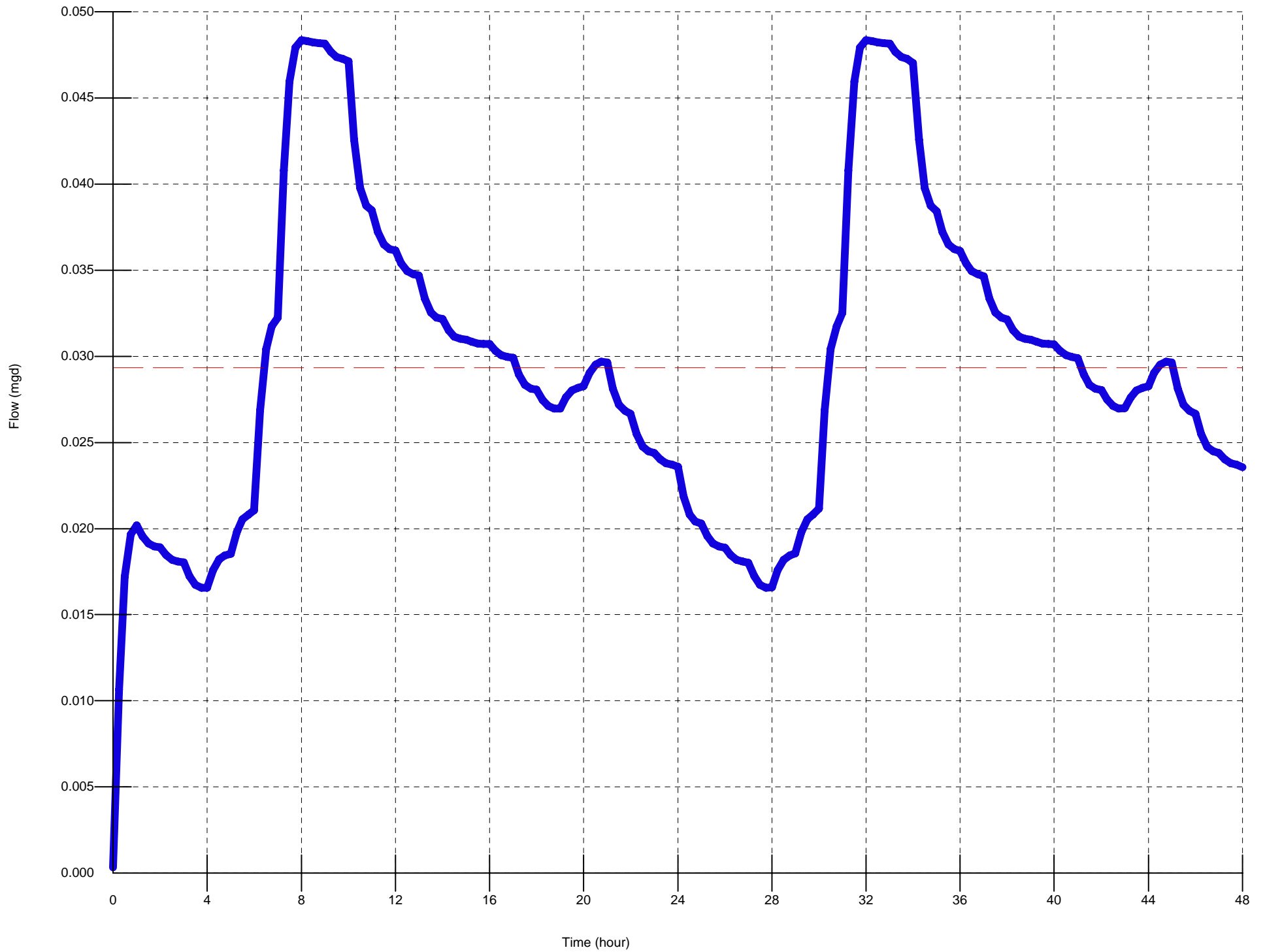
Wells Fargo LS Pump - 2045



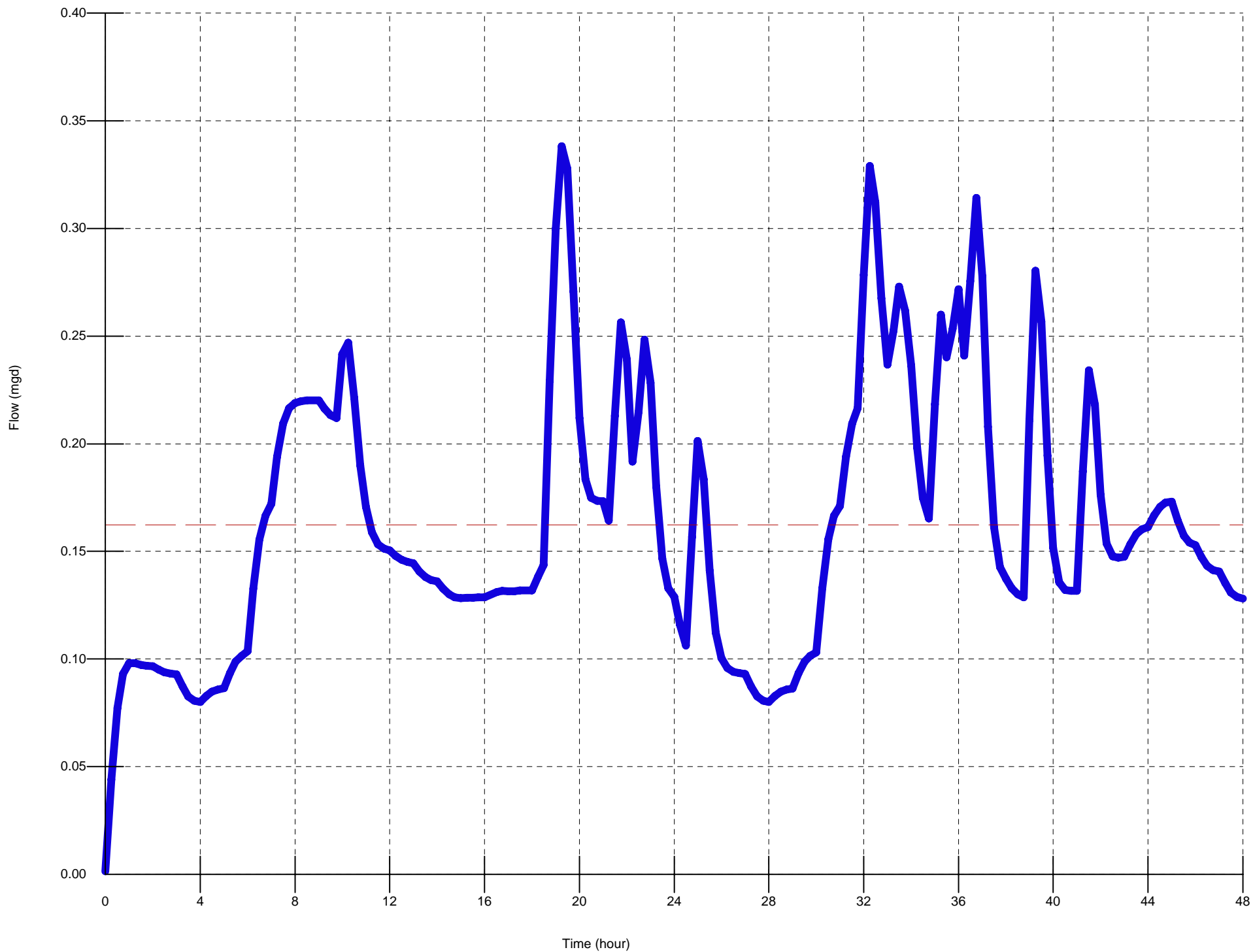
Wells Fargo LS Pump - 2045



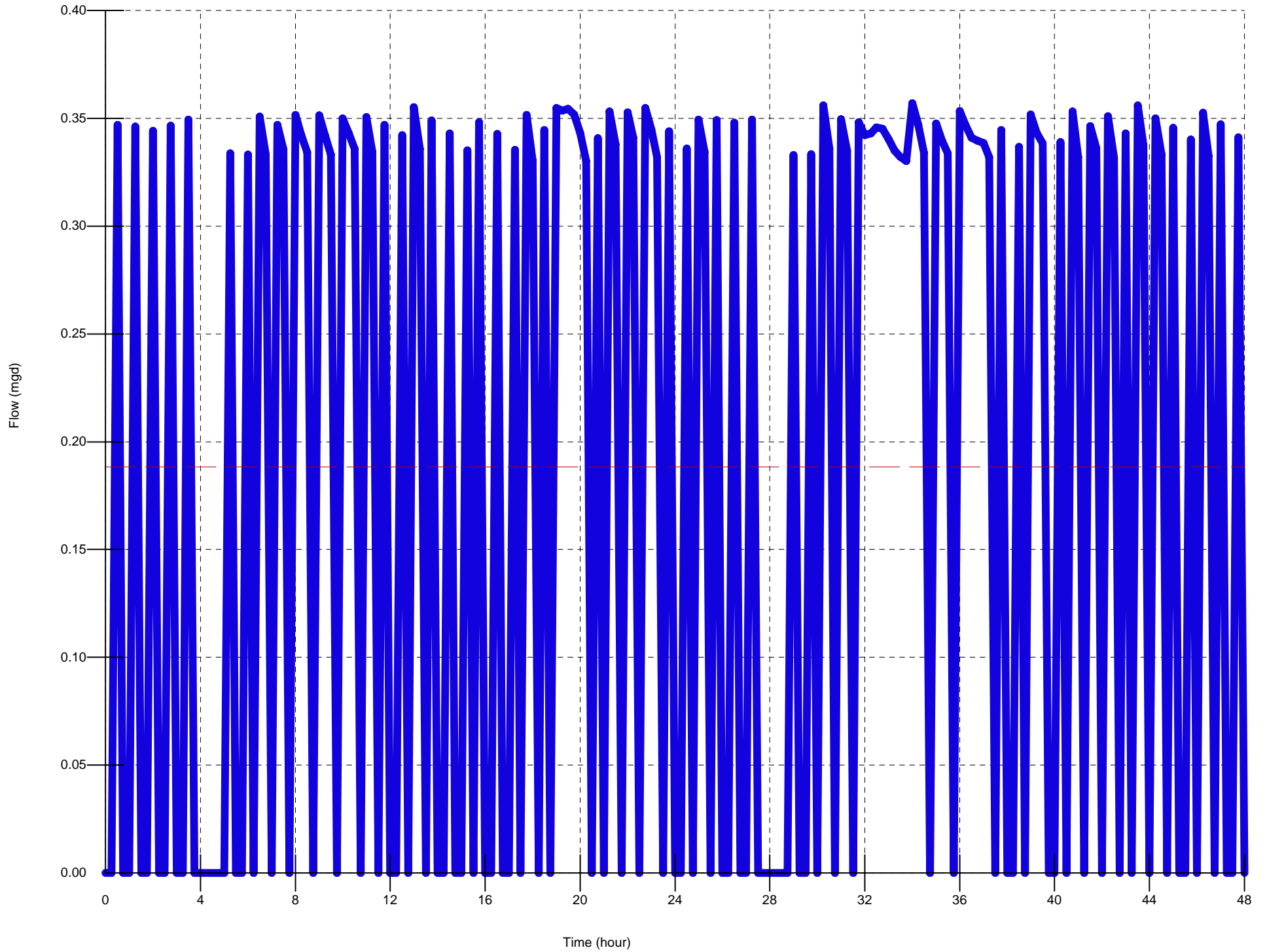
Wells Fargo LS Inflow 2 - 2045



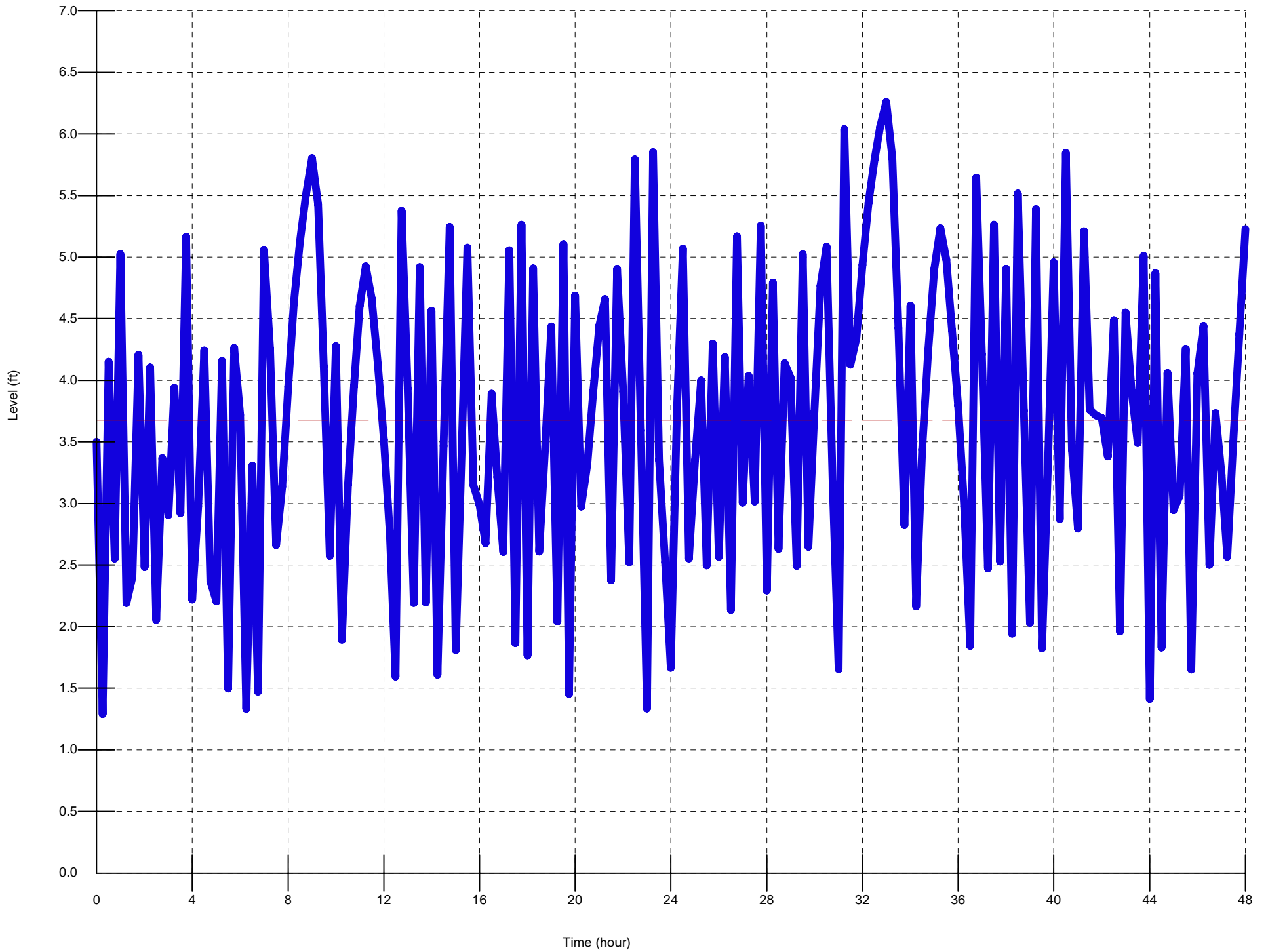
Wells Fargo LS Inflow 1 - 2045



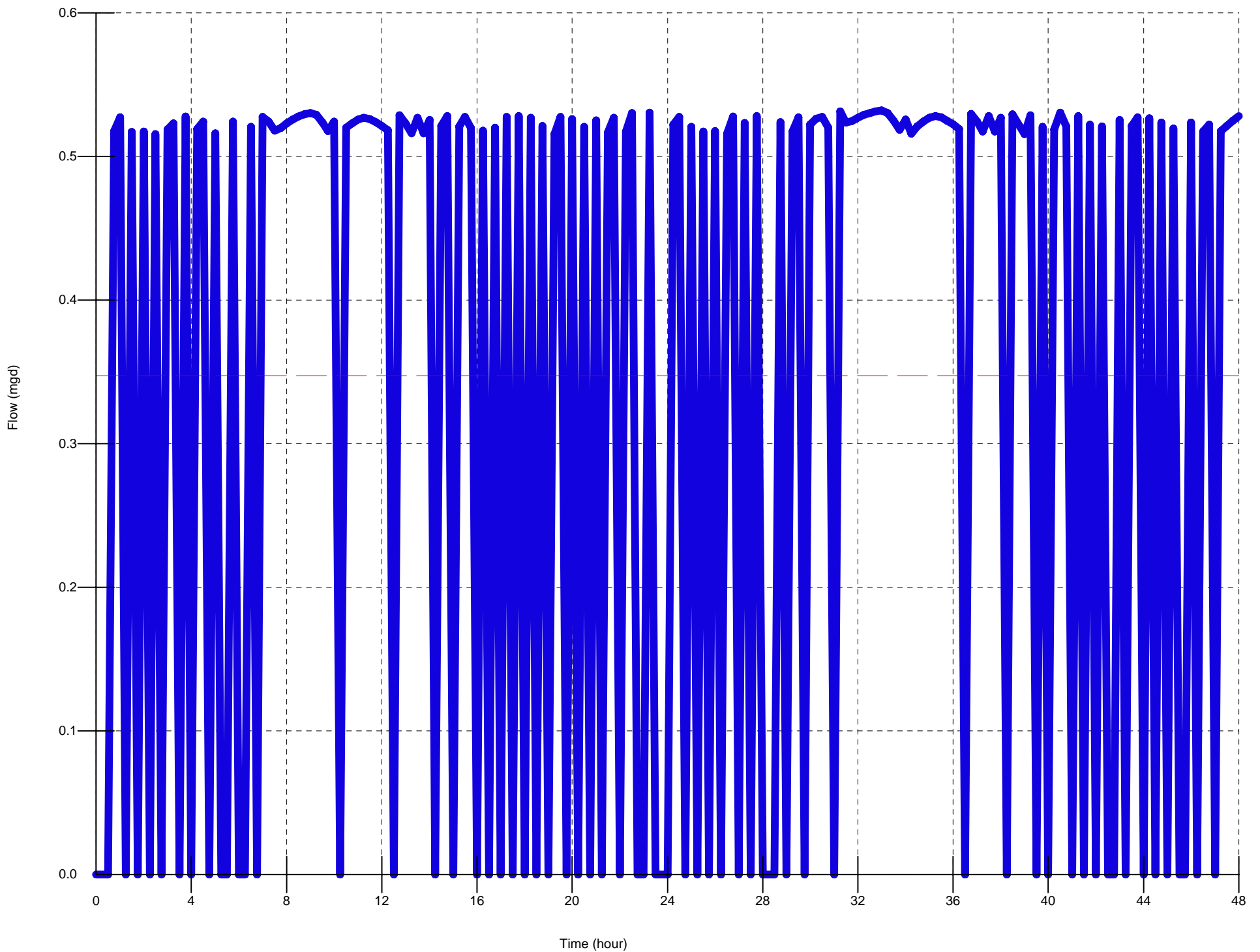
Wells Fargo Force Main - 2045



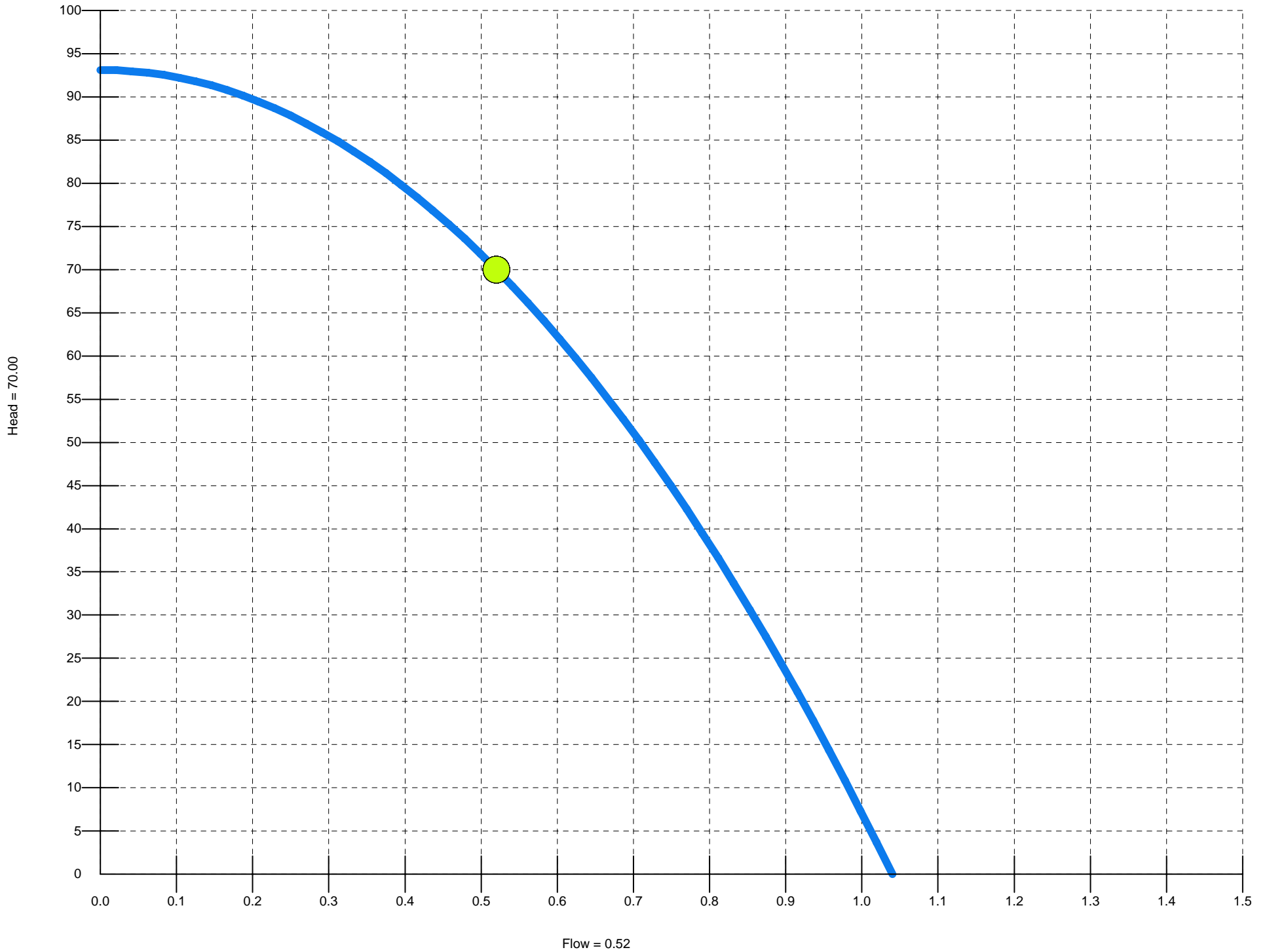
Rubbermaid LS Wet Well



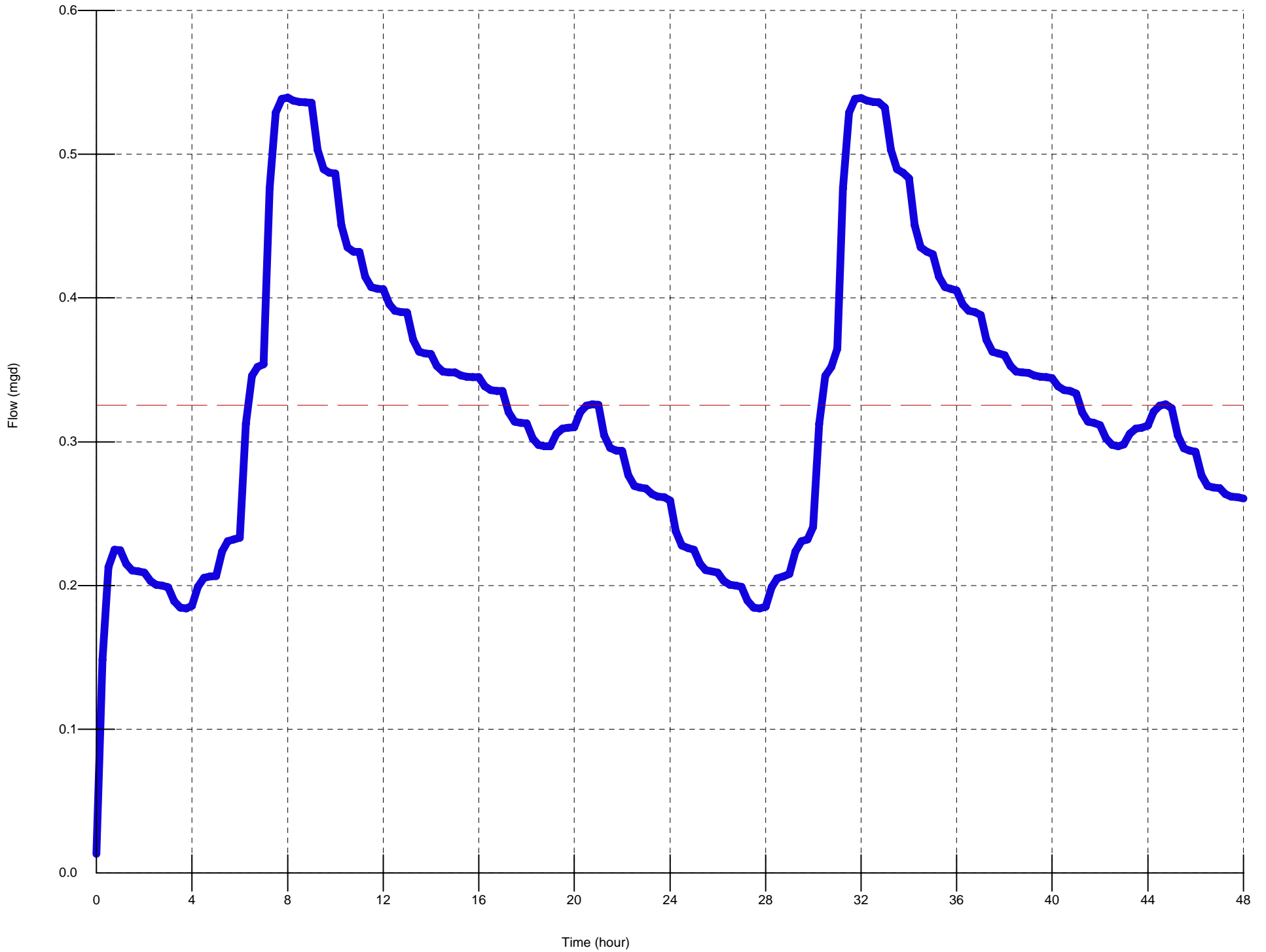
Rubbermaid LS Pump - 2045



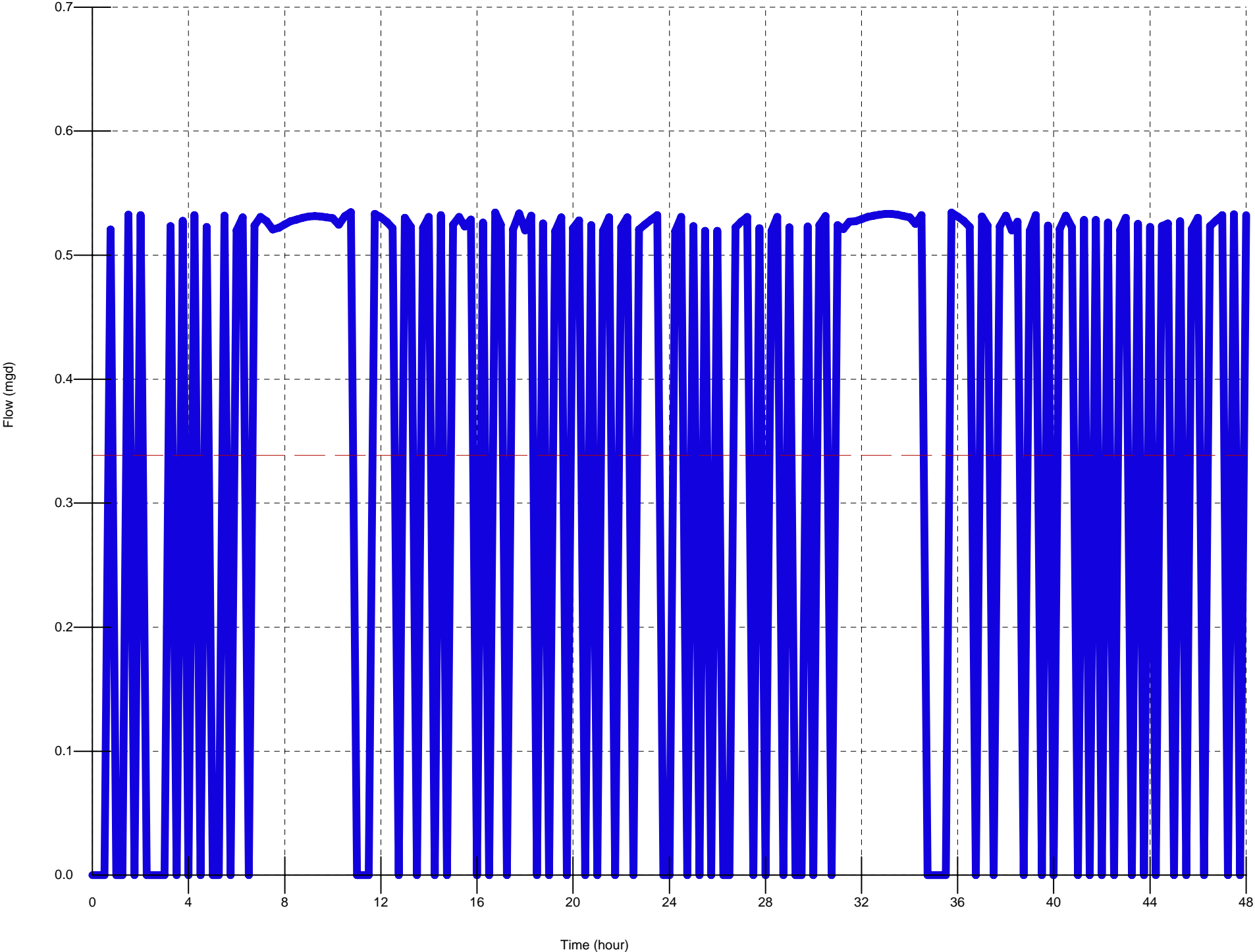
Rubbermaid LS Pump - 2045



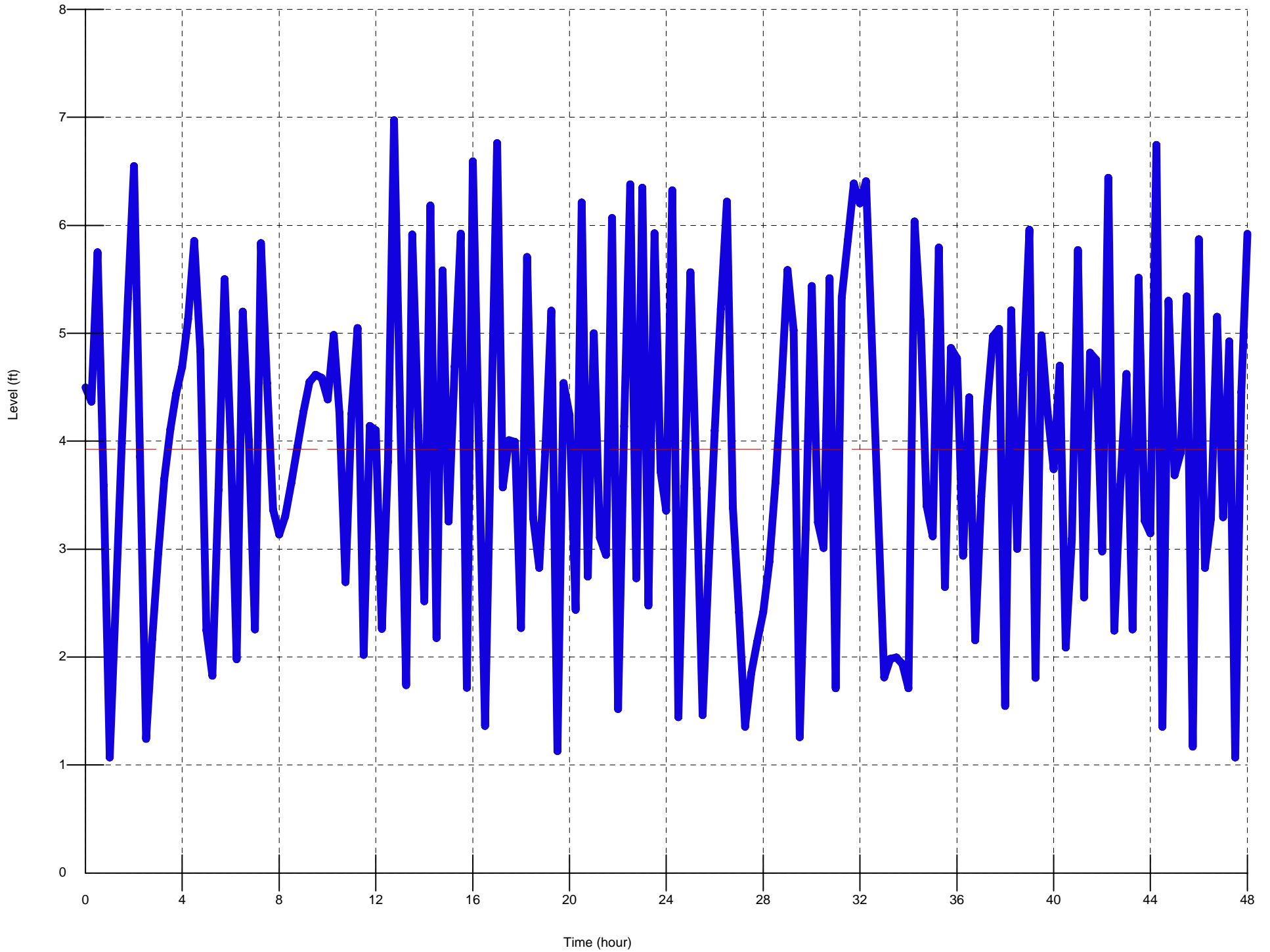
Rubbermaid LS Inflow - 2045



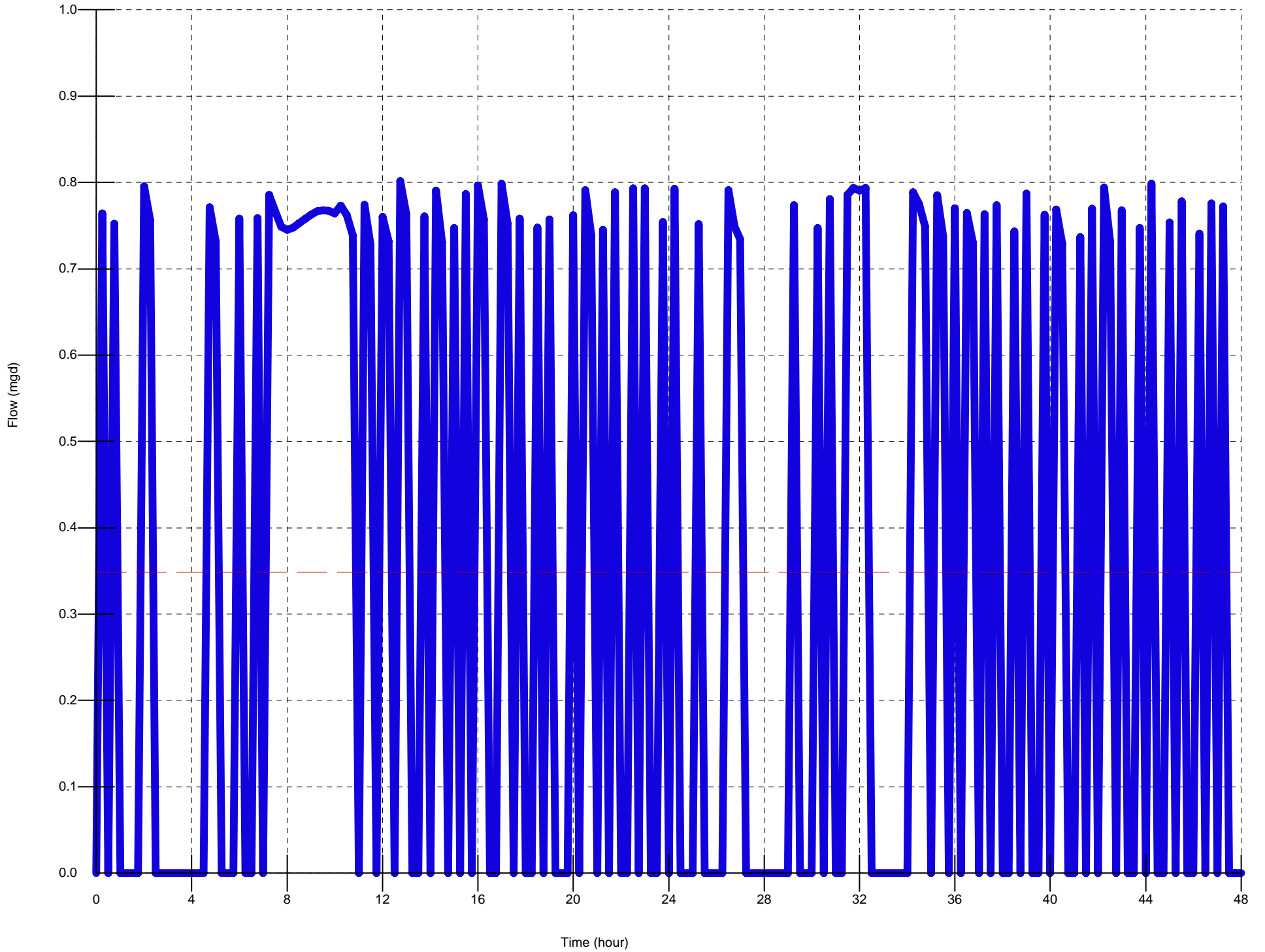
Rubbermaid Force Main - 2045



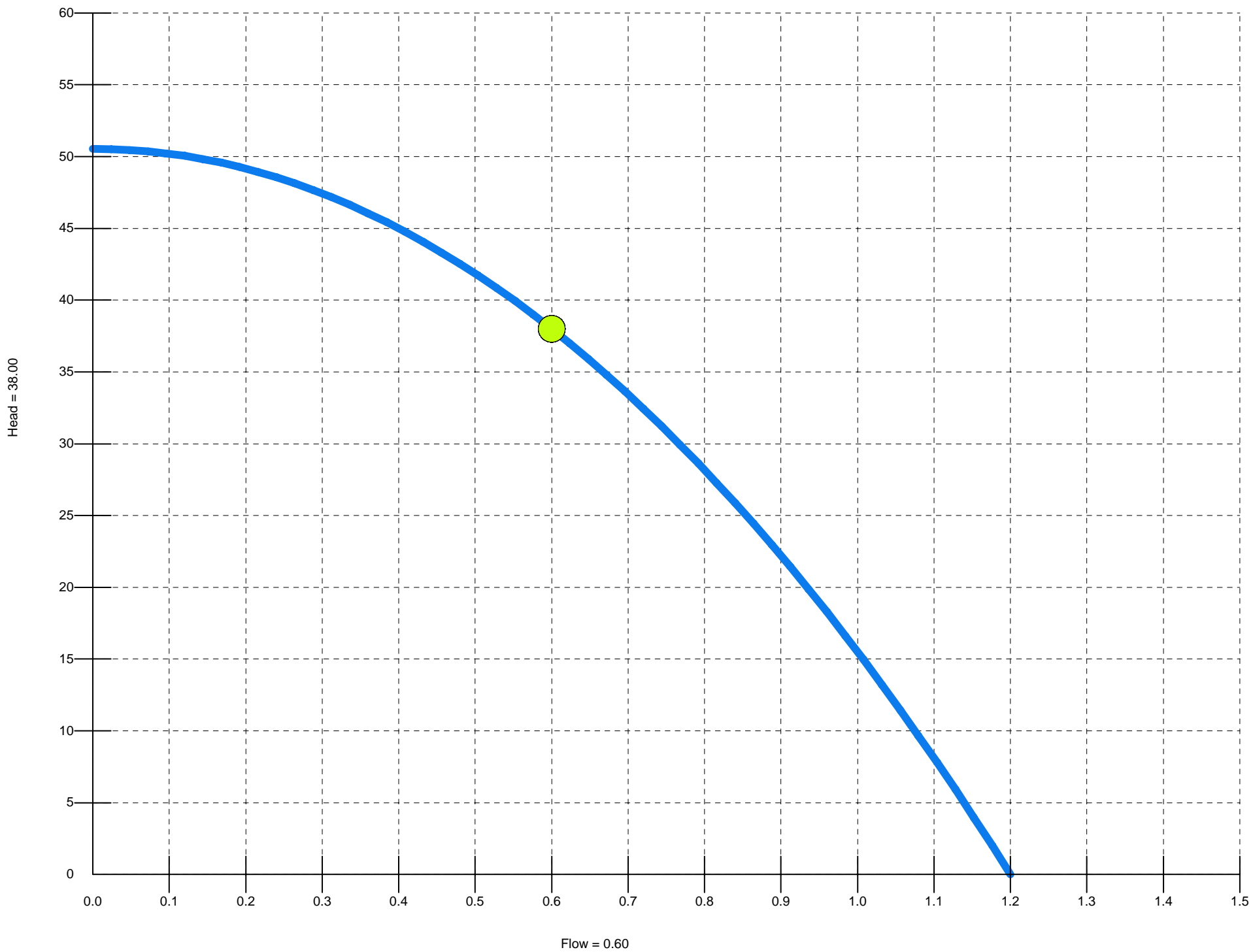
Palm Valley LS Wet Well



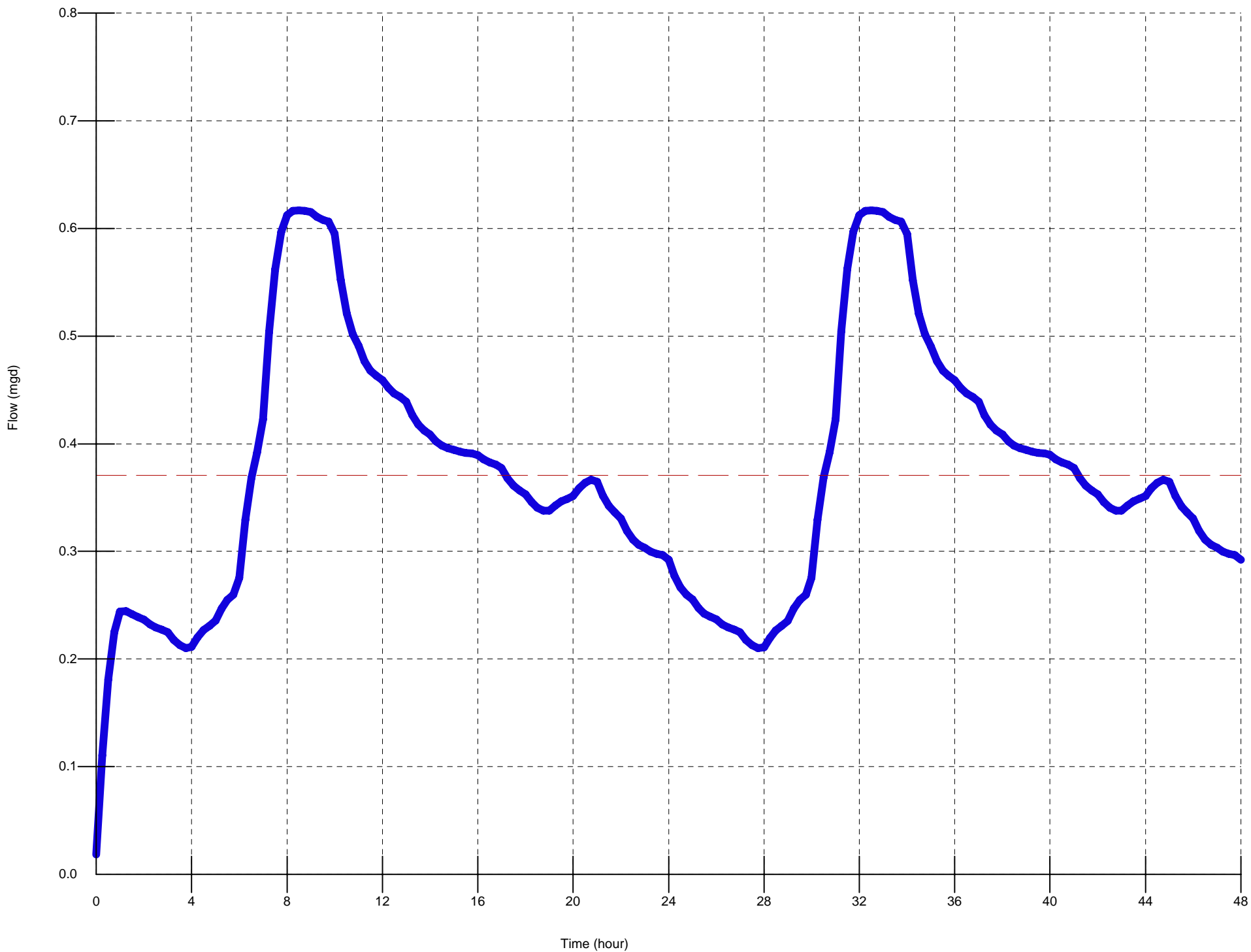
Palm Valley LS Pump - 2045



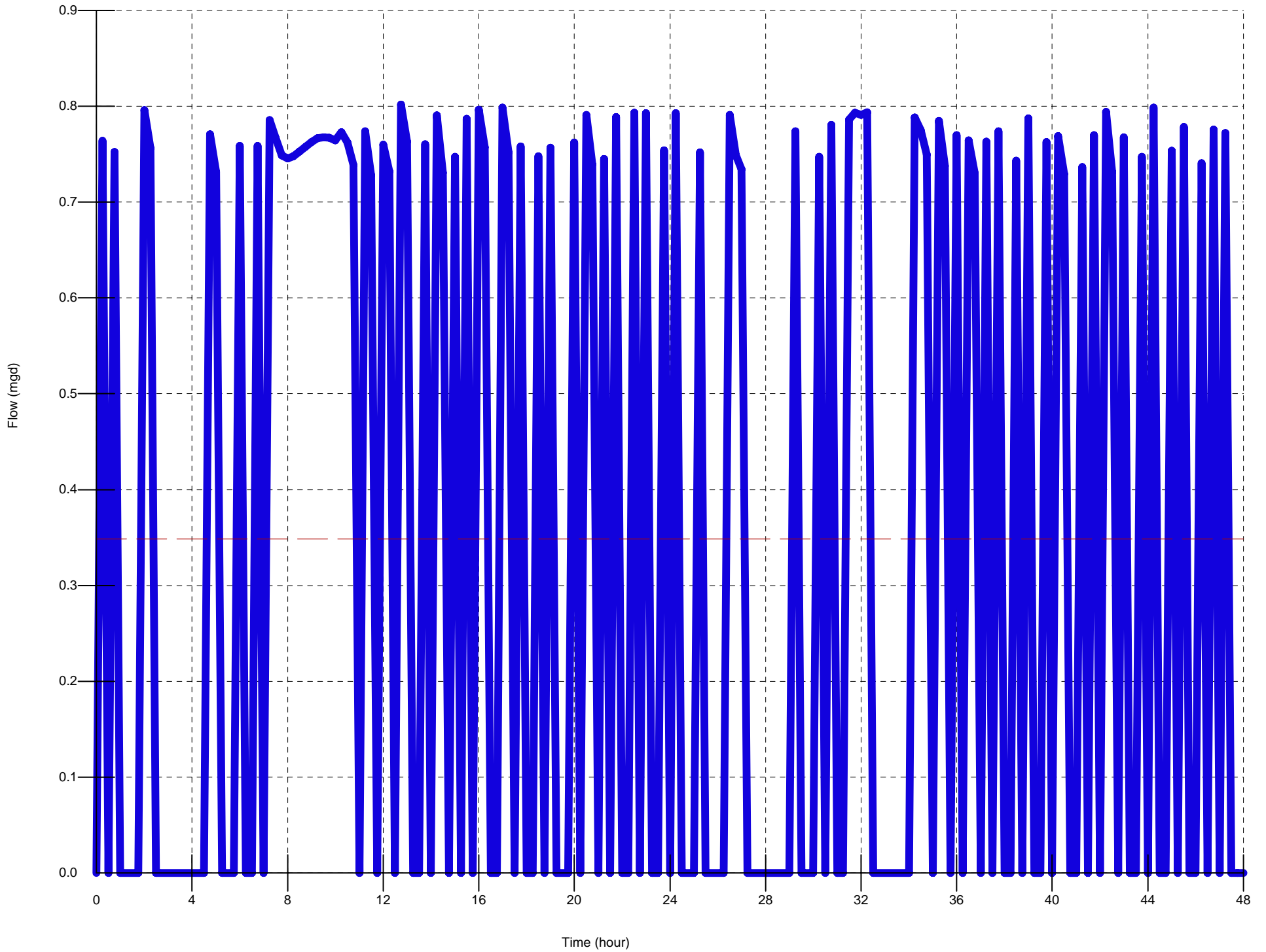
Palm Valley LS Pump - 2045



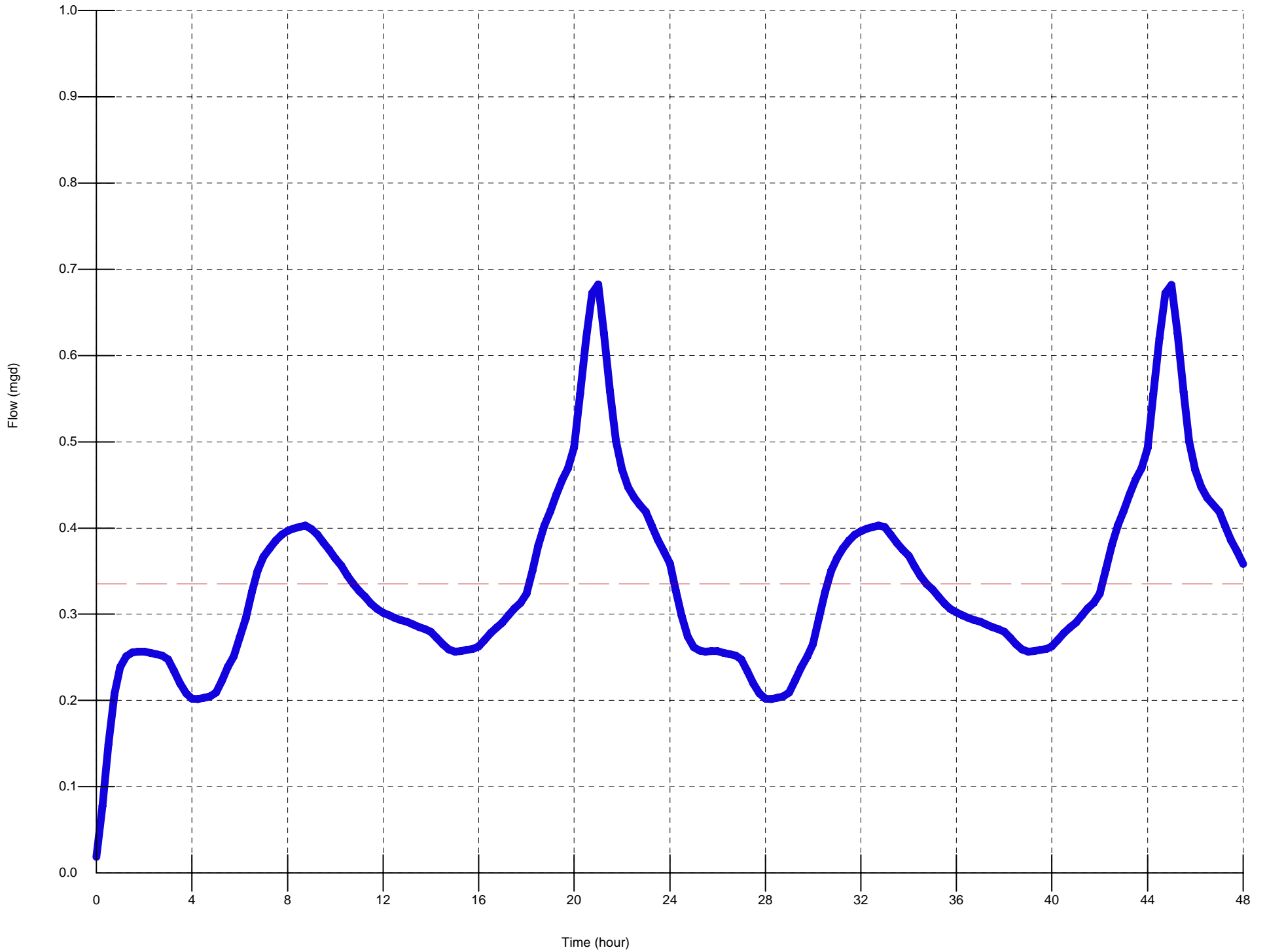
Palm Valley LS Inflow - 2045



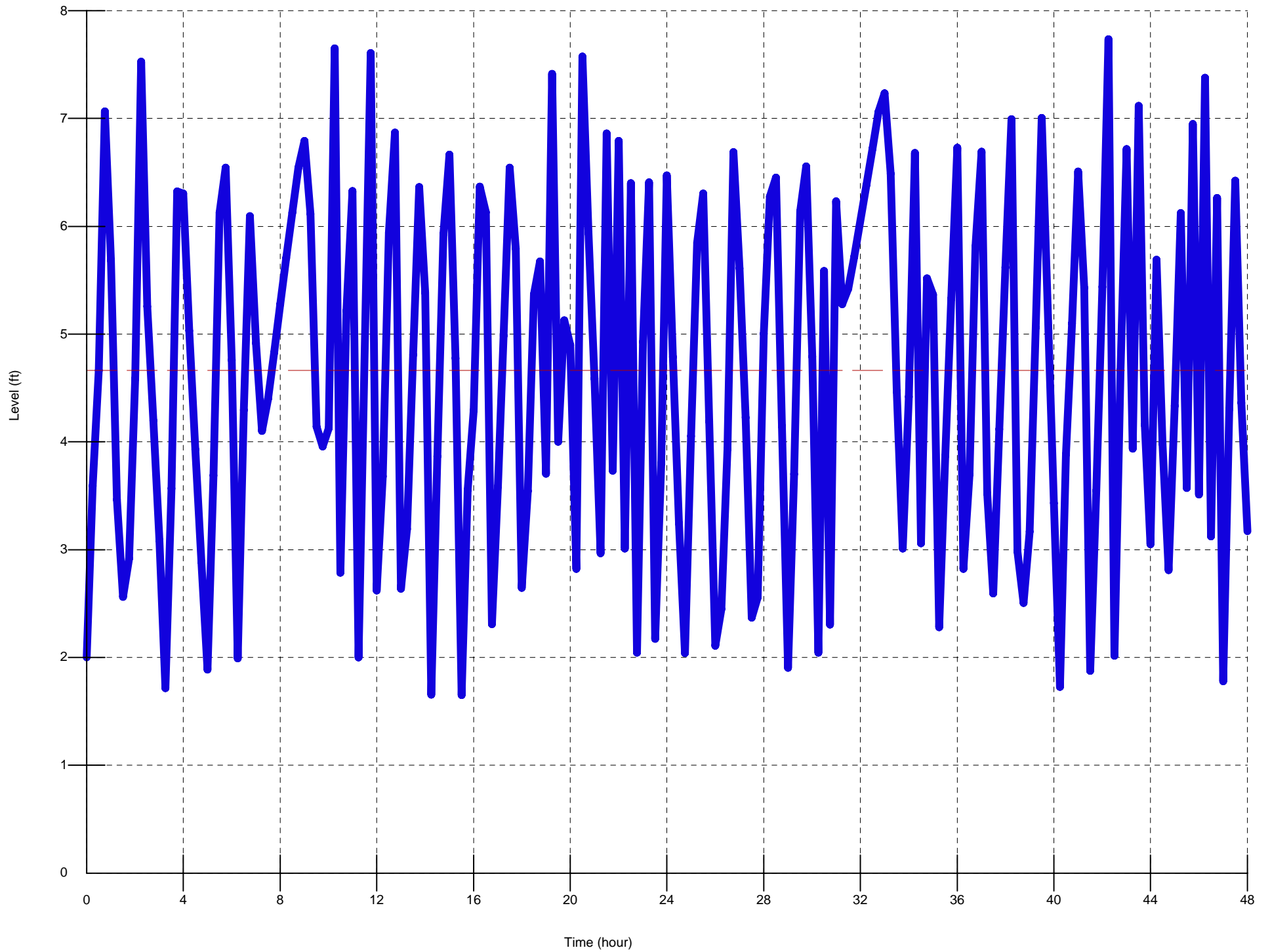
Palm Valley Force Main - 2045



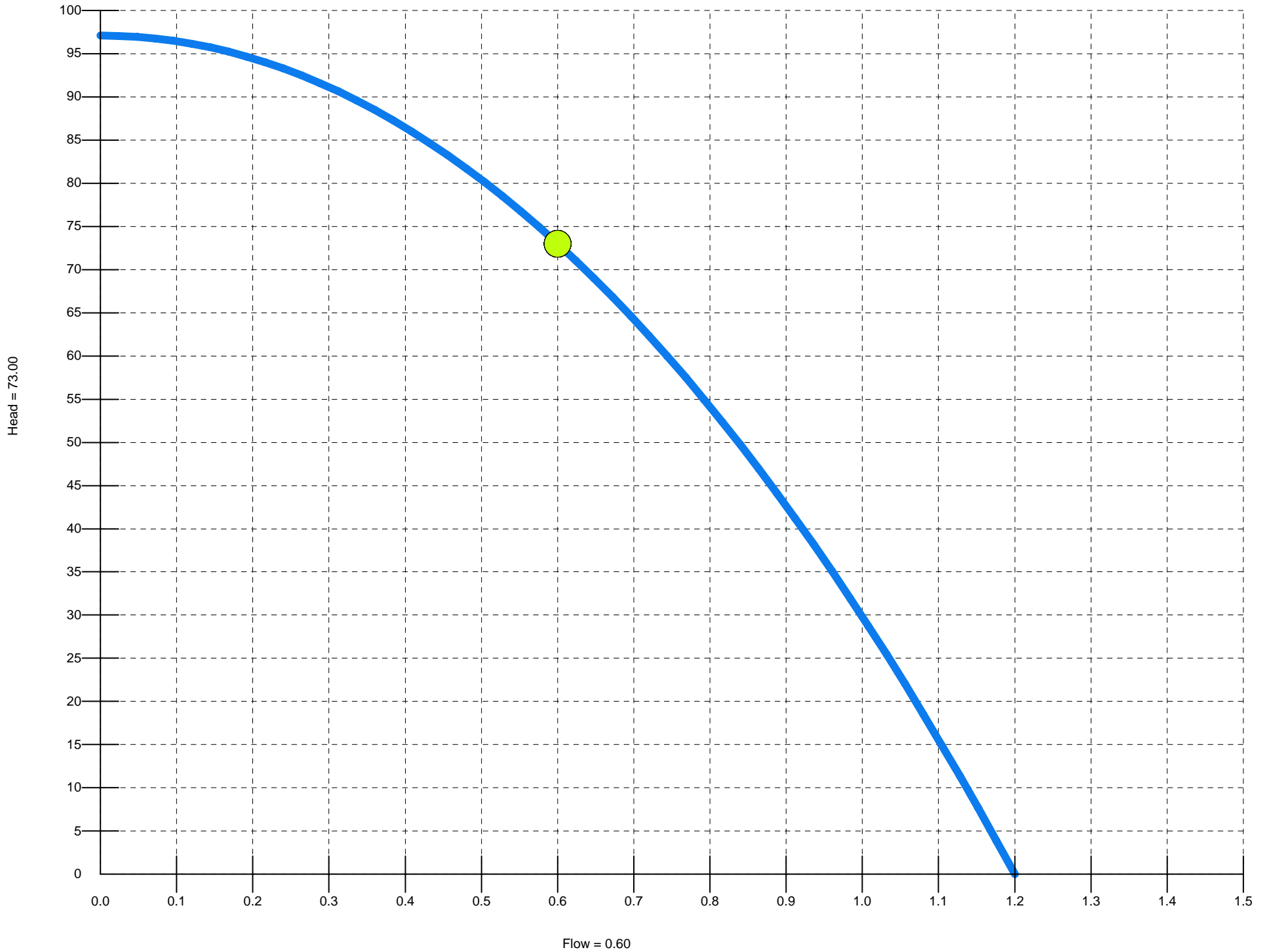
Lost Lift Station Inflow - 2045



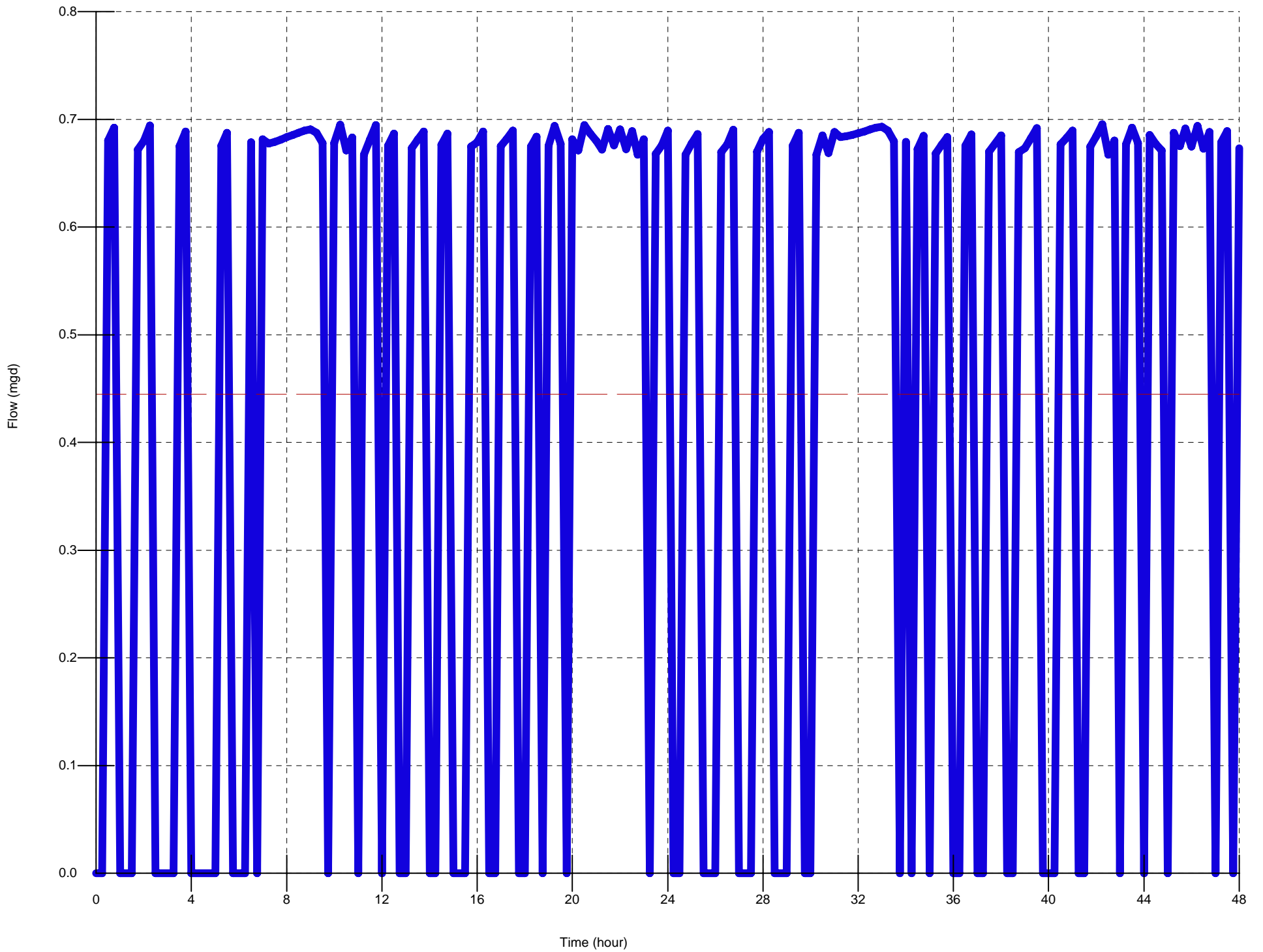
Las Brisas LS Wet Well



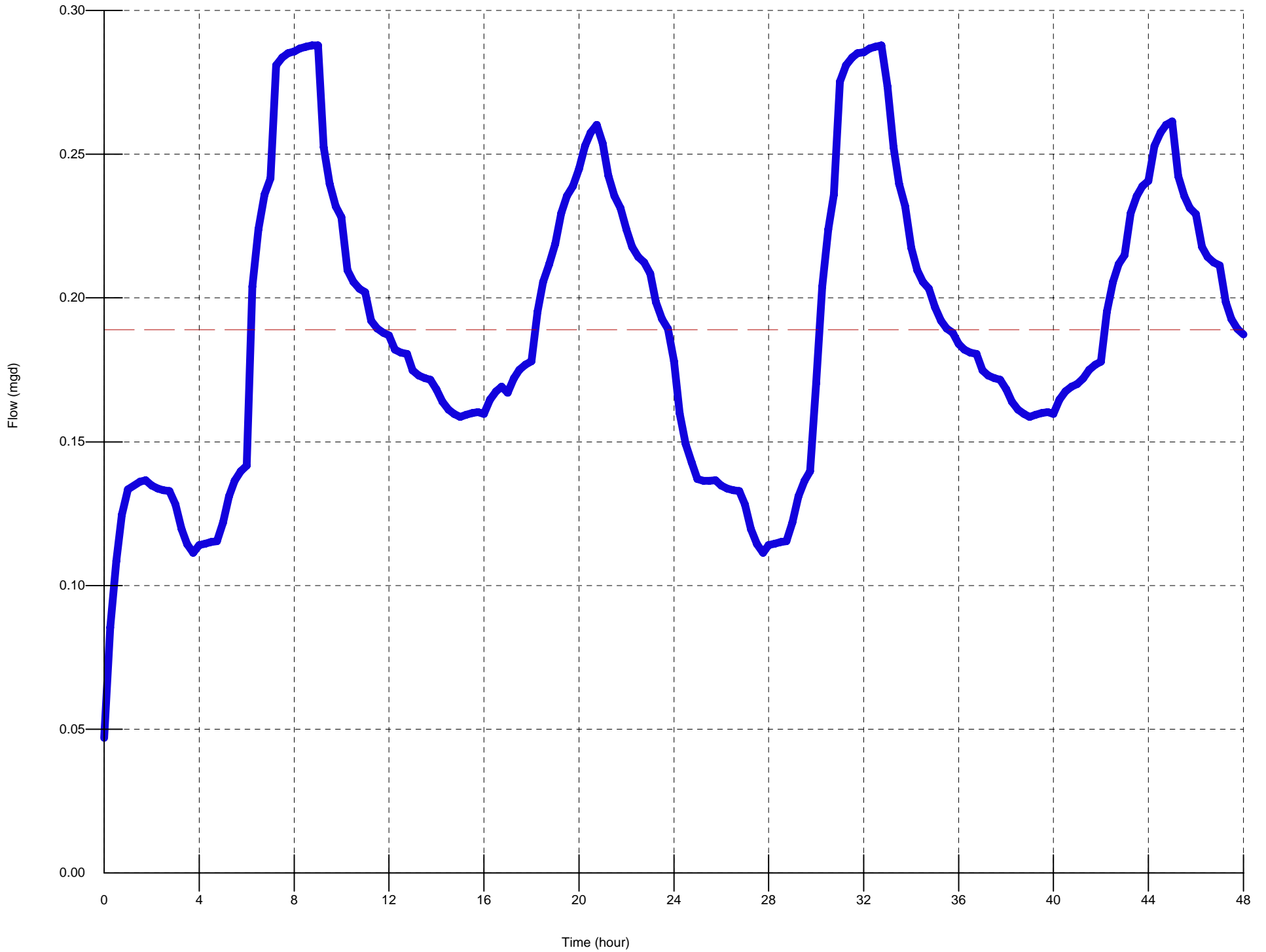
Las Brisas LS Pump - 2045



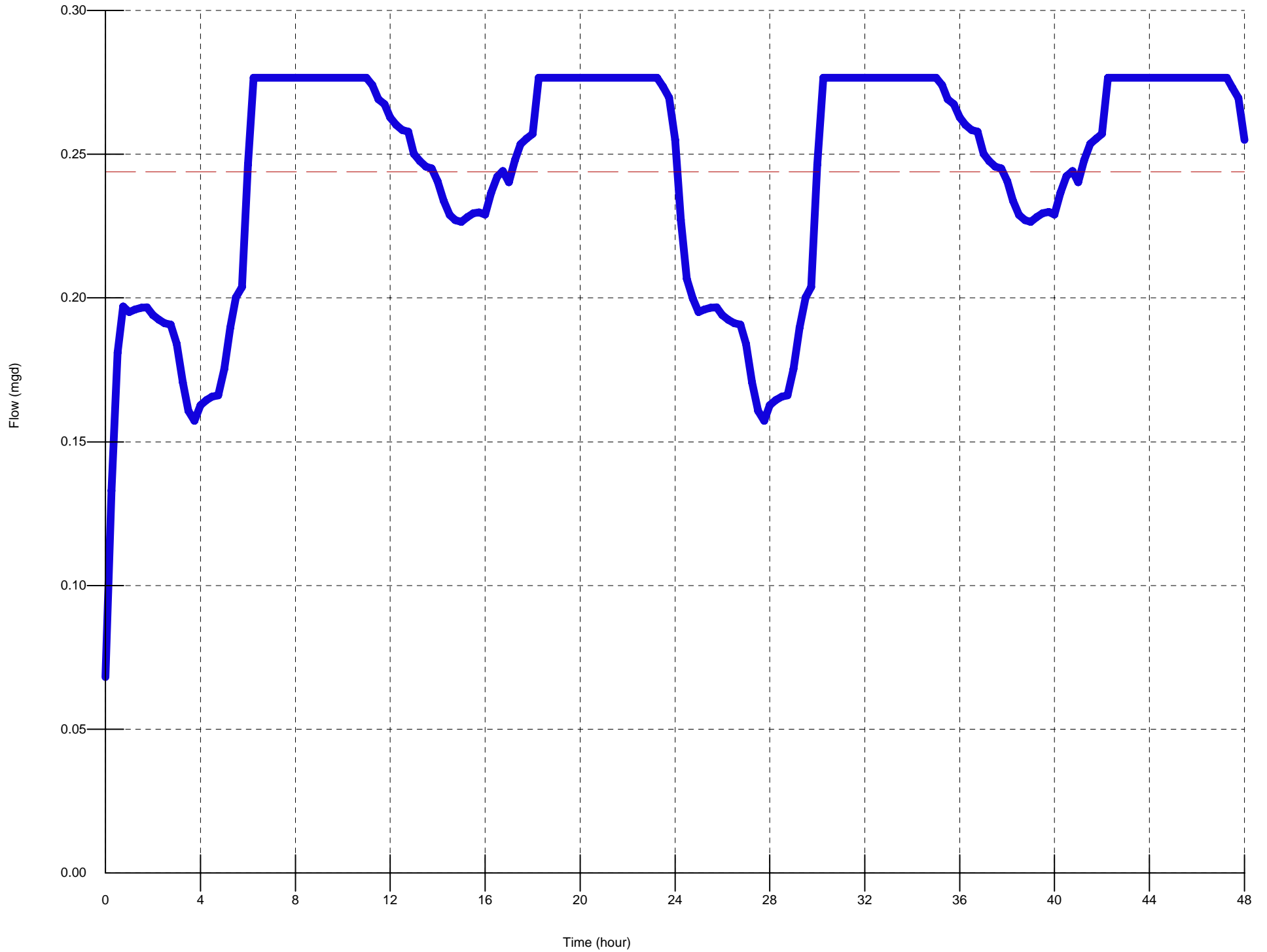
Las Brisas LS Pump - 2045



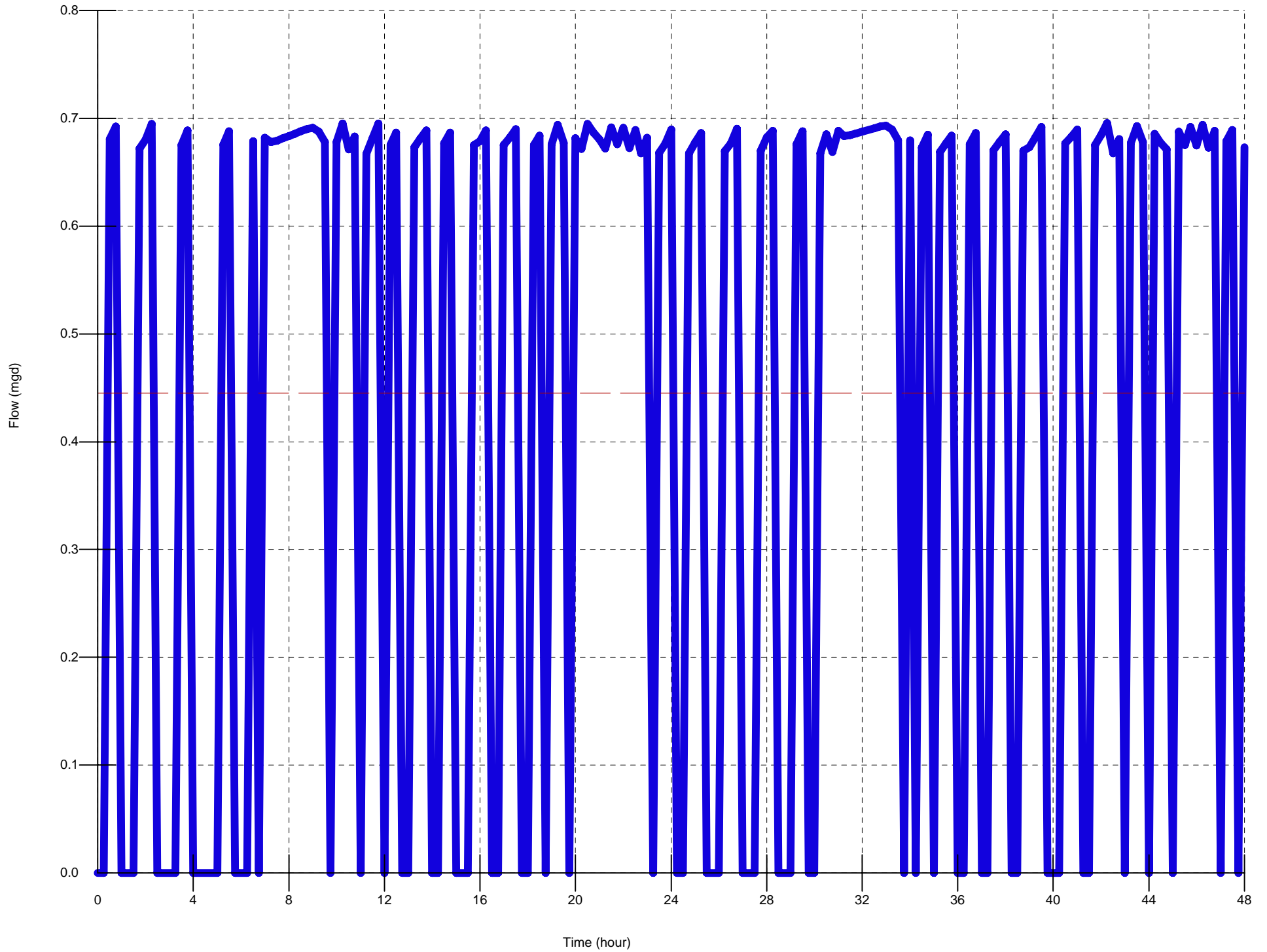
Las Brisas LS Inflow 2 - 2045



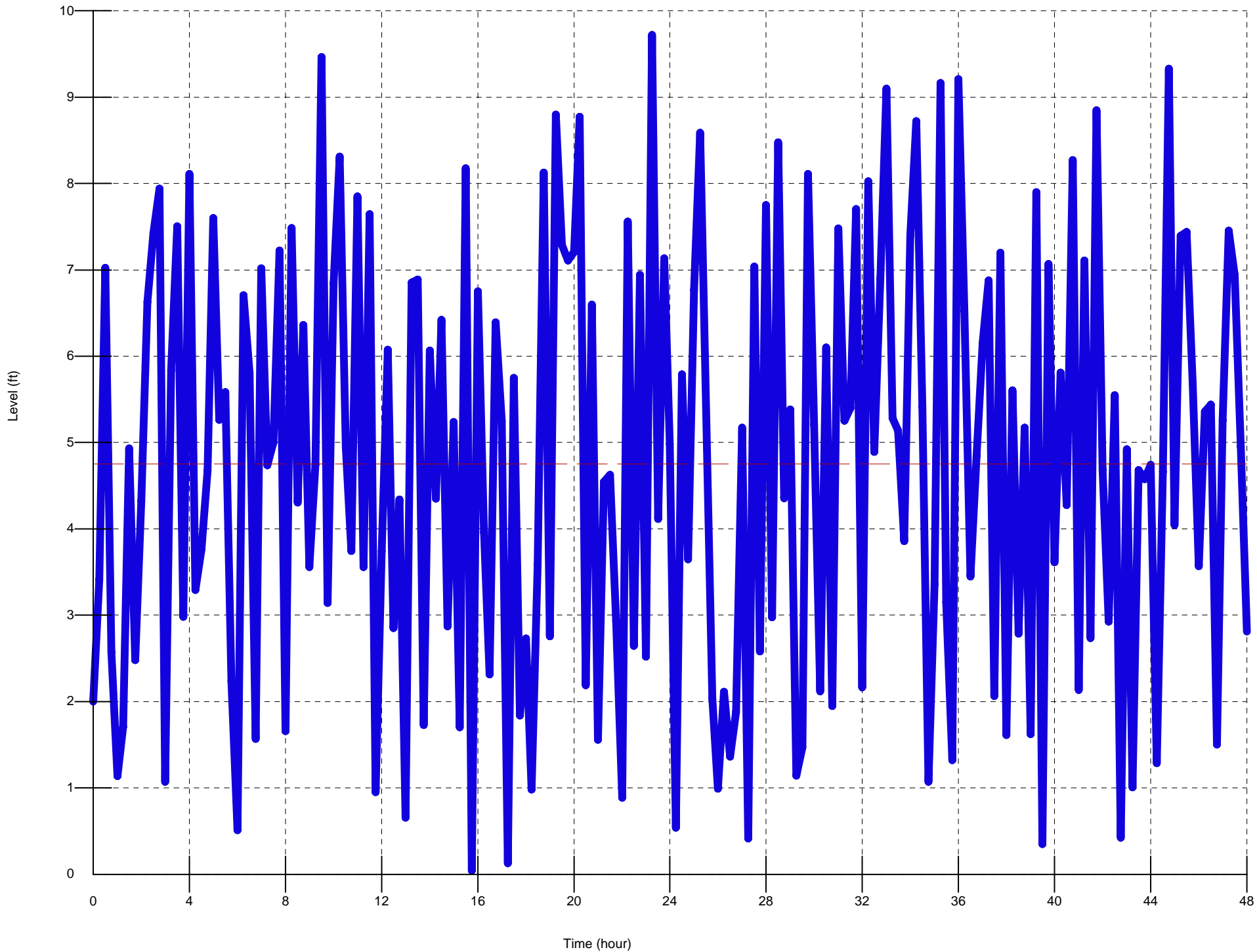
Las Brisas LS Inflow 1 - 2045



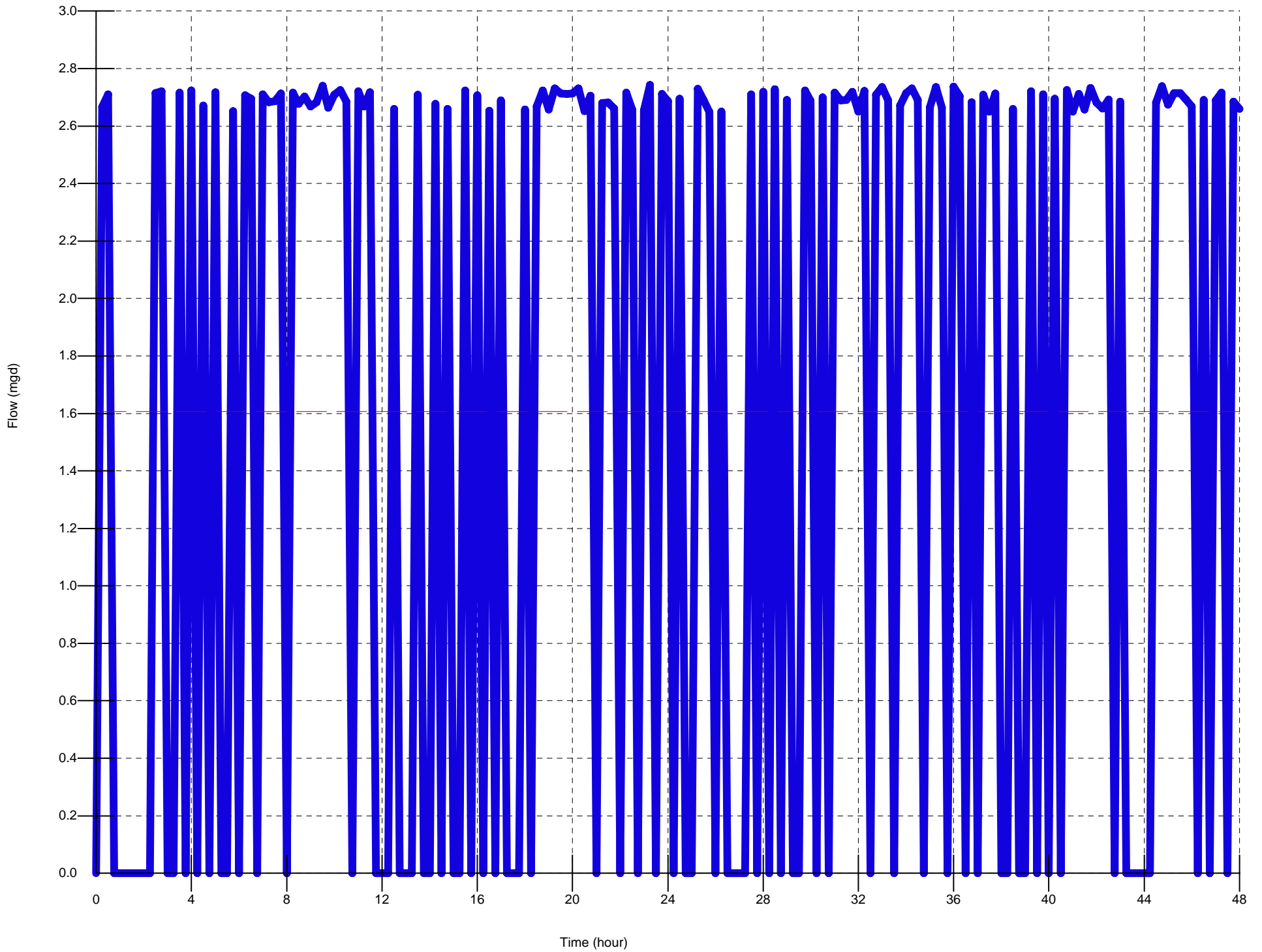
Las Brisas Force Main - 2045



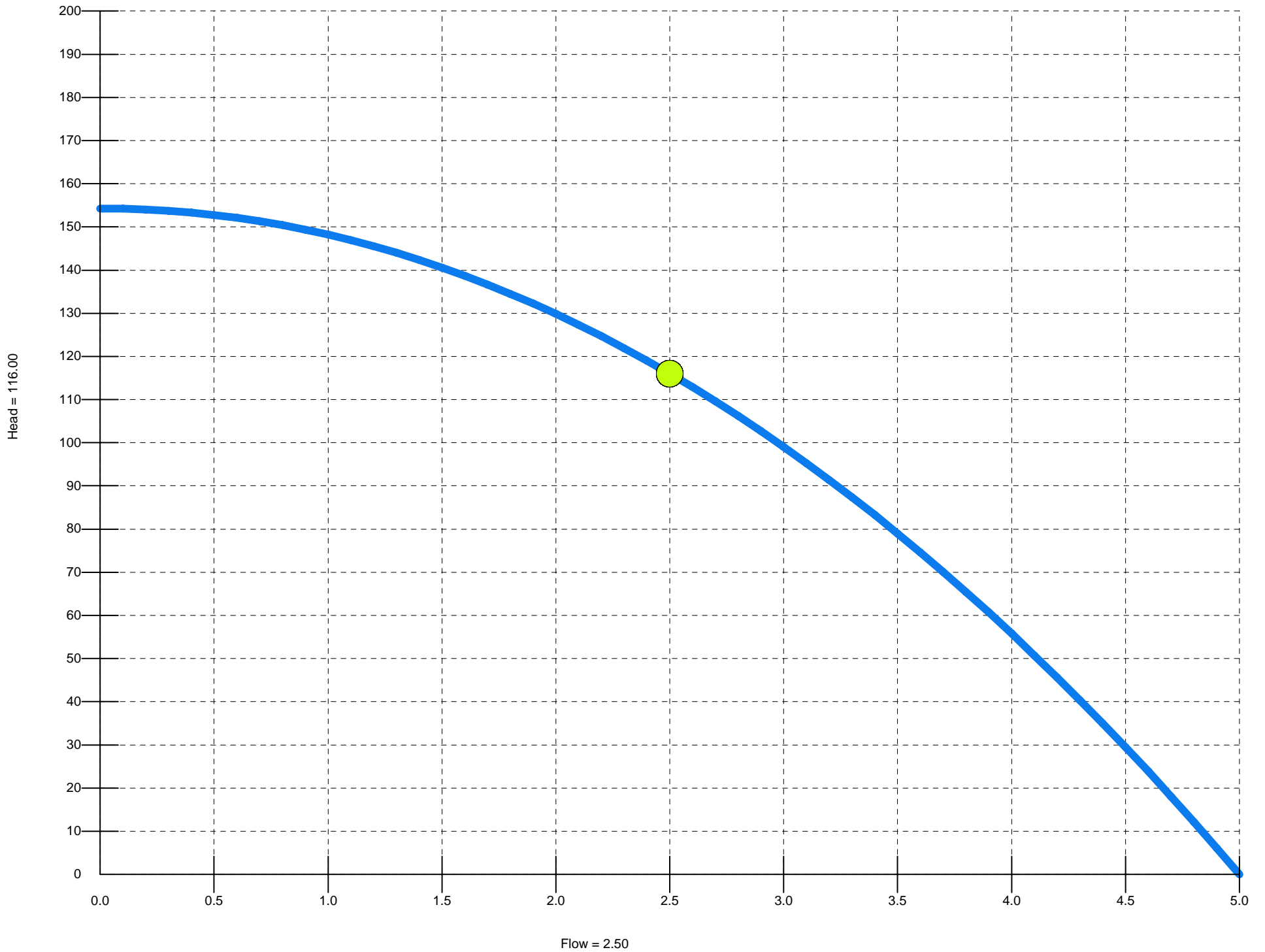
Lakin LS Wet Well



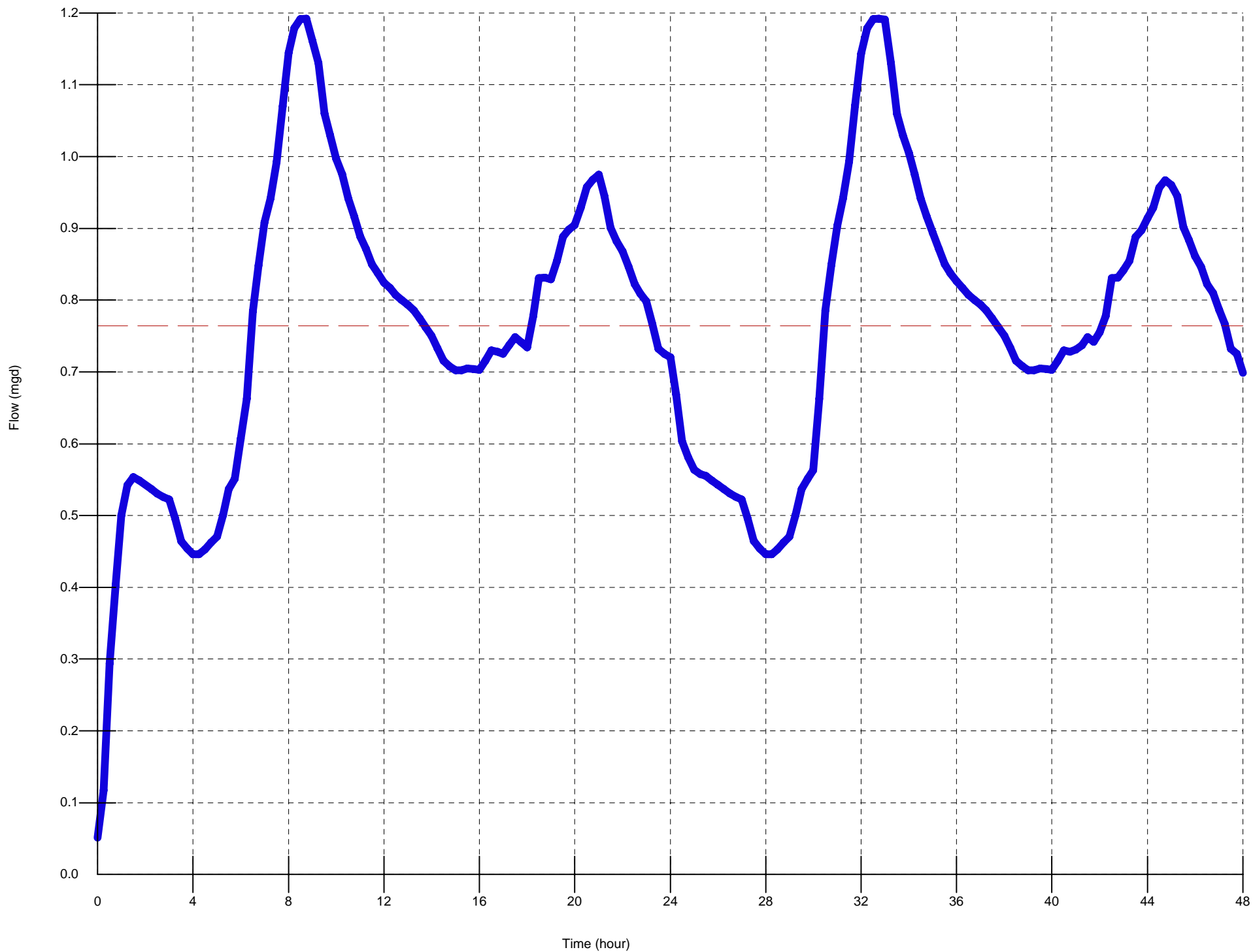
Lakin LS Pump - 2045



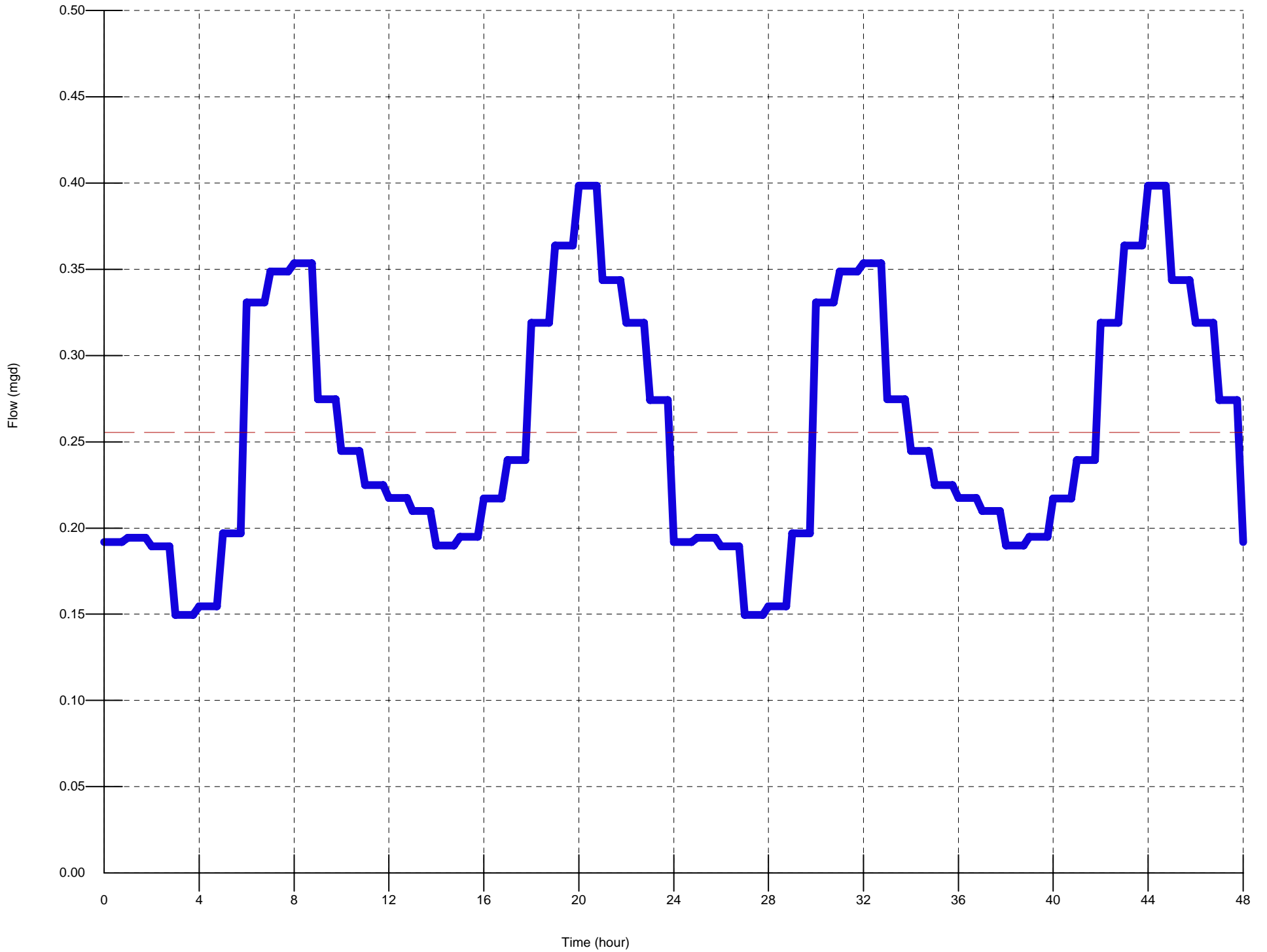
Lakin LS Pump - 2045



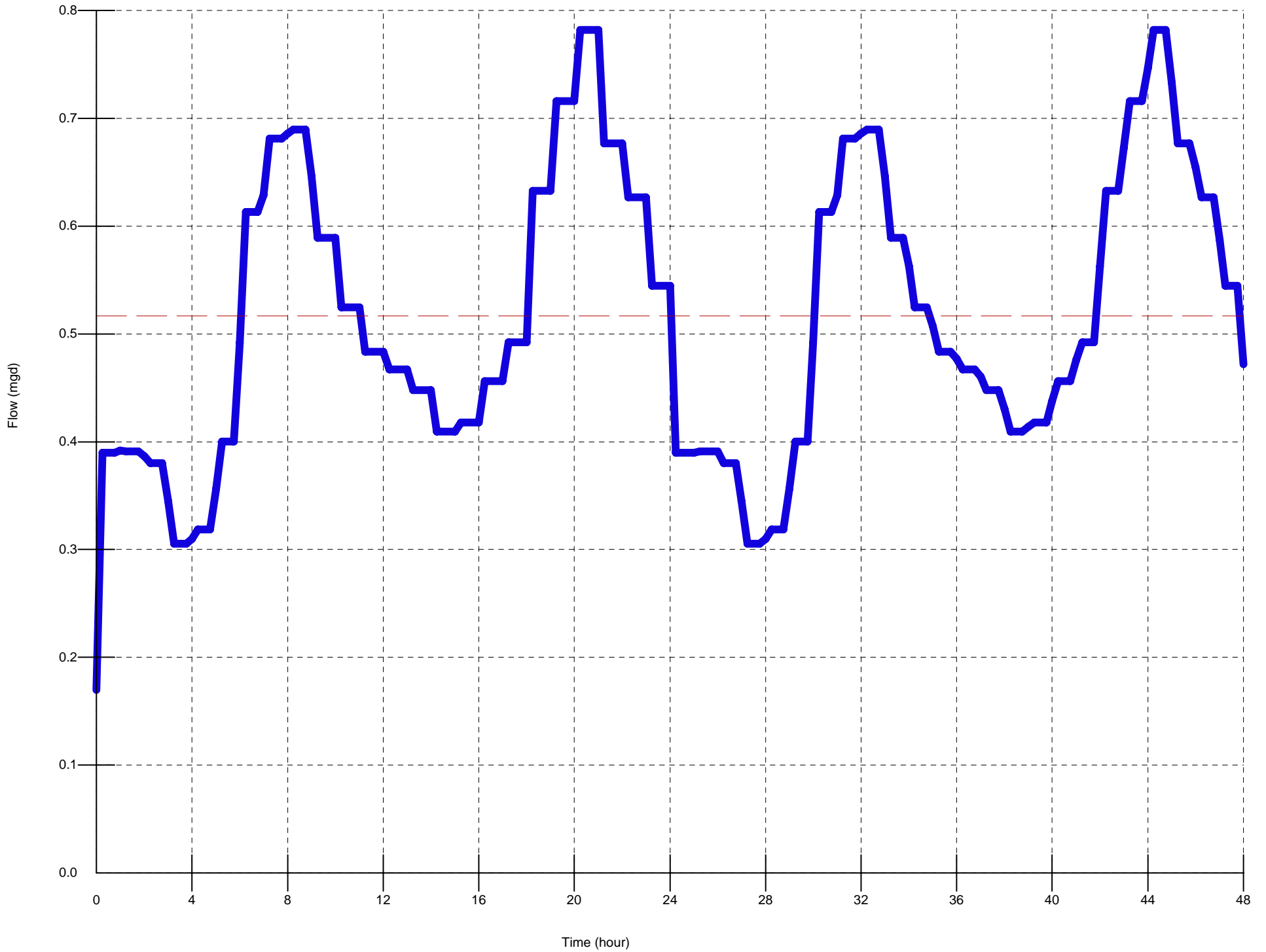
Lakin LS Inflow 3 - 2045



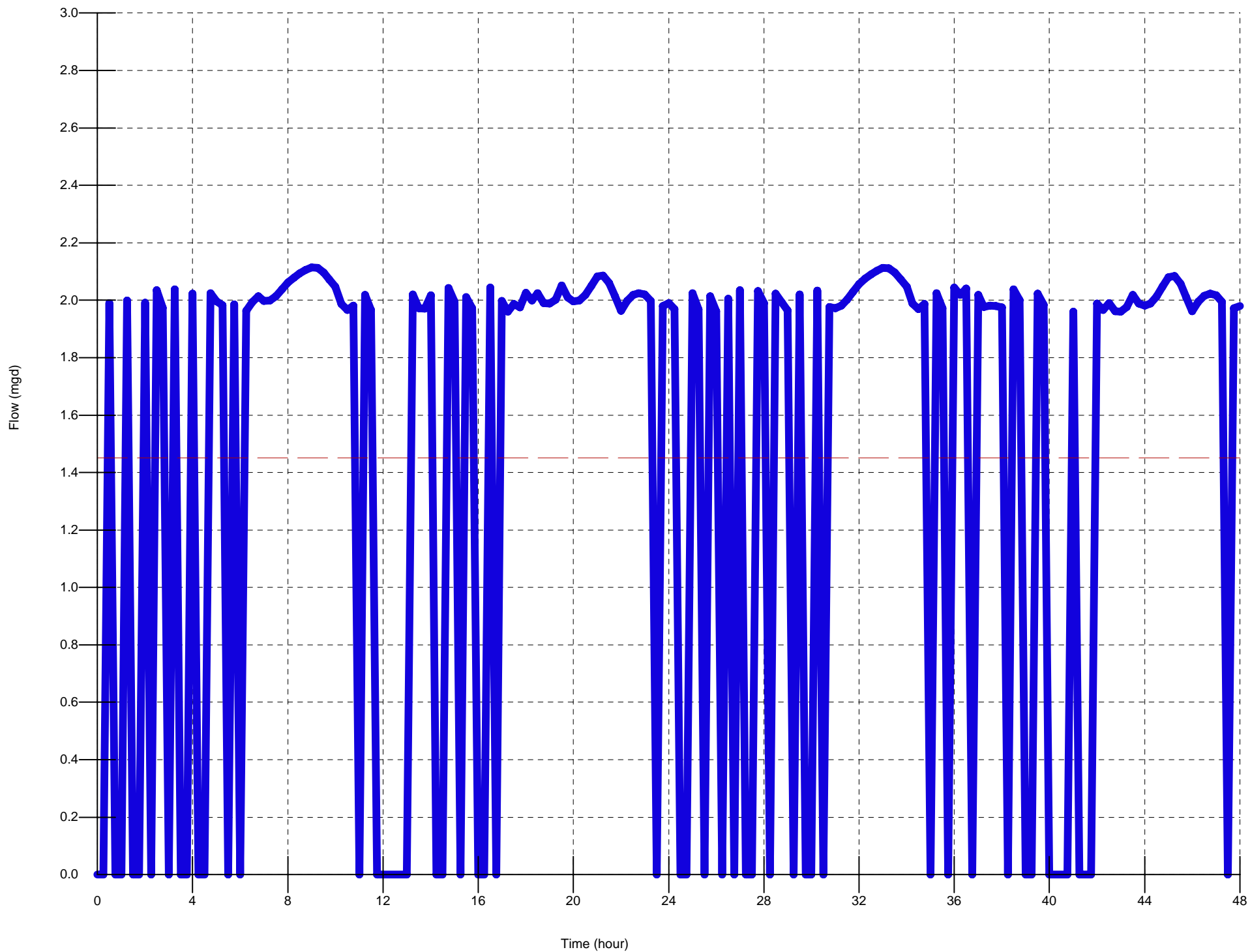
Lakin LS Inflow 2 - 2045



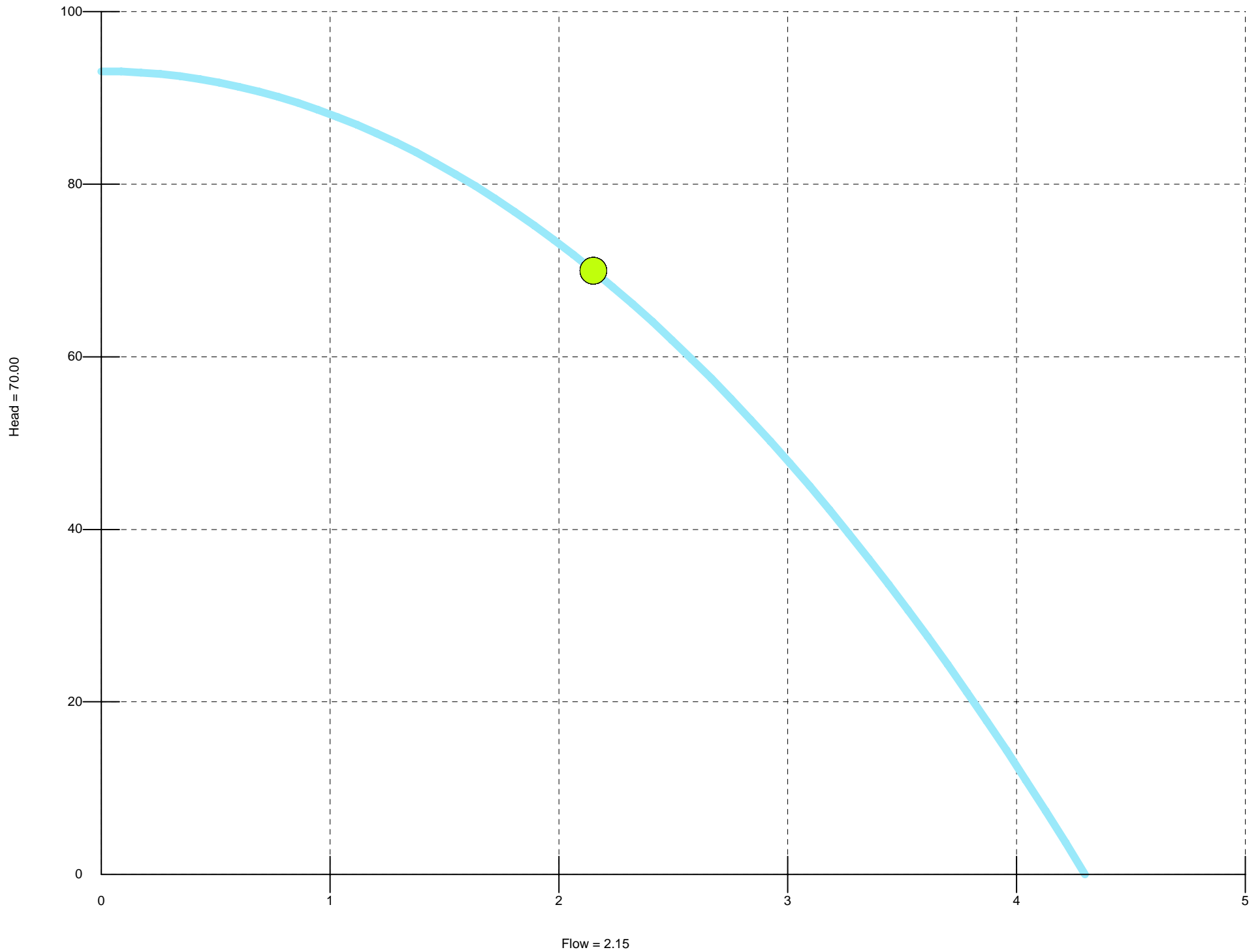
Lakin LS Inflow 1 - 2045



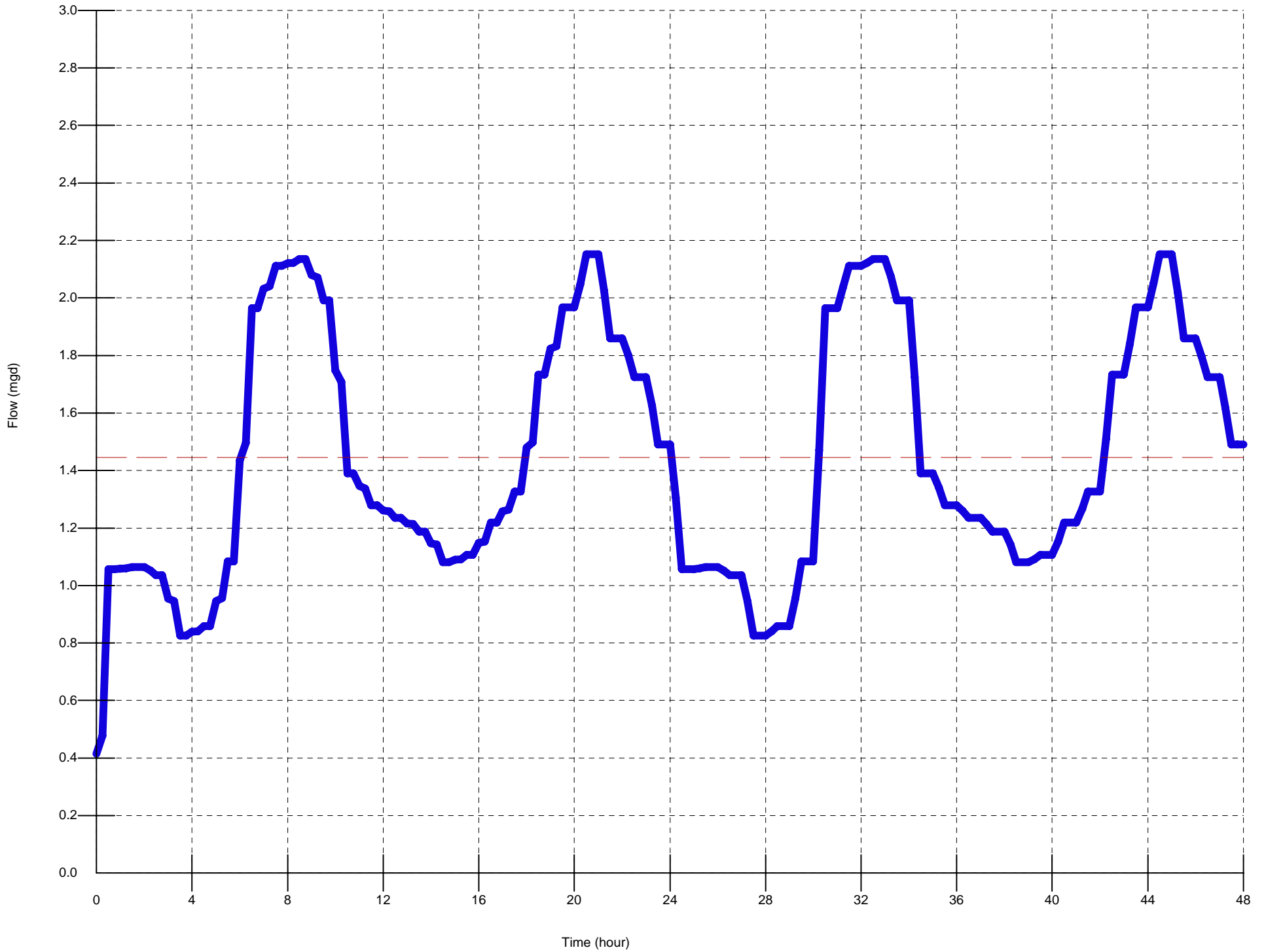
Kings Ranch Lift Station Pump - 2045



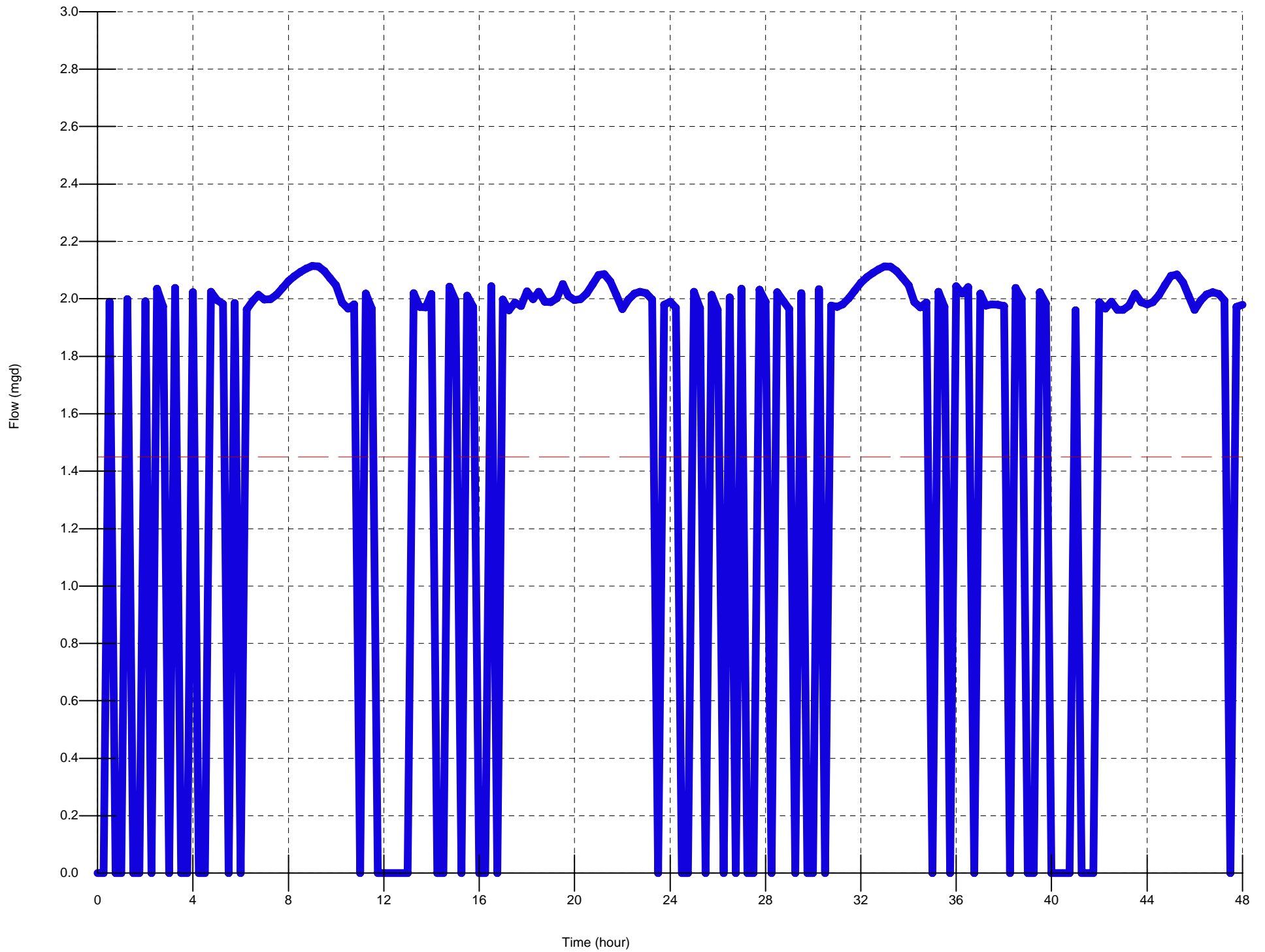
Kings Ranch Lift Station Pump Curve - 2045



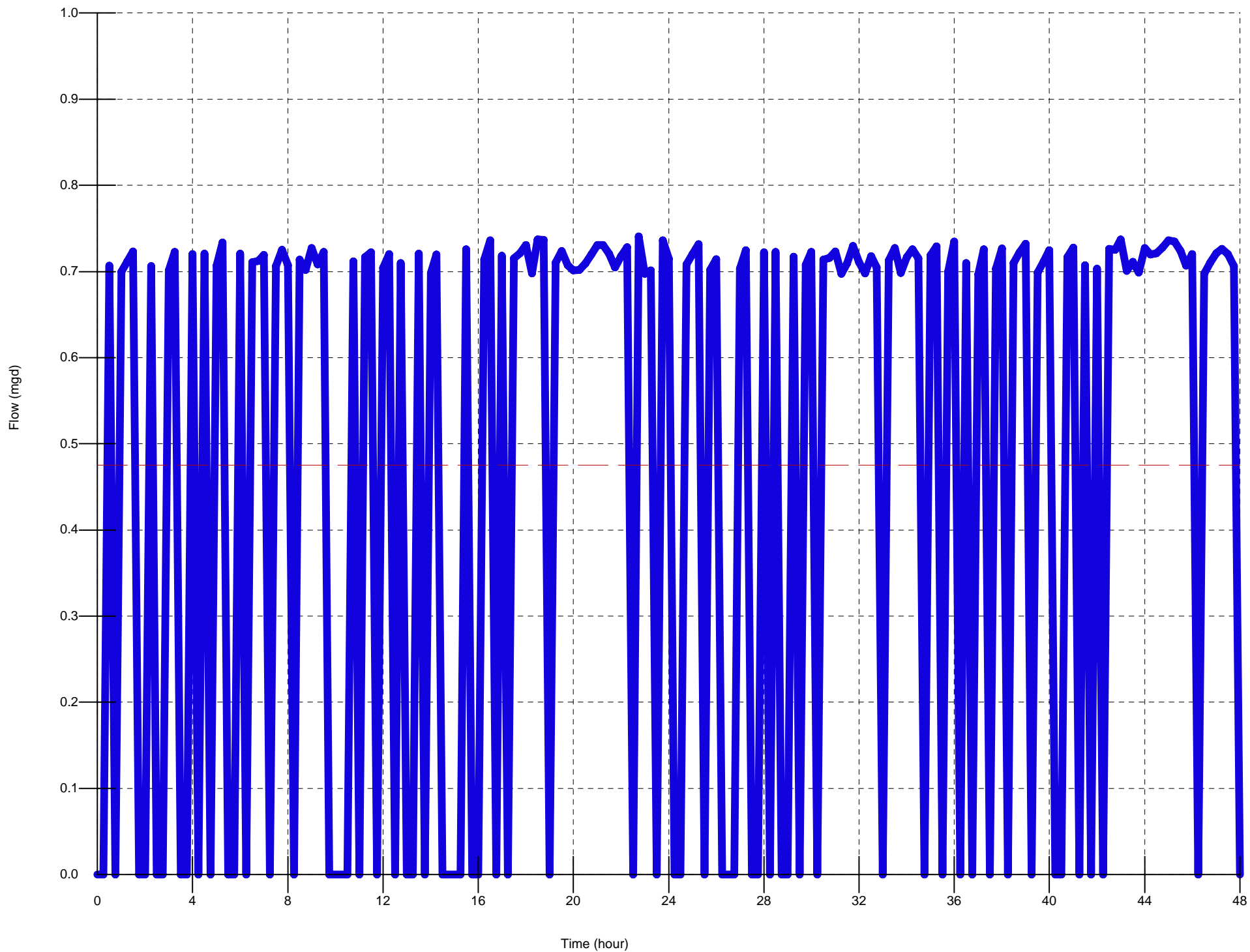
Kings Ranch LS Inflow - 2025



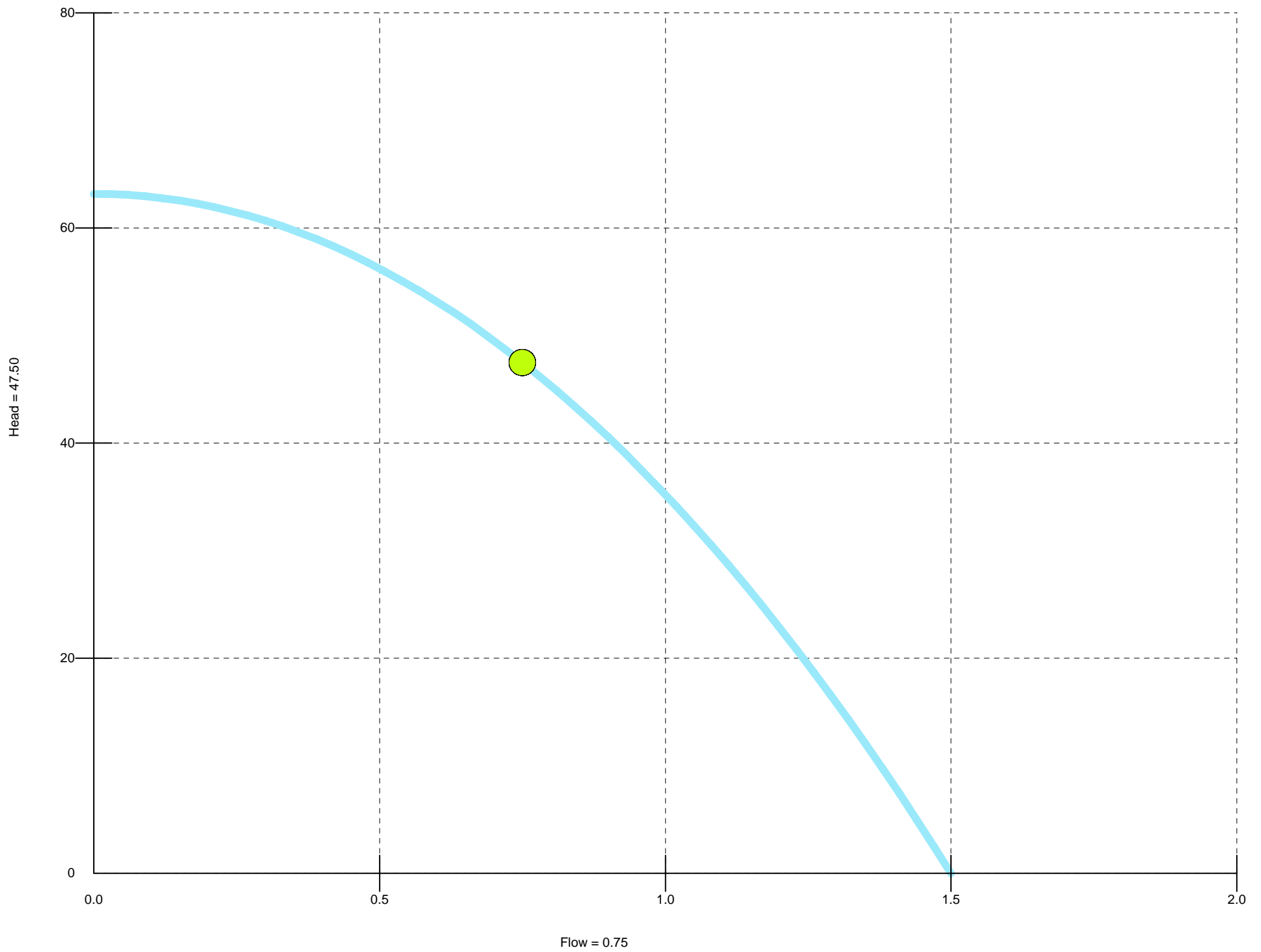
Kings Ranch FM - 2045



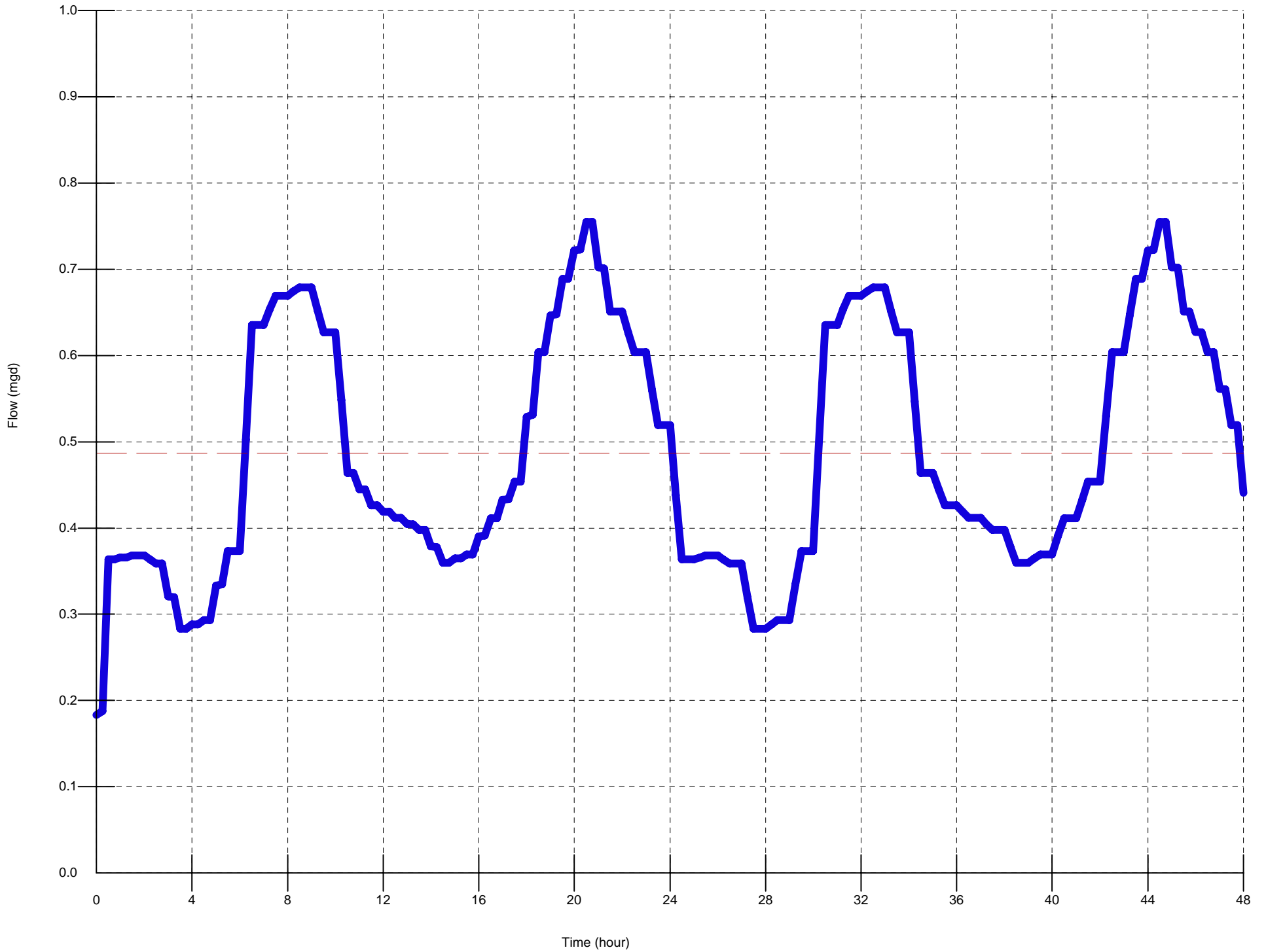
Indian School Lift Station Pump - 2045



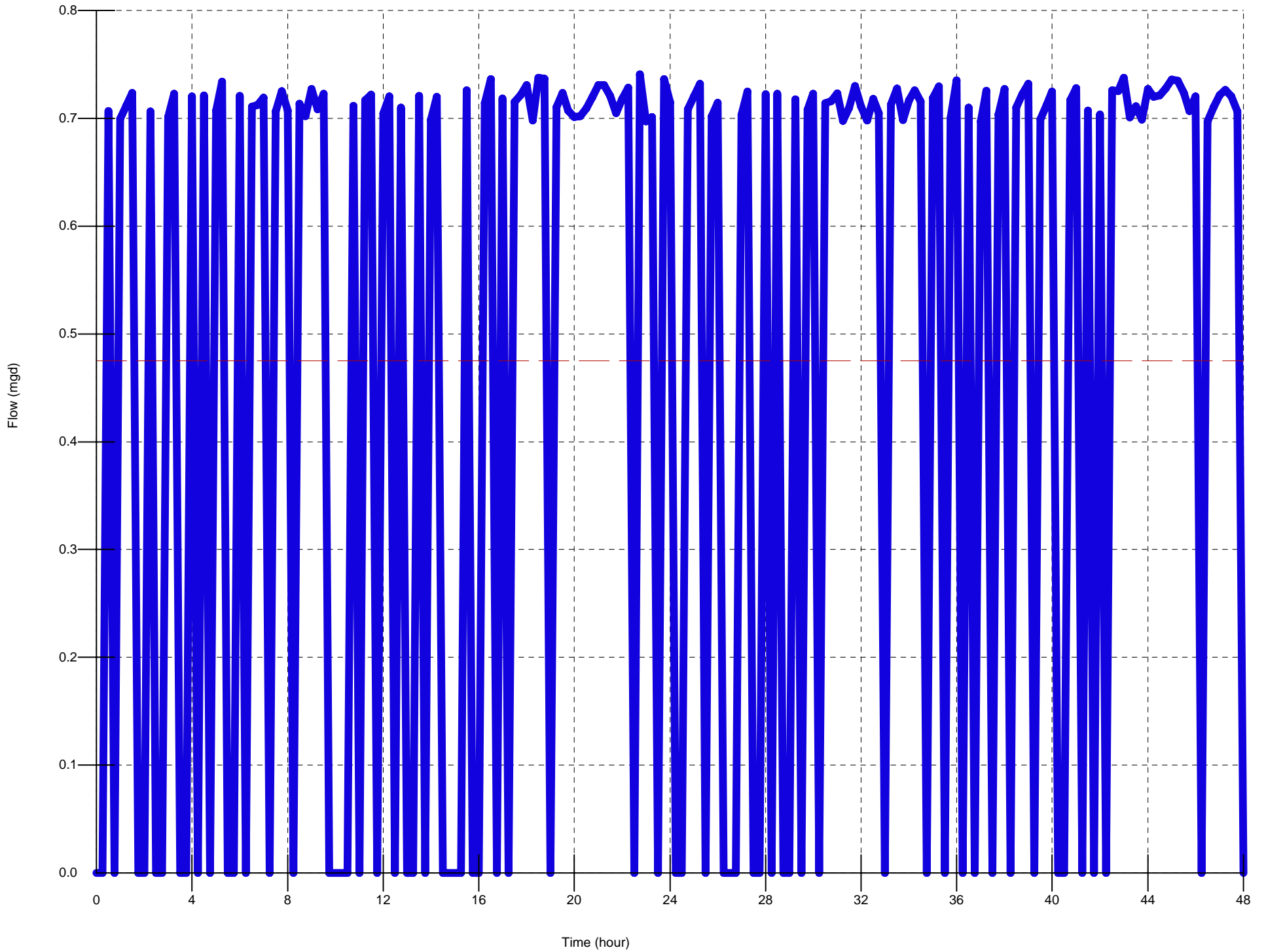
Indian School Lift Station Pump Curve - 2045



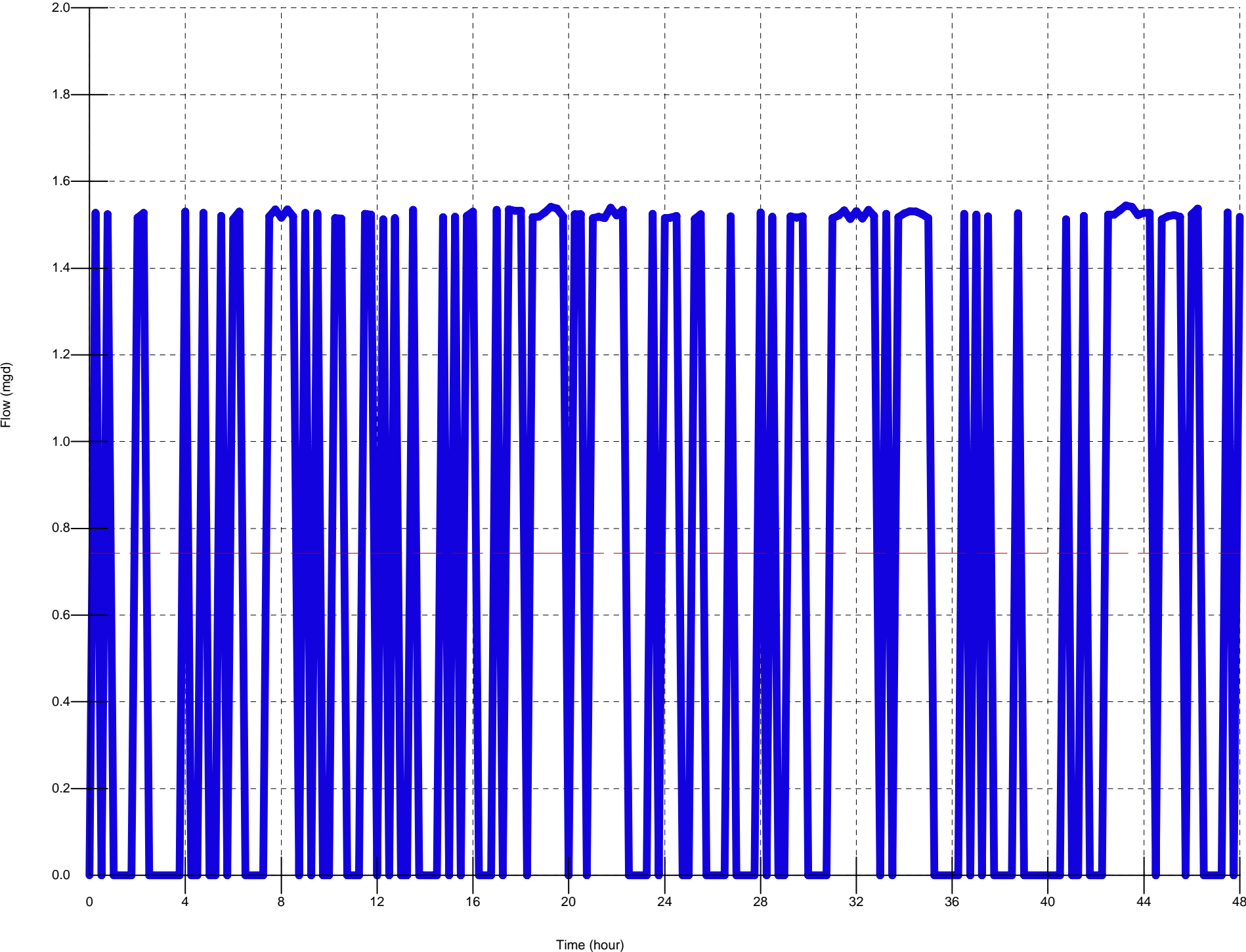
Indian School Lift Station Inflow - 2045



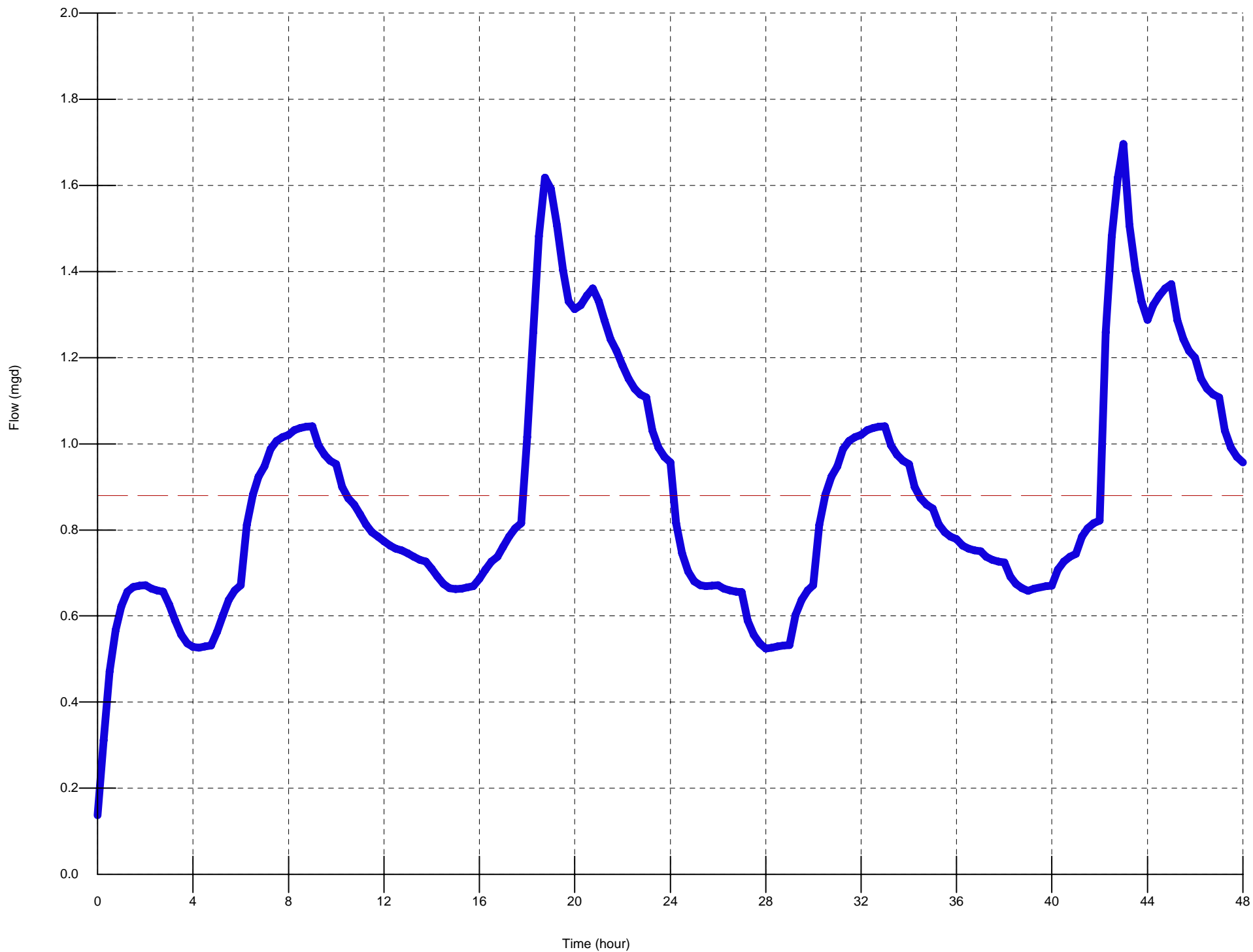
Indian School FM - 2045



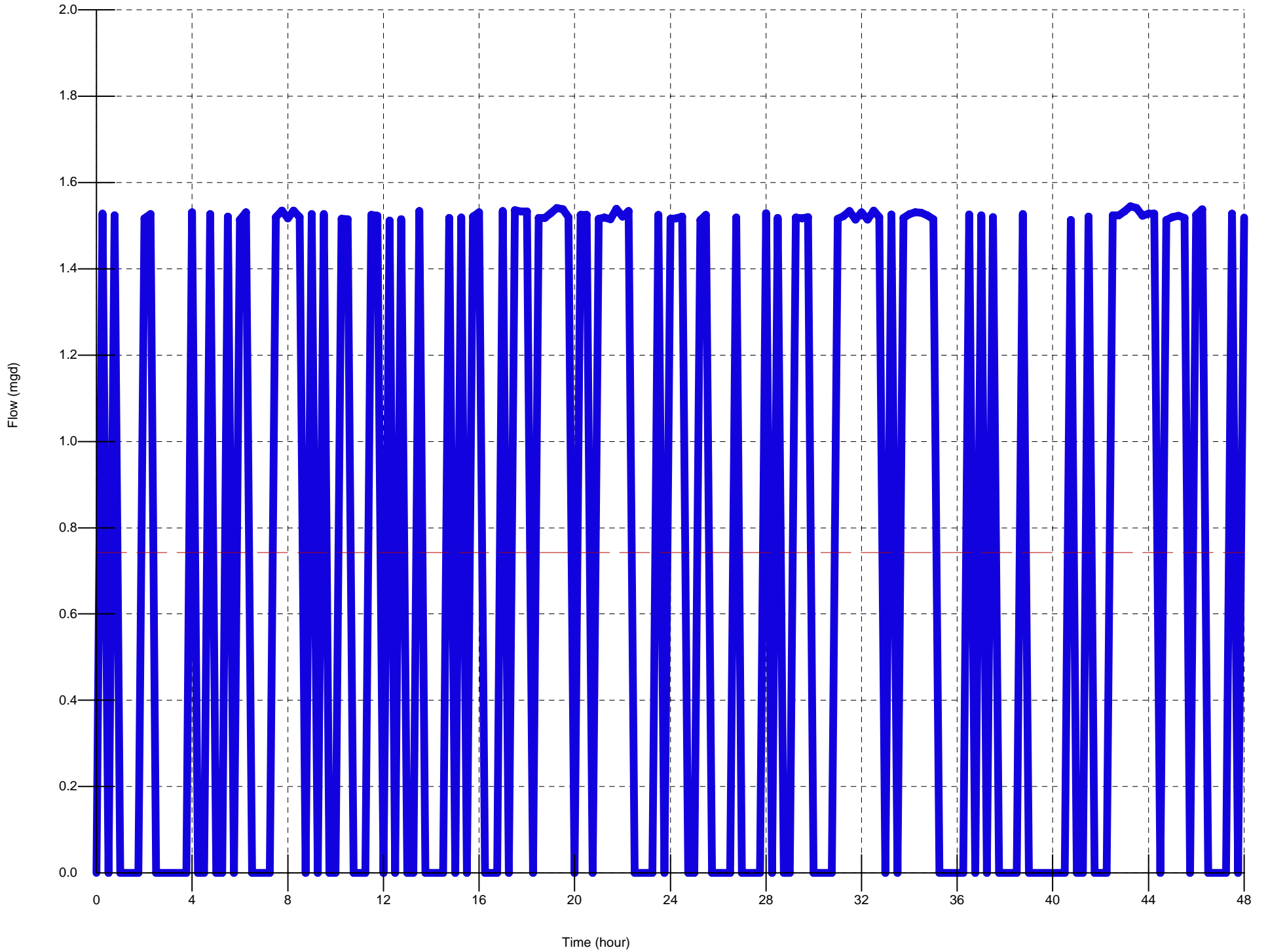
Gila River Lift Station Pump -2045



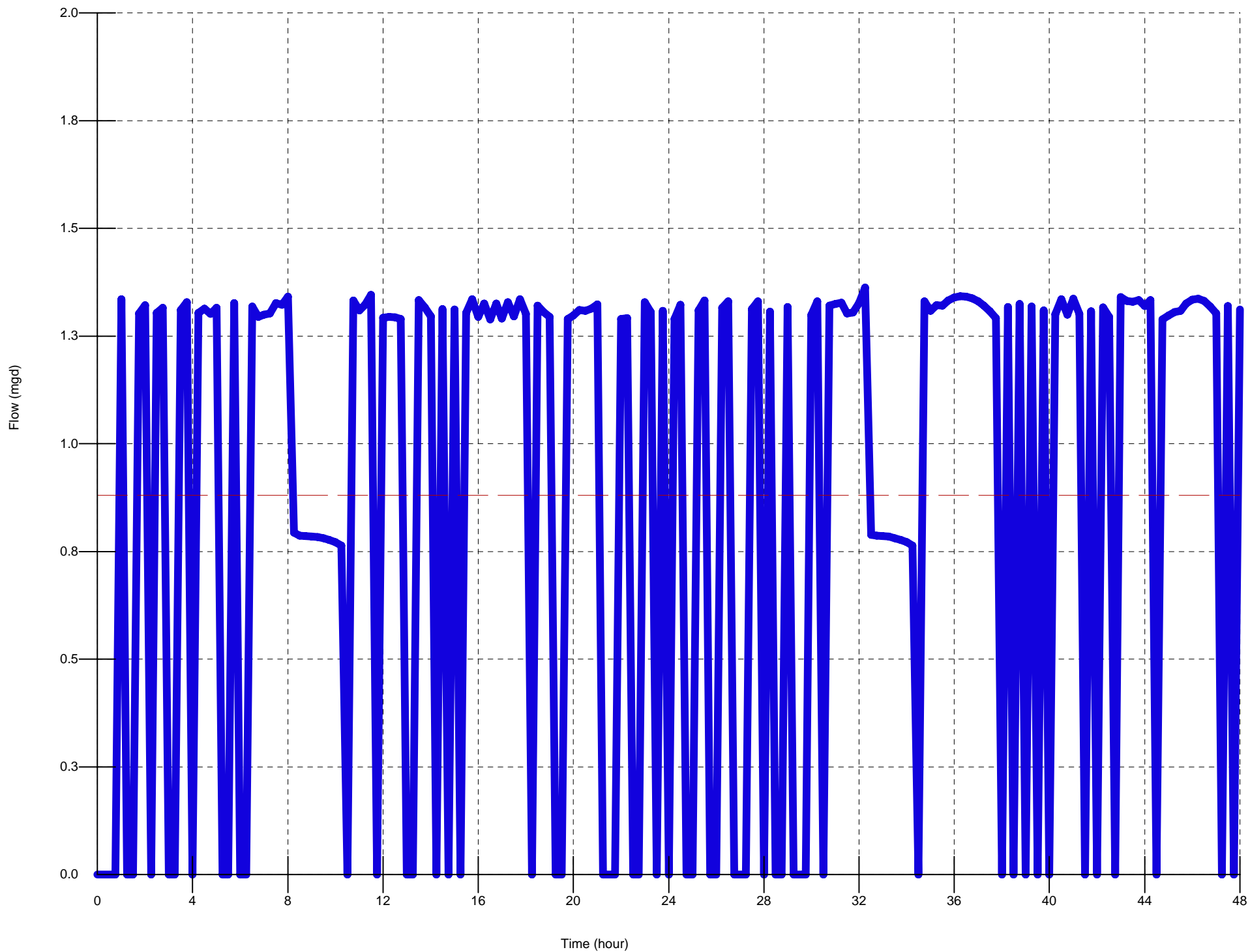
Gila River Lift Station Inflow - 2045



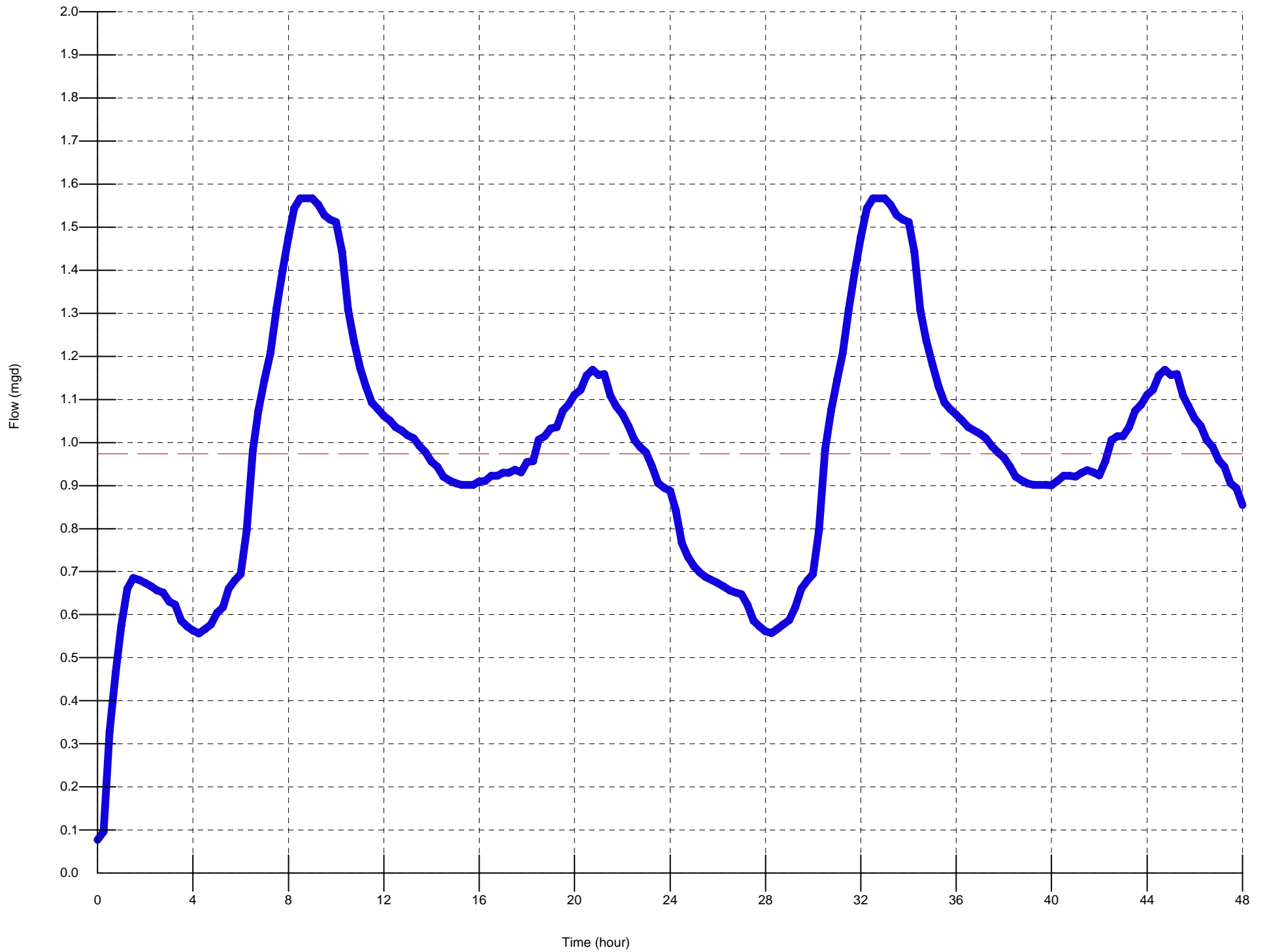
Gila River FM - 2045



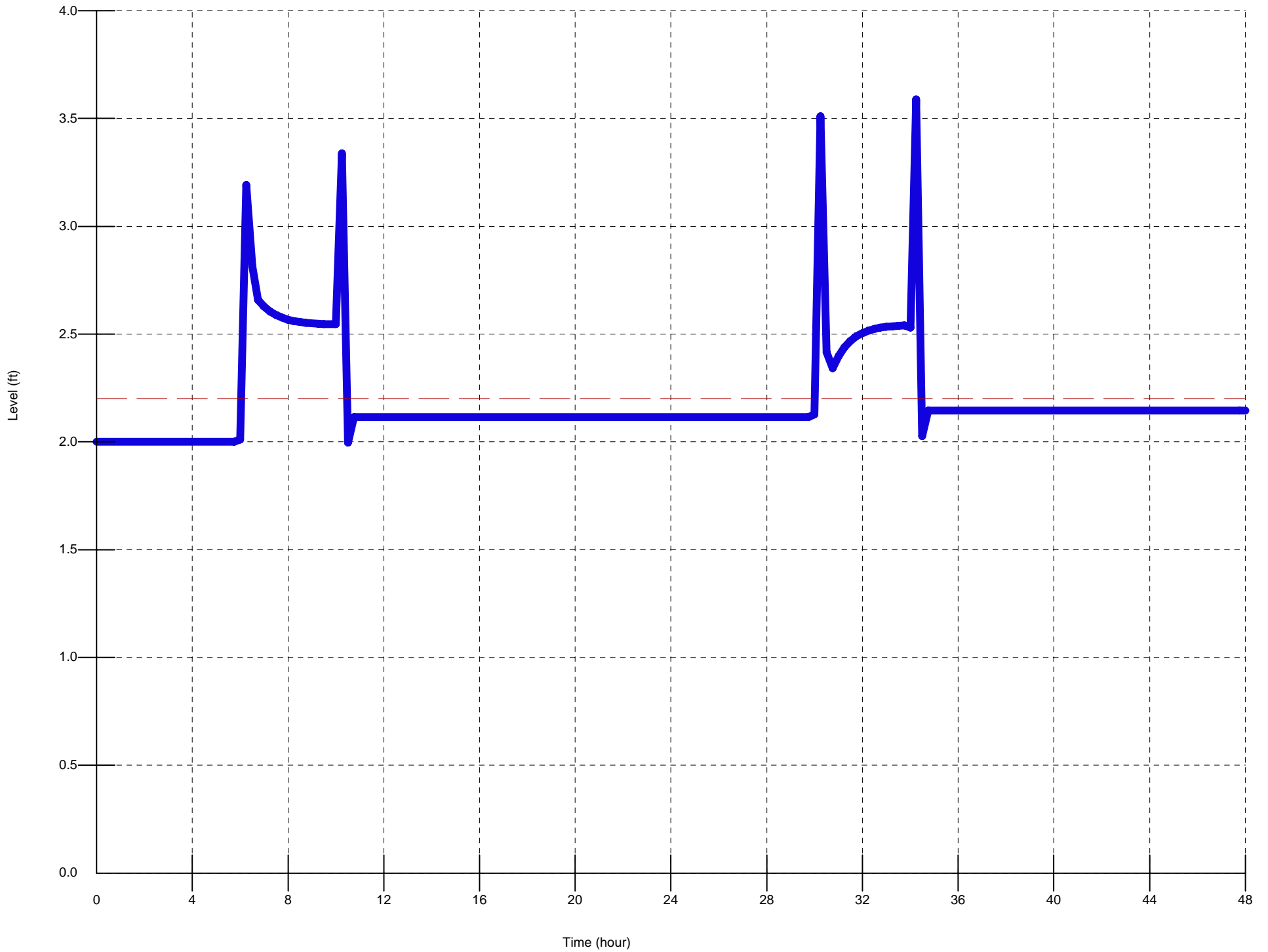
Extension Canal Lift Staion Pump - 2045



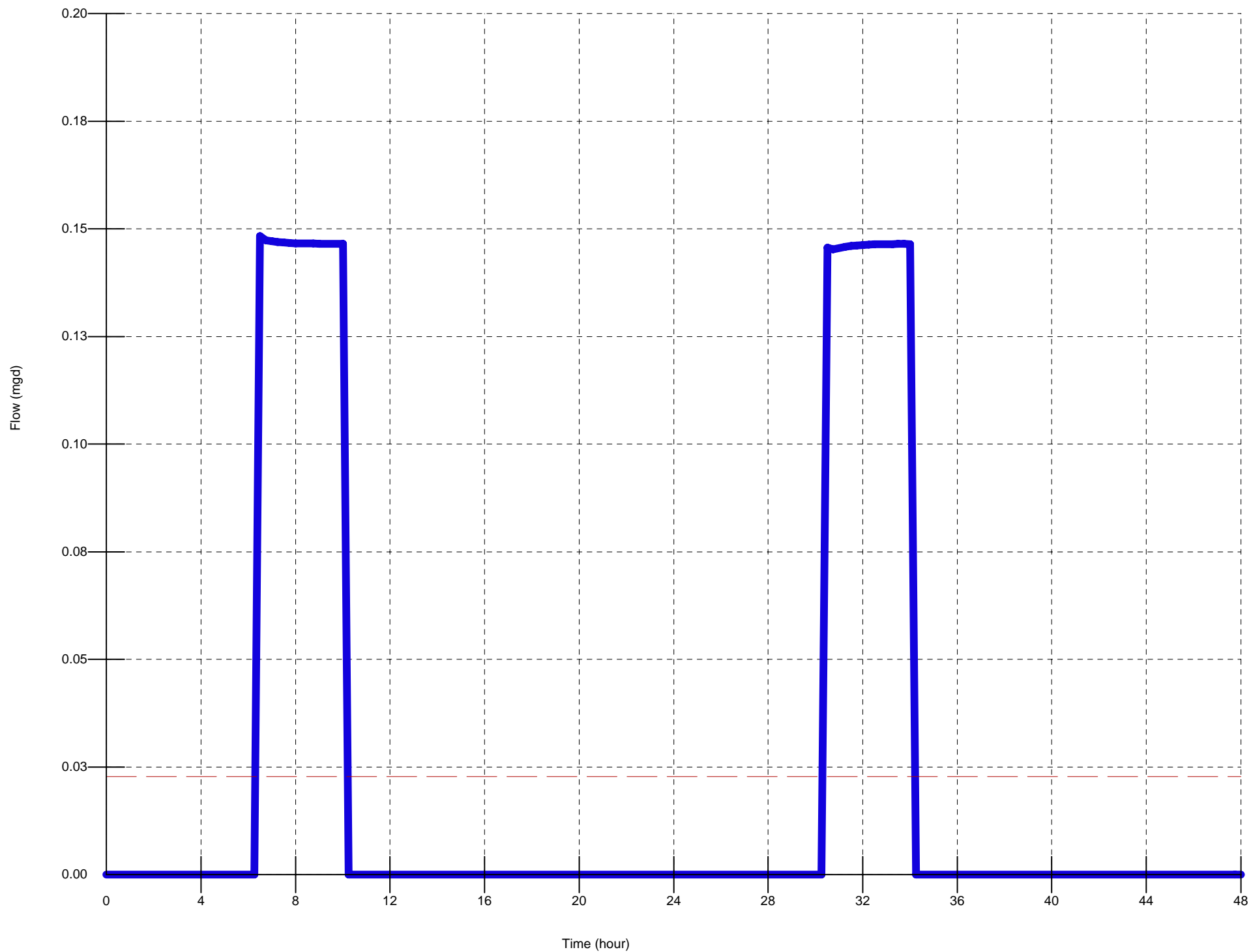
Extension Canal Lift Station Inflow - 2045



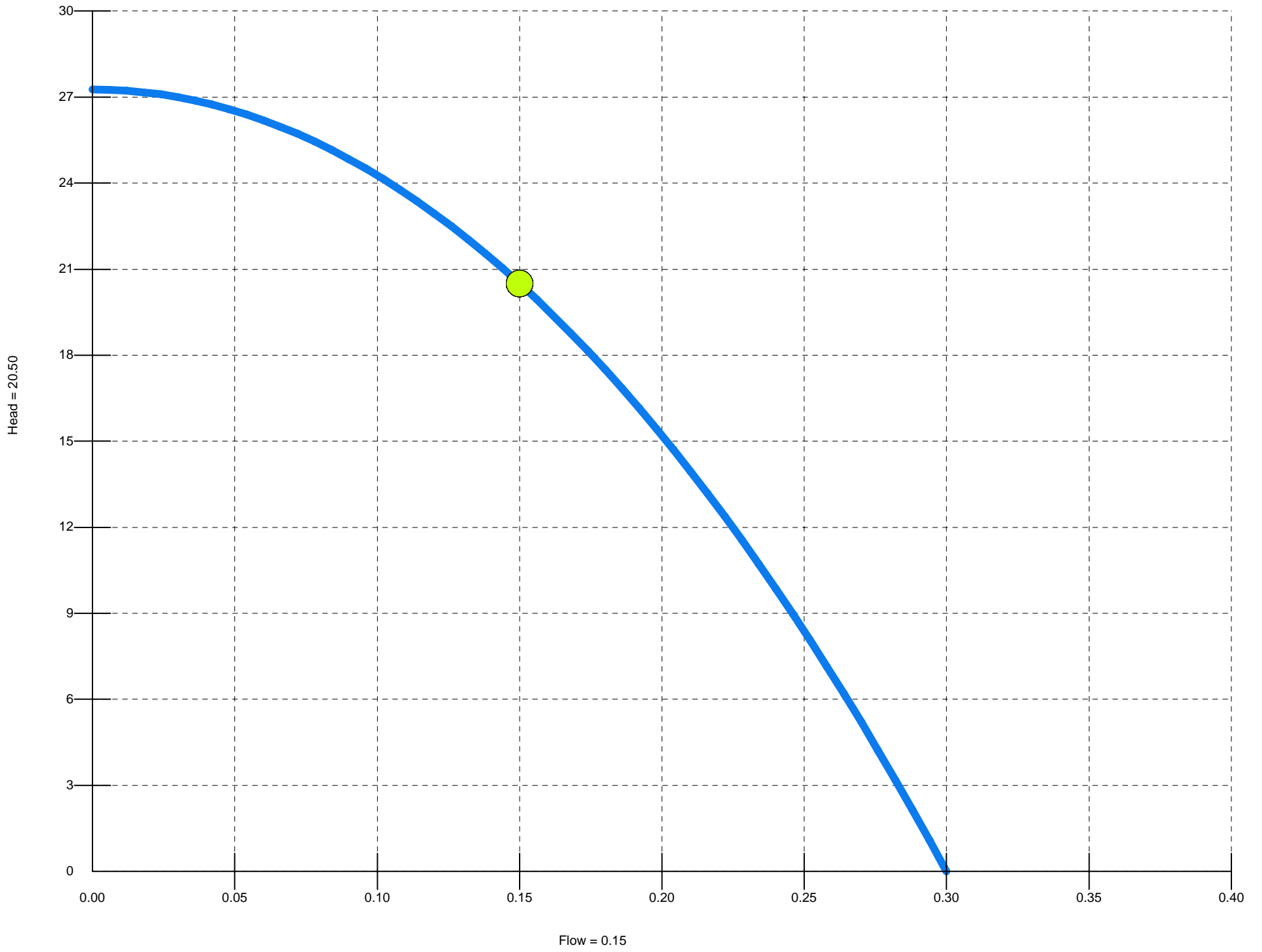
Estrella Mountain Park LS Wet Well



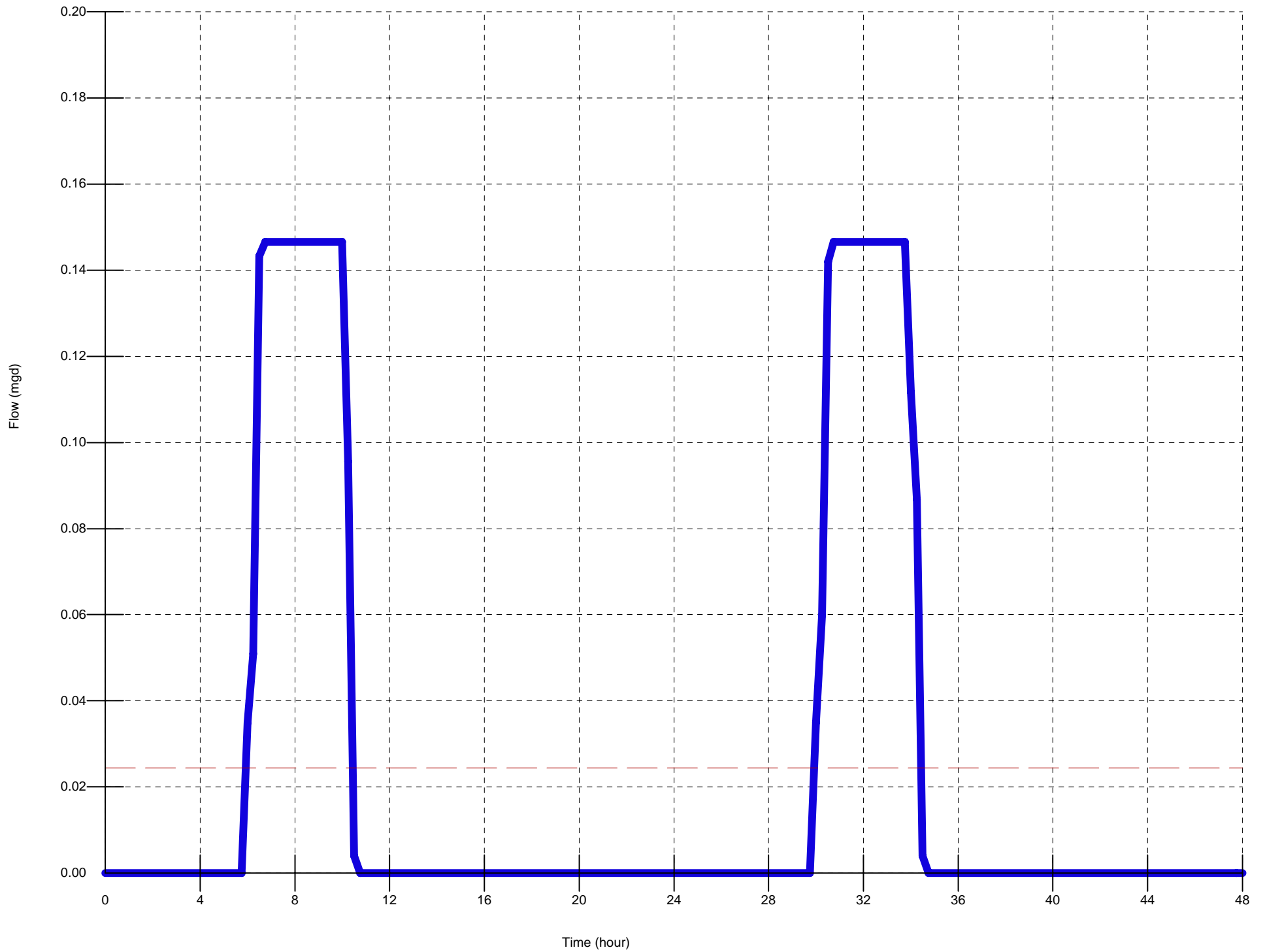
Estrella Mountain LS Pump - 2045



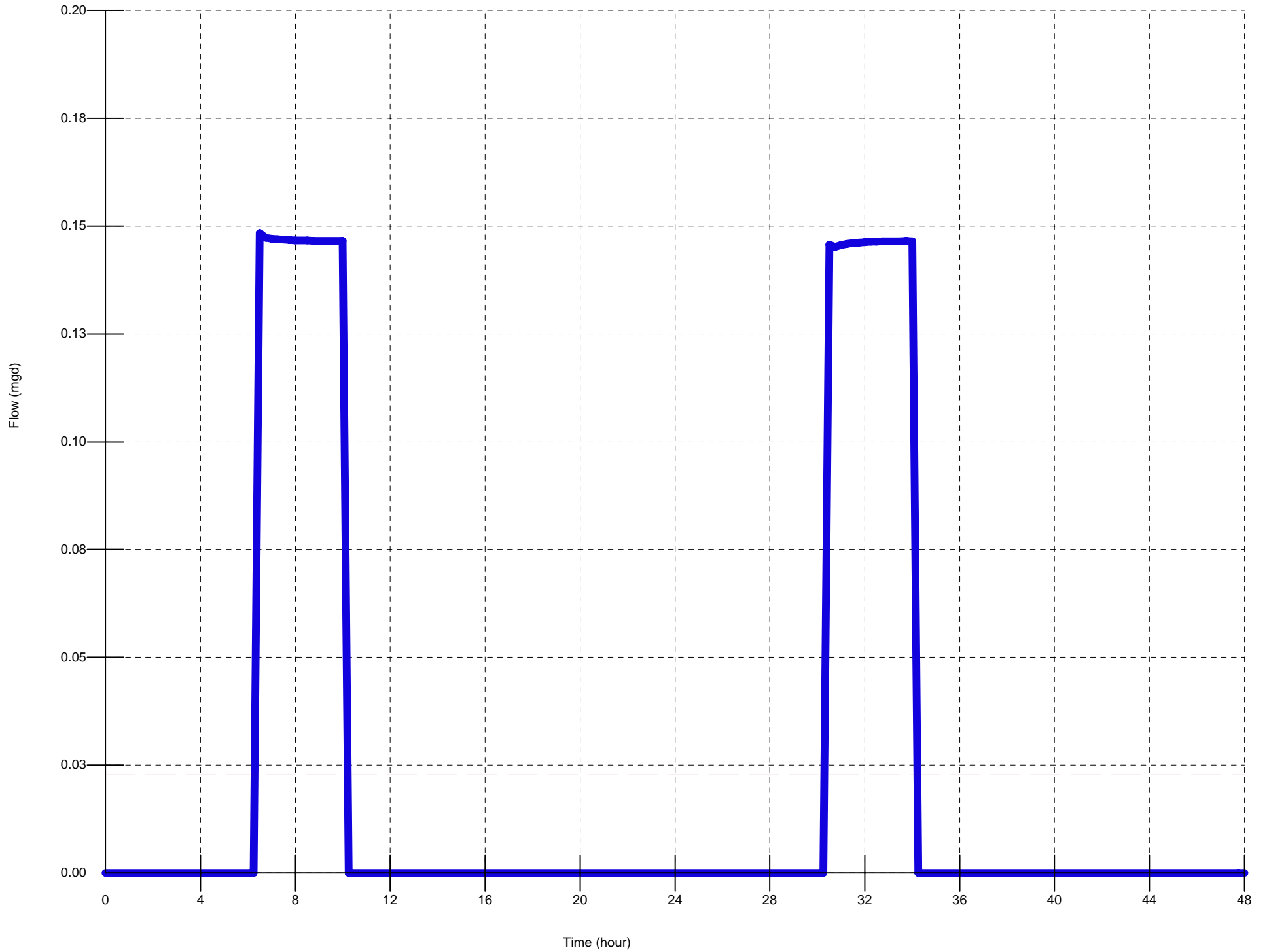
Estrella Mountain Park LS Pump - 2045



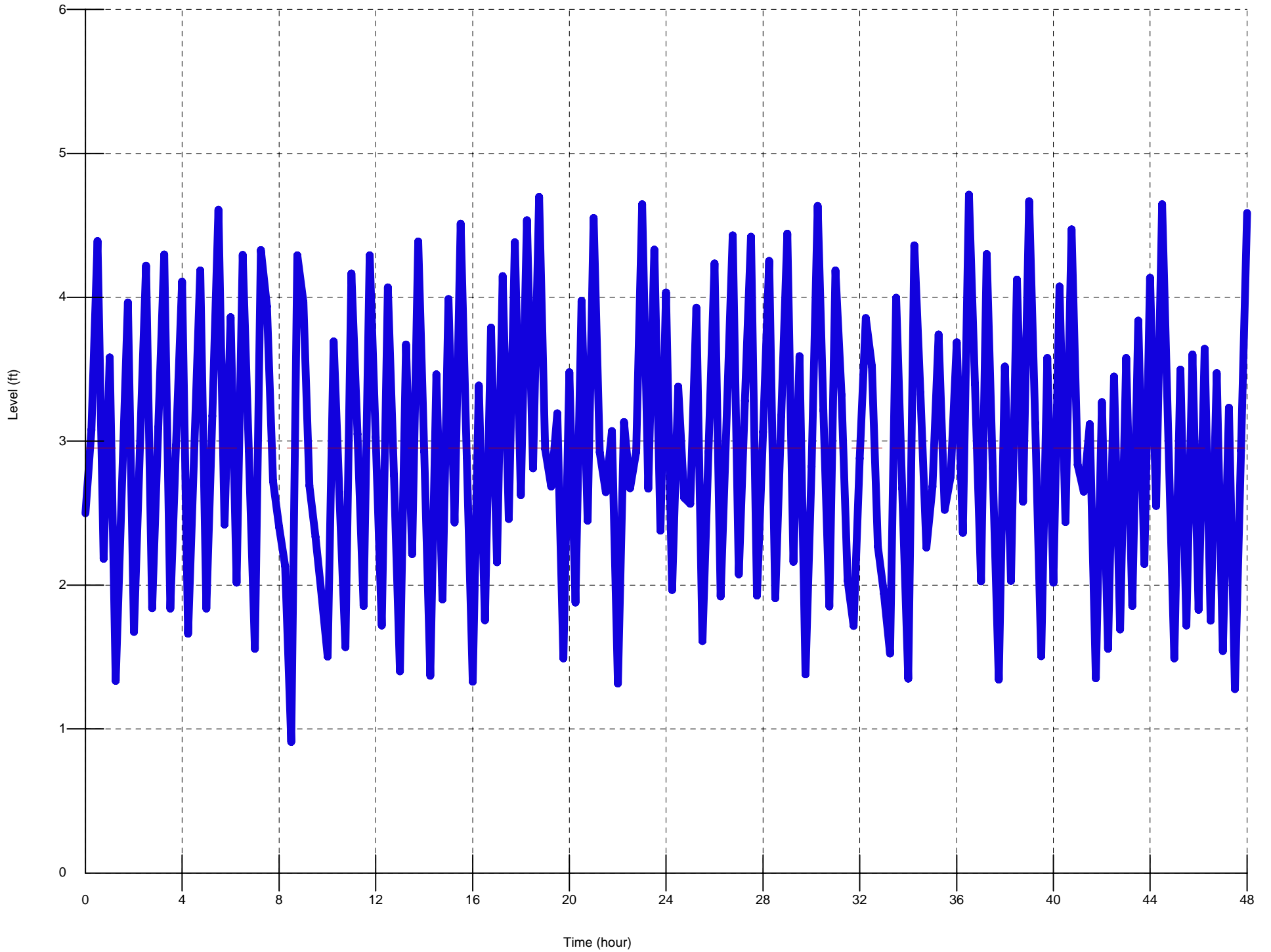
Estrella Mountain Park LS Inflow - 2045



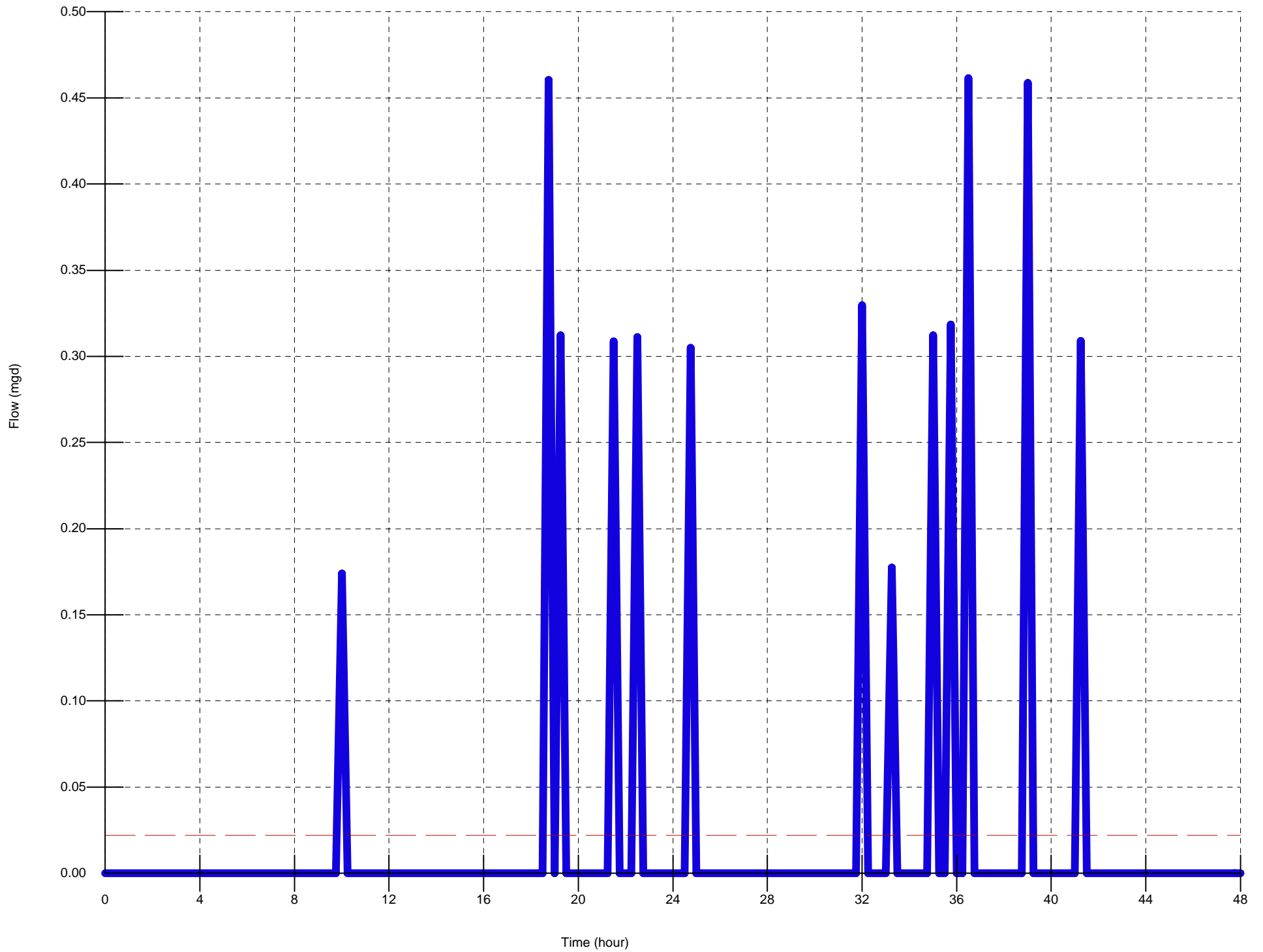
Estrella Mountain Park Force Main - 2045



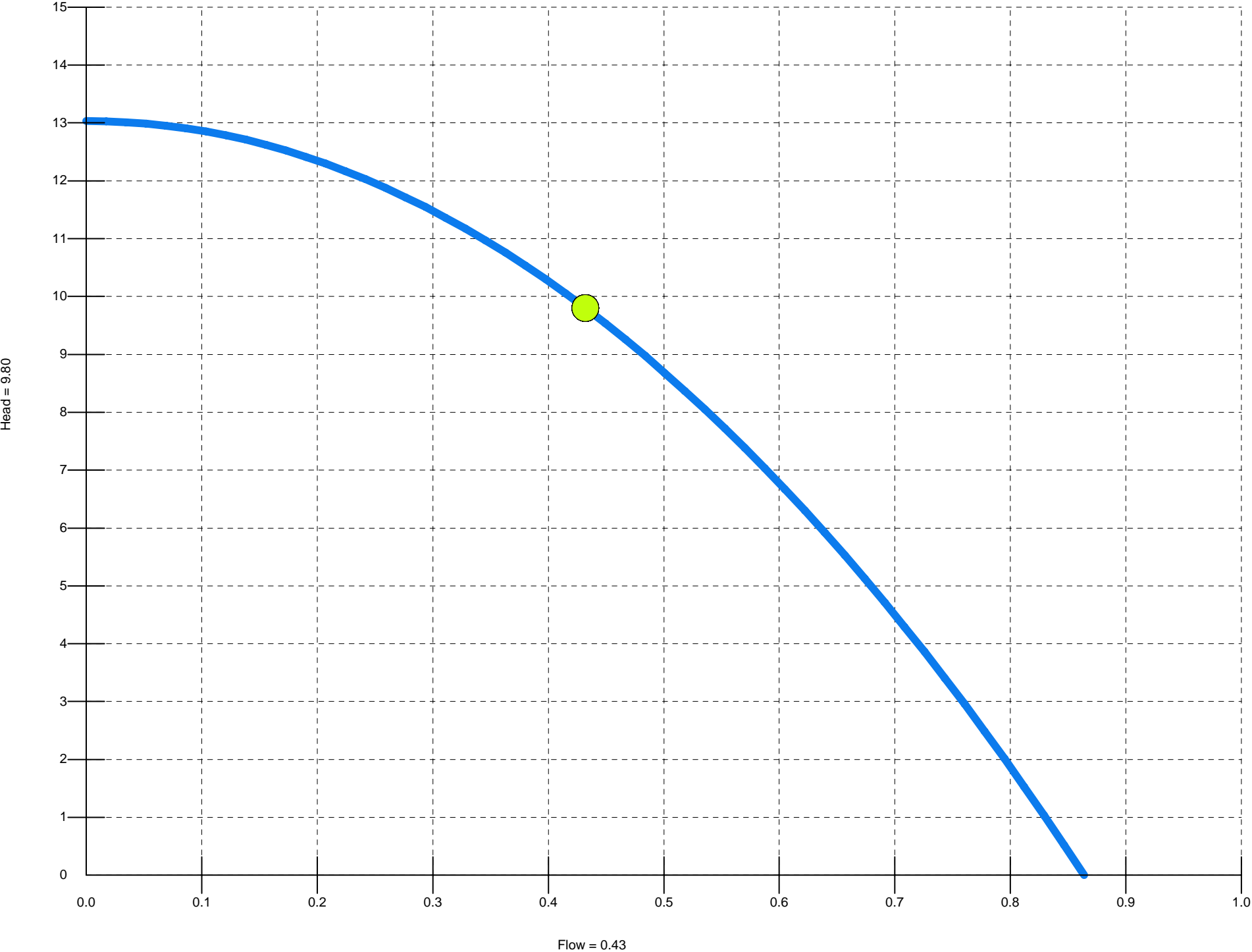
Del Camino LS Wet Well



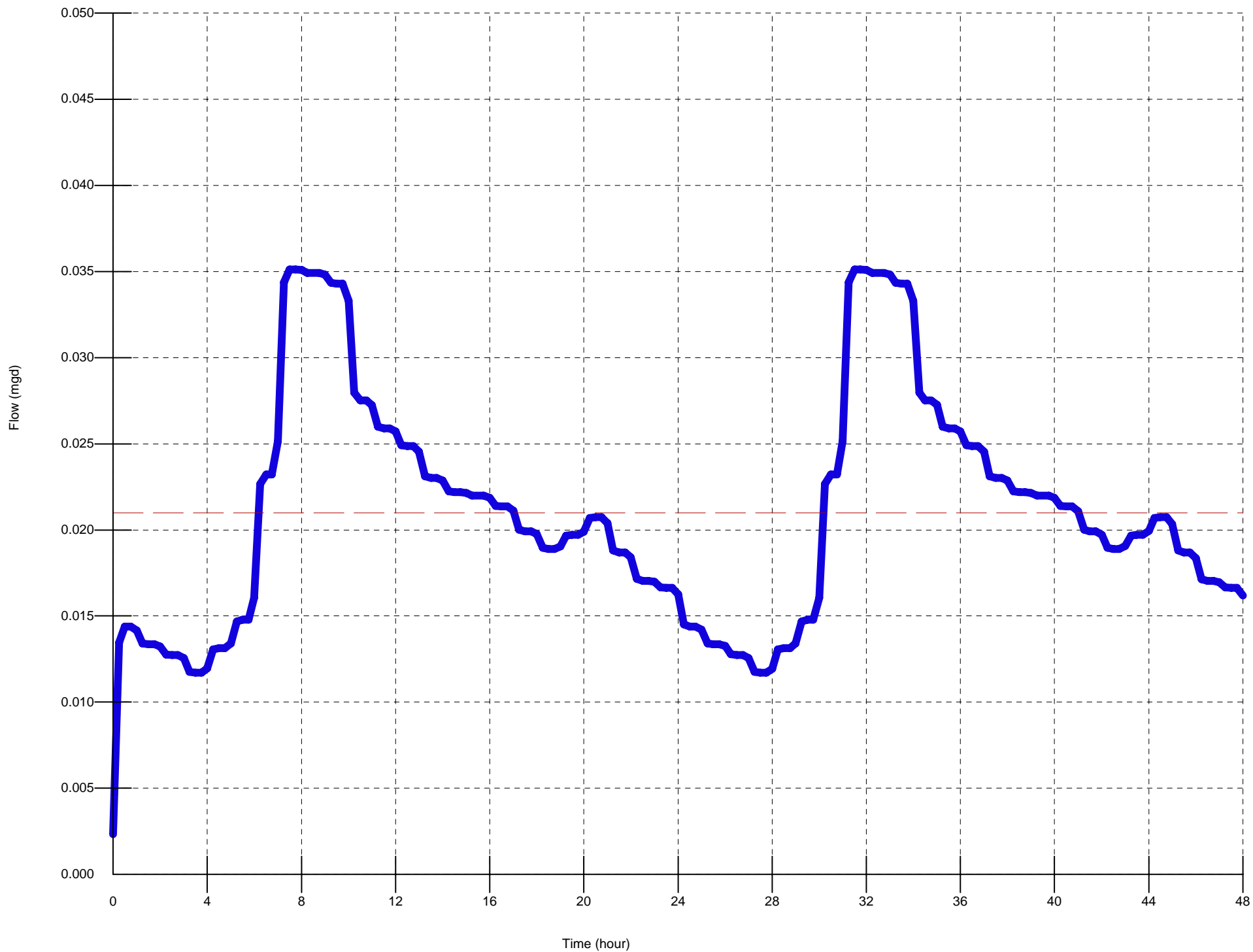
Del Camino LS Pump - 2045



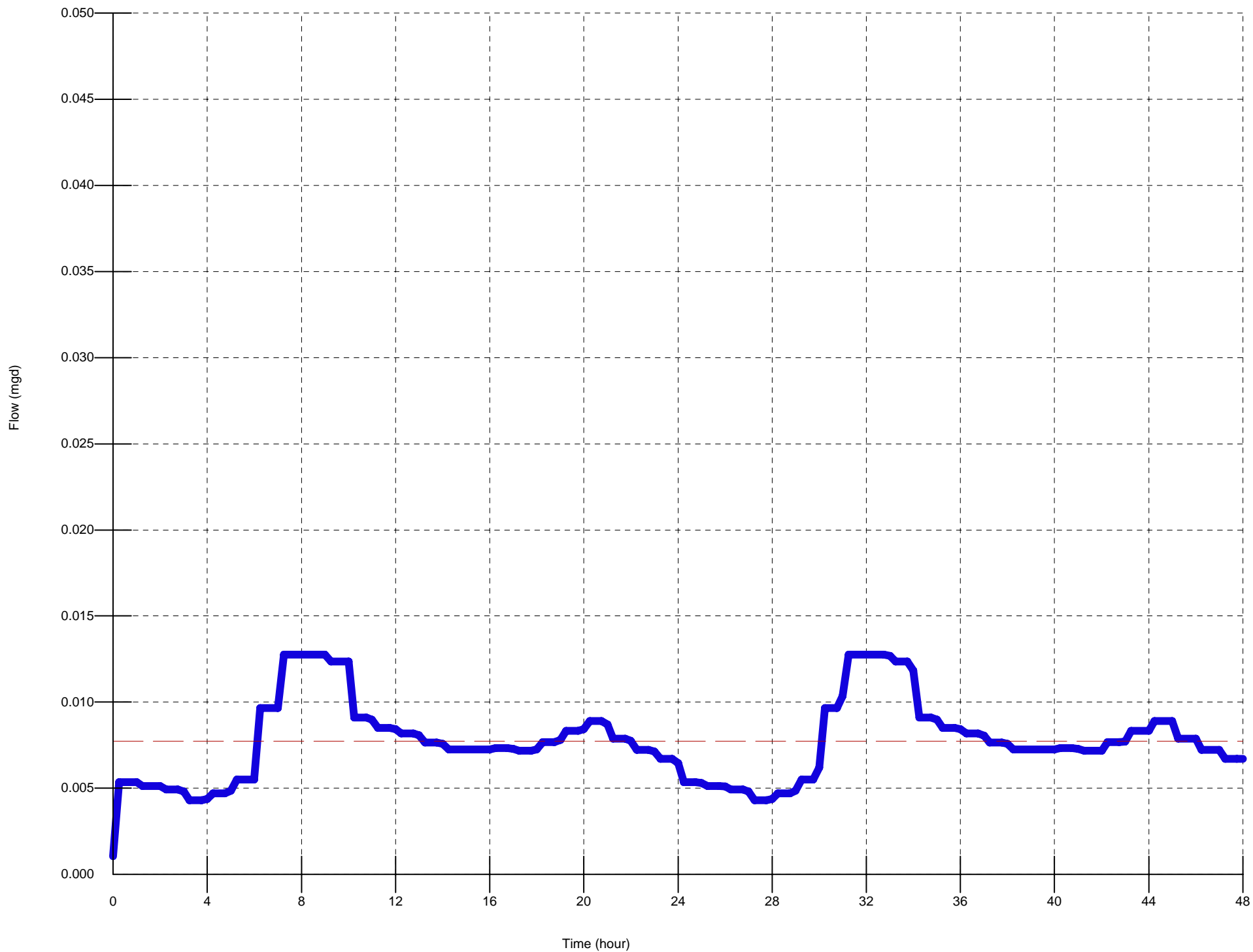
Del Camino LS Pump - 2045



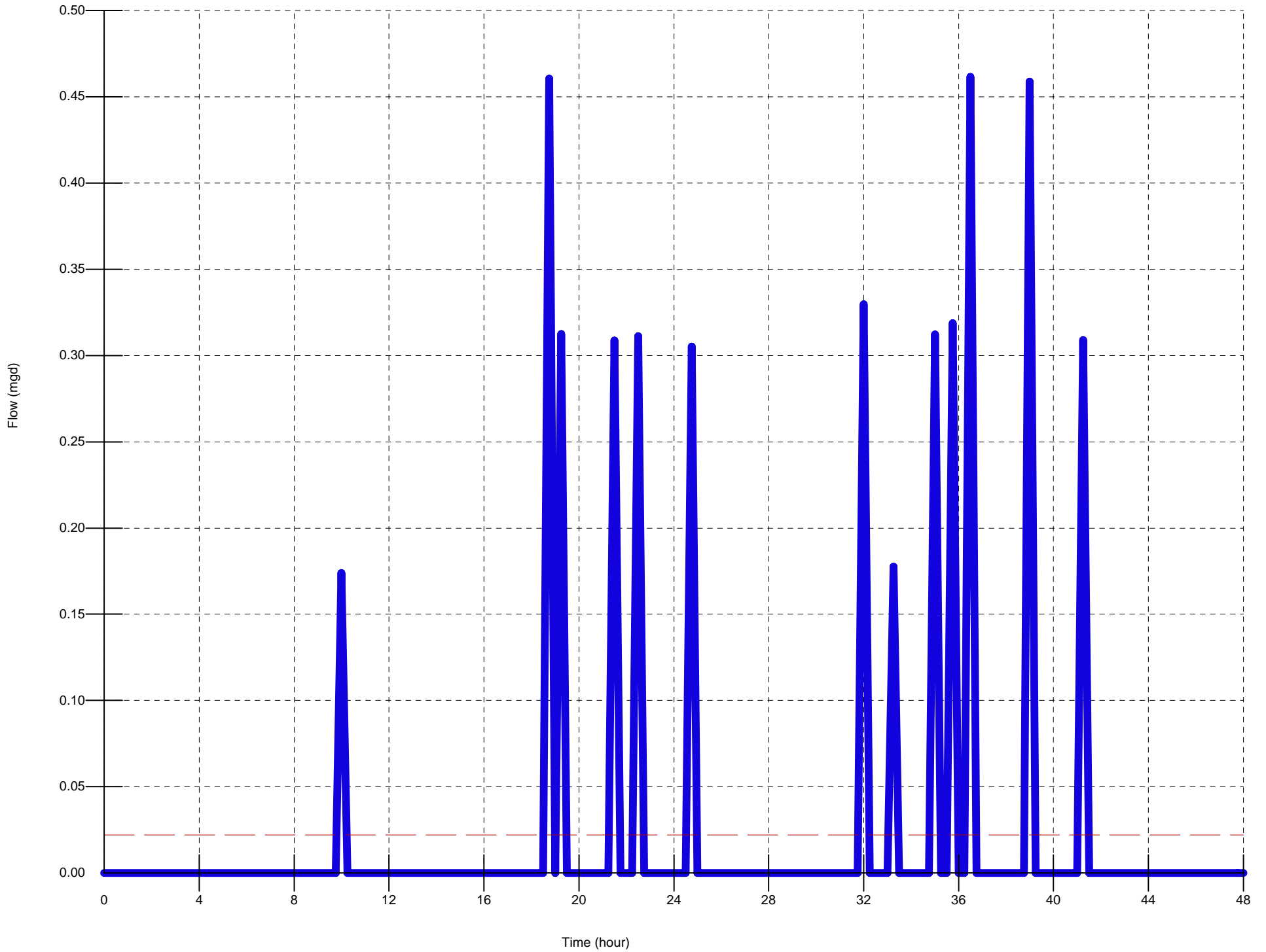
Del Camino LS Inflow 2 - 2045



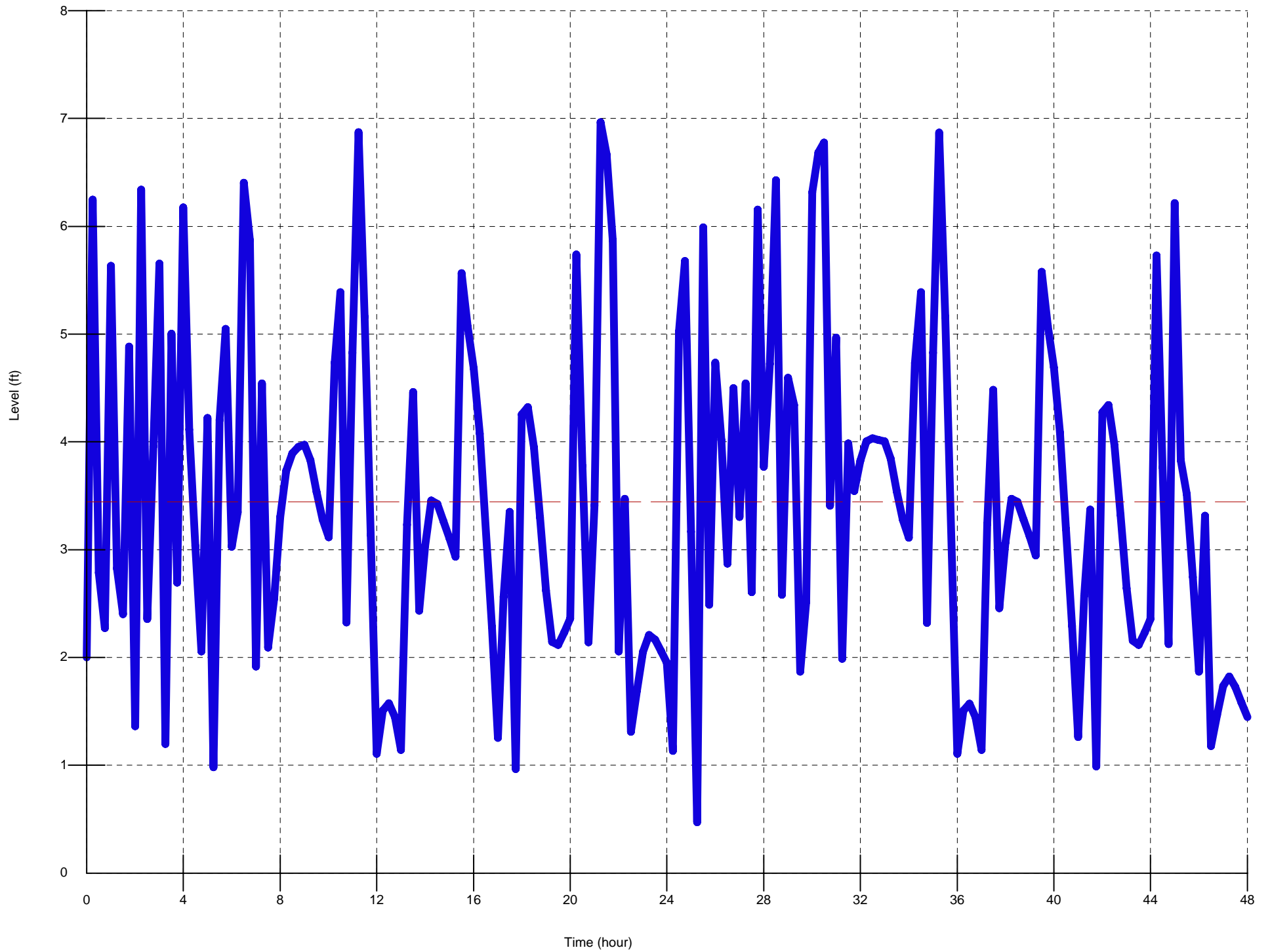
Del Camino LS Inflow 1 - 2045



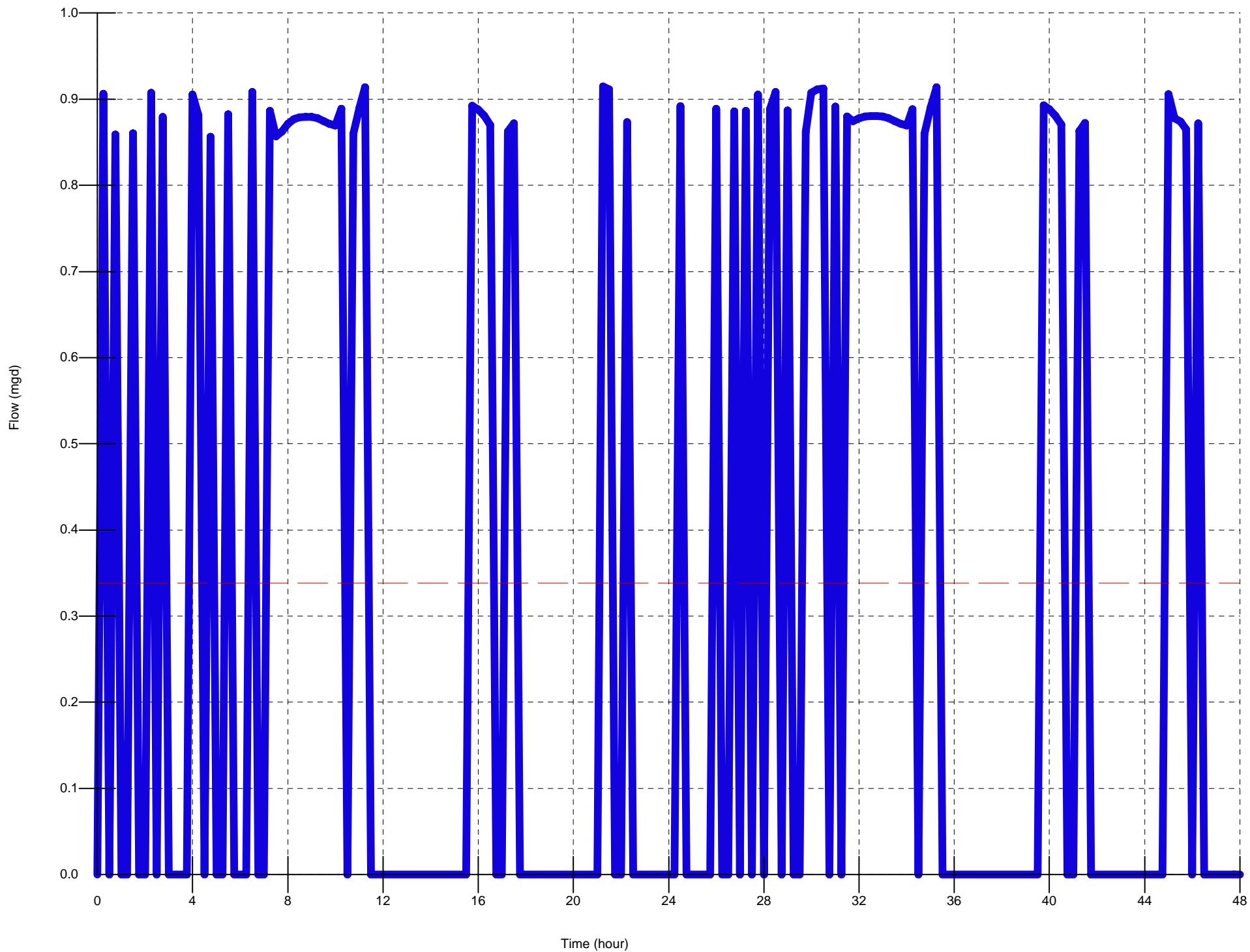
Del Camino Force Main - 2045



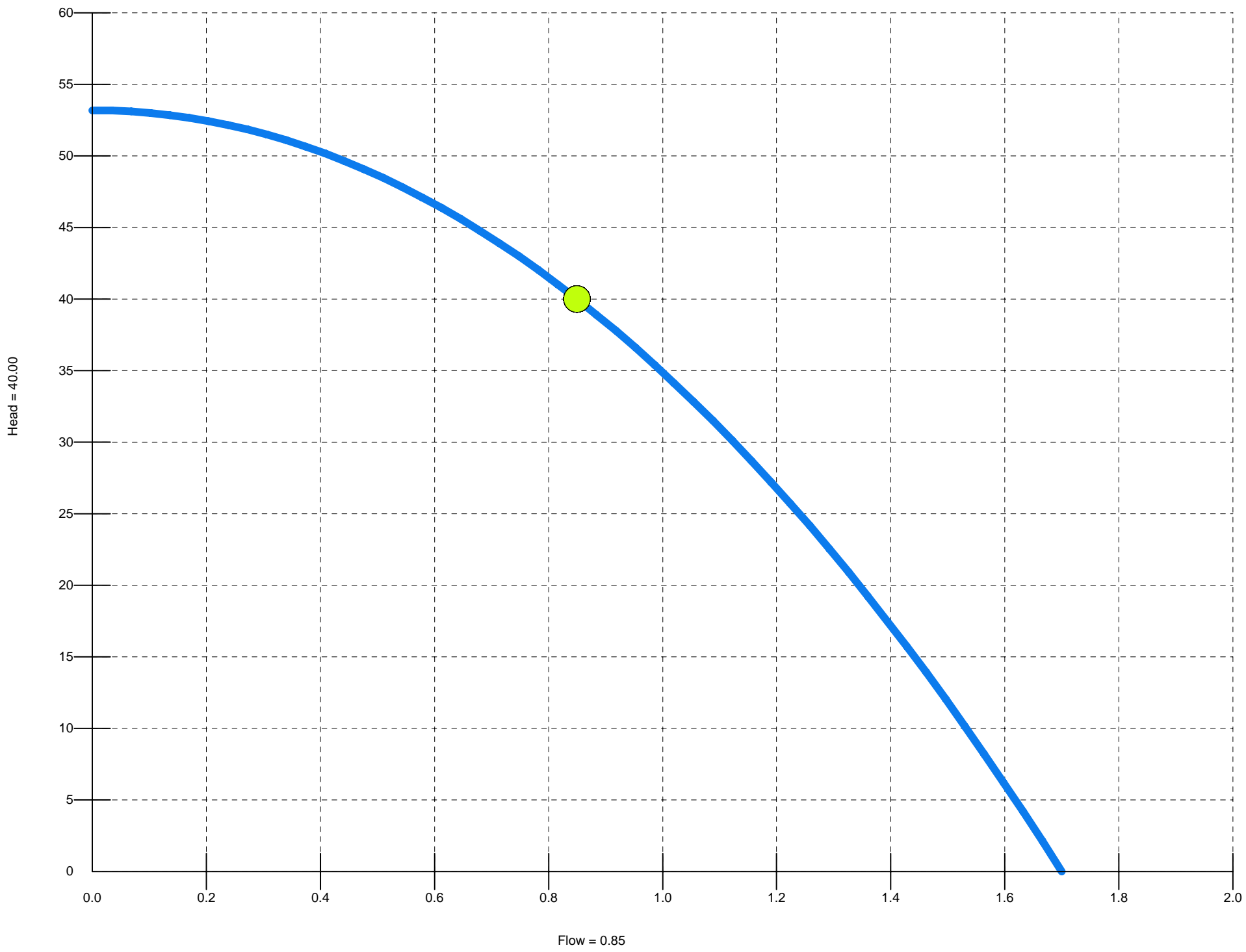
Buckeye Canal LS Wet Well



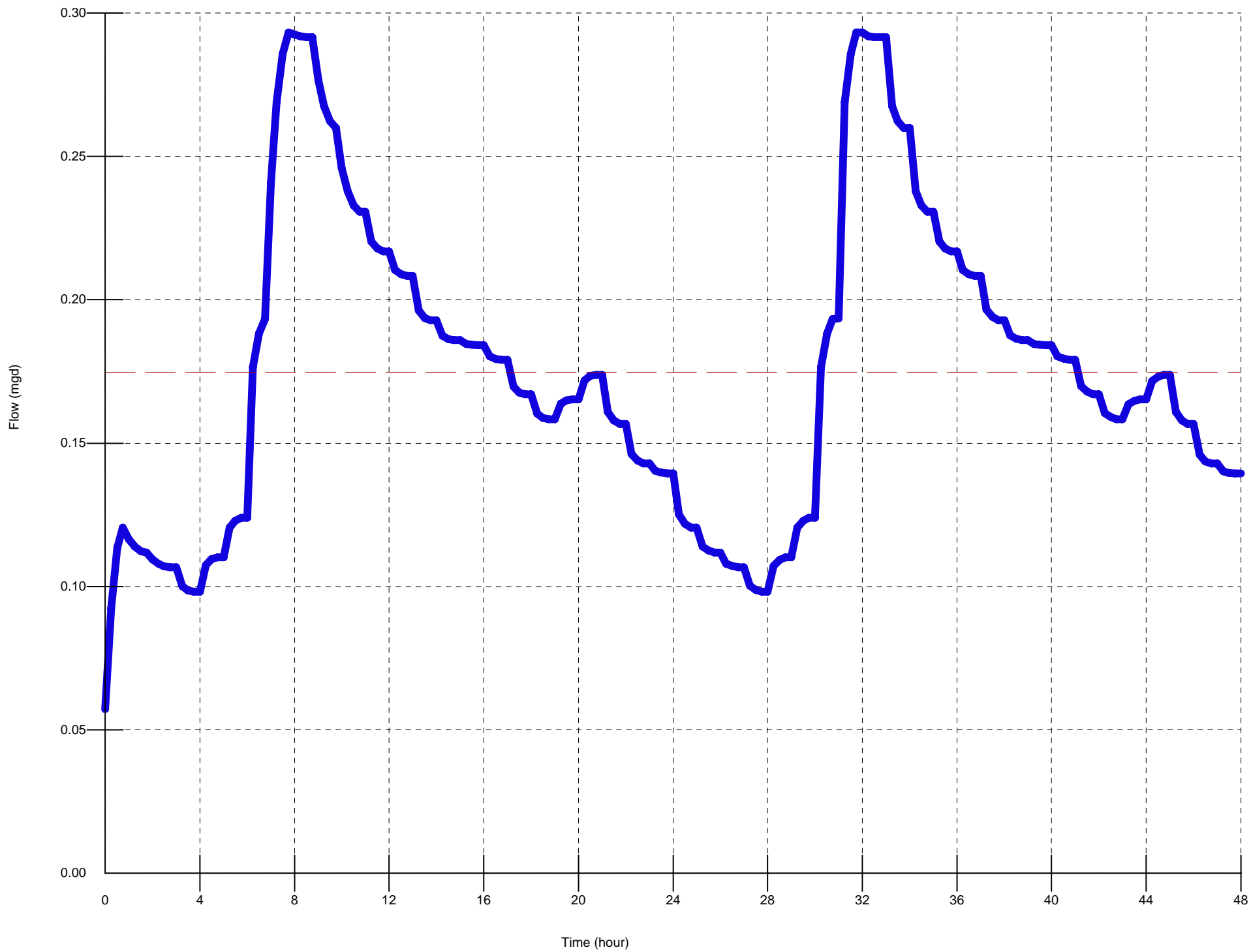
Buckeye Canal LS Pump - 2045



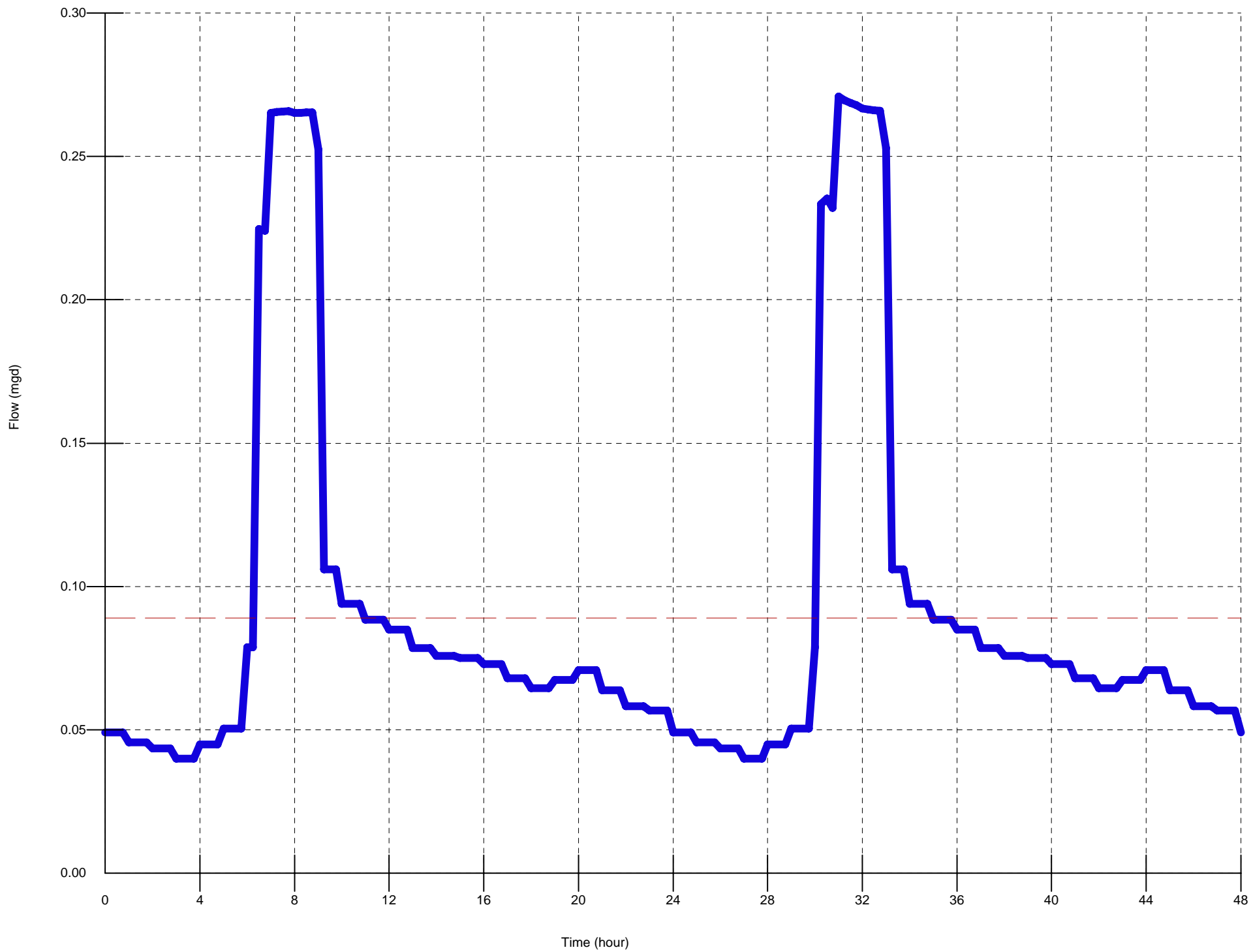
Buckeye Canal LS Pump - 2045



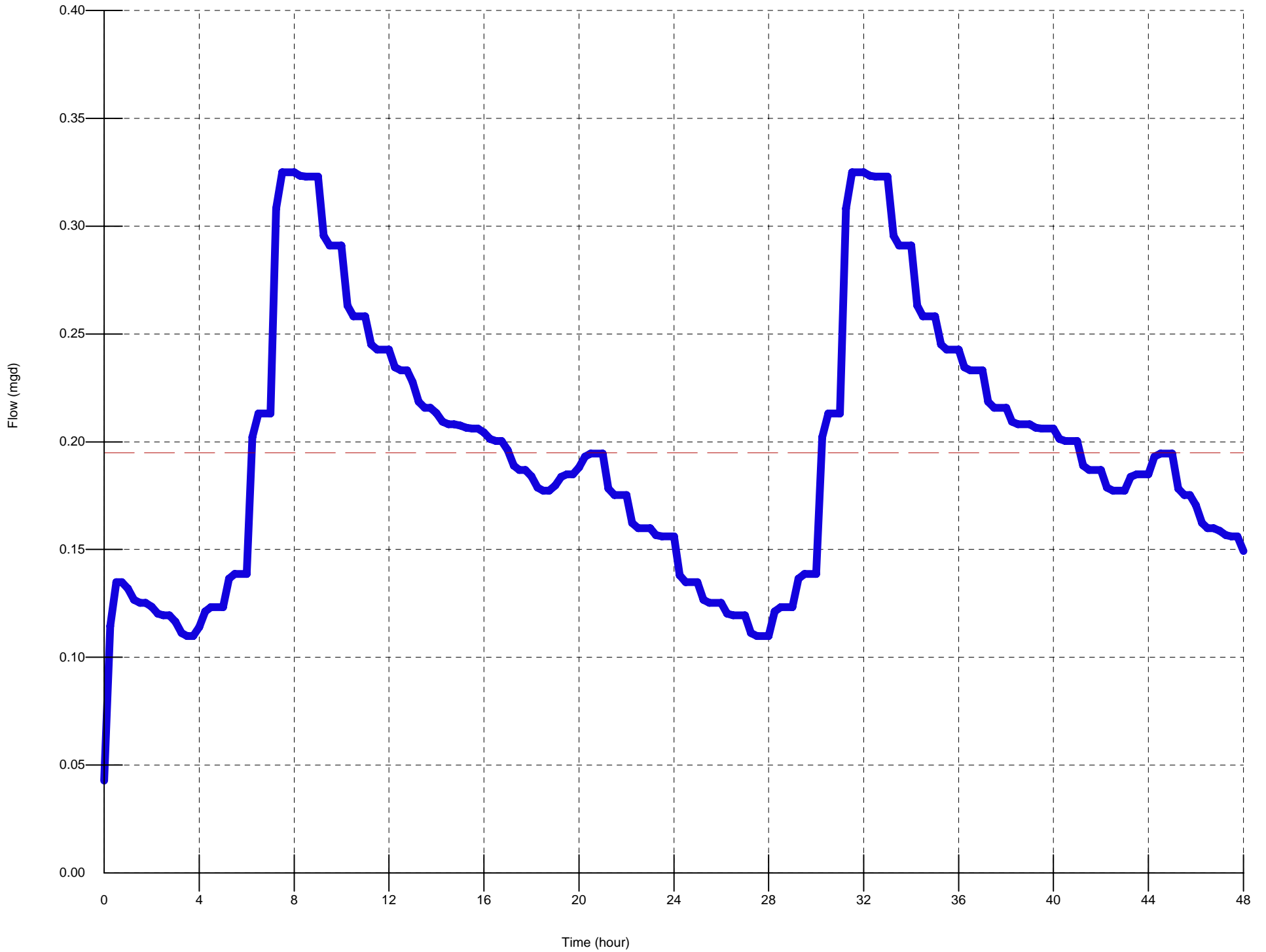
Buckeye Canal LS Inflow 3 - 2045



Buckeye Canal LS Inflow 2 - 2045



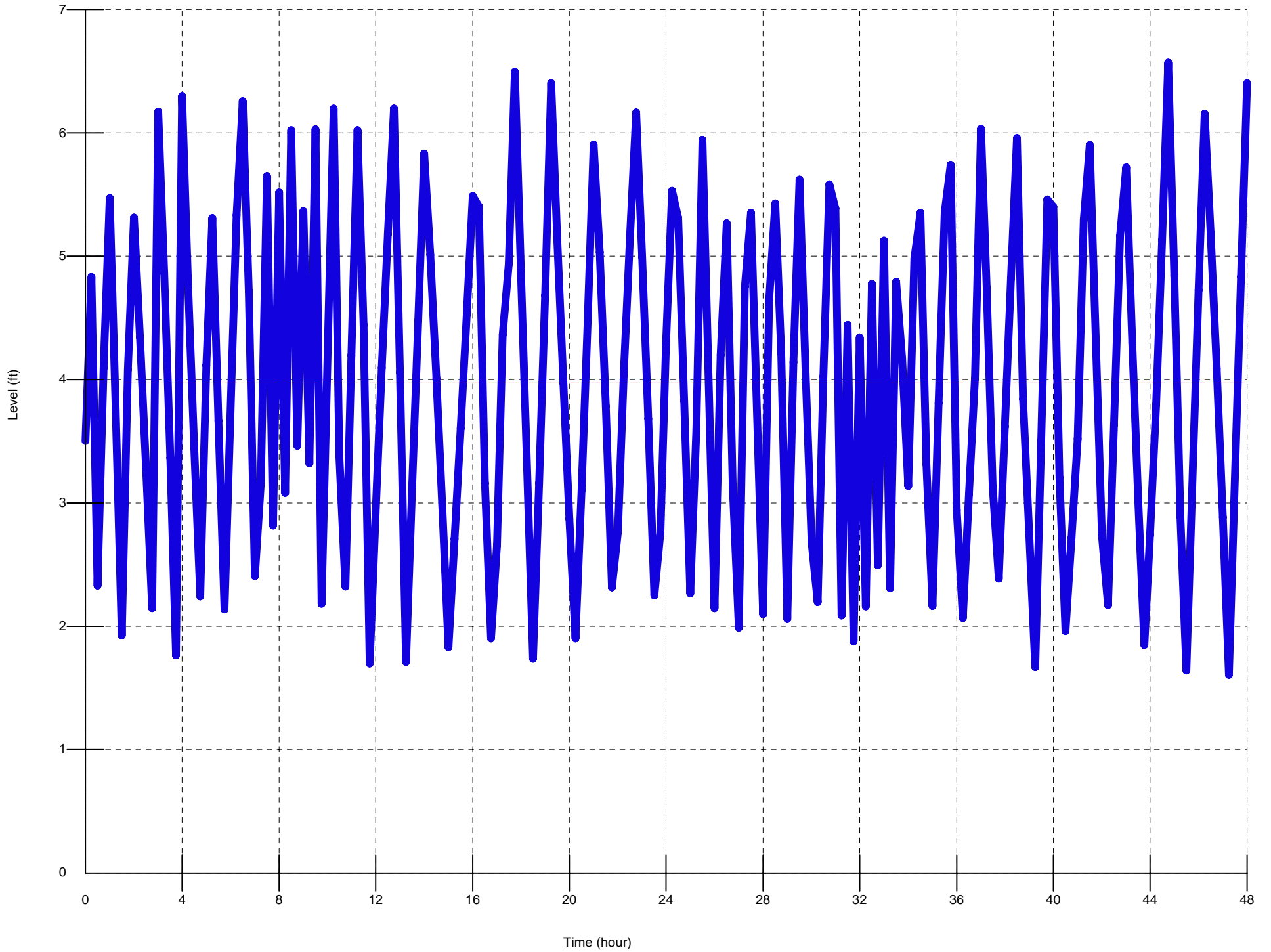
Buckeye Canal LS Inflow 1 - 2045



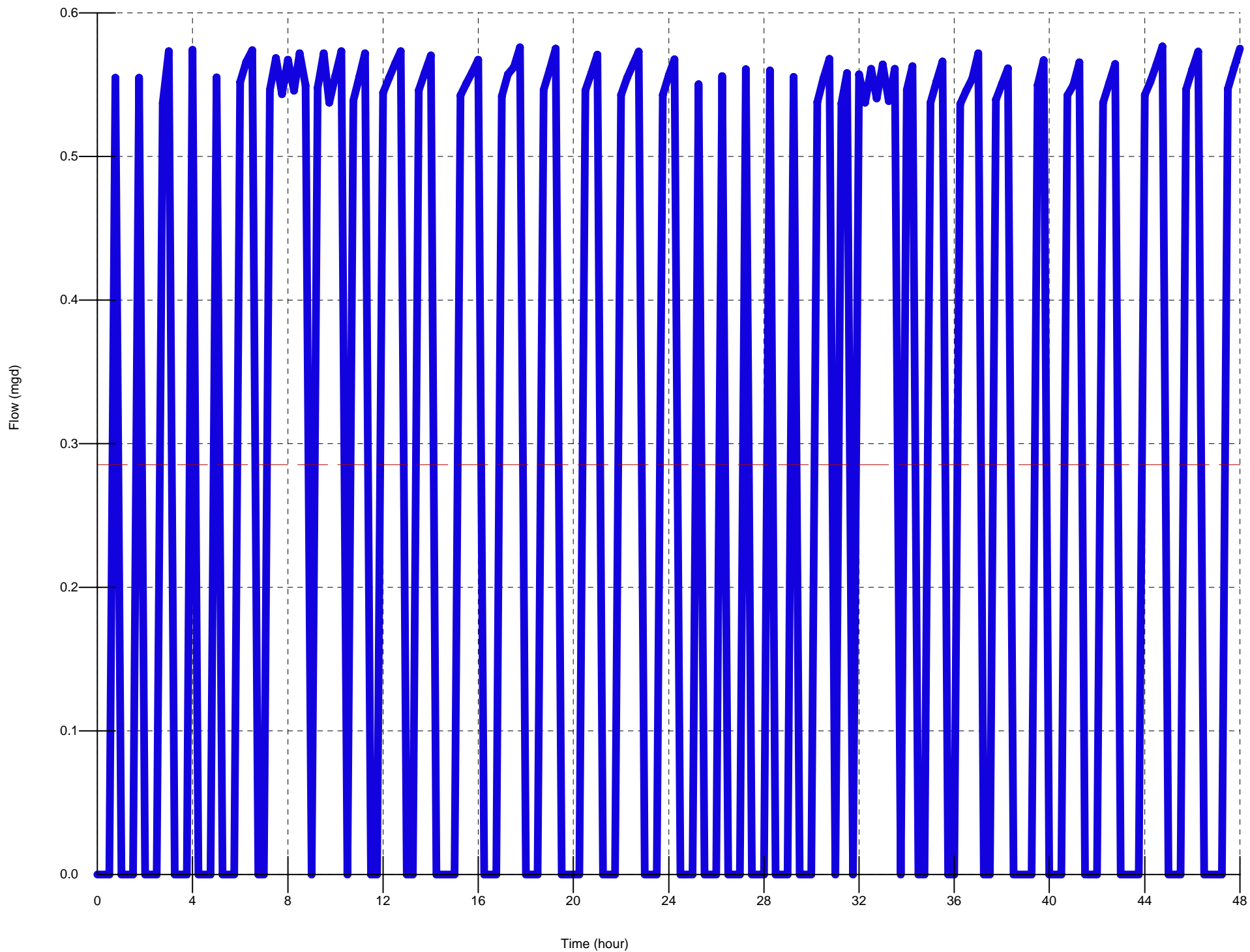
Buckeye Canal Force Main - 2045



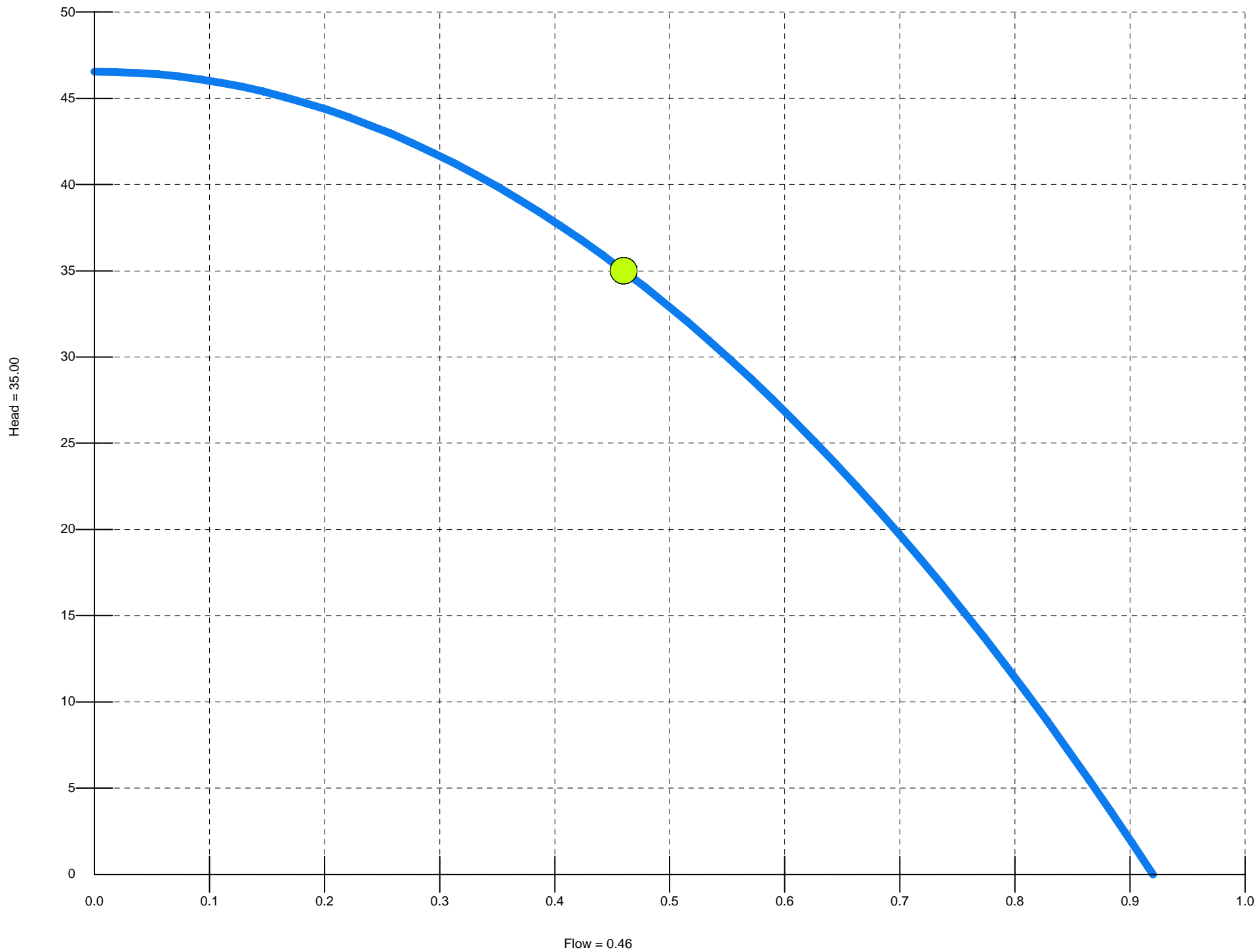
Bio Flora LS Wet Well



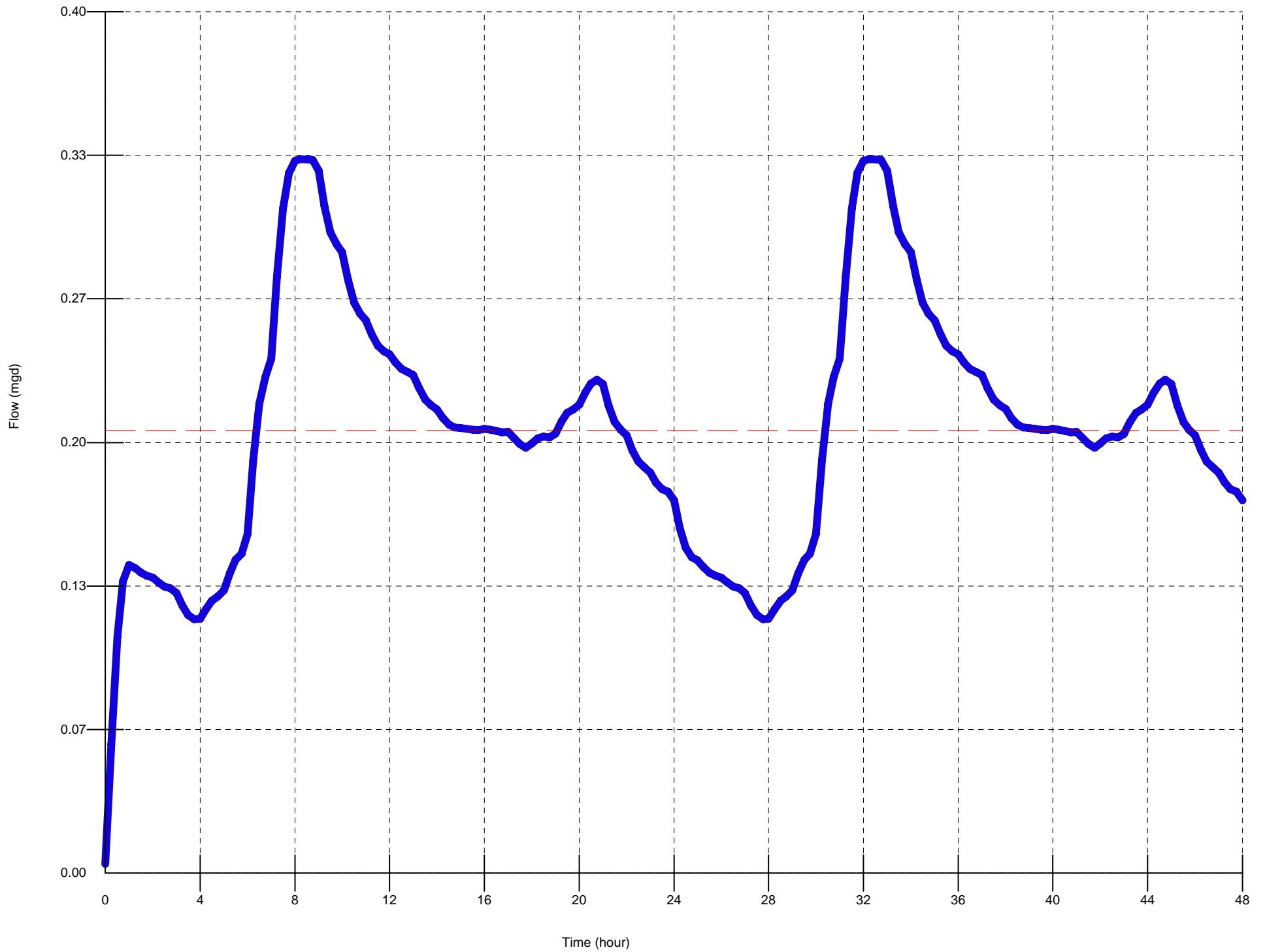
Bio Flora LS Pump - 2045



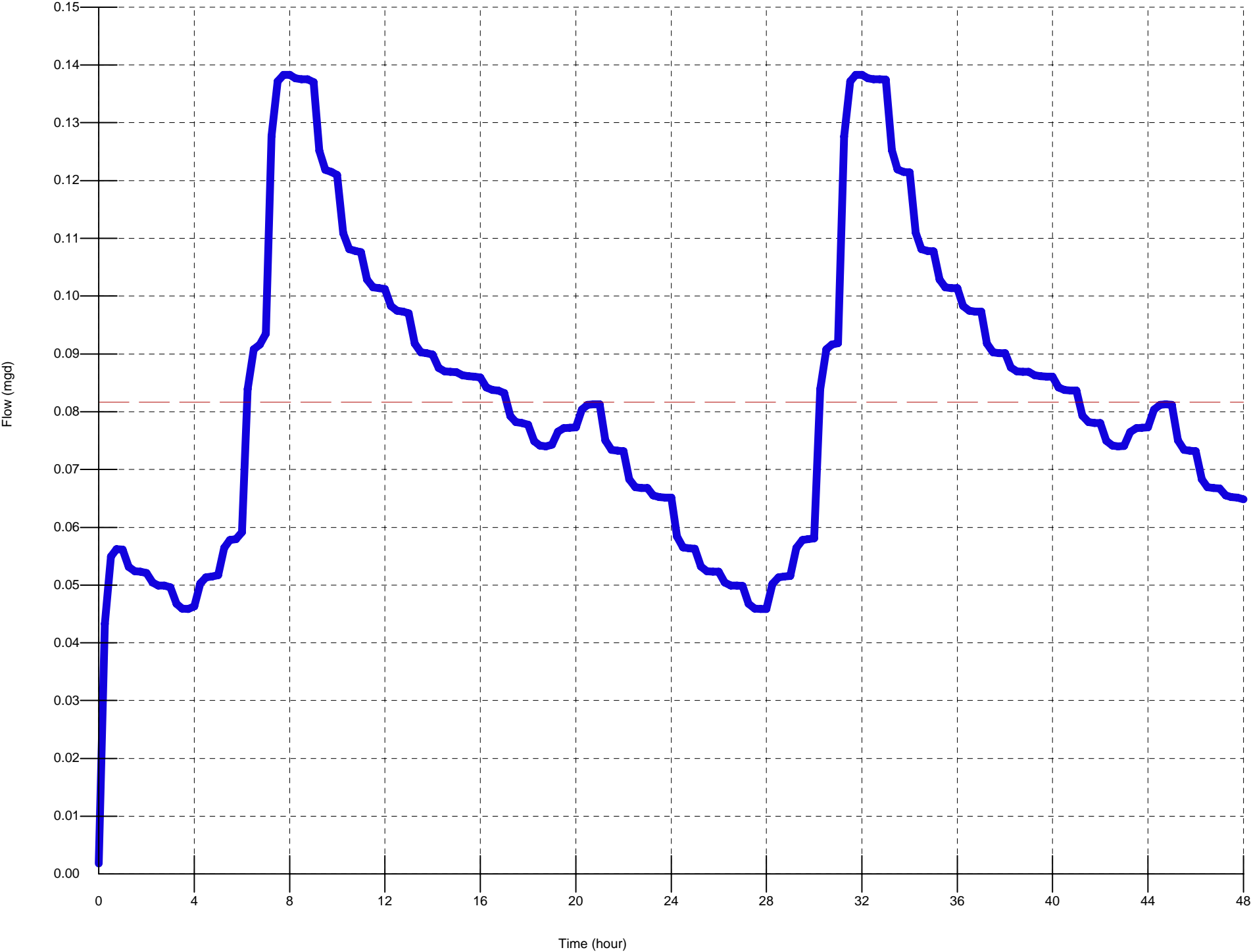
Bio Flora LS Pump - 2045



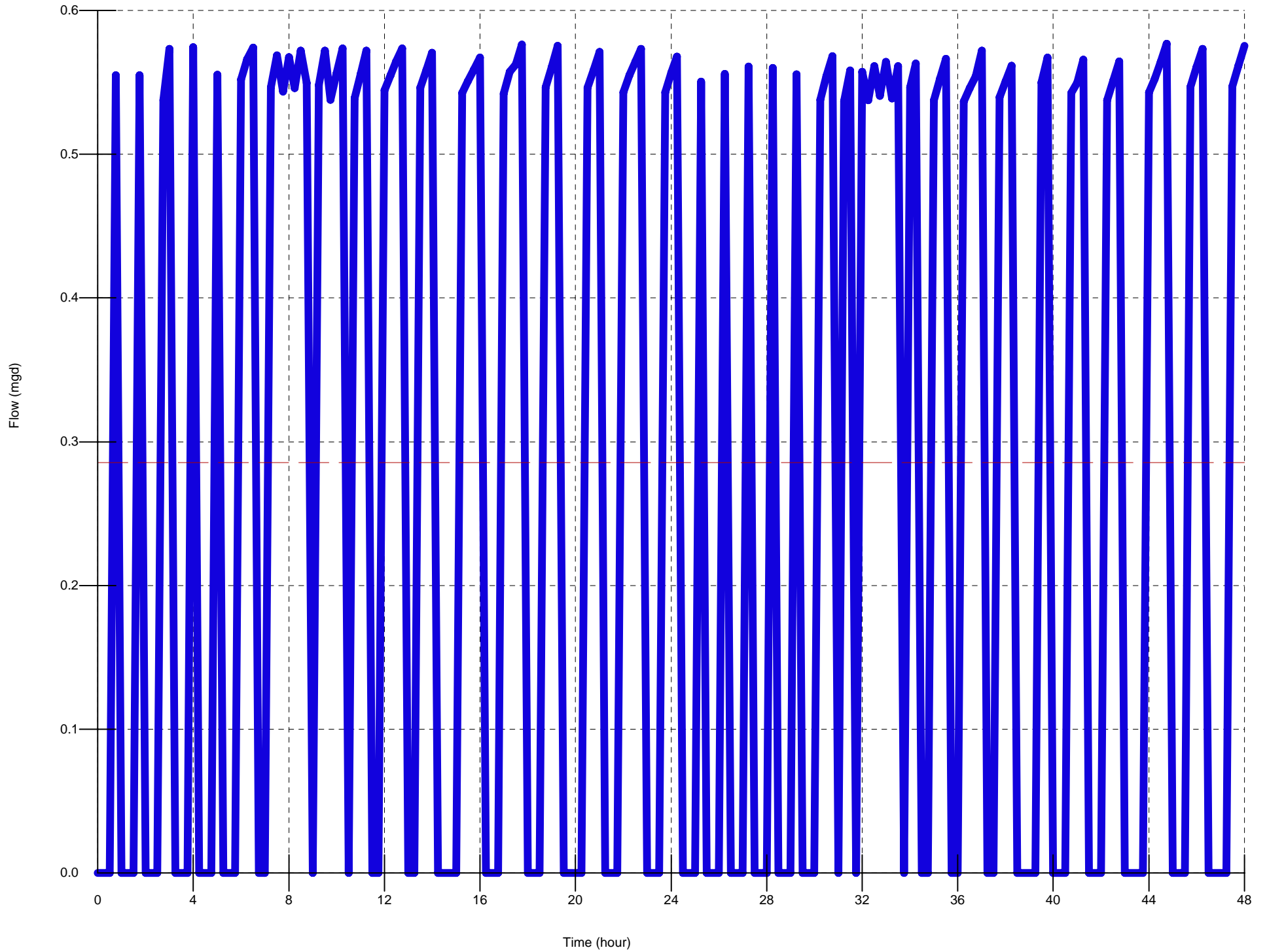
Bio Flora Inflow 2 - 2045



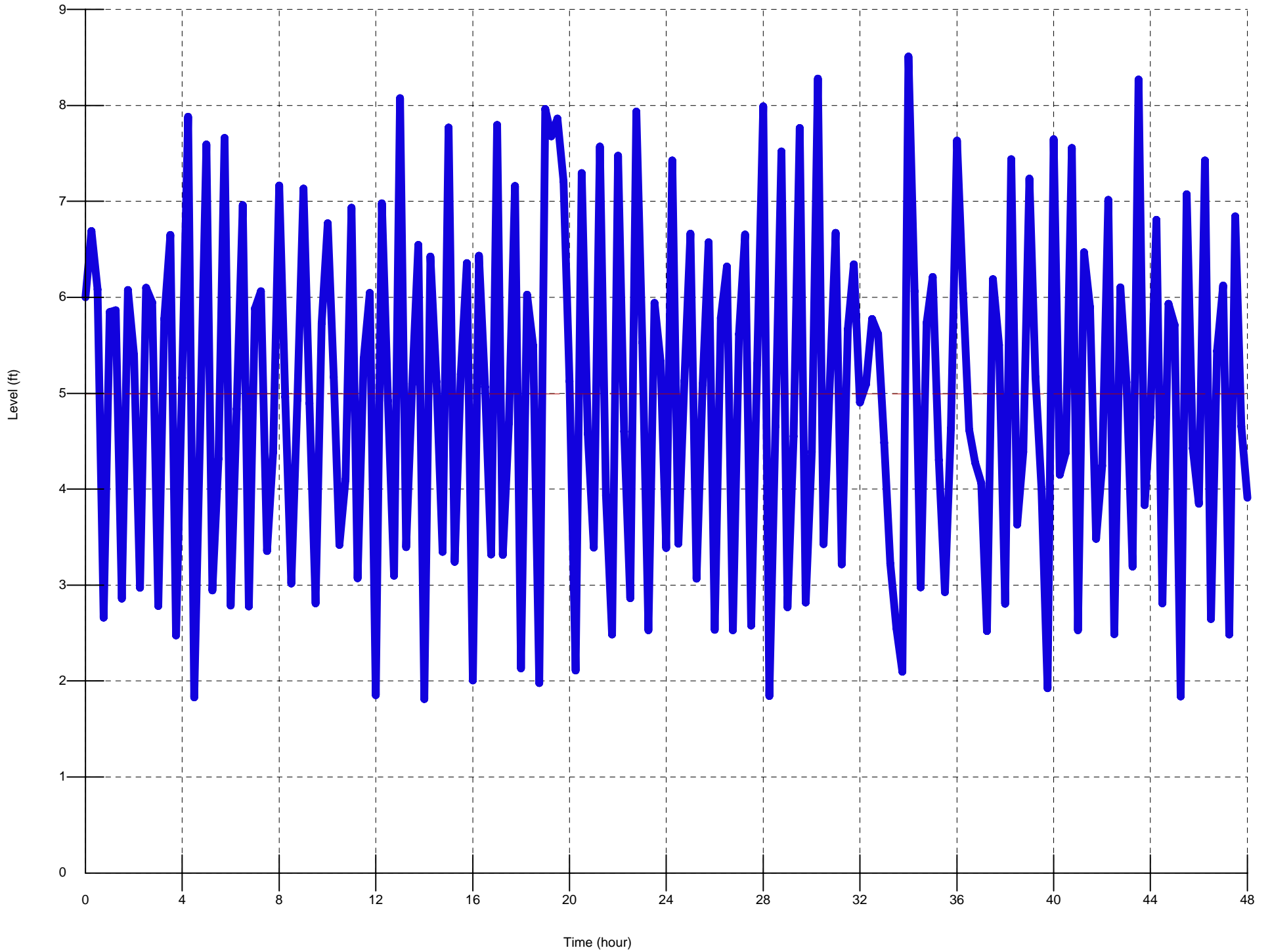
Bio Flora LS Inflow 1 - 2045



Bio Flora Force Main - 2045



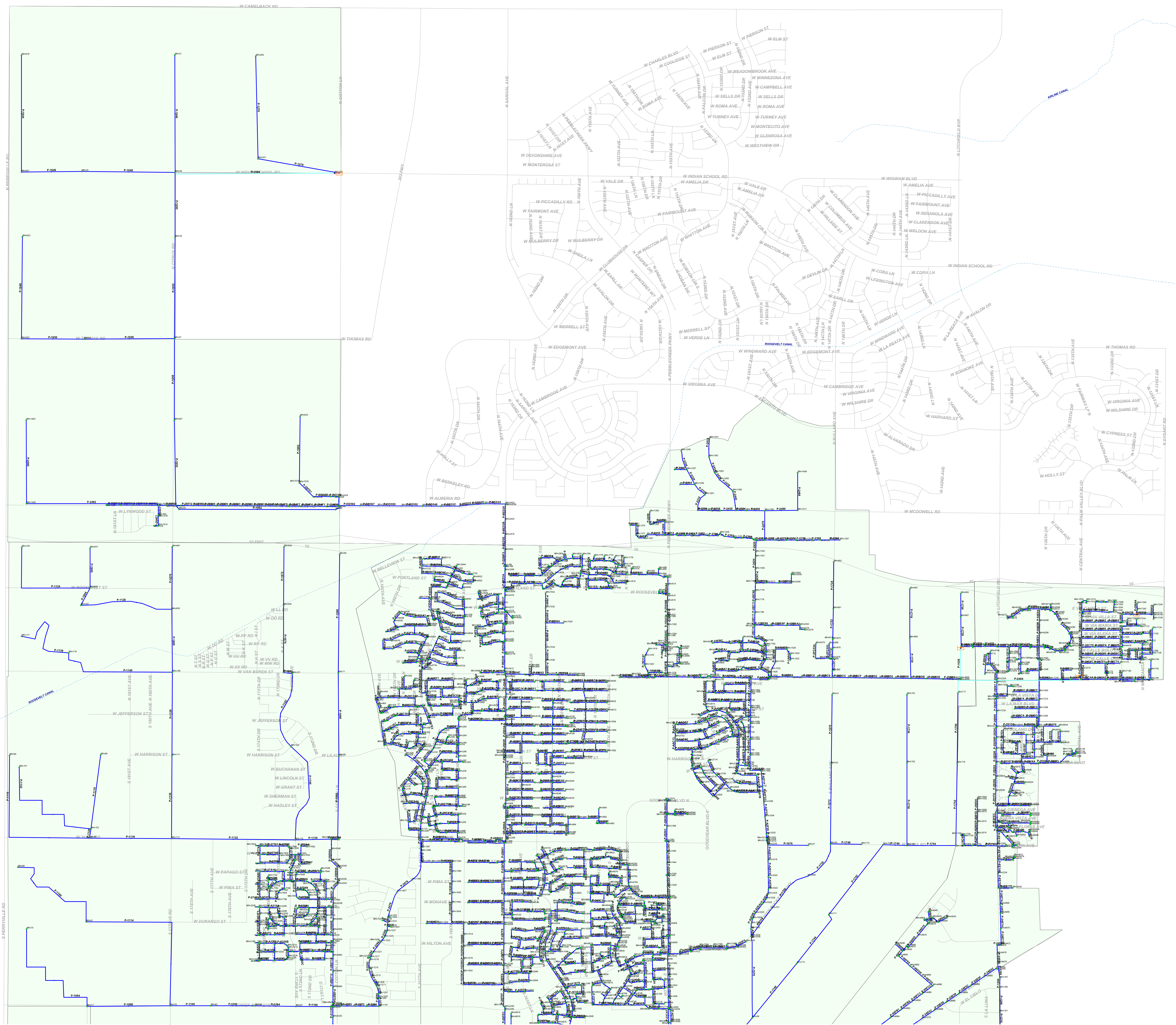
Wells Fargo LS Wet Well

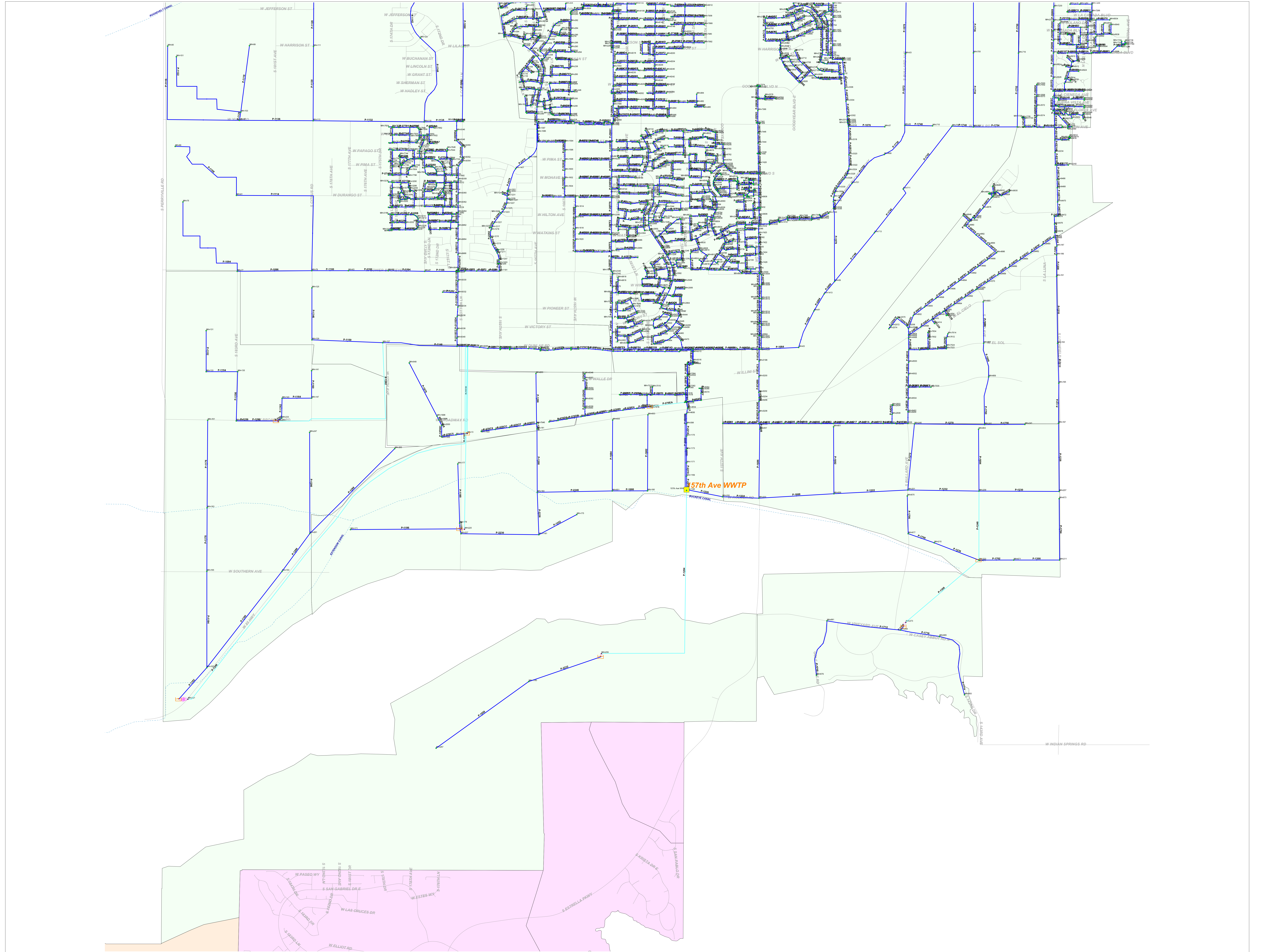


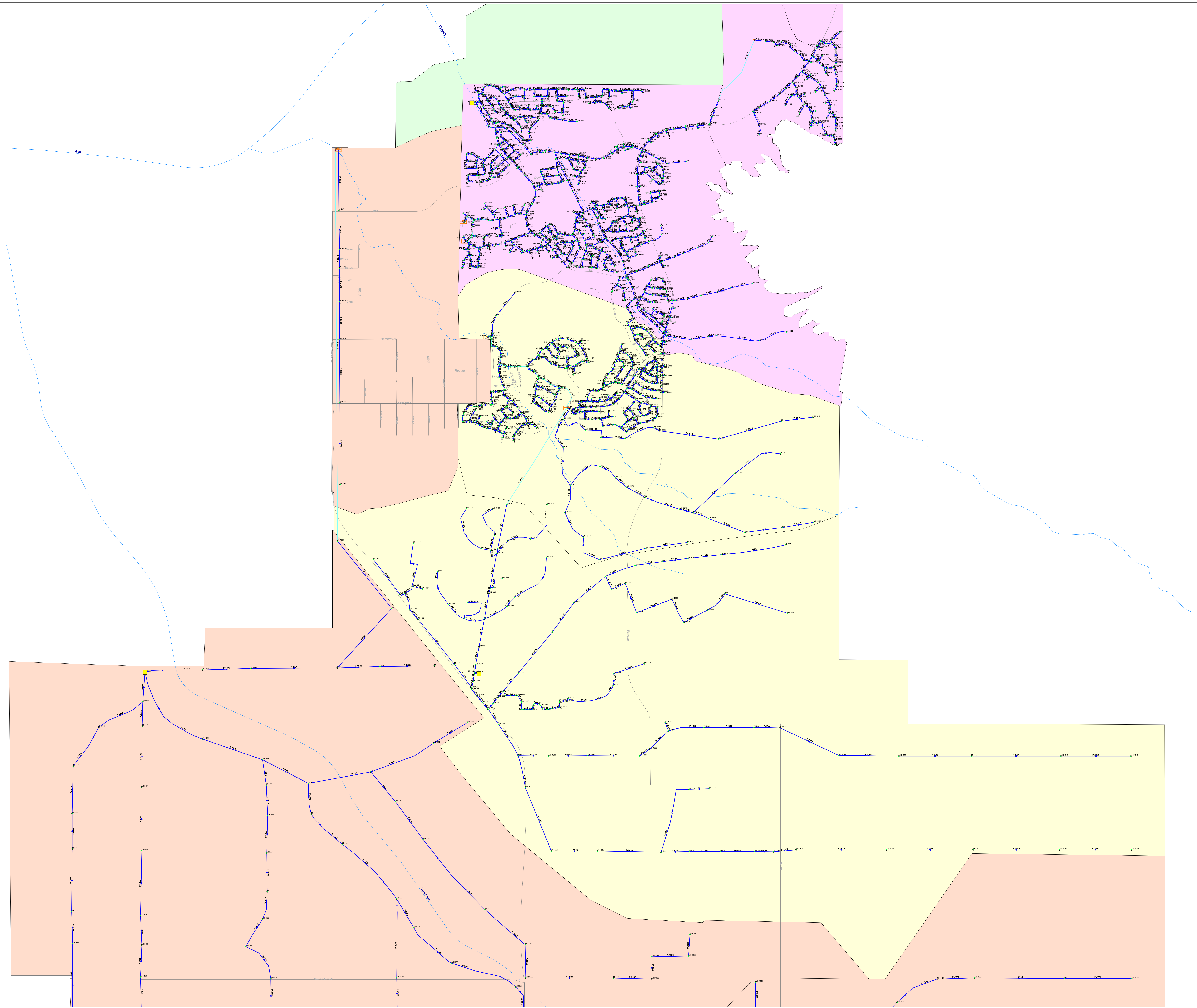


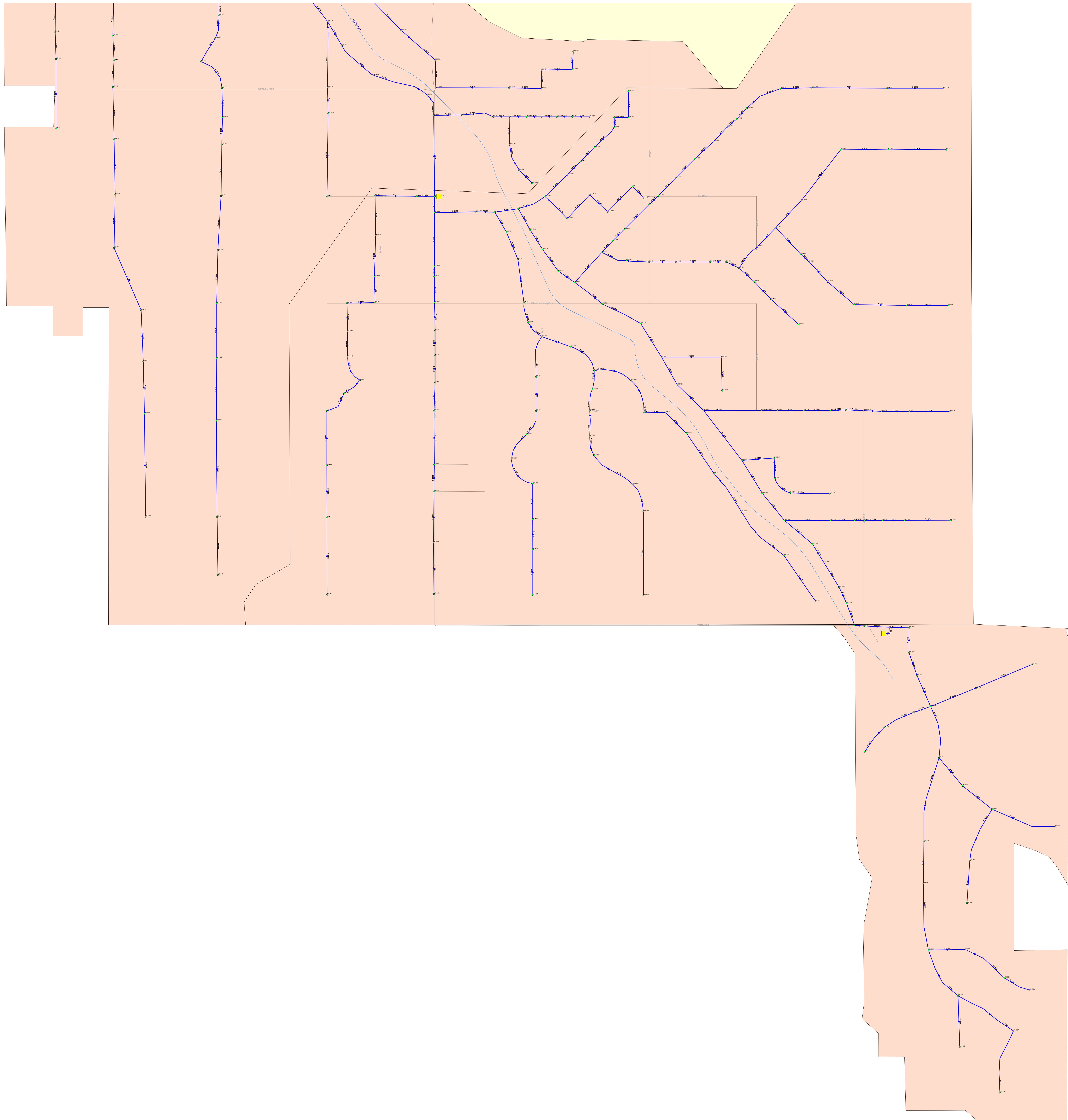
APPENDIX D

HYDRAULIC PERFORMANCE









Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
29079F	64	9664	10	0.049	0.802	21:00 hr	7.473	0.287	2.884	0.344	0.254	0.497
290797	68	64	10	0.012	0.803	21:00 hr	4.375	0.430	1.391	0.516	0.527	0.498
29078E	70	68	10	0.007	0.803	21:00 hr	3.516	0.514	1.046	0.617	0.701	0.497
290785	72	70	10	0.018	0.802	20:59 hr	5.203	0.376	1.756	0.451	0.418	0.497
29077A	74	72	10	0.003	0.800	20:59 hr	2.633	0.670	0.743	0.804	0.982	0.497
290771	76	74	10	0.003	0.793	21:00 hr	2.639	0.663	0.745	0.795	0.972	0.494
290768	78	76	10	0.003	0.790	21:00 hr	2.639	0.660	0.745	0.792	0.968	0.493
29075F	80	78	10	0.003	0.787	21:00 hr	2.635	0.659	0.744	0.790	0.966	0.493
290751	82	80	8	0.004	0.004	20:00 hr	0.649	0.044	0.667	0.065	0.009	0.036
290730	84	80	10	0.003	0.783	21:00 hr	2.639	0.654	0.744	0.784	0.958	0.491
290719	86	84	8	0.003	0.398	44:59 hr	2.257	0.486	0.718	0.729	0.881	0.369
29070C	88	90	8	0.015	0.005	20:00 hr	1.114	0.034	1.290	0.052	0.005	0.039
2905D3	92	86	8	0.003	0.396	44:58 hr	2.267	0.483	0.722	0.724	0.874	0.368
2905CA	90	92	8	0.003	0.397	20:45 hr	2.248	0.487	0.716	0.730	0.883	0.369
290594	96	90	8	0.003	0.388	20:45 hr	2.267	0.473	0.726	0.710	0.853	0.365
29058B	98	96	8	0.003	0.380	20:45 hr	2.237	0.469	0.718	0.704	0.843	0.360
290580	100	98	8	0.003	0.371	20:45 hr	2.184	0.469	0.701	0.704	0.843	0.356
290574	104	100	8	0.003	0.367	20:45 hr	2.225	0.457	0.719	0.686	0.815	0.354
226911	780	778	8	0.061	0.131	20:53 hr	4.878	0.118	3.005	0.177	0.068	0.207
22690E	784	782	8	0.024	0.000	06:58 hr	0.611	0.010	1.348	0.014	0.000	0.011
215A7C	920	918	8	0.015	0.275	20:45 hr	3.708	0.243	1.554	0.364	0.283	0.304
215A75	918	922	8	0.005	0.275	20:45 hr	2.458	0.331	0.888	0.497	0.495	0.304
215A6C	922	924	8	0.005	0.275	20:45 hr	2.451	0.332	0.884	0.498	0.497	0.304
2152E6	924	104	8	0.006	0.275	20:45 hr	2.679	0.310	0.996	0.465	0.441	0.304
2152DE	926	104	8	0.011	0.092	20:45 hr	2.402	0.151	1.299	0.226	0.112	0.173
2152D1	928	926	8	0.011	0.089	20:44 hr	2.373	0.148	1.296	0.222	0.108	0.169
201509	1002	1000	8	0.004	0.042	20:30 hr	1.271	0.136	0.725	0.204	0.091	0.116
201506	1004	1002	8	0.003	0.040	20:40 hr	1.252	0.134	0.721	0.201	0.088	0.113
1FDC3E	1056	1054	8	0.018	0.002	20:00 hr	0.921	0.023	1.322	0.034	0.002	0.026
1FDC3B	1054	1058	8	0.018	0.004	20:13 hr	1.098	0.029	1.379	0.044	0.004	0.034
1FDC2E	1058	1060	8	0.018	0.006	20:15 hr	1.240	0.035	1.415	0.053	0.006	0.042
1FDC26	1060	1062	8	0.009	0.008	20:14 hr	1.056	0.047	1.041	0.071	0.010	0.048
1FDC23	1062	1064	8	0.009	0.009	20:19 hr	1.128	0.052	1.060	0.078	0.012	0.054
1FDC15	1066	1064	8	0.010	0.008	20:00 hr	1.140	0.049	1.105	0.073	0.011	0.051
1FDC10	1068	1066	8	0.010	0.006	20:00 hr	1.033	0.042	1.083	0.063	0.008	0.044
1FDBF1	1070	1072	8	0.036	0.022	20:38 hr	2.378	0.057	2.130	0.086	0.015	0.084
1FDBEE	1064	1070	8	0.036	0.020	20:24 hr	2.302	0.054	2.116	0.081	0.014	0.079
1FDBDD	1074	1076	8	0.003	0.005	20:14 hr	0.664	0.049	0.644	0.073	0.011	0.039
1FDBDA	1078	1074	8	0.003	0.003	20:00 hr	0.576	0.040	0.621	0.059	0.007	0.031
1FDBC9	1076	1080	8	0.003	0.008	20:15 hr	0.750	0.060	0.657	0.089	0.017	0.048
1FDBC6	1080	1082	8	0.003	0.010	20:24 hr	0.810	0.068	0.664	0.102	0.022	0.055
1FDBC3	1082	1084	8	0.003	0.012	20:27 hr	0.860	0.074	0.672	0.112	0.026	0.061
1FDBA7	1088	1086	8	0.003	0.050	20:00 hr	1.310	0.149	0.712	0.224	0.110	0.126
1FDB93	1084	1072	8	0.018	0.016	20:29 hr	1.677	0.057	1.502	0.086	0.015	0.070
1FDB87	1072	1004	8	0.003	0.040	20:41 hr	1.230	0.135	0.706	0.202	0.089	0.113
1FDB74	1092	1090	8	0.013	0.003	20:00 hr	0.946	0.030	1.177	0.045	0.004	0.032
1FDB71	1090	1094	8	0.013	0.006	20:14 hr	1.108	0.038	1.220	0.057	0.006	0.042
1FDB6E	1094	1096	8	0.005	0.007	20:15 hr	0.869	0.054	0.804	0.080	0.013	0.048
1FDB5F	1096	1098	8	0.005	0.009	20:15 hr	0.925	0.058	0.822	0.087	0.016	0.053
1FDB4C	1100	1098	8	0.009	0.001	20:00 hr	0.609	0.020	0.924	0.030	0.002	0.019
1FDB49	1098	1102	8	0.009	0.012	20:26 hr	1.229	0.060	1.076	0.090	0.017	0.062
1FDB46	1102	1104	8	0.030	0.014	20:27 hr	1.945	0.048	1.913	0.071	0.010	0.066
1FDB30	1108	1106	8	0.008	0.002	20:00 hr	0.730	0.028	0.933	0.042	0.003	0.027
1FDB28	1106	1110	8	0.008	0.004	20:14 hr	0.865	0.037	0.966	0.055	0.006	0.036
1FDB1C	1110	1112	8	0.003	0.007	20:15 hr	0.715	0.056	0.646	0.084	0.015	0.045
1FDB14	1112	1114	8	0.003	0.008	20:15 hr	0.761	0.061	0.659	0.091	0.017	0.049
1FDB0A	1114	1116	8	0.003	0.011	20:14 hr	0.835	0.071	0.670	0.106	0.024	0.058
1FDB07	1116	1118	8	0.027	0.013	20:28 hr	1.838	0.048	1.796	0.072	0.011	0.065
1FDAF4	1120	1122	8	0.025	0.004	20:00 hr	1.290	0.029	1.625	0.044	0.004	0.037
1FDAEC	1122	1124	8	0.025	0.016	20:14 hr	1.899	0.053	1.768	0.079	0.013	0.071
1FDAE5	1124	1086	8	0.024	0.018	20:14 hr	1.951	0.056	1.760	0.084	0.015	0.075
1FDAE2	1086	1126	8	0.008	0.069	20:28 hr	1.985	0.141	1.115	0.211	0.097	0.149
1FDAD4	1126	1128	8	0.008	0.073	20:29 hr	2.006	0.145	1.108	0.217	0.104	0.153
1FDACC	1128	1130	8	0.008	0.085	20:35 hr	2.099	0.157	1.113	0.235	0.121	0.165

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
1FDAC4	1130	1132	8	0.012	0.119	20:40 hr	2.674	0.168	1.365	0.252	0.139	0.197
1FDAC1	1132	1134	8	0.012	0.141	20:54 hr	2.809	0.183	1.371	0.274	0.164	0.215
1FDABE	1134	1104	8	0.003	0.156	20:44 hr	1.812	0.272	0.717	0.407	0.348	0.227
1FDAAA	1104	1136	8	0.003	0.174	20:45 hr	1.879	0.286	0.725	0.429	0.383	0.240
1FDAA7	1136	1118	8	0.003	0.175	20:44 hr	1.861	0.290	0.713	0.435	0.393	0.241
1FDA9A	1118	1138	8	0.003	0.190	20:44 hr	1.919	0.301	0.723	0.452	0.419	0.251
1FDA90	1138	1140	8	0.003	0.200	20:45 hr	1.951	0.310	0.726	0.465	0.441	0.258
1FDA88	1140	1142	8	0.009	0.211	20:44 hr	2.838	0.243	1.189	0.364	0.283	0.265
1FDA80	1142	1144	8	0.009	0.213	20:45 hr	2.828	0.246	1.177	0.368	0.289	0.267
1FDA75	1144	920	8	0.009	0.274	20:45 hr	3.052	0.280	1.190	0.420	0.368	0.304
1FDA35	1000	1146	8	0.003	0.043	20:39 hr	1.230	0.141	0.690	0.211	0.098	0.116
1FDA2D	1146	1148	8	0.003	0.045	20:32 hr	1.282	0.142	0.717	0.213	0.099	0.120
1FDA25	1148	1150	8	0.007	0.049	20:41 hr	1.726	0.123	1.040	0.185	0.074	0.125
1FDA1D	1150	1152	8	0.007	0.052	20:43 hr	1.750	0.126	1.039	0.190	0.079	0.129
1FDA13	1152	1154	8	0.003	0.055	20:45 hr	1.356	0.157	0.719	0.235	0.121	0.132
1FDA09	1154	1156	8	0.003	0.058	20:43 hr	1.373	0.162	0.716	0.242	0.129	0.136
1FDA06	1156	1158	8	0.026	0.060	20:45 hr	2.867	0.099	1.938	0.148	0.047	0.138
1FDA03	1158	1144	8	0.029	0.060	20:44 hr	2.975	0.097	2.033	0.145	0.045	0.139
1FD369	1160	1162	8	0.013	0.002	20:00 hr	0.816	0.023	1.147	0.035	0.002	0.025
1FD362	1162	1164	8	0.006	0.005	20:13 hr	0.834	0.042	0.870	0.064	0.008	0.039
1FD35B	1164	1166	8	0.006	0.009	20:15 hr	0.999	0.056	0.899	0.085	0.015	0.054
1FD34D	1168	1170	8	0.009	0.014	20:26 hr	1.306	0.063	1.110	0.095	0.019	0.067
1FD34A	1166	1168	8	0.008	0.012	20:24 hr	1.184	0.062	1.019	0.093	0.018	0.062
1FD336	1172	1174	8	0.005	0.003	20:00 hr	0.630	0.033	0.741	0.050	0.005	0.029
1FD32E	1174	1176	8	0.005	0.006	20:13 hr	0.822	0.050	0.786	0.075	0.012	0.045
1FD32B	1176	1178	8	0.007	0.010	20:15 hr	1.073	0.056	0.971	0.084	0.014	0.055
1FD328	1178	1180	8	0.009	0.011	20:28 hr	1.223	0.057	1.095	0.086	0.015	0.060
1FD310	1182	1184	8	0.007	0.011	20:24 hr	1.104	0.059	0.969	0.089	0.016	0.058
1FD30D	1186	1182	8	0.003	0.010	20:21 hr	0.825	0.069	0.669	0.104	0.023	0.057
1FD305	1188	1186	8	0.003	0.008	20:12 hr	0.754	0.061	0.653	0.091	0.017	0.049
1FD2FD	1190	1188	8	0.003	0.003	20:00 hr	0.578	0.040	0.618	0.060	0.007	0.032
1FD2F5	1192	1190	8	0.003	0.001	20:00 hr	0.430	0.025	0.579	0.038	0.003	0.019
1FD2E4	1196	1194	8	0.010	0.002	20:00 hr	0.733	0.025	1.004	0.037	0.003	0.025
1FD2DC	1194	1198	8	0.005	0.005	20:15 hr	0.740	0.043	0.768	0.064	0.008	0.037
1FD2D4	1198	1200	8	0.005	0.008	20:15 hr	0.871	0.055	0.794	0.083	0.014	0.049
1FD2CD	1200	1202	8	0.003	0.010	20:28 hr	0.820	0.070	0.661	0.105	0.023	0.057
1FD2B1	1204	1206	8	0.020	0.052	20:47 hr	2.516	0.099	1.701	0.148	0.047	0.129
1FD2AE	1208	1204	8	0.003	0.051	20:43 hr	1.319	0.152	0.711	0.228	0.114	0.127
1FD2A6	1170	1208	8	0.003	0.049	20:50 hr	1.310	0.148	0.717	0.221	0.107	0.124
1FD29E	1210	1170	8	0.007	0.031	20:36 hr	1.501	0.098	1.017	0.147	0.047	0.099
1FD296	1180	1210	8	0.003	0.027	20:36 hr	1.101	0.111	0.700	0.166	0.060	0.093
1FD293	1212	1180	8	0.003	0.015	20:45 hr	0.906	0.082	0.672	0.123	0.032	0.067
1FD286	1202	1212	8	0.003	0.013	20:26 hr	0.879	0.078	0.672	0.117	0.029	0.064
1FD271	1214	1206	8	0.007	0.029	20:40 hr	1.443	0.096	0.987	0.145	0.045	0.096
1FD26E	1206	1216	8	0.007	0.082	20:43 hr	1.973	0.159	1.036	0.239	0.125	0.162
1FD262	1216	1218	8	0.007	0.084	20:44 hr	1.946	0.164	1.005	0.247	0.133	0.165
1FD256	1220	928	8	0.011	0.088	20:45 hr	2.372	0.148	1.298	0.221	0.107	0.169
1FD24F	1218	1220	8	0.004	0.087	20:44 hr	1.565	0.196	0.735	0.294	0.188	0.167
1FD237	1222	1184	8	0.004	0.005	20:00 hr	0.713	0.048	0.695	0.073	0.011	0.040
1FD22F	1184	1224	8	0.008	0.019	20:29 hr	1.355	0.075	1.052	0.113	0.027	0.077
1FD226	1224	1226	8	0.007	0.024	20:30 hr	1.368	0.088	0.980	0.132	0.038	0.087
1FD21F	1226	1214	8	0.007	0.028	20:43 hr	1.426	0.094	0.989	0.141	0.043	0.093
1E0427	1372	1374	8	0.011	0.016	07:15 hr	1.406	0.065	1.176	0.098	0.020	0.071
1E0424	1376	1372	6	0.021	0.005	07:00 hr	1.317	0.035	1.510	0.070	0.010	0.043
1E0421	1378	1372	6	0.021	0.007	07:00 hr	1.426	0.039	1.539	0.079	0.013	0.049
1DDC98	1390	1388	6	0.020	0.000	07:00 hr	0.604	0.011	1.241	0.022	0.001	0.012
1DDC8F	1388	1392	6	0.011	0.000	06:59 hr	0.484	0.013	0.932	0.025	0.001	0.012
1DDC85	1394	784	6	0.011	0.000	06:58 hr	0.488	0.012	0.944	0.025	0.001	0.012
1DDC80	1392	1394	6	0.009	0.000	06:58 hr	0.459	0.013	0.871	0.026	0.001	0.012
1A9B72	1506	780	8	0.003	0.010	20:00 hr	0.788	0.072	0.626	0.108	0.025	0.057
1500D8	1710	1708	6	0.014	0.004	20:00 hr	1.058	0.034	1.232	0.068	0.009	0.038
1500D2	1708	1712	6	0.014	0.014	20:00 hr	1.547	0.061	1.329	0.123	0.032	0.071
1500C9	1712	1714	6	0.014	0.019	20:14 hr	1.688	0.071	1.349	0.141	0.043	0.082

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
1500B8	1716	1718	6	0.014	0.035	20:24 hr	2.019	0.097	1.370	0.194	0.082	0.114
1500B5	1714	1716	6	0.014	0.028	20:23 hr	1.904	0.087	1.365	0.174	0.066	0.102
14D085	1722	1720	8	0.015	0.004	20:00 hr	1.032	0.030	1.270	0.046	0.004	0.034
14D078	1720	1724	8	0.009	0.007	20:15 hr	1.012	0.046	1.015	0.069	0.009	0.046
1304A3	1942	1940	8	0.004	0.004	20:00 hr	0.639	0.045	0.646	0.067	0.009	0.036
13049A	1944	1940	8	0.028	0.002	20:00 hr	1.006	0.018	1.610	0.027	0.001	0.023
130492	1940	1946	8	0.008	0.009	20:14 hr	1.056	0.052	0.996	0.077	0.012	0.051
13048F	1946	1948	8	0.008	0.012	20:24 hr	1.166	0.061	1.009	0.092	0.017	0.061
130482	1950	1948	8	0.005	0.005	20:00 hr	0.730	0.046	0.734	0.068	0.009	0.039
130479	1954	1952	8	0.007	0.005	20:00 hr	0.818	0.041	0.869	0.061	0.007	0.038
130470	1948	1952	8	0.003	0.020	20:24 hr	1.016	0.096	0.695	0.145	0.045	0.080
130468	1952	1956	8	0.013	0.029	20:29 hr	1.797	0.082	1.337	0.123	0.032	0.095
130455	1956	1958	8	0.017	0.031	20:30 hr	2.058	0.080	1.553	0.120	0.030	0.100
13044E	1958	1960	8	0.016	0.034	20:35 hr	2.016	0.085	1.473	0.127	0.035	0.103
13044B	1960	1962	8	0.005	0.036	20:34 hr	1.389	0.115	0.866	0.173	0.065	0.107
13041B	1962	1964	8	0.002	0.038	20:34 hr	1.033	0.146	0.569	0.218	0.105	0.109
10282C	2122	2120	8	0.000	0.013	20:00 hr	0.112	0.349	0.040	0.523	0.539	0.065
102825	2126	2124	8	0.000	0.001	20:00 hr	0.057	0.100	0.038	0.149	0.048	0.019
102811	2130	2128	8	0.000	0.032	20:00 hr	0.140	0.667	0.039	1.000	1.279	0.100
1027F2	2134	2132	8	0.000	0.002	20:00 hr	0.066	0.129	0.039	0.194	0.082	0.025
1027EB	2138	2136	8	0.000	0.004	20:00 hr	0.078	0.171	0.040	0.257	0.145	0.033
1027E3	2142	2140	8	0.000	0.001	20:00 hr	0.054	0.092	0.038	0.138	0.041	0.018
1013D8	2144	4570	6	0.018	0.012	07:00 hr	1.607	0.054	1.482	0.107	0.024	0.065
FD549	2148	LS9	24	0.006	3.177	21:00 hr	4.683	0.736	1.126	0.368	0.289	0.781
FD541	2150	2148	24	0.003	3.185	21:00 hr	3.481	0.923	0.750	0.461	0.435	0.782
CDDCE	2300	2302	8	0.025	0.003	20:14 hr	1.082	0.023	1.553	0.034	0.002	0.028
BED67	2376	2378	8	0.026	0.020	20:15 hr	2.070	0.059	1.820	0.089	0.016	0.080
BED64	2382	2380	8	0.009	0.006	20:00 hr	0.982	0.041	1.040	0.062	0.008	0.042
A3618	3068	3070	8	0.019	0.014	20:24 hr	1.664	0.053	1.552	0.079	0.013	0.066
A3615	3072	3068	8	0.023	0.010	20:13 hr	1.612	0.044	1.639	0.067	0.009	0.057
A3612	3074	3072	8	0.029	0.004	20:00 hr	1.260	0.025	1.714	0.038	0.003	0.033
A3603	3078	3076	8	0.025	0.002	20:00 hr	1.048	0.021	1.548	0.032	0.002	0.026
A3600	3076	3080	8	0.025	0.005	20:13 hr	1.298	0.030	1.622	0.044	0.004	0.038
A35FD	3080	3082	8	0.028	0.007	20:12 hr	1.523	0.034	1.766	0.052	0.005	0.046
A35FA	3082	3084	8	0.003	0.009	20:15 hr	0.777	0.066	0.644	0.099	0.021	0.053
A35F7	3084	3086	8	0.004	0.012	20:15 hr	0.882	0.073	0.699	0.109	0.025	0.061
A35E0	3090	3088	8	0.016	0.023	20:00 hr	1.804	0.069	1.461	0.104	0.023	0.084
A35DD	3088	3092	8	0.004	0.030	20:15 hr	1.166	0.113	0.734	0.170	0.063	0.097
A35DA	3092	3094	8	0.017	0.033	20:29 hr	2.078	0.082	1.545	0.123	0.032	0.102
A35D7	3094	3096	8	0.016	0.037	20:29 hr	2.114	0.087	1.521	0.131	0.037	0.108
A35D4	3096	3098	8	0.022	0.039	20:33 hr	2.377	0.084	1.742	0.127	0.034	0.112
A35D1	3098	3100	8	0.037	0.042	44:50 hr	2.930	0.076	2.261	0.115	0.028	0.115
A35CE	3100	3102	8	0.011	0.044	20:41 hr	1.900	0.106	1.238	0.159	0.055	0.118
A35CB	3102	3104	8	0.006	0.046	20:42 hr	1.614	0.123	0.973	0.184	0.074	0.121
A352C	3106	3108	8	0.004	0.064	20:42 hr	1.561	0.158	0.824	0.237	0.123	0.143
A3529	3110	3106	8	0.007	0.050	20:43 hr	1.743	0.123	1.052	0.184	0.074	0.126
A3526	3108	3112	8	0.011	0.065	20:43 hr	2.164	0.127	1.284	0.190	0.079	0.144
A351F	3086	3106	8	0.005	0.013	20:22 hr	1.047	0.071	0.841	0.106	0.024	0.065
A3518	3104	3110	8	0.012	0.048	20:41 hr	2.062	0.106	1.340	0.160	0.055	0.124
A350E	3116	3114	8	0.004	0.030	20:45 hr	1.202	0.111	0.763	0.167	0.061	0.097
A350B	3114	3118	8	0.005	0.032	20:28 hr	1.342	0.109	0.863	0.163	0.058	0.101
A3508	3118	3120	8	0.005	0.033	20:28 hr	1.355	0.110	0.864	0.166	0.060	0.103
A3505	3120	3122	8	0.004	0.036	20:29 hr	1.300	0.121	0.789	0.182	0.072	0.107
A3502	3122	3124	8	0.004	0.042	20:42 hr	1.333	0.132	0.775	0.197	0.085	0.116
A34FF	3124	3126	8	0.003	0.046	20:42 hr	1.284	0.143	0.715	0.214	0.101	0.120
A34FC	3126	3128	8	0.011	0.047	20:45 hr	1.974	0.108	1.274	0.162	0.057	0.122
A34F9	3128	3130	8	0.003	0.050	20:42 hr	1.322	0.150	0.718	0.225	0.111	0.127
A34CE	3134	3132	8	0.004	0.003	20:00 hr	0.572	0.036	0.645	0.054	0.006	0.029
A34CB	3132	3136	8	0.009	0.009	20:00 hr	1.125	0.050	1.077	0.075	0.011	0.052
A34C8	3136	3138	8	0.011	0.015	20:15 hr	1.373	0.062	1.175	0.094	0.018	0.068
A34C5	3138	3140	8	0.010	0.018	20:15 hr	1.407	0.070	1.133	0.105	0.023	0.075
A34C2	3140	3116	8	0.010	0.023	20:24 hr	1.546	0.079	1.171	0.119	0.030	0.086
A34A7	3144	3142	8	0.004	0.004	20:00 hr	0.670	0.042	0.705	0.062	0.008	0.035

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
A34A4	3142	3146	8	0.005	0.006	20:13 hr	0.835	0.050	0.803	0.075	0.011	0.045
A34A1	3146	3148	8	0.006	0.012	20:14 hr	1.014	0.065	0.850	0.098	0.020	0.060
A3492	3150	3152	8	0.012	0.004	20:00 hr	0.981	0.035	1.134	0.052	0.005	0.037
A348B	3148	3154	8	0.007	0.042	20:30 hr	1.579	0.116	0.981	0.174	0.066	0.115
A3488	3154	3156	8	0.006	0.044	20:37 hr	1.522	0.123	0.915	0.185	0.075	0.118
A3485	3156	3152	8	0.006	0.047	20:36 hr	1.611	0.125	0.961	0.188	0.077	0.123
A3482	3152	3158	8	0.009	0.054	20:42 hr	1.885	0.122	1.138	0.184	0.074	0.131
A347F	3158	3160	8	0.008	0.055	20:40 hr	1.842	0.127	1.092	0.190	0.079	0.133
A346C	3164	3162	8	0.005	0.019	20:15 hr	1.151	0.083	0.853	0.124	0.033	0.076
A3469	3162	3166	8	0.008	0.021	20:28 hr	1.383	0.080	1.040	0.120	0.031	0.082
A3466	3166	3168	8	0.006	0.024	20:28 hr	1.310	0.091	0.924	0.136	0.040	0.087
A3463	3168	3148	8	0.005	0.027	20:29 hr	1.284	0.099	0.866	0.149	0.048	0.092
A3450	3172	3170	8	0.032	0.003	20:00 hr	1.208	0.022	1.750	0.033	0.002	0.029
A344D	3170	3164	8	0.008	0.008	20:14 hr	1.045	0.049	1.015	0.073	0.011	0.049
A3442	3174	3164	8	0.004	0.008	20:14 hr	0.792	0.059	0.695	0.089	0.016	0.049
A343F	3178	3176	8	0.008	0.003	20:00 hr	0.791	0.034	0.923	0.051	0.005	0.033
A343C	3176	3174	8	0.004	0.006	20:00 hr	0.742	0.049	0.715	0.074	0.011	0.042
A2B65	3400	3402	8	0.006	0.344	44:58 hr	2.709	0.366	0.940	0.550	0.585	0.342
A2B56	3404	3406	8	0.003	0.003	20:00 hr	0.523	0.038	0.575	0.057	0.006	0.029
A2B53	3406	3408	8	0.006	0.007	20:12 hr	0.889	0.050	0.855	0.075	0.011	0.046
A2B50	3408	3410	8	0.004	0.011	20:13 hr	0.933	0.068	0.764	0.102	0.022	0.059
A2B45	3412	3414	8	0.003	0.003	20:00 hr	0.586	0.040	0.625	0.061	0.007	0.032
A2B42	3416	3402	8	0.005	0.010	20:26 hr	0.902	0.062	0.776	0.093	0.018	0.054
A2B3F	3414	3416	8	0.025	0.006	20:13 hr	1.425	0.034	1.669	0.050	0.005	0.044
A2B2C	3402	3418	10	0.003	0.358	45:00 hr	2.005	0.421	0.643	0.505	0.509	0.326
A2B29	3418	3420	10	0.003	0.363	44:59 hr	2.114	0.408	0.687	0.490	0.483	0.329
A2B26	3420	3422	10	0.004	0.366	45:00 hr	2.360	0.377	0.795	0.453	0.421	0.330
A2B23	3422	3424	10	0.003	0.369	44:59 hr	2.192	0.402	0.717	0.483	0.470	0.331
A2B14	3428	3426	8	0.004	0.003	20:00 hr	0.589	0.036	0.663	0.055	0.006	0.030
A2B11	3426	3430	8	0.006	0.004	20:12 hr	0.753	0.039	0.815	0.059	0.007	0.036
A2B0E	3430	3432	8	0.004	0.005	20:14 hr	0.700	0.049	0.679	0.073	0.011	0.040
A2AF3	3434	3436	10	0.003	0.444	44:59 hr	2.268	0.453	0.706	0.543	0.574	0.365
A2AF0	3438	3434	10	0.003	0.443	45:00 hr	2.154	0.471	0.661	0.565	0.612	0.364
A2AED	3440	3438	10	0.003	0.441	44:59 hr	2.282	0.448	0.714	0.538	0.564	0.364
A2AEA	3432	3440	10	0.002	0.438	44:59 hr	2.081	0.481	0.634	0.577	0.632	0.363
A2AE7	3442	3432	10	0.002	0.431	44:59 hr	2.093	0.472	0.642	0.566	0.614	0.359
A2AE4	3424	3442	10	0.003	0.429	44:59 hr	2.196	0.452	0.685	0.542	0.573	0.358
A2AE1	3410	3424	8	0.004	0.056	20:44 hr	1.433	0.154	0.767	0.231	0.117	0.134
A2ADE	1964	3410	8	0.004	0.040	20:41 hr	1.357	0.126	0.808	0.189	0.078	0.113
A2A40	3444	3446	8	0.013	0.158	44:45 hr	2.985	0.189	1.428	0.284	0.176	0.228
A2A3D	3446	3448	8	0.013	0.168	44:45 hr	3.012	0.197	1.411	0.295	0.190	0.235
A2A2E	3452	3450	8	0.035	0.010	20:00 hr	1.840	0.039	2.011	0.058	0.007	0.055
A2A2B	3450	3448	8	0.014	0.012	20:14 hr	1.423	0.053	1.325	0.079	0.013	0.061
A2A28	3448	3454	8	0.006	0.182	44:45 hr	2.347	0.251	0.967	0.376	0.301	0.246
A2A19	3454	3456	8	0.007	0.187	44:45 hr	2.491	0.244	1.040	0.366	0.287	0.249
A2A16	3456	3458	8	0.005	0.190	44:45 hr	2.274	0.265	0.912	0.397	0.333	0.251
A2A07	3458	3460	8	0.003	0.195	44:45 hr	1.923	0.307	0.718	0.461	0.434	0.255
A2A04	3464	3462	8	0.021	0.034	20:27 hr	2.230	0.079	1.687	0.119	0.030	0.103
A2A01	3460	3462	8	0.005	0.199	44:54 hr	2.176	0.284	0.843	0.426	0.377	0.257
A29FA	3466	3464	8	0.010	0.008	20:00 hr	1.111	0.047	1.104	0.070	0.010	0.049
A29F7	3468	3464	8	0.024	0.020	20:26 hr	2.006	0.060	1.749	0.090	0.017	0.080
A29F4	3462	3470	8	0.004	0.237	44:58 hr	2.094	0.334	0.754	0.502	0.503	0.282
A29F1	3472	3400	8	0.005	0.340	44:59 hr	2.632	0.371	0.908	0.557	0.598	0.340
A29DA	3474	3476	8	0.009	0.008	20:40 hr	1.075	0.048	1.046	0.073	0.011	0.050
A29D7	3470	3478	8	0.004	0.259	44:58 hr	2.137	0.352	0.753	0.528	0.549	0.295
A29D4	3476	3470	8	0.018	0.015	20:44 hr	1.662	0.055	1.517	0.082	0.014	0.068
A29D1	3478	3472	8	0.003	0.265	44:59 hr	2.073	0.368	0.717	0.552	0.589	0.298
A29CE	3474	3480	8	0.010	0.064	20:45 hr	2.106	0.129	1.239	0.193	0.081	0.144
A29CB	3480	3472	8	0.020	0.072	20:45 hr	2.767	0.115	1.727	0.173	0.065	0.152
A29C8	3482	3474	8	0.018	0.068	20:44 hr	2.640	0.114	1.653	0.171	0.064	0.148
A28B7	3486	3484	8	0.005	0.058	20:39 hr	1.539	0.149	0.838	0.223	0.109	0.136
A28A8	3484	3488	8	0.005	0.060	20:44 hr	1.561	0.151	0.843	0.227	0.113	0.139
A28A5	3488	3490	8	0.003	0.063	20:44 hr	1.410	0.168	0.720	0.252	0.139	0.142

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
A28A2	3490	3492	8	0.009	0.068	20:43 hr	2.022	0.137	1.149	0.206	0.093	0.148
A2893	3496	3494	8	0.004	0.055	20:45 hr	1.474	0.148	0.805	0.222	0.108	0.133
A2890	3494	3498	8	0.006	0.056	20:44 hr	1.683	0.137	0.959	0.205	0.092	0.134
A2879	3502	3500	8	0.004	0.063	20:45 hr	1.431	0.165	0.737	0.248	0.135	0.141
A2876	3504	3502	8	0.028	0.003	20:00 hr	1.177	0.023	1.658	0.035	0.002	0.030
A2873	3498	3502	8	0.005	0.057	20:44 hr	1.580	0.145	0.872	0.218	0.104	0.135
A2870	3500	3506	8	0.015	0.066	20:44 hr	2.405	0.120	1.471	0.179	0.070	0.146
A286D	3506	3508	8	0.037	0.070	20:44 hr	3.413	0.098	2.313	0.147	0.047	0.150
A286A	3508	3510	8	0.010	0.074	20:44 hr	2.209	0.137	1.255	0.206	0.093	0.154
A285B	3514	3512	8	0.008	0.004	20:00 hr	0.821	0.034	0.954	0.051	0.005	0.033
A2858	3512	3516	8	0.010	0.006	20:13 hr	1.010	0.042	1.063	0.062	0.008	0.043
A2855	3516	3518	8	0.011	0.009	20:13 hr	1.208	0.048	1.177	0.073	0.011	0.053
A2846	3518	3520	8	0.015	0.014	20:22 hr	1.513	0.056	1.374	0.083	0.014	0.065
A2843	3520	3522	8	0.010	0.017	20:21 hr	1.409	0.067	1.161	0.101	0.021	0.072
A2840	3492	3522	8	0.010	0.075	20:43 hr	2.161	0.140	1.215	0.210	0.097	0.155
A283D	3522	3524	8	0.010	0.094	20:45 hr	2.366	0.155	1.262	0.232	0.118	0.174
A2823	3436	3526	10	0.003	0.448	45:00 hr	2.249	0.459	0.697	0.551	0.587	0.367
A2820	3524	3528	8	0.018	0.098	20:44 hr	2.938	0.137	1.674	0.205	0.092	0.178
A281D	3528	3526	8	0.017	0.100	20:44 hr	2.849	0.142	1.592	0.213	0.099	0.180
A281A	3526	3530	12	0.002	0.544	44:59 hr	2.078	0.513	0.605	0.513	0.521	0.384
A280F	3532	3530	8	0.012	0.015	20:15 hr	1.423	0.061	1.231	0.092	0.017	0.068
A280C	3534	3532	8	0.011	0.012	20:00 hr	1.326	0.056	1.203	0.083	0.014	0.061
A27FD	3510	3536	12	0.027	0.636	44:59 hr	5.559	0.277	2.202	0.277	0.167	0.417
A27FA	3538	3510	12	0.006	0.561	44:59 hr	3.108	0.386	1.032	0.386	0.315	0.390
A27F7	3530	3538	12	0.003	0.559	45:00 hr	2.256	0.491	0.669	0.491	0.484	0.389
A272D	3542	3540	8	0.005	0.112	44:45 hr	1.871	0.207	0.853	0.310	0.209	0.191
A2711	3546	3544	8	0.006	0.109	44:45 hr	2.015	0.192	0.956	0.288	0.181	0.188
A270E	3544	3542	8	0.004	0.109	20:45 hr	1.748	0.214	0.782	0.321	0.223	0.189
A270B	3548	3540	8	0.026	0.036	20:27 hr	2.482	0.077	1.905	0.116	0.028	0.107
A2705	3550	3444	8	0.012	0.153	44:45 hr	2.867	0.191	1.365	0.287	0.179	0.224
A2702	3540	3550	8	0.003	0.151	20:45 hr	1.803	0.266	0.721	0.399	0.335	0.223
A26EF	3070	3552	8	0.024	0.014	20:15 hr	1.821	0.051	1.731	0.076	0.012	0.067
A26EC	3554	3468	8	0.021	0.018	20:26 hr	1.860	0.058	1.653	0.087	0.016	0.075
A26E9	3552	3554	8	0.014	0.016	20:15 hr	1.552	0.061	1.349	0.091	0.017	0.070
A267D	3558	3556	8	0.004	0.083	20:44 hr	1.617	0.185	0.783	0.278	0.169	0.164
A267A	3560	3556	8	0.028	0.007	20:00 hr	1.537	0.035	1.761	0.053	0.005	0.047
A2677	3556	3562	8	0.004	0.092	20:43 hr	1.731	0.191	0.824	0.286	0.179	0.173
A2674	3564	3546	8	0.000	0.108	20:45 hr	0.766	0.398	0.258	0.596	0.666	0.187
A2671	3562	3566	8	0.005	0.096	20:43 hr	1.859	0.187	0.896	0.280	0.172	0.177
A266E	3566	3564	8	0.003	0.105	44:45 hr	1.494	0.233	0.639	0.350	0.263	0.185
A252D	3604	3602	6	0.020	0.028	20:00 hr	2.177	0.079	1.639	0.158	0.054	0.102
A2520	3602	3606	8	0.008	0.041	20:14 hr	1.728	0.109	1.111	0.163	0.058	0.115
A2517	3606	1718	8	0.026	0.049	20:14 hr	2.711	0.090	1.926	0.134	0.039	0.125
A250E	1718	3608	8	0.026	0.091	20:30 hr	3.234	0.122	1.960	0.182	0.073	0.171
A2505	3608	3610	8	0.010	0.101	20:29 hr	2.392	0.162	1.247	0.242	0.129	0.181
A24E9	3612	3614	8	0.011	0.111	20:40 hr	2.496	0.168	1.275	0.251	0.139	0.190
A24E8	3610	3612	8	0.011	0.107	20:43 hr	2.493	0.164	1.290	0.246	0.132	0.187
A24DC	3616	3614	15	0.004	1.016	45:00 hr	3.066	0.544	0.859	0.435	0.392	0.497
A24DB	3614	3618	15	0.003	1.126	21:00 hr	2.882	0.618	0.762	0.494	0.490	0.524
9E207	3954	3956	8	0.037	0.003	20:00 hr	1.329	0.023	1.904	0.034	0.002	0.031
9E1FC	3960	3958	8	0.052	0.236	20:44 hr	5.473	0.164	2.830	0.246	0.133	0.281
9E1F5	3962	3964	8	0.058	0.003	20:00 hr	1.542	0.020	2.337	0.030	0.002	0.031
9E1EC	3966	3968	8	0.007	0.000	18:00 hr	0.366	0.011	0.771	0.016	0.000	0.009
9E1E9	3970	3972	8	0.004	0.139	20:45 hr	1.799	0.250	0.742	0.375	0.299	0.213
9E1E6	3976	3974	8	0.013	0.015	07:00 hr	1.458	0.060	1.271	0.090	0.017	0.068
9E1E3	3978	3980	8	0.001	0.437	44:15 hr	1.935	0.667	0.441	1.000	1.580	0.388
9E1D7	3984	3982	10	0.016	0.401	44:30 hr	4.102	0.268	1.640	0.321	0.224	0.346
9E1D4	3982	3986	10	0.012	0.410	44:30 hr	3.747	0.291	1.436	0.349	0.261	0.350
9E1CD	3988	3990	8	0.003	0.003	20:00 hr	0.556	0.038	0.609	0.058	0.007	0.030
9E1C6	3992	3990	8	0.003	0.205	20:59 hr	1.945	0.316	0.717	0.474	0.457	0.261
9E1BF	3996	3994	8	0.003	0.012	20:00 hr	0.854	0.074	0.669	0.111	0.026	0.061
9E1B8	4000	3998	8	0.003	0.019	20:00 hr	0.990	0.094	0.686	0.141	0.043	0.078
9E1B1	4002	4004	8	0.003	0.001	20:00 hr	0.418	0.025	0.569	0.037	0.003	0.019

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
9E1AA	4006	4004	8	0.003	0.003	20:00 hr	0.554	0.038	0.612	0.057	0.006	0.030
9E1A7	4010	4008	8	0.012	0.639	21:00 hr	4.223	0.424	1.392	0.635	0.732	0.472
9E1A4	4012	4010	8	0.006	0.298	20:59 hr	2.636	0.334	0.949	0.501	0.501	0.317
9E19D	4014	4016	8	0.003	0.001	19:00 hr	0.341	0.018	0.546	0.027	0.001	0.013
9E196	4018	4016	8	0.003	0.000	20:00 hr	0.306	0.015	0.534	0.023	0.001	0.011
9E18F	4020	4022	8	0.003	0.002	20:00 hr	0.469	0.030	0.584	0.045	0.004	0.023
9E188	4024	4022	8	0.003	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
9E181	4028	4026	8	0.003	0.002	20:00 hr	0.517	0.034	0.603	0.051	0.005	0.026
9E17E	3990	3994	8	0.020	0.208	20:59 hr	3.787	0.195	1.784	0.292	0.186	0.263
9E17B	3994	3998	8	0.003	0.222	20:59 hr	2.016	0.327	0.732	0.491	0.484	0.272
9E174	3998	4030	8	0.004	0.243	20:59 hr	2.093	0.341	0.747	0.511	0.519	0.285
9E16D	4030	4004	8	0.004	0.248	21:00 hr	2.188	0.335	0.787	0.502	0.503	0.288
9E166	4004	4010	8	0.025	0.250	21:00 hr	4.289	0.204	1.971	0.306	0.203	0.290
9E15F	4016	4010	8	0.012	0.106	07:58 hr	2.556	0.159	1.342	0.239	0.125	0.185
9E15C	4022	4016	8	0.009	0.105	07:58 hr	2.336	0.169	1.188	0.254	0.141	0.185
9E155	4026	4022	8	0.004	0.104	08:00 hr	1.726	0.209	0.783	0.313	0.213	0.184
9E14E	4032	4026	8	0.009	0.103	07:58 hr	2.306	0.168	1.178	0.252	0.139	0.182
9E13F	4036	4034	18	0.004	1.231	44:58 hr	3.085	0.571	0.842	0.381	0.308	0.520
9E13C	4040	4038	8	0.003	0.096	20:56 hr	1.596	0.208	0.726	0.311	0.211	0.176
9E139	4044	4042	15	0.003	1.664	21:00 hr	2.915	0.846	0.690	0.676	0.800	0.643
9E136	4042	4046	15	0.007	1.736	21:00 hr	4.446	0.617	1.176	0.494	0.490	0.657
9E133	4046	4048	15	0.002	1.736	21:00 hr	2.189	1.250	0.549	1.000	1.045	0.658
9E130	4048	4050	15	0.006	1.733	21:00 hr	4.148	0.651	1.073	0.521	0.536	0.657
9E12D	4050	3958	15	0.002	1.733	21:00 hr	2.881	0.887	0.675	0.709	0.852	0.657
9E0FE	4072	4074	8	0.001	0.058	20:30 hr	0.972	0.207	0.443	0.311	0.209	0.136
9E0F7	4074	4076	8	0.006	0.075	20:43 hr	1.862	0.156	0.990	0.233	0.120	0.155
9E0F0	4076	4078	8	0.028	0.098	20:44 hr	3.393	0.124	2.036	0.186	0.075	0.178
9E0E9	4078	4080	8	0.022	0.116	20:44 hr	3.302	0.142	1.843	0.213	0.100	0.195
9E0E2	4080	4038	10	0.006	0.127	20:45 hr	2.038	0.194	0.971	0.233	0.119	0.191
9E0DB	4038	4082	10	0.003	0.228	20:57 hr	1.976	0.302	0.742	0.362	0.281	0.258
9E0D4	4082	4084	10	0.006	0.233	20:58 hr	2.503	0.258	1.021	0.310	0.208	0.261
9E0D1	4086	4084	8	0.005	0.075	20:54 hr	1.675	0.168	0.854	0.252	0.140	0.155
9E0CA	4084	4088	10	0.006	0.311	20:59 hr	2.697	0.302	1.012	0.363	0.281	0.303
9E0C3	4088	4090	8	0.003	0.581	20:57 hr	2.573	0.667	0.693	1.000	1.335	0.449
9E0C0	4092	4088	8	0.003	0.003	20:00 hr	0.540	0.036	0.610	0.054	0.006	0.028
9E0B9	4094	4088	8	0.004	0.270	20:45 hr	2.184	0.358	0.764	0.537	0.564	0.301
9E0B6	4096	4094	8	0.004	0.046	20:45 hr	1.309	0.142	0.730	0.213	0.100	0.121
9E0AF	4098	4094	8	0.003	0.222	20:45 hr	1.980	0.332	0.715	0.497	0.496	0.272
9E0AC	4100	4098	8	0.003	0.219	20:45 hr	1.784	0.356	0.625	0.534	0.559	0.270
9E0A1	4102	4100	8	0.003	0.002	20:00 hr	0.523	0.034	0.609	0.051	0.005	0.027
9E09E	4104	4100	8	0.003	0.011	20:00 hr	0.837	0.070	0.673	0.106	0.023	0.058
9E097	4070	4100	8	0.003	0.206	20:45 hr	1.967	0.315	0.727	0.472	0.453	0.262
9E094	4106	4070	8	0.006	0.132	20:44 hr	2.096	0.216	0.934	0.323	0.226	0.208
9E089	4108	4072	8	0.006	0.047	20:29 hr	1.619	0.123	0.974	0.185	0.075	0.122
9E082	778	4110	8	0.002	0.133	20:47 hr	1.298	0.309	0.483	0.464	0.440	0.209
9E07B	4110	4112	8	0.005	0.134	20:58 hr	1.981	0.227	0.859	0.341	0.250	0.210
9E077	4112	4114	8	0.005	0.140	20:58 hr	1.992	0.233	0.852	0.350	0.262	0.214
9E06C	4116	4114	8	0.002	0.020	20:00 hr	0.870	0.105	0.568	0.158	0.054	0.079
9E069	4118	4114	8	0.001	0.011	07:00 hr	0.601	0.092	0.420	0.138	0.041	0.060
9E062	4114	4120	8	0.006	0.168	20:45 hr	2.261	0.243	0.947	0.364	0.283	0.235
9E05B	4122	4120	8	0.010	0.195	20:43 hr	2.850	0.228	1.232	0.343	0.253	0.254
9E058	4124	4120	8	0.003	0.023	07:00 hr	1.044	0.101	0.696	0.152	0.050	0.084
9E051	4120	4126	8	0.005	0.380	20:45 hr	2.608	0.410	0.889	0.615	0.698	0.360
9E04A	4128	4126	8	0.003	0.003	07:00 hr	0.519	0.038	0.574	0.056	0.006	0.029
9E043	4126	4130	8	0.009	0.388	20:45 hr	3.323	0.342	1.184	0.513	0.523	0.364
9E03C	4132	4130	8	0.004	0.003	07:00 hr	0.632	0.038	0.697	0.057	0.006	0.032
9E035	4130	4134	8	0.015	0.390	20:45 hr	4.031	0.296	1.532	0.444	0.407	0.365
9E032	4134	4136	8	0.009	0.390	20:55 hr	3.324	0.344	1.182	0.516	0.527	0.365
9E02F	4140	4138	12	0.025	0.400	31:29 hr	4.701	0.224	2.085	0.224	0.111	0.328
9E028	4138	4142	15	0.004	0.403	31:30 hr	2.465	0.324	0.904	0.260	0.148	0.308
9E01D	4144	4142	8	0.003	0.015	07:00 hr	0.911	0.083	0.674	0.124	0.033	0.068
9E01A	4146	4142	8	0.003	0.020	07:00 hr	1.010	0.096	0.694	0.143	0.044	0.079
9E00B	4142	4148	15	0.009	0.438	31:41 hr	3.335	0.278	1.330	0.222	0.108	0.321

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
9E008	4150	4148	8	0.030	0.007	07:00 hr	1.566	0.034	1.823	0.051	0.005	0.046
9E005	4152	4148	8	0.003	0.018	07:00 hr	0.974	0.090	0.690	0.135	0.039	0.075
9E002	4148	4154	15	0.003	0.462	31:44 hr	2.219	0.386	0.741	0.309	0.207	0.331
9DFFB	4154	4156	15	0.013	0.464	31:50 hr	3.781	0.265	1.546	0.212	0.098	0.331
9DFFO	4158	4156	8	0.003	0.027	07:00 hr	1.107	0.110	0.708	0.165	0.059	0.092
9DFE9	4160	4156	8	0.030	0.028	20:00 hr	2.407	0.067	1.992	0.100	0.021	0.094
9DFE2	4156	4162	18	0.001	0.511	31:45 hr	1.498	0.509	0.434	0.339	0.248	0.331
9DFD7	4164	4162	8	0.030	0.029	20:00 hr	2.422	0.067	1.997	0.101	0.021	0.095
9DFD4	4166	4162	8	0.003	0.019	07:00 hr	0.981	0.093	0.686	0.139	0.041	0.076
9DFCD	4162	4168	18	0.004	0.550	32:02 hr	2.479	0.373	0.850	0.249	0.136	0.343
9DFC2	4170	4168	8	0.003	0.014	07:00 hr	0.910	0.082	0.677	0.123	0.032	0.067
9DFBF	4172	4168	8	0.030	0.022	20:00 hr	2.221	0.059	1.963	0.088	0.016	0.082
9DFB8	4168	4136	18	0.002	0.580	32:11 hr	1.886	0.472	0.569	0.314	0.214	0.353
9DFA7	4176	4174	8	0.018	0.030	20:00 hr	2.032	0.078	1.556	0.116	0.029	0.097
9DF96	4182	4180	8	0.003	0.122	20:44 hr	1.673	0.240	0.705	0.359	0.276	0.200
9DF8F	3958	4180	16	0.005	1.960	21:00 hr	3.998	0.712	0.991	0.534	0.558	0.687
9DF84	4184	4050	8	0.004	0.002	20:00 hr	0.485	0.029	0.609	0.044	0.004	0.023
9DF79	4186	4048	8	0.003	0.001	20:00 hr	0.402	0.028	0.512	0.043	0.003	0.020
9DF62	4188	4044	8	0.053	0.005	20:00 hr	1.727	0.026	2.313	0.039	0.003	0.039
9DF5F	4190	4044	8	0.009	0.083	20:44 hr	2.149	0.152	1.157	0.228	0.114	0.164
9DF58	4192	4044	15	0.013	1.579	20:59 hr	5.346	0.499	1.561	0.399	0.336	0.626
9DF4A	4194	4192	15	0.012	1.344	21:00 hr	5.009	0.464	1.516	0.372	0.294	0.575
9DF47	4196	4194	8	0.003	0.003	20:00 hr	0.562	0.042	0.586	0.064	0.008	0.032
9DF40	3956	4194	15	0.014	1.341	21:00 hr	5.335	0.443	1.655	0.354	0.269	0.574
9DF39	4198	3956	15	0.011	1.341	21:00 hr	4.782	0.480	1.423	0.384	0.313	0.574
9DF32	4200	4198	8	0.038	0.005	20:00 hr	1.543	0.028	1.998	0.041	0.003	0.039
9DF2B	4202	4198	15	0.004	1.339	21:00 hr	3.305	0.636	0.864	0.508	0.514	0.574
9DF28	4204	4202	8	0.021	0.005	20:00 hr	1.291	0.033	1.529	0.049	0.005	0.041
9DF21	3618	4202	15	0.004	1.336	21:00 hr	3.316	0.633	0.868	0.506	0.511	0.573
9DF13	4206	3618	8	0.004	0.210	20:45 hr	2.010	0.314	0.744	0.471	0.451	0.264
9DF0C	4208	4206	8	0.005	0.006	07:00 hr	0.808	0.050	0.774	0.075	0.011	0.044
9DF05	4210	4206	8	0.004	0.206	20:45 hr	2.047	0.305	0.767	0.457	0.428	0.262
9DEFE	4212	4210	8	0.005	0.008	07:00 hr	0.862	0.058	0.768	0.087	0.015	0.051
9DEF7	4214	4210	8	0.010	0.195	20:57 hr	2.927	0.224	1.277	0.337	0.244	0.255
9DEF0	4216	4214	8	0.004	0.158	20:53 hr	1.980	0.256	0.808	0.383	0.312	0.228
9DEE9	4220	4218	6	0.006	0.008	20:00 hr	0.974	0.060	0.848	0.120	0.030	0.055
9DEE2	4218	4214	6	0.003	0.009	20:14 hr	0.771	0.073	0.607	0.145	0.046	0.056
9DED7	4224	4222	8	0.003	0.016	20:00 hr	0.948	0.086	0.689	0.129	0.035	0.071
9DED4	4222	4214	8	0.005	0.026	20:15 hr	1.250	0.099	0.842	0.149	0.048	0.091
9DEBB	4230	4228	8	0.000	0.006	20:00 hr	0.090	0.221	0.040	0.332	0.238	0.043
9DEB4	4228	4232	8	0.017	0.007	20:00 hr	1.252	0.038	1.374	0.057	0.006	0.045
9DEAD	4234	4232	8	0.001	0.001	20:00 hr	0.319	0.032	0.381	0.048	0.005	0.020
9DEA6	4232	4236	8	0.016	0.008	20:09 hr	1.328	0.043	1.370	0.065	0.008	0.051
9DEA3	4238	4236	8	0.009	0.006	20:14 hr	0.957	0.042	1.001	0.063	0.008	0.042
9DE9C	4236	4240	8	0.014	0.015	20:27 hr	1.505	0.059	1.330	0.088	0.016	0.068
9DE95	4242	4240	8	0.003	0.001	20:00 hr	0.411	0.024	0.566	0.037	0.002	0.018
9DE8E	4240	4244	8	0.017	0.016	20:24 hr	1.684	0.059	1.488	0.088	0.016	0.072
9DE8B	4246	4244	8	0.004	0.021	20:29 hr	1.133	0.092	0.792	0.139	0.041	0.082
9DE84	4244	4248	8	0.003	0.038	20:43 hr	1.225	0.131	0.715	0.196	0.084	0.110
9DE7D	4250	4248	8	0.006	0.001	20:00 hr	0.511	0.021	0.752	0.032	0.002	0.019
9DE76	4248	4252	8	0.010	0.040	20:40 hr	1.815	0.102	1.206	0.153	0.051	0.112
9DE6F	4254	4252	8	0.006	0.002	20:00 hr	0.634	0.031	0.776	0.046	0.004	0.027
9DE68	4252	4256	8	0.013	0.042	20:42 hr	2.003	0.099	1.351	0.149	0.048	0.116
9DE65	4258	4256	8	0.004	0.036	20:44 hr	1.222	0.125	0.730	0.188	0.077	0.107
9DE5E	4256	4260	8	0.003	0.078	20:43 hr	1.485	0.188	0.713	0.282	0.174	0.158
9DE57	4262	4260	8	0.003	0.004	20:00 hr	0.615	0.046	0.615	0.069	0.010	0.036
9DE50	4260	4264	8	0.003	0.082	20:45 hr	1.523	0.192	0.723	0.288	0.181	0.163
9DE49	4266	4264	8	0.011	0.002	20:00 hr	0.795	0.027	1.045	0.040	0.003	0.027
9DE42	4264	3978	8	0.003	0.084	44:45 hr	1.488	0.199	0.693	0.299	0.194	0.165
9DE3B	4268	3980	8	0.004	0.001	20:00 hr	0.441	0.025	0.602	0.037	0.003	0.019
9DE34	3980	4270	10	0.003	0.422	44:15 hr	2.104	0.462	0.651	0.554	0.593	0.356
9DE2D	4272	4270	8	0.001	0.001	20:00 hr	0.238	0.031	0.293	0.046	0.004	0.017
9DE26	4270	4274	10	0.003	0.409	44:15 hr	2.221	0.431	0.706	0.517	0.529	0.349

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
9DE1F	4274	4276	10	0.003	0.419	44:15 hr	2.123	0.456	0.660	0.547	0.580	0.354
9DE18	4276	4278	10	0.003	0.402	44:15 hr	2.214	0.427	0.706	0.512	0.520	0.347
9DE11	4278	3984	10	0.014	0.392	44:30 hr	3.925	0.272	1.557	0.326	0.230	0.342
9DE02	4280	3982	8	0.006	0.006	07:00 hr	0.869	0.046	0.873	0.068	0.009	0.043
9DDFF	4282	3982	8	0.006	0.006	07:00 hr	0.884	0.047	0.875	0.070	0.010	0.044
9DDF4	3986	4284	10	0.020	0.410	44:30 hr	4.489	0.255	1.844	0.306	0.203	0.350
9DDE9	4286	4284	8	0.008	0.002	20:00 hr	0.668	0.026	0.892	0.039	0.003	0.025
9DDE6	4288	4284	8	0.006	0.001	20:00 hr	0.554	0.023	0.781	0.035	0.002	0.021
9DDDF	4284	4290	10	0.014	0.411	44:30 hr	3.923	0.282	1.527	0.338	0.246	0.351
9DDD4	4292	4290	8	0.007	0.002	20:00 hr	0.631	0.026	0.847	0.038	0.003	0.024
9DDD1	4294	4290	8	0.001	0.002	20:00 hr	0.322	0.037	0.360	0.055	0.006	0.022
9DDCA	4290	4296	10	0.011	0.412	44:30 hr	3.624	0.299	1.368	0.359	0.275	0.351
9DDC3	4298	4296	8	0.000	0.233	20:57 hr	1.032	0.667	0.226	1.000	1.602	0.279
9DDC0	4300	4296	8	0.002	0.001	19:00 hr	0.302	0.024	0.426	0.035	0.002	0.015
9ddb9	4296	4302	10	0.011	0.639	44:30 hr	4.055	0.382	1.358	0.458	0.430	0.441
9ddb2	4304	4302	8	0.004	0.002	20:00 hr	0.561	0.032	0.679	0.047	0.004	0.026
9DDAB	4302	4306	10	0.017	0.648	44:30 hr	4.769	0.341	1.684	0.410	0.352	0.445
9DDA4	4306	4308	12	0.005	0.720	44:30 hr	3.157	0.460	0.963	0.460	0.434	0.445
9DD9D	3536	ORGETT_WF	24	0.003	4.754	45:00 hr	4.089	1.114	0.814	0.557	0.598	0.964
9DD96	4312	3536	24	0.008	4.109	21:15 hr	5.585	0.782	1.302	0.391	0.323	0.893
9DD8F	4314	4312	24	0.002	4.105	21:00 hr	3.460	1.133	0.685	0.566	0.614	0.892
9DD88	4316	4314	24	0.005	4.107	20:59 hr	4.718	0.888	1.035	0.444	0.407	0.892
9DD81	4318	4316	24	0.002	4.092	21:00 hr	3.198	1.206	0.619	0.603	0.677	0.891
9DD7A	4308	4318	24	0.004	4.093	21:00 hr	4.327	0.946	0.922	0.473	0.455	0.891
9DD73	4320	4308	21	0.023	3.438	21:15 hr	8.028	0.559	2.222	0.320	0.221	0.847
9DD6C	4322	4320	21	0.009	3.437	21:14 hr	5.789	0.712	1.415	0.407	0.347	0.847
9DD65	4324	4322	21	0.004	3.442	45:00 hr	4.107	0.929	0.891	0.531	0.553	0.848
9DD5E	4326	4324	21	0.004	3.453	45:00 hr	4.185	0.917	0.912	0.524	0.541	0.849
9DD57	4328	4326	21	0.005	3.455	45:00 hr	4.601	0.852	1.035	0.487	0.478	0.850
9DD50	4330	4328	21	0.007	3.464	45:00 hr	5.142	0.783	1.201	0.448	0.413	0.851
9DD49	4332	4330	8	0.014	0.008	20:00 hr	1.244	0.044	1.275	0.066	0.009	0.049
9DD42	4334	4330	21	0.005	3.467	45:00 hr	4.753	0.833	1.080	0.476	0.459	0.851
9DD3B	1724	4334	8	0.026	0.007	20:14 hr	1.485	0.035	1.700	0.053	0.005	0.046
9DD34	4336	4334	21	0.006	3.465	45:00 hr	4.926	0.810	1.134	0.463	0.437	0.851
9DD2D	4338	4336	8	0.003	0.003	20:00 hr	0.549	0.037	0.609	0.056	0.006	0.029
9DD26	4226	4336	21	0.006	3.470	45:00 hr	4.768	0.831	1.084	0.475	0.458	0.851
9DD1F	4340	4226	18	0.013	1.267	44:59 hr	4.934	0.414	1.598	0.276	0.167	0.528
9DD18	4342	4340	8	0.030	0.000	19:00 hr	0.580	0.008	1.451	0.011	0.000	0.009
9DD11	4034	4340	18	0.012	1.267	44:59 hr	4.861	0.419	1.565	0.279	0.170	0.528
9DD0E	4344	4034	8	0.013	0.037	20:36 hr	1.936	0.094	1.343	0.141	0.043	0.109
9DCFF	4346	4036	8	0.002	0.002	20:00 hr	0.396	0.031	0.484	0.046	0.004	0.022
9DCFC	4348	4036	8	0.003	0.019	20:00 hr	0.923	0.098	0.626	0.147	0.047	0.077
9DCF5	4350	4036	18	0.004	1.213	44:45 hr	3.164	0.554	0.877	0.370	0.291	0.516
9DCEE	4352	4350	8	0.002	0.002	20:00 hr	0.403	0.038	0.445	0.057	0.006	0.025
9DCE7	4354	4350	18	0.004	1.208	44:45 hr	3.180	0.550	0.884	0.367	0.287	0.515
9DCE0	4356	4354	8	0.004	0.017	20:00 hr	1.036	0.084	0.763	0.125	0.034	0.073
9DCD9	4358	4354	18	0.005	1.193	44:45 hr	3.423	0.517	0.984	0.344	0.255	0.511
9DCD2	4360	4358	8	0.003	0.022	20:00 hr	1.042	0.101	0.696	0.151	0.050	0.084
9DCCB	4362	4358	18	0.003	1.170	44:45 hr	3.022	0.558	0.834	0.372	0.295	0.506
9DCC0	4364	4362	8	0.015	0.019	20:00 hr	1.675	0.066	1.395	0.099	0.020	0.078
9DCBD	4366	4362	8	0.004	0.011	07:00 hr	0.864	0.071	0.694	0.106	0.024	0.059
9DCB6	4368	4362	18	0.004	1.146	20:59 hr	3.039	0.548	0.847	0.365	0.285	0.501
9DCAB	4370	4368	8	0.025	0.006	20:00 hr	1.441	0.035	1.666	0.052	0.005	0.045
9DCA8	4372	4368	8	0.014	0.030	07:00 hr	1.895	0.081	1.416	0.122	0.032	0.097
9DCA1	3974	4368	18	0.004	1.117	20:59 hr	3.138	0.525	0.894	0.350	0.263	0.495
9DC96	782	3974	18	0.004	1.109	21:00 hr	3.265	0.507	0.947	0.338	0.246	0.493
9DC93	4374	4136	8	0.005	0.132	20:38 hr	2.008	0.222	0.880	0.334	0.240	0.208
9DC88	4376	784	8	0.004	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
9DC85	4378	782	8	0.013	0.017	07:00 hr	1.535	0.063	1.302	0.095	0.019	0.073
9DC7E	4136	782	18	0.003	1.096	20:59 hr	2.797	0.563	0.769	0.375	0.300	0.489
9D5AD	4380	4298	8	0.001	0.233	21:00 hr	1.030	0.667	0.348	1.000	1.060	0.279
9D5A6	4382	4380	8	0.013	0.228	20:58 hr	3.290	0.231	1.415	0.346	0.257	0.276
9D59C	4386	4384	8	0.008	0.002	20:00 hr	0.701	0.027	0.911	0.041	0.003	0.026

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
9D595	4384	4388	8	0.016	0.007	20:13 hr	1.249	0.039	1.357	0.059	0.007	0.046
9D58E	4388	4390	8	0.009	0.016	20:14 hr	1.343	0.067	1.106	0.101	0.021	0.071
9D588	4394	4392	8	0.014	0.002	20:00 hr	0.854	0.024	1.185	0.036	0.002	0.026
9D581	4392	4396	8	0.010	0.005	20:14 hr	0.984	0.038	1.080	0.057	0.006	0.040
9D57A	4396	4398	8	0.014	0.011	20:14 hr	1.388	0.050	1.327	0.075	0.012	0.058
9D573	4402	4400	8	0.004	0.006	20:00 hr	0.729	0.049	0.703	0.074	0.011	0.041
9D56C	4400	4404	8	0.002	0.011	20:14 hr	0.674	0.083	0.499	0.124	0.033	0.058
9D565	4404	4406	8	0.009	0.014	20:28 hr	1.289	0.062	1.103	0.094	0.018	0.066
9D55E	4406	4408	8	0.022	0.015	20:27 hr	1.806	0.053	1.675	0.080	0.013	0.069
9D557	4408	4410	8	0.014	0.018	20:26 hr	1.587	0.064	1.336	0.097	0.019	0.075
9D550	4410	4412	8	0.015	0.021	20:39 hr	1.711	0.068	1.404	0.102	0.022	0.080
9D549	4412	4414	8	0.017	0.023	20:28 hr	1.847	0.069	1.497	0.104	0.023	0.085
9D542	4414	4416	8	0.020	0.029	20:35 hr	2.098	0.074	1.646	0.111	0.026	0.095
9D53B	4390	4398	8	0.019	0.023	20:29 hr	1.933	0.066	1.602	0.100	0.021	0.084
9D534	4398	4416	8	0.020	0.039	20:38 hr	2.297	0.085	1.675	0.128	0.035	0.111
9D52D	4416	4382	8	0.020	0.073	20:36 hr	2.763	0.117	1.711	0.175	0.067	0.154
9D526	4420	4418	8	0.024	0.007	20:00 hr	1.486	0.037	1.655	0.056	0.006	0.048
9D51F	4418	4422	8	0.019	0.017	20:15 hr	1.756	0.058	1.559	0.087	0.016	0.073
9D518	4422	4424	8	0.003	0.025	20:30 hr	0.982	0.115	0.614	0.172	0.064	0.089
9D511	4424	4426	8	0.004	0.029	20:28 hr	1.149	0.113	0.724	0.169	0.062	0.096
9D50B	4428	4426	8	0.059	0.001	19:00 hr	1.099	0.012	2.183	0.018	0.001	0.018
9D504	4432	4430	8	0.028	0.003	20:00 hr	1.207	0.024	1.667	0.036	0.002	0.031
9D4FD	4434	4430	8	0.009	0.005	20:00 hr	0.929	0.038	1.024	0.057	0.006	0.038
9D4F6	4430	4436	8	0.009	0.013	20:15 hr	1.267	0.060	1.104	0.090	0.017	0.063
9D4EF	4436	4438	8	0.003	0.021	20:25 hr	1.011	0.098	0.686	0.147	0.047	0.081
9D4E8	4426	4438	8	0.021	0.031	20:28 hr	2.195	0.076	1.702	0.113	0.027	0.099
9D4E1	4438	4440	8	0.004	0.057	20:45 hr	1.481	0.152	0.798	0.228	0.114	0.136
9D4DA	4440	4442	8	0.003	0.061	20:44 hr	1.371	0.167	0.702	0.250	0.137	0.139
9D4D3	4442	4444	8	0.004	0.063	20:42 hr	1.455	0.165	0.749	0.248	0.135	0.143
9D4CC	4448	4446	8	0.019	0.020	20:00 hr	1.855	0.062	1.591	0.093	0.018	0.079
9D4C5	4446	4444	8	0.018	0.042	20:14 hr	2.282	0.091	1.609	0.136	0.040	0.116
9D4BE	4444	4450	8	0.003	0.115	20:46 hr	1.558	0.242	0.654	0.363	0.281	0.194
9D4B8	4454	4452	8	0.010	0.002	20:00 hr	0.784	0.027	1.032	0.040	0.003	0.027
9D4B1	4452	4456	8	0.009	0.007	20:13 hr	1.014	0.044	1.033	0.067	0.009	0.045
9D4AA	4456	4458	8	0.009	0.010	20:14 hr	1.172	0.054	1.076	0.082	0.014	0.056
9D4A3	4458	4450	8	0.027	0.013	20:27 hr	1.826	0.047	1.812	0.070	0.010	0.063
9D49C	4450	4460	8	0.003	0.130	20:51 hr	1.728	0.246	0.719	0.368	0.289	0.206
9D495	4460	4462	8	0.003	0.134	20:56 hr	1.675	0.256	0.682	0.384	0.313	0.209
9D48E	4462	4382	8	0.004	0.145	20:57 hr	1.873	0.251	0.772	0.376	0.300	0.218
9D471	4464	4466	8	0.009	0.004	20:00 hr	0.865	0.036	0.979	0.054	0.006	0.036
9D46E	4468	4464	8	0.005	0.001	19:59 hr	0.495	0.023	0.702	0.035	0.002	0.019
9D46B	4468	4470	8	0.010	0.002	19:56 hr	0.692	0.023	0.997	0.034	0.002	0.022
9D468	4470	4472	8	0.011	0.005	20:00 hr	0.968	0.036	1.088	0.055	0.006	0.038
9D465	4472	4474	8	0.005	0.008	20:13 hr	0.866	0.055	0.794	0.082	0.014	0.049
9D462	4474	4476	8	0.008	0.012	20:23 hr	1.164	0.062	1.000	0.093	0.018	0.062
9D45B	4478	4480	8	0.006	0.004	20:14 hr	0.757	0.040	0.816	0.059	0.007	0.036
9D458	4482	4478	8	0.010	0.001	20:00 hr	0.646	0.020	0.978	0.030	0.002	0.020
9D451	4480	4484	8	0.011	0.006	20:14 hr	1.081	0.042	1.133	0.063	0.008	0.045
9D43A	4486	4488	8	0.009	0.010	20:15 hr	1.145	0.056	1.037	0.084	0.014	0.057
9D437	4490	4486	8	0.005	0.007	20:00 hr	0.849	0.054	0.786	0.080	0.013	0.047
9D434	4492	4490	8	0.003	0.002	20:00 hr	0.465	0.029	0.588	0.043	0.004	0.022
9D431	4492	4494	8	0.006	0.002	19:57 hr	0.599	0.028	0.768	0.042	0.003	0.025
9D42E	4494	4496	8	0.004	0.007	20:00 hr	0.751	0.054	0.691	0.081	0.014	0.045
9D417	4498	4484	8	0.028	0.027	20:26 hr	2.333	0.066	1.937	0.099	0.021	0.093
9D414	4500	4498	8	0.009	0.019	20:24 hr	1.400	0.072	1.112	0.108	0.025	0.076
9D411	4502	4500	8	0.010	0.010	20:20 hr	1.195	0.054	1.105	0.080	0.013	0.056
9D40E	4504	4502	8	0.009	0.007	20:15 hr	1.048	0.046	1.046	0.069	0.010	0.047
9D40B	4506	4504	8	0.010	0.005	20:00 hr	0.962	0.038	1.054	0.058	0.007	0.039
9D408	4508	4506	8	0.006	0.002	19:59 hr	0.598	0.029	0.761	0.043	0.003	0.025
9D405	4508	4466	8	0.012	0.003	19:59 hr	0.893	0.029	1.137	0.043	0.004	0.031
9D3FE	4466	4476	8	0.015	0.010	20:15 hr	1.384	0.049	1.342	0.073	0.011	0.057
9D3F7	4476	4496	8	0.009	0.027	20:27 hr	1.538	0.088	1.102	0.132	0.037	0.093
9D3F0	4496	4510	8	0.020	0.038	20:29 hr	2.271	0.084	1.666	0.126	0.034	0.109

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
9D3E9	4510	4512	8	0.013	0.042	20:40 hr	2.024	0.098	1.370	0.147	0.047	0.115
9D3DE	4514	4516	8	0.005	0.144	20:45 hr	2.030	0.235	0.865	0.352	0.266	0.217
9D3D7	4520	4518	8	0.004	0.044	20:44 hr	1.296	0.139	0.732	0.209	0.095	0.119
9D3D4	4518	4522	8	0.003	0.046	20:45 hr	1.245	0.146	0.685	0.219	0.105	0.120
9D3CD	4522	4524	8	0.014	0.047	20:42 hr	2.139	0.103	1.414	0.154	0.052	0.123
9D3C6	4524	4526	8	0.020	0.049	20:43 hr	2.476	0.095	1.702	0.143	0.044	0.125
9D3BB	4528	4526	8	0.019	0.038	20:44 hr	2.253	0.085	1.647	0.127	0.035	0.109
9D3B8	4526	4512	8	0.004	0.087	20:44 hr	1.678	0.187	0.807	0.281	0.173	0.168
9D3AA	4512	4530	8	0.003	0.131	20:44 hr	1.620	0.258	0.658	0.387	0.317	0.207
9D3A3	4530	4532	8	0.004	0.135	20:45 hr	1.833	0.241	0.771	0.361	0.279	0.210
9D39C	4534	4532	6	0.039	0.004	07:00 hr	1.543	0.027	2.010	0.054	0.006	0.039
9D395	4532	4536	8	0.003	0.139	20:45 hr	1.781	0.251	0.733	0.377	0.302	0.213
9D38E	4536	4538	8	0.003	0.140	20:45 hr	1.723	0.260	0.698	0.389	0.321	0.214
9D387	4538	4540	8	0.004	0.142	20:59 hr	1.897	0.244	0.793	0.366	0.285	0.215
9D380	4540	4516	8	0.018	0.143	20:59 hr	3.246	0.167	1.665	0.250	0.137	0.217
9D375	4542	2150	8	0.015	0.183	21:00 hr	3.281	0.197	1.536	0.295	0.190	0.246
9D368	4548	2150	8	0.003	0.287	20:59 hr	2.139	0.383	0.730	0.574	0.627	0.311
9D35C	4516	4548	8	0.004	0.286	20:58 hr	2.283	0.363	0.795	0.544	0.575	0.311
9C9D7	4552	4550	8	0.024	0.026	20:36 hr	2.178	0.068	1.786	0.102	0.022	0.091
9C900	4556	4554	8	0.010	0.004	20:00 hr	0.936	0.036	1.059	0.054	0.006	0.037
9C8FD	4554	4558	8	0.023	0.007	20:14 hr	1.444	0.037	1.621	0.055	0.006	0.047
9C8FA	4558	4560	8	0.015	0.013	20:14 hr	1.498	0.055	1.372	0.082	0.014	0.064
9C8F7	4562	4552	8	0.018	0.003	20:00 hr	0.967	0.024	1.333	0.036	0.002	0.028
9C8F4	4564	4558	8	0.019	0.004	20:00 hr	1.157	0.030	1.432	0.045	0.004	0.036
9C8F1	4566	4568	8	0.018	0.003	20:00 hr	1.045	0.027	1.370	0.040	0.003	0.032
9C8E2	4560	4568	8	0.007	0.016	20:22 hr	1.231	0.070	0.993	0.105	0.023	0.070
9C8DF	4568	4552	8	0.009	0.021	20:31 hr	1.462	0.077	1.119	0.116	0.029	0.082
9C763	4570	4572	6	0.030	0.014	07:00 hr	2.013	0.051	1.912	0.101	0.021	0.070
9C750	4572	4372	8	0.098	0.030	07:00 hr	3.690	0.051	3.488	0.077	0.012	0.097
9C748	4574	4572	6	0.021	0.013	07:00 hr	1.744	0.055	1.587	0.110	0.025	0.069
9C0F1	4090	2140	10	0.003	0.582	20:58 hr	2.417	0.538	0.710	0.646	0.749	0.420
9C0EE	2140	2136	10	0.003	0.585	21:00 hr	2.416	0.541	0.709	0.649	0.754	0.421
9C0EB	2136	2132	10	0.003	0.588	20:59 hr	2.422	0.542	0.710	0.651	0.758	0.423
9C0E8	2132	4580	10	0.003	0.592	20:59 hr	2.435	0.543	0.713	0.651	0.758	0.424
9C0E5	4580	4582	10	0.003	0.592	21:00 hr	2.426	0.544	0.710	0.653	0.762	0.424
9C0E2	4582	4584	10	0.003	0.595	21:00 hr	2.427	0.546	0.710	0.656	0.766	0.425
9C0DF	4584	2120	10	0.004	0.600	20:59 hr	2.843	0.482	0.865	0.578	0.634	0.427
9C0DC	2120	2124	10	0.003	0.608	21:00 hr	2.440	0.555	0.710	0.666	0.782	0.430
9C0D9	2124	2128	10	0.003	0.611	20:59 hr	2.446	0.556	0.712	0.667	0.784	0.431
9C0D6	2128	LS7	10	0.011	0.682	21:00 hr	4.192	0.392	1.388	0.470	0.449	0.457
9C0D3	4588	4140	12	0.032	0.398	31:15 hr	5.169	0.209	2.379	0.209	0.096	0.327
9C0D0	4590	4588	12	0.003	0.389	31:15 hr	2.193	0.381	0.732	0.381	0.308	0.323
9C0CD	4592	4590	12	0.003	0.328	20:00 hr	2.092	0.347	0.732	0.347	0.259	0.295
9C01F	4596	4374	8	0.035	0.127	20:30 hr	3.977	0.133	2.302	0.199	0.087	0.204
9BF07	4598	4596	8	0.023	0.109	20:29 hr	3.292	0.136	1.879	0.204	0.092	0.188
9BC9E	4600	4602	8	0.009	0.005	20:00 hr	0.967	0.040	1.037	0.060	0.007	0.041
9BC9B	4602	4604	8	0.020	0.022	20:13 hr	1.948	0.066	1.625	0.098	0.020	0.084
9BC98	4604	4606	8	0.009	0.032	20:15 hr	1.610	0.095	1.109	0.143	0.044	0.100
9BC95	4606	4608	8	0.015	0.041	20:23 hr	2.135	0.093	1.486	0.140	0.042	0.114
9BC6B	4612	4610	8	0.031	0.003	20:00 hr	1.184	0.022	1.739	0.032	0.002	0.028
9BC64	4616	4614	8	0.005	0.090	20:41 hr	1.808	0.182	0.884	0.273	0.163	0.171
9BC52	4620	4618	8	0.032	0.024	20:14 hr	2.319	0.060	2.018	0.091	0.017	0.086
9BC4F	4610	4622	8	0.020	0.012	20:13 hr	1.618	0.050	1.551	0.075	0.011	0.062
9BC4C	4622	4616	8	0.006	0.083	20:34 hr	1.896	0.166	0.973	0.250	0.137	0.164
9BC49	4608	4622	8	0.004	0.057	20:28 hr	1.443	0.154	0.773	0.230	0.116	0.135
9BC46	4624	4608	8	0.021	0.009	20:00 hr	1.504	0.042	1.575	0.063	0.008	0.053
9BC40	4618	4626	8	0.013	0.031	20:14 hr	1.840	0.085	1.344	0.127	0.035	0.099
9BC39	4628	4620	8	0.008	0.006	20:00 hr	0.925	0.044	0.944	0.066	0.009	0.043
9BC32	4626	4630	8	0.008	0.043	20:26 hr	1.697	0.113	1.066	0.170	0.063	0.117
9BC2F	4614	4632	8	0.006	0.095	20:40 hr	1.951	0.179	0.963	0.268	0.157	0.175
9BC2C	4636	4634	8	0.040	0.081	20:32 hr	3.652	0.103	2.417	0.154	0.051	0.161
9BC29	4630	4636	8	0.010	0.068	20:28 hr	2.148	0.131	1.250	0.197	0.085	0.147
9BC16	4634	4122	8	0.012	0.188	20:42 hr	3.019	0.213	1.353	0.320	0.222	0.249

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
9BC0F	4632	4634	8	0.013	0.102	20:40 hr	2.658	0.151	1.435	0.227	0.113	0.182
9BC0C	4638	780	8	0.000	0.117	20:30 hr	0.520	0.667	0.149	1.000	1.225	0.196
9BC09	4640	4638	8	0.004	0.105	20:30 hr	1.754	0.207	0.798	0.311	0.210	0.185
9BC06	4642	4640	8	0.019	0.041	20:15 hr	2.273	0.089	1.618	0.134	0.038	0.114
9BC03	4646	4644	8	0.023	0.011	20:00 hr	1.657	0.046	1.661	0.069	0.009	0.059
9BC00	4644	4648	8	0.007	0.026	20:14 hr	1.382	0.093	0.964	0.139	0.042	0.091
9BBFD	4648	4640	8	0.005	0.054	20:26 hr	1.499	0.144	0.832	0.215	0.102	0.131
9BBEE	4650	4642	8	0.009	0.023	20:00 hr	1.465	0.081	1.096	0.122	0.031	0.085
9B2B3	4750	3970	8	0.010	0.139	20:45 hr	2.630	0.190	1.257	0.285	0.177	0.213
9AFD8	4754	4752	8	0.009	0.087	20:29 hr	2.187	0.155	1.168	0.232	0.118	0.167
9AFD1	4758	4756	8	0.004	0.100	20:38 hr	1.654	0.209	0.750	0.313	0.213	0.180
9AFCE	4760	4758	8	0.007	0.097	20:39 hr	2.122	0.170	1.075	0.256	0.143	0.177
9AFCB	4752	4760	8	0.009	0.094	20:29 hr	2.225	0.162	1.159	0.243	0.129	0.175
9AFC4	4762	4764	8	0.052	0.001	19:00 hr	0.941	0.010	2.010	0.016	0.000	0.015
9AFBD	4768	4766	8	0.010	0.001	20:00 hr	0.642	0.020	0.984	0.030	0.002	0.020
9AFBA	4766	4752	8	0.030	0.005	20:14 hr	1.421	0.029	1.781	0.044	0.004	0.039
9AFAF	4770	4754	8	0.009	0.085	20:28 hr	2.148	0.154	1.148	0.231	0.117	0.165
9AFAC	4772	4764	8	0.016	0.010	20:14 hr	1.441	0.048	1.408	0.072	0.011	0.057
9AFA9	4764	4774	8	0.024	0.013	20:27 hr	1.775	0.049	1.712	0.074	0.011	0.065
9AF9E	4774	4776	8	0.060	0.015	20:23 hr	2.540	0.042	2.657	0.063	0.008	0.069
9AF9B	4776	4750	8	0.004	0.135	20:44 hr	1.938	0.231	0.832	0.347	0.258	0.210
9AF88	4780	4778	8	0.012	0.005	20:00 hr	1.021	0.036	1.161	0.054	0.006	0.038
9AF85	4782	4772	8	0.034	0.005	20:00 hr	1.510	0.029	1.901	0.044	0.004	0.040
9AF7A	4778	4784	8	0.011	0.021	20:13 hr	1.530	0.075	1.196	0.112	0.026	0.082
9AF77	4784	4786	8	0.012	0.045	20:15 hr	1.991	0.104	1.308	0.156	0.053	0.120
9AF64	4788	4776	8	0.003	0.117	20:43 hr	1.694	0.230	0.730	0.345	0.256	0.195
9AF61	4756	4788	8	0.004	0.110	20:39 hr	1.681	0.221	0.740	0.331	0.236	0.189
9AF56	4786	4770	8	0.061	0.054	20:25 hr	3.744	0.077	2.880	0.115	0.028	0.131
9AF47	4792	4790	8	0.043	0.026	20:00 hr	2.669	0.058	2.361	0.088	0.016	0.090
9AF44	4790	4770	8	0.004	0.029	20:15 hr	1.170	0.112	0.740	0.168	0.061	0.096
9AF41	4794	4790	8	0.064	0.001	19:00 hr	1.031	0.010	2.216	0.015	0.000	0.015
9AB58	4796	4798	8	0.004	0.001	20:00 hr	0.462	0.025	0.624	0.038	0.003	0.020
9AB55	4802	4800	8	0.016	0.010	20:14 hr	1.418	0.047	1.403	0.070	0.010	0.056
9AB52	4800	4798	8	0.019	0.015	20:15 hr	1.710	0.055	1.559	0.083	0.014	0.069
9AB4F	4806	4804	8	0.019	0.017	20:29 hr	1.736	0.058	1.541	0.087	0.016	0.072
9AB22	4808	4810	8	0.005	0.001	20:00 hr	0.467	0.022	0.682	0.033	0.002	0.018
9ABA3	4798	4344	8	0.003	0.036	20:30 hr	1.104	0.135	0.632	0.203	0.090	0.107
9A8A0	4812	4814	8	0.005	0.002	20:00 hr	0.529	0.027	0.696	0.040	0.003	0.022
9A899	4818	4816	8	0.024	0.002	20:00 hr	1.022	0.021	1.509	0.032	0.002	0.026
9A896	4816	4800	8	0.023	0.004	20:00 hr	1.163	0.026	1.542	0.040	0.003	0.033
9A88B	4822	4820	8	0.026	0.001	20:00 hr	0.924	0.017	1.523	0.026	0.001	0.021
9A888	4824	4802	8	0.009	0.005	20:00 hr	0.957	0.039	1.039	0.059	0.007	0.040
9A86D	4810	4814	8	0.004	0.003	20:11 hr	0.608	0.037	0.675	0.056	0.006	0.031
9A86A	4814	4826	8	0.004	0.006	20:14 hr	0.785	0.052	0.735	0.078	0.013	0.045
9A863	4826	4820	8	0.004	0.008	20:30 hr	0.778	0.060	0.680	0.090	0.017	0.049
9A860	4820	4828	8	0.005	0.011	20:38 hr	0.931	0.065	0.779	0.098	0.020	0.057
9A85D	4828	4830	8	0.004	0.012	20:26 hr	0.913	0.071	0.731	0.107	0.024	0.061
9A84A	4830	4832	8	0.005	0.013	20:28 hr	1.014	0.072	0.807	0.108	0.024	0.064
9A843	4832	4806	8	0.006	0.014	20:29 hr	1.133	0.070	0.911	0.106	0.023	0.067
9A83C	4804	4798	8	0.016	0.019	20:40 hr	1.721	0.064	1.455	0.096	0.019	0.077
9A2D2	4834	4306	8	0.006	0.073	20:38 hr	1.781	0.158	0.941	0.236	0.122	0.153
9A2CF	4836	4834	8	0.006	0.070	20:30 hr	1.741	0.156	0.926	0.234	0.120	0.150
9A2CC	4840	4838	8	0.017	0.020	20:14 hr	1.800	0.065	1.510	0.097	0.020	0.080
9A2C9	4842	4840	8	0.023	0.008	20:00 hr	1.482	0.039	1.612	0.058	0.007	0.050
9A2C6	4838	4844	8	0.015	0.038	20:15 hr	2.070	0.091	1.463	0.136	0.040	0.110
9A2C3	4844	4846	8	0.014	0.054	20:27 hr	2.212	0.110	1.415	0.165	0.059	0.131
9A2C0	4848	4850	8	0.035	0.005	20:00 hr	1.459	0.027	1.906	0.041	0.003	0.037
9A2BD	4850	4838	8	0.014	0.010	20:13 hr	1.337	0.048	1.304	0.072	0.011	0.055
9A2BA	4852	4854	8	0.060	0.002	20:00 hr	1.254	0.014	2.254	0.022	0.001	0.022
9A2B7	4854	4846	8	0.036	0.005	20:11 hr	1.501	0.028	1.933	0.042	0.003	0.039
9A2B4	4856	4858	8	0.039	0.004	20:00 hr	1.444	0.025	1.978	0.037	0.003	0.035
9A2B1	4858	4844	8	0.026	0.008	20:15 hr	1.577	0.038	1.736	0.057	0.006	0.050
9A2AE	4846	4836	8	0.009	0.065	20:29 hr	2.011	0.134	1.158	0.201	0.088	0.144

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
99469	4906	4012	10	0.007	0.298	21:00 hr	2.744	0.289	1.053	0.347	0.259	0.297
99443	4910	4908	8	0.017	0.005	20:00 hr	1.189	0.035	1.365	0.053	0.005	0.041
991C5	4914	4912	8	0.014	0.010	20:00 hr	1.325	0.048	1.296	0.072	0.010	0.055
991BE	4908	4912	8	0.017	0.010	20:00 hr	1.432	0.046	1.428	0.069	0.010	0.055
991BB	4912	4916	8	0.014	0.023	20:15 hr	1.737	0.073	1.373	0.109	0.025	0.086
991B4	4916	4918	8	0.015	0.028	20:21 hr	1.877	0.078	1.428	0.118	0.029	0.094
991AD	4922	4920	8	0.013	0.044	20:29 hr	2.044	0.101	1.368	0.151	0.049	0.118
991A6	4918	4922	8	0.018	0.040	20:29 hr	2.216	0.089	1.582	0.133	0.038	0.112
9919F	4926	4924	8	0.015	0.033	20:18 hr	1.995	0.084	1.461	0.127	0.034	0.102
99190	4928	4930	8	0.017	0.008	20:00 hr	1.326	0.041	1.413	0.061	0.007	0.048
9918D	4930	4926	8	0.017	0.024	20:14 hr	1.882	0.071	1.512	0.106	0.024	0.087
99186	4924	4932	8	0.013	0.037	20:27 hr	1.977	0.092	1.384	0.138	0.041	0.109
9917F	4936	4934	8	0.013	0.005	20:00 hr	1.098	0.037	1.227	0.055	0.006	0.041
99174	4938	4918	8	0.014	0.007	20:00 hr	1.209	0.041	1.276	0.062	0.008	0.047
9916D	4940	4920	8	0.019	0.009	20:00 hr	1.437	0.043	1.489	0.064	0.008	0.052
99166	4944	4942	8	0.009	0.071	20:30 hr	2.102	0.138	1.191	0.207	0.094	0.151
99163	4942	4946	8	0.018	0.084	20:39 hr	2.810	0.127	1.665	0.190	0.079	0.165
99158	4946	4948	8	0.016	0.092	20:45 hr	2.737	0.138	1.553	0.207	0.094	0.173
99151	4948	4932	8	0.013	0.099	20:43 hr	2.640	0.149	1.439	0.223	0.109	0.179
9914A	4932	4950	8	0.006	0.140	20:45 hr	2.209	0.216	0.984	0.324	0.226	0.214
99143	4950	4934	8	0.005	0.144	20:58 hr	2.118	0.227	0.918	0.341	0.250	0.217
9913C	4934	4952	8	0.006	0.154	20:59 hr	2.197	0.232	0.941	0.348	0.260	0.225
99139	4952	4954	8	0.004	0.159	20:57 hr	1.954	0.260	0.790	0.390	0.322	0.229
9912E	4920	4954	8	0.014	0.059	20:29 hr	2.287	0.115	1.429	0.172	0.065	0.138
99127	4954	4956	8	0.031	0.226	20:44 hr	4.514	0.182	2.205	0.273	0.163	0.275
99120	4956	4192	8	0.013	0.234	20:45 hr	3.299	0.235	1.407	0.352	0.265	0.280
98D63	4958	4960	8	0.041	0.006	20:00 hr	1.641	0.029	2.070	0.044	0.004	0.042
98D5C	4960	4962	8	0.022	0.018	20:14 hr	1.879	0.058	1.672	0.087	0.016	0.075
98D59	4962	4964	8	0.004	0.033	20:15 hr	1.186	0.121	0.720	0.182	0.072	0.103
98D56	4964	4966	8	0.004	0.041	20:29 hr	1.325	0.130	0.777	0.194	0.083	0.114
98D4B	4968	4042	8	0.024	0.076	20:39 hr	3.014	0.113	1.897	0.170	0.063	0.157
98CEC	4970	4968	8	0.018	0.073	20:33 hr	2.683	0.118	1.650	0.177	0.069	0.153
98CE5	4972	4970	8	0.032	0.023	20:15 hr	2.296	0.059	2.023	0.088	0.016	0.084
98CE2	4966	4970	8	0.023	0.045	20:33 hr	2.530	0.089	1.809	0.133	0.038	0.120
98CDB	4974	4972	8	0.020	0.019	20:14 hr	1.834	0.060	1.598	0.090	0.017	0.076
98CD4	4976	4974	8	0.020	0.014	20:12 hr	1.694	0.053	1.581	0.079	0.013	0.066
98CA9	4978	4980	8	0.008	0.004	20:00 hr	0.849	0.036	0.959	0.054	0.006	0.035
98CA2	4980	4976	8	0.008	0.008	20:00 hr	1.031	0.050	0.992	0.074	0.011	0.049
98C8F	4982	4960	8	0.020	0.005	20:00 hr	1.237	0.032	1.477	0.049	0.005	0.039
98C34	4984	4986	8	0.014	0.004	20:00 hr	1.020	0.031	1.240	0.047	0.004	0.035
98C15	4986	4988	8	0.014	0.008	20:13 hr	1.260	0.044	1.292	0.066	0.009	0.050
98BF6	4988	4990	8	0.014	0.012	20:14 hr	1.439	0.054	1.325	0.081	0.013	0.062
98BAB	4992	4994	8	0.027	0.006	20:00 hr	1.426	0.032	1.718	0.048	0.004	0.042
98B78	4996	4962	8	0.016	0.008	20:00 hr	1.314	0.041	1.386	0.062	0.008	0.049
98B5D	4998	5000	8	0.019	0.010	20:00 hr	1.522	0.046	1.528	0.068	0.009	0.056
98B56	4990	5000	8	0.014	0.019	20:22 hr	1.625	0.066	1.349	0.099	0.021	0.077
98B53	5000	5002	8	0.004	0.032	20:24 hr	1.185	0.119	0.728	0.178	0.069	0.101
98B3C	5002	5004	8	0.004	0.036	20:29 hr	1.288	0.120	0.786	0.180	0.071	0.106
98B19	4994	5004	8	0.027	0.009	20:14 hr	1.639	0.040	1.765	0.060	0.007	0.053
98B16	5004	5006	8	0.012	0.049	20:30 hr	2.081	0.107	1.348	0.161	0.056	0.125
98AD3	5008	5010	8	0.011	0.006	20:00 hr	1.070	0.042	1.124	0.062	0.008	0.044
98ACC	5012	5010	8	0.005	0.007	20:00 hr	0.816	0.053	0.760	0.079	0.013	0.046
98AC9	5010	5014	8	0.003	0.020	20:15 hr	0.937	0.099	0.631	0.149	0.048	0.079
98AC2	5014	5006	8	0.004	0.025	20:25 hr	1.147	0.103	0.760	0.154	0.051	0.089
986E3	5016	5018	8	0.016	0.009	20:00 hr	1.378	0.046	1.384	0.068	0.009	0.054
986DC	5018	5020	8	0.004	0.015	20:14 hr	0.970	0.079	0.738	0.118	0.029	0.067
986BD	5022	5024	8	0.010	0.007	20:00 hr	1.095	0.044	1.114	0.067	0.009	0.047
986B6	5026	5028	8	0.025	0.020	20:15 hr	2.037	0.060	1.782	0.090	0.017	0.080
986B3	5030	5026	8	0.036	0.013	20:00 hr	2.038	0.045	2.060	0.067	0.009	0.065
98634	5032	5034	8	0.049	0.008	20:00 hr	1.940	0.032	2.317	0.049	0.005	0.049
9862D	5036	5038	8	0.048	0.010	20:00 hr	2.058	0.036	2.322	0.054	0.006	0.055
985F6	5038	5040	8	0.047	0.014	20:14 hr	2.266	0.043	2.354	0.064	0.008	0.066
985EF	5006	5042	8	0.011	0.078	20:37 hr	2.313	0.138	1.310	0.207	0.094	0.159

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
985D8	5042	5020	8	0.011	0.085	20:40 hr	2.354	0.145	1.300	0.217	0.104	0.166
985CD	5020	5024	8	0.017	0.105	20:42 hr	2.898	0.145	1.598	0.218	0.104	0.185
985B6	5024	5044	8	0.017	0.116	20:44 hr	2.981	0.153	1.601	0.229	0.115	0.195
985A7	5044	5046	8	0.010	0.121	20:42 hr	2.480	0.179	1.225	0.268	0.157	0.198
98594	5046	5048	8	0.009	0.125	20:42 hr	2.430	0.186	1.174	0.279	0.170	0.202
9855F	5048	5028	8	0.003	0.130	20:43 hr	1.618	0.258	0.657	0.387	0.317	0.206
98558	5028	5050	8	0.004	0.155	20:44 hr	1.841	0.267	0.735	0.401	0.338	0.226
98550	5050	5034	8	0.003	0.160	20:44 hr	1.766	0.282	0.686	0.423	0.373	0.230
98511	5034	5052	8	0.004	0.172	20:45 hr	1.987	0.273	0.785	0.409	0.351	0.239
9850A	5052	5040	8	0.002	0.177	20:45 hr	1.630	0.323	0.595	0.484	0.473	0.242
98503	5040	5054	8	0.008	0.193	20:55 hr	2.695	0.236	1.144	0.355	0.269	0.253
98500	5054	5056	8	0.014	0.197	20:58 hr	3.227	0.210	1.458	0.315	0.215	0.255
984D5	5058	5056	8	0.005	0.007	20:00 hr	0.799	0.053	0.746	0.079	0.013	0.045
9843C	5060	5062	8	0.036	0.010	20:00 hr	1.858	0.038	2.037	0.058	0.007	0.055
98435	5062	5064	8	0.036	0.013	20:00 hr	2.038	0.045	2.062	0.067	0.009	0.065
9842E	5066	5066	8	0.012	0.207	20:58 hr	3.107	0.224	1.357	0.336	0.243	0.262
98427	5066	5068	8	0.012	0.209	20:58 hr	3.095	0.226	1.345	0.339	0.248	0.263
9841D	2378	5068	8	0.052	0.025	20:14 hr	2.799	0.055	2.559	0.082	0.014	0.088
9841A	5068	3960	8	0.008	0.235	44:45 hr	2.842	0.263	1.144	0.394	0.328	0.280
98412	5064	2376	8	0.009	0.016	20:12 hr	1.336	0.068	1.093	0.102	0.022	0.071
97F41	5072	5070	8	0.011	0.007	20:00 hr	1.113	0.044	1.143	0.065	0.009	0.047
97F3A	5070	5074	8	0.012	0.010	20:15 hr	1.282	0.050	1.223	0.076	0.012	0.056
97F33	5074	5076	8	0.025	0.016	20:22 hr	1.897	0.053	1.767	0.079	0.013	0.070
97F2C	5076	5078	8	0.027	0.022	20:28 hr	2.165	0.061	1.877	0.091	0.017	0.084
97F25	5082	5080	8	0.071	0.005	20:00 hr	1.935	0.024	2.664	0.037	0.003	0.040
97F1E	5080	5084	8	0.020	0.007	20:14 hr	1.375	0.037	1.525	0.056	0.006	0.046
97F17	5088	5086	8	0.004	0.102	20:00 hr	1.658	0.212	0.746	0.317	0.218	0.182
97F10	5086	5090	8	0.004	0.108	20:15 hr	1.715	0.215	0.765	0.322	0.225	0.187
97F0D	5094	5092	8	0.000	0.004	20:00 hr	0.265	0.076	0.205	0.114	0.028	0.034
97F02	5092	5096	8	0.011	0.009	20:00 hr	1.195	0.050	1.149	0.074	0.011	0.053
97EFB	5096	5098	8	0.014	0.016	20:15 hr	1.568	0.061	1.355	0.092	0.017	0.071
97EF4	5098	5090	8	0.007	0.019	20:15 hr	1.265	0.079	0.959	0.118	0.030	0.077
97EED	5090	5100	8	0.003	0.129	20:30 hr	1.585	0.259	0.642	0.389	0.320	0.205
97EE6	5100	4106	8	0.004	0.131	20:44 hr	1.874	0.233	0.802	0.349	0.261	0.207
97EDB	5104	5102	8	0.004	0.004	20:00 hr	0.659	0.044	0.677	0.065	0.009	0.036
97ED4	5078	5106	8	0.009	0.025	20:29 hr	1.521	0.083	1.125	0.124	0.033	0.088
97ECD	5106	5084	8	0.004	0.027	20:32 hr	1.195	0.104	0.786	0.156	0.053	0.092
97EC6	5084	5108	8	0.001	0.035	20:42 hr	0.759	0.172	0.383	0.258	0.145	0.105
97EBF	5108	5102	8	0.014	0.038	20:43 hr	2.005	0.093	1.396	0.140	0.042	0.110
97EB8	5102	4096	8	0.042	0.045	20:44 hr	3.127	0.077	2.410	0.115	0.028	0.120
97A14	5112	5110	8	0.004	0.006	20:00 hr	0.739	0.053	0.689	0.079	0.013	0.044
97983	5116	5114	8	0.004	0.005	20:00 hr	0.712	0.045	0.723	0.067	0.009	0.038
97980	5118	5114	8	0.049	0.005	20:00 hr	1.689	0.026	2.238	0.040	0.003	0.040
9797D	5114	4086	8	0.013	0.073	20:48 hr	2.384	0.129	1.399	0.194	0.082	0.154
9797A	5120	5114	8	0.021	0.062	20:57 hr	2.681	0.106	1.744	0.159	0.055	0.141
97977	5122	5120	8	0.027	0.057	20:40 hr	2.871	0.095	1.976	0.143	0.044	0.135
97974	5124	5122	8	0.009	0.009	20:15 hr	1.116	0.050	1.070	0.075	0.011	0.052
97971	5126	5124	8	0.004	0.007	20:00 hr	0.747	0.055	0.684	0.082	0.014	0.045
9796E	5128	5122	8	0.018	0.044	20:43 hr	2.318	0.093	1.618	0.139	0.042	0.119
9796B	5130	5128	8	0.018	0.039	20:45 hr	2.229	0.088	1.600	0.132	0.037	0.111
97968	5132	5130	8	0.002	0.005	20:00 hr	0.585	0.053	0.543	0.080	0.013	0.039
97965	5134	5130	8	0.031	0.030	20:28 hr	2.469	0.068	2.024	0.102	0.022	0.097
97962	5136	5134	8	0.029	0.024	20:28 hr	2.266	0.063	1.931	0.094	0.019	0.088
9795F	5138	5136	8	0.023	0.004	20:00 hr	1.214	0.028	1.554	0.042	0.003	0.035
9795C	5140	5136	8	0.017	0.018	20:40 hr	1.722	0.062	1.483	0.092	0.018	0.075
97959	5142	5140	8	0.046	0.016	20:26 hr	2.350	0.046	2.345	0.069	0.010	0.071
97956	5144	5142	8	0.022	0.013	20:15 hr	1.691	0.049	1.642	0.073	0.011	0.063
97953	5146	5144	8	0.035	0.009	20:14 hr	1.826	0.038	2.005	0.057	0.006	0.054
97950	5148	5146	8	0.032	0.006	20:13 hr	1.561	0.032	1.877	0.048	0.004	0.044
9794D	5150	5148	8	0.069	0.004	20:00 hr	1.736	0.021	2.575	0.032	0.002	0.034
9794A	5154	5152	8	0.074	0.002	20:00 hr	1.355	0.014	2.487	0.021	0.001	0.022
97947	5152	5156	8	0.065	0.004	20:15 hr	1.777	0.023	2.521	0.035	0.002	0.037
97944	5156	5158	8	0.031	0.006	20:15 hr	1.523	0.032	1.825	0.048	0.004	0.044

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
97941	5158	5160	8	0.004	0.007	20:14 hr	0.788	0.057	0.705	0.086	0.015	0.048
9793E	5160	5162	8	0.004	0.010	20:26 hr	0.871	0.064	0.737	0.096	0.019	0.055
9793B	5162	5164	8	0.048	0.013	20:29 hr	2.233	0.041	2.358	0.062	0.008	0.064
97938	5164	5166	8	0.041	0.018	20:29 hr	2.322	0.049	2.240	0.074	0.011	0.074
97935	5166	5168	8	0.009	0.020	20:28 hr	1.447	0.075	1.128	0.112	0.027	0.080
97932	5168	5170	8	0.004	0.022	20:41 hr	1.097	0.097	0.750	0.145	0.045	0.083
9792F	5170	5172	8	0.001	0.023	20:44 hr	0.685	0.139	0.387	0.208	0.095	0.086
9792C	5174	5176	8	0.078	0.004	20:00 hr	1.775	0.020	2.707	0.030	0.002	0.033
97929	5176	5172	8	0.106	0.005	20:14 hr	2.256	0.023	3.229	0.034	0.002	0.041
97926	5172	5178	8	0.014	0.029	20:42 hr	1.857	0.081	1.388	0.122	0.032	0.096
97923	5178	2380	8	0.053	0.032	20:42 hr	3.066	0.062	2.630	0.093	0.018	0.101
97920	2380	5180	8	0.021	0.041	20:44 hr	2.372	0.086	1.717	0.130	0.036	0.114
9791D	5180	5182	8	0.020	0.045	20:44 hr	2.419	0.091	1.705	0.137	0.040	0.119
9791A	5182	5110	8	0.035	0.060	20:58 hr	3.182	0.093	2.223	0.139	0.041	0.139
97917	5110	5184	8	0.026	0.070	20:55 hr	3.011	0.107	1.955	0.160	0.055	0.150
97914	5186	5188	8	0.018	0.012	20:00 hr	1.573	0.051	1.494	0.076	0.012	0.062
97911	5188	5190	8	0.005	0.016	20:15 hr	1.081	0.080	0.816	0.119	0.030	0.072
9790E	5190	5184	8	0.003	0.019	20:27 hr	0.982	0.093	0.686	0.139	0.041	0.076
9790B	5184	5192	8	0.017	0.091	20:46 hr	2.809	0.134	1.620	0.201	0.088	0.171
97908	5192	4040	8	0.016	0.095	20:55 hr	2.746	0.140	1.545	0.210	0.097	0.175
978FE	5194	5182	8	0.033	0.010	20:00 hr	1.829	0.040	1.951	0.061	0.007	0.057
96D27	5288	5290	8	0.008	0.105	20:43 hr	2.262	0.173	1.138	0.259	0.147	0.185
96D24	5290	5292	8	0.009	0.107	20:43 hr	2.350	0.170	1.191	0.255	0.143	0.186
96D1B	5292	5294	8	0.003	0.109	20:44 hr	1.502	0.238	0.635	0.358	0.274	0.188
96CF6	5294	5296	8	0.004	0.112	20:45 hr	1.798	0.214	0.805	0.321	0.223	0.191
96CE8	4550	5296	8	0.037	0.027	20:34 hr	2.554	0.062	2.194	0.093	0.018	0.092
96CE0	5296	5298	8	0.003	0.140	20:45 hr	1.616	0.273	0.638	0.409	0.351	0.215
96CD9	5298	5300	8	0.004	0.142	20:45 hr	1.867	0.248	0.774	0.371	0.294	0.216
96CC5	5300	4514	8	0.005	0.144	20:45 hr	1.990	0.238	0.843	0.356	0.272	0.217
96CB1	5302	5304	8	0.014	0.006	20:21 hr	1.162	0.039	1.255	0.059	0.007	0.044
96CA3	5306	5302	8	0.003	0.004	20:11 hr	0.596	0.047	0.587	0.071	0.010	0.036
96CA0	5308	5306	8	0.004	0.003	20:15 hr	0.606	0.035	0.697	0.052	0.005	0.029
96C87	5310	5308	8	0.003	0.001	20:00 hr	0.415	0.025	0.563	0.038	0.003	0.019
96C62	5314	5312	8	0.012	0.002	20:00 hr	0.811	0.026	1.084	0.039	0.003	0.027
96C3A	5312	5316	8	0.012	0.007	20:13 hr	1.136	0.042	1.188	0.063	0.008	0.046
96C2E	5316	5318	8	0.014	0.010	20:14 hr	1.337	0.048	1.309	0.072	0.010	0.055
96C26	5318	5320	8	0.012	0.010	20:21 hr	1.285	0.051	1.223	0.076	0.012	0.056
96C05	5322	5324	8	0.009	0.011	20:14 hr	1.190	0.058	1.055	0.087	0.016	0.060
96BFB	5326	5322	8	0.008	0.007	20:12 hr	0.999	0.047	0.992	0.070	0.010	0.046
96BED	5328	5326	8	0.005	0.004	20:13 hr	0.745	0.041	0.787	0.062	0.008	0.037
96BD9	5330	5328	8	0.008	0.002	20:00 hr	0.659	0.025	0.892	0.038	0.003	0.024
96BBC	5334	5332	8	0.004	0.002	20:00 hr	0.527	0.031	0.640	0.047	0.004	0.025
96B60	5332	5336	8	0.004	0.005	20:12 hr	0.689	0.047	0.684	0.070	0.010	0.039
96B4D	5336	5338	8	0.004	0.006	20:15 hr	0.731	0.054	0.675	0.081	0.013	0.044
96B2A	5338	5340	8	0.003	0.010	20:13 hr	0.787	0.068	0.646	0.102	0.022	0.054
96B0A	5340	5342	8	0.015	0.015	20:22 hr	1.546	0.058	1.379	0.086	0.015	0.068
96AF2	5342	5344	8	0.012	0.018	20:29 hr	1.534	0.067	1.262	0.101	0.021	0.076
96AEA	5344	5346	8	0.012	0.021	20:28 hr	1.597	0.071	1.282	0.106	0.024	0.080
96ADE	5346	5320	8	0.012	0.021	20:29 hr	1.622	0.072	1.292	0.108	0.024	0.082
96AD6	5320	5348	8	0.007	0.033	20:30 hr	1.539	0.100	1.035	0.149	0.048	0.101
96ACA	5348	5350	8	0.009	0.034	20:32 hr	1.664	0.098	1.131	0.146	0.046	0.104
96ABE	5350	5352	8	0.009	0.035	20:32 hr	1.681	0.100	1.131	0.149	0.048	0.106
96AB3	5352	5354	8	0.005	0.037	20:28 hr	1.355	0.120	0.827	0.180	0.071	0.109
96AAA	5354	5356	8	0.015	0.039	20:28 hr	2.089	0.091	1.474	0.136	0.040	0.111
87598	5360	5358	8	0.003	0.016	20:00 hr	0.944	0.084	0.693	0.126	0.034	0.070
87595	5358	5324	8	0.004	0.018	20:15 hr	1.054	0.086	0.763	0.130	0.036	0.075
87580	5324	5362	8	0.004	0.031	20:26 hr	1.212	0.115	0.758	0.172	0.064	0.100
8755B	5362	5304	8	0.003	0.034	20:33 hr	1.127	0.127	0.666	0.191	0.080	0.104
87540	5304	5364	8	0.008	0.042	20:42 hr	1.719	0.111	1.094	0.166	0.060	0.116
87528	5364	5366	8	0.008	0.045	20:36 hr	1.765	0.114	1.109	0.170	0.063	0.120
87510	5366	5368	8	0.009	0.048	20:45 hr	1.861	0.114	1.166	0.171	0.064	0.123
874FC	5368	5370	8	0.008	0.050	20:43 hr	1.796	0.121	1.092	0.181	0.072	0.126
874E8	5370	5372	8	0.009	0.052	20:41 hr	1.885	0.121	1.148	0.181	0.071	0.129

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
874C8	5372	5374	8	0.009	0.056	20:43 hr	1.902	0.125	1.136	0.188	0.077	0.133
874C5	5374	5376	8	0.011	0.058	20:42 hr	2.067	0.121	1.255	0.182	0.072	0.136
874B0	5376	5356	8	0.007	0.059	20:43 hr	1.781	0.137	1.016	0.205	0.092	0.138
874A8	5356	5378	8	0.014	0.099	20:44 hr	2.654	0.148	1.452	0.221	0.108	0.179
8749C	5378	5380	8	0.013	0.099	20:43 hr	2.610	0.150	1.415	0.225	0.111	0.179
8748D	5380	5382	8	0.012	0.102	20:43 hr	2.578	0.154	1.379	0.231	0.117	0.182
8747B	5382	5288	8	0.008	0.103	20:45 hr	2.253	0.171	1.139	0.256	0.144	0.183
87237	5384	5386	8	0.008	0.008	20:14 hr	1.054	0.051	0.999	0.077	0.012	0.051
87234	5388	5384	8	0.008	0.007	20:14 hr	0.989	0.046	0.985	0.070	0.010	0.046
87231	5390	5388	8	0.009	0.006	20:14 hr	0.984	0.041	1.041	0.062	0.008	0.042
8722E	5392	5390	8	0.008	0.004	20:00 hr	0.812	0.035	0.932	0.053	0.005	0.034
871F6	5396	5394	8	0.013	0.002	20:00 hr	0.843	0.025	1.138	0.038	0.003	0.027
871D6	5394	5398	8	0.011	0.005	20:13 hr	0.993	0.036	1.125	0.054	0.006	0.038
871A2	5398	5400	8	0.009	0.019	20:26 hr	1.393	0.073	1.104	0.109	0.025	0.076
87196	5400	5402	8	0.003	0.022	20:30 hr	1.043	0.100	0.701	0.150	0.048	0.083
87173	5402	5404	8	0.003	0.025	20:35 hr	1.068	0.106	0.696	0.159	0.055	0.088
8715E	5404	5406	8	0.007	0.027	20:41 hr	1.432	0.092	1.004	0.138	0.041	0.092
8713A	5406	5408	8	0.009	0.029	20:54 hr	1.582	0.090	1.122	0.135	0.039	0.095
87121	5408	5410	8	0.008	0.031	20:44 hr	1.556	0.096	1.069	0.143	0.044	0.099
870E0	5412	5414	8	0.005	0.006	20:15 hr	0.775	0.050	0.743	0.075	0.011	0.043
870DD	5416	5412	8	0.005	0.003	20:00 hr	0.657	0.034	0.762	0.051	0.005	0.030
870BA	5414	5398	8	0.004	0.010	20:20 hr	0.860	0.067	0.712	0.100	0.021	0.056
870A9	5418	5414	8	0.007	0.002	20:00 hr	0.636	0.027	0.841	0.040	0.003	0.024
87094	5420	5422	12	0.013	0.122	20:58 hr	2.658	0.146	1.478	0.146	0.046	0.178
87091	5424	5420	12	0.014	0.094	20:56 hr	2.499	0.128	1.489	0.128	0.035	0.156
8705C	5426	5424	8	0.004	0.092	20:58 hr	1.619	0.199	0.753	0.299	0.195	0.172
8703F	5428	5426	8	0.013	0.073	20:51 hr	2.346	0.130	1.374	0.195	0.083	0.153
87037	5410	5428	8	0.003	0.069	20:52 hr	1.415	0.178	0.699	0.267	0.156	0.148
8701F	5386	5410	8	0.012	0.033	20:28 hr	1.836	0.090	1.305	0.134	0.039	0.102
87003	5430	5386	8	0.010	0.020	20:29 hr	1.499	0.074	1.178	0.111	0.026	0.080
86FDC	5432	5430	8	0.010	0.015	20:21 hr	1.335	0.063	1.135	0.095	0.019	0.067
86FB9	5434	5432	8	0.007	0.009	20:15 hr	1.044	0.055	0.957	0.082	0.014	0.053
86F87	5436	5434	8	0.007	0.005	20:00 hr	0.840	0.041	0.891	0.061	0.007	0.039
86DF7	5440	5438	8	0.021	0.002	20:00 hr	0.873	0.019	1.379	0.028	0.001	0.022
86DC2	5442	5444	8	0.030	0.002	20:00 hr	1.144	0.021	1.701	0.031	0.002	0.027
86D8F	5444	5446	8	0.018	0.007	20:15 hr	1.286	0.038	1.416	0.057	0.006	0.045
86D53	5450	5448	8	0.004	0.004	20:00 hr	0.630	0.044	0.642	0.066	0.009	0.035
86D46	5448	5452	8	0.005	0.010	20:15 hr	0.894	0.063	0.763	0.094	0.018	0.055
86D2B	5454	5452	8	0.041	0.002	20:00 hr	1.211	0.018	1.929	0.027	0.001	0.025
86D1A	5452	5456	8	0.004	0.013	20:15 hr	0.933	0.074	0.733	0.111	0.026	0.063
86D02	5456	5458	8	0.021	0.015	20:29 hr	1.742	0.054	1.609	0.081	0.013	0.068
86CEA	5458	5460	8	0.027	0.017	20:36 hr	1.979	0.053	1.838	0.080	0.013	0.072
86CD8	5460	5462	8	0.011	0.019	20:27 hr	1.493	0.069	1.209	0.104	0.023	0.076
86CB6	5464	5466	8	0.019	0.002	20:00 hr	0.940	0.022	1.371	0.033	0.002	0.026
86CA1	5468	5466	8	0.016	0.003	20:00 hr	0.958	0.026	1.289	0.038	0.003	0.029
86C84	5466	5462	8	0.010	0.007	20:14 hr	1.050	0.045	1.064	0.067	0.009	0.046
86C5C	5462	5470	8	0.010	0.028	20:29 hr	1.656	0.086	1.199	0.130	0.036	0.095
86C40	5472	5446	8	0.007	0.002	20:00 hr	0.641	0.028	0.824	0.042	0.003	0.025
86C2E	5470	5446	8	0.015	0.031	20:37 hr	1.961	0.082	1.457	0.123	0.032	0.099
86C1D	5446	5474	8	0.004	0.042	20:43 hr	1.370	0.129	0.804	0.194	0.082	0.116
86C08	5474	5476	8	0.003	0.044	20:39 hr	1.172	0.149	0.638	0.223	0.109	0.118
869C8	5438	5478	8	0.022	0.003	20:15 hr	1.079	0.025	1.477	0.037	0.003	0.030
869B2	5480	5478	8	0.010	0.003	20:00 hr	0.793	0.028	1.016	0.042	0.003	0.028
86989	5478	5482	8	0.028	0.006	20:15 hr	1.486	0.033	1.750	0.050	0.005	0.044
86972	5486	5484	8	0.012	0.002	20:00 hr	0.787	0.024	1.090	0.036	0.002	0.025
86969	5484	5488	8	0.015	0.002	19:59 hr	0.874	0.024	1.212	0.036	0.002	0.027
8695C	5482	5488	8	0.003	0.009	20:15 hr	0.764	0.066	0.636	0.099	0.020	0.052
8694B	5488	5490	8	0.004	0.012	20:15 hr	0.918	0.070	0.740	0.105	0.023	0.060
8692A	5490	5492	8	0.004	0.014	20:27 hr	0.911	0.078	0.695	0.117	0.029	0.065
86913	5494	5492	8	0.024	0.014	20:24 hr	1.820	0.051	1.734	0.076	0.012	0.067
86902	5492	5496	8	0.024	0.029	20:28 hr	2.254	0.071	1.803	0.107	0.024	0.096
868F2	5496	5498	8	0.009	0.031	20:28 hr	1.633	0.092	1.143	0.138	0.041	0.099
868E5	5476	5500	8	0.004	0.045	20:44 hr	1.318	0.139	0.745	0.208	0.095	0.119

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
868DE	5500	5502	8	0.005	0.046	20:45 hr	1.456	0.131	0.849	0.196	0.084	0.121
868C2	5504	4190	8	0.006	0.083	20:44 hr	1.921	0.165	0.991	0.247	0.134	0.164
868BF	5506	5504	8	0.002	0.083	20:45 hr	1.293	0.218	0.573	0.327	0.231	0.164
868BC	5508	5506	8	0.003	0.083	20:45 hr	1.538	0.192	0.731	0.287	0.180	0.163
86879	5502	5508	8	0.004	0.080	20:44 hr	1.608	0.182	0.786	0.273	0.163	0.161
86868	5498	5502	8	0.003	0.032	20:30 hr	1.126	0.123	0.680	0.184	0.074	0.101
8681F	5512	5510	8	0.004	0.003	20:00 hr	0.565	0.037	0.634	0.055	0.006	0.029
8680E	5514	5510	8	0.009	0.002	20:00 hr	0.684	0.024	0.953	0.036	0.002	0.023
867F5	5510	5516	8	0.009	0.008	20:14 hr	1.087	0.048	1.062	0.072	0.011	0.050
867D9	5518	5516	8	0.010	0.003	20:00 hr	0.825	0.029	1.039	0.044	0.004	0.030
867C4	5516	5520	8	0.007	0.013	20:30 hr	1.142	0.064	0.964	0.096	0.019	0.063
867A7	5520	5522	8	0.011	0.015	20:24 hr	1.411	0.062	1.207	0.094	0.018	0.069
86797	5524	5526	8	0.006	0.078	20:44 hr	1.859	0.161	0.969	0.242	0.129	0.159
86790	5526	5528	8	0.007	0.079	20:43 hr	1.913	0.159	1.007	0.238	0.124	0.159
8678B	5528	5522	8	0.004	0.080	20:45 hr	1.660	0.177	0.823	0.266	0.155	0.160
8676E	5522	5530	8	0.004	0.097	20:45 hr	1.619	0.208	0.736	0.312	0.211	0.178
86747	5532	5530	8	0.007	0.003	20:00 hr	0.717	0.032	0.865	0.048	0.004	0.030
86737	5530	5534	8	0.004	0.102	20:44 hr	1.788	0.200	0.830	0.300	0.196	0.182
86722	5534	5536	8	0.004	0.104	20:44 hr	1.758	0.206	0.804	0.308	0.206	0.184
866ED	5538	5540	8	0.008	0.004	20:00 hr	0.833	0.035	0.954	0.053	0.005	0.034
866CB	5542	5540	8	0.007	0.003	20:00 hr	0.718	0.032	0.866	0.048	0.004	0.030
866B2	5540	5544	8	0.016	0.010	20:14 hr	1.416	0.047	1.408	0.070	0.010	0.055
86688	5544	5546	8	0.004	0.013	20:16 hr	0.937	0.073	0.740	0.109	0.025	0.063
8666B	5546	5536	8	0.005	0.015	20:27 hr	1.019	0.076	0.788	0.114	0.028	0.068
86648	5548	5536	8	0.004	0.002	20:00 hr	0.520	0.028	0.670	0.042	0.003	0.023
86639	5550	4182	8	0.021	0.122	20:44 hr	3.302	0.147	1.810	0.221	0.107	0.200
86635	5552	5550	8	0.006	0.122	20:45 hr	2.044	0.207	0.931	0.310	0.209	0.199
8662C	5536	5552	8	0.003	0.122	44:45 hr	1.628	0.244	0.680	0.366	0.285	0.199
86605	5554	2300	8	0.024	0.002	20:00 hr	0.913	0.018	1.476	0.027	0.001	0.022
864F8	2302	5556	8	0.018	0.003	20:13 hr	1.006	0.026	1.352	0.039	0.003	0.030
864E7	5556	5558	8	0.019	0.004	20:14 hr	1.114	0.028	1.423	0.043	0.003	0.034
864BE	5560	5562	8	0.015	0.002	20:00 hr	0.775	0.019	1.197	0.029	0.002	0.021
86497	5564	5562	8	0.017	0.002	20:00 hr	0.873	0.022	1.280	0.032	0.002	0.024
86486	5562	5566	8	0.008	0.005	20:14 hr	0.904	0.039	0.978	0.059	0.007	0.039
8646D	5566	5568	8	0.007	0.006	20:14 hr	0.938	0.046	0.940	0.069	0.009	0.044
86455	5572	5570	8	0.013	0.001	20:00 hr	0.710	0.019	1.111	0.028	0.001	0.020
86428	5570	5574	8	0.013	0.003	20:13 hr	0.885	0.027	1.152	0.041	0.003	0.029
86413	5574	5576	8	0.012	0.005	20:14 hr	1.013	0.035	1.156	0.053	0.006	0.038
863D4	5578	5576	8	0.008	0.001	20:00 hr	0.597	0.021	0.895	0.031	0.002	0.020
863CB	5576	5568	8	0.008	0.008	20:21 hr	1.018	0.050	0.976	0.075	0.011	0.049
863C2	5568	5580	8	0.004	0.016	20:26 hr	1.038	0.080	0.781	0.120	0.031	0.071
863B4	5580	5582	8	0.004	0.017	20:28 hr	0.994	0.085	0.725	0.128	0.035	0.072
863A2	5582	5584	8	0.004	0.017	20:30 hr	1.003	0.087	0.725	0.130	0.036	0.074
86363	5584	5586	8	0.004	0.019	20:29 hr	1.006	0.093	0.702	0.139	0.042	0.078
86351	5586	5558	8	0.004	0.021	20:31 hr	1.099	0.093	0.766	0.139	0.042	0.081
86348	5558	5588	8	0.004	0.025	20:37 hr	1.135	0.103	0.749	0.155	0.052	0.089
86324	5590	4238	8	0.068	0.006	20:14 hr	1.968	0.026	2.632	0.039	0.003	0.042
86321	5592	5590	8	0.058	0.005	20:00 hr	1.736	0.024	2.409	0.036	0.002	0.037
862FB	5594	5596	8	0.036	0.004	20:00 hr	1.431	0.026	1.904	0.039	0.003	0.036
862E6	5598	5596	8	0.017	0.002	20:00 hr	0.813	0.019	1.268	0.029	0.001	0.021
862C9	5596	5600	8	0.020	0.009	20:14 hr	1.458	0.042	1.526	0.063	0.008	0.052
862AB	5602	5600	8	0.034	0.002	20:00 hr	1.175	0.020	1.779	0.030	0.002	0.027
8629E	5600	5604	8	0.027	0.014	20:19 hr	1.860	0.048	1.815	0.072	0.011	0.065
86284	5606	5604	8	0.004	0.002	20:00 hr	0.534	0.029	0.678	0.043	0.004	0.024
8627B	5604	5608	8	0.014	0.017	20:27 hr	1.568	0.062	1.342	0.093	0.018	0.072
86257	5610	5608	8	0.017	0.003	20:00 hr	0.976	0.026	1.315	0.038	0.003	0.029
8624A	5608	4246	8	0.005	0.021	20:27 hr	1.174	0.088	0.843	0.132	0.037	0.081
86214	5612	5614	8	0.054	0.002	20:00 hr	1.346	0.017	2.200	0.026	0.001	0.026
86209	5614	5616	8	0.008	0.005	20:15 hr	0.893	0.039	0.972	0.058	0.007	0.038
861EE	5620	5618	8	0.036	0.003	20:00 hr	1.258	0.021	1.859	0.032	0.002	0.029
861D9	5618	5616	8	0.059	0.005	20:00 hr	1.761	0.024	2.429	0.036	0.002	0.038
861D0	5616	5622	8	0.003	0.012	20:17 hr	0.832	0.078	0.635	0.117	0.029	0.062
861C7	5622	5624	8	0.005	0.014	20:27 hr	1.049	0.072	0.834	0.108	0.025	0.066

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
861A7	5628	5626	8	0.067	0.002	20:00 hr	1.506	0.017	2.454	0.026	0.001	0.027
8618B	5626	5624	8	0.008	0.004	20:14 hr	0.857	0.037	0.950	0.056	0.006	0.037
86166	5624	5630	8	0.031	0.022	20:27 hr	2.265	0.058	2.006	0.087	0.016	0.083
86140	5630	5632	8	0.022	0.029	20:39 hr	2.194	0.073	1.734	0.109	0.025	0.096
86125	5634	5632	8	0.050	0.003	20:00 hr	1.506	0.022	2.199	0.033	0.002	0.032
8611B	5632	4258	8	0.004	0.035	20:45 hr	1.273	0.120	0.778	0.179	0.070	0.105
85E84	5708	5706	8	0.037	0.003	20:00 hr	1.358	0.024	1.906	0.035	0.002	0.032
85E7B	5706	5710	8	0.017	0.005	20:00 hr	1.157	0.033	1.363	0.050	0.005	0.039
85E67	5710	5712	8	0.039	0.007	20:14 hr	1.736	0.032	2.071	0.049	0.005	0.047
85E5A	5712	5714	8	0.039	0.009	20:14 hr	1.881	0.037	2.102	0.055	0.006	0.054
85E41	5714	5716	8	0.046	0.011	20:14 hr	2.111	0.039	2.290	0.059	0.007	0.059
85E38	5716	5718	8	0.023	0.012	20:15 hr	1.700	0.048	1.661	0.072	0.011	0.062
85E26	5720	5722	8	0.039	0.002	20:00 hr	1.220	0.019	1.902	0.029	0.001	0.026
85E19	5722	5724	8	0.032	0.005	20:14 hr	1.420	0.028	1.816	0.042	0.003	0.038
85DF8	5726	5728	8	0.010	0.005	20:00 hr	0.953	0.036	1.076	0.054	0.006	0.038
85DE7	5728	5730	8	0.013	0.006	20:15 hr	1.163	0.040	1.247	0.060	0.007	0.045
85DD3	5730	5732	8	0.007	0.008	20:15 hr	1.017	0.052	0.955	0.078	0.012	0.051
85DBD	5732	5734	8	0.005	0.010	20:15 hr	0.956	0.062	0.819	0.093	0.018	0.056
85DA7	5724	5736	8	0.020	0.008	20:15 hr	1.406	0.039	1.529	0.058	0.007	0.048
85D96	5736	5738	8	0.019	0.009	20:15 hr	1.441	0.043	1.493	0.064	0.008	0.052
85D8D	5738	5734	8	0.017	0.010	20:27 hr	1.459	0.047	1.450	0.070	0.010	0.056
85D77	5740	5734	8	0.028	0.002	20:00 hr	1.022	0.019	1.609	0.028	0.001	0.024
85D6E	5734	5742	8	0.020	0.023	20:28 hr	1.938	0.066	1.607	0.100	0.021	0.084
85D61	5742	5744	8	0.020	0.024	20:28 hr	2.001	0.067	1.647	0.101	0.021	0.087
85D49	5746	5744	8	0.005	0.004	20:00 hr	0.670	0.039	0.723	0.059	0.007	0.034
85D40	5744	5748	8	0.006	0.029	20:36 hr	1.336	0.101	0.890	0.152	0.050	0.096
85D2F	5748	5750	8	0.003	0.030	20:30 hr	1.079	0.120	0.658	0.180	0.071	0.097
85D11	5754	5752	8	0.043	0.004	20:00 hr	1.511	0.024	2.083	0.037	0.002	0.035
85CFC	5752	5756	8	0.027	0.006	20:14 hr	1.480	0.034	1.726	0.051	0.005	0.045
85CF3	5756	5758	8	0.019	0.007	20:14 hr	1.348	0.039	1.462	0.059	0.007	0.047
85CE2	5758	5760	8	0.004	0.009	20:15 hr	0.845	0.061	0.729	0.092	0.018	0.052
85CD5	5760	5762	8	0.006	0.010	20:23 hr	1.028	0.059	0.907	0.088	0.016	0.056
85CB1	5766	5764	8	0.023	0.003	20:00 hr	1.134	0.025	1.529	0.038	0.003	0.031
85CA8	5764	5768	8	0.026	0.004	20:15 hr	1.301	0.029	1.648	0.043	0.004	0.037
85C9F	5768	5770	8	0.024	0.006	20:15 hr	1.419	0.034	1.644	0.052	0.005	0.044
85C92	5770	5772	8	0.010	0.008	20:15 hr	1.104	0.047	1.092	0.071	0.010	0.049
85C7A	5774	5776	8	0.027	0.003	20:00 hr	1.222	0.025	1.651	0.038	0.003	0.033
85C62	5780	5778	8	0.041	0.003	20:00 hr	1.281	0.020	1.955	0.030	0.002	0.028
85C45	5778	5782	8	0.038	0.006	20:13 hr	1.627	0.030	2.007	0.046	0.004	0.043
85C3C	5782	5776	8	0.027	0.008	20:27 hr	1.578	0.038	1.745	0.057	0.006	0.050
85C32	5776	5762	8	0.041	0.012	20:15 hr	2.079	0.042	2.187	0.062	0.008	0.062
85C29	5762	5784	8	0.022	0.023	20:26 hr	2.025	0.065	1.700	0.097	0.020	0.085
85C20	5784	5718	8	0.017	0.024	20:28 hr	1.860	0.071	1.492	0.106	0.024	0.087
85C13	5718	5786	8	0.018	0.037	20:35 hr	2.183	0.086	1.586	0.129	0.035	0.109
85C02	5786	5788	8	0.017	0.039	20:39 hr	2.180	0.088	1.560	0.133	0.038	0.111
85BF8	5788	5750	8	0.017	0.040	20:42 hr	2.206	0.090	1.564	0.135	0.039	0.113
85BEF	5750	5772	8	0.016	0.071	20:44 hr	2.526	0.122	1.532	0.182	0.073	0.151
85BDC	5792	5790	8	0.024	0.004	20:00 hr	1.190	0.027	1.559	0.040	0.003	0.034
85BD3	5790	5794	8	0.021	0.005	20:00 hr	1.269	0.033	1.504	0.049	0.005	0.040
85BC6	5794	LS5	8	0.016	0.086	20:41 hr	2.668	0.134	1.537	0.201	0.088	0.167
85BBD	5772	5794	8	0.015	0.080	20:43 hr	2.543	0.131	1.483	0.196	0.084	0.160
85BA1	5796	5798	8	0.028	0.004	20:00 hr	1.312	0.027	1.712	0.041	0.003	0.036
85B97	5798	5800	8	0.041	0.006	20:14 hr	1.630	0.029	2.074	0.043	0.004	0.041
85B8E	5802	LS3	8	0.009	0.032	20:44 hr	1.642	0.094	1.139	0.141	0.043	0.100
85B64	5806	5802	8	0.009	0.003	20:00 hr	0.827	0.032	0.987	0.049	0.005	0.032
85B5B	5808	5802	8	0.016	0.026	20:30 hr	1.897	0.075	1.479	0.112	0.027	0.091
85B43	5810	5808	8	0.006	0.004	20:00 hr	0.764	0.041	0.808	0.062	0.008	0.037
85B32	5800	5808	8	0.008	0.018	20:26 hr	1.326	0.075	1.034	0.112	0.027	0.076
85B16	5814	5812	8	0.012	0.001	20:00 hr	0.609	0.017	1.017	0.025	0.001	0.017
85B09	5812	5816	8	0.012	0.002	20:10 hr	0.819	0.025	1.115	0.038	0.003	0.026
85AE4	5816	5818	8	0.013	0.006	20:14 hr	1.091	0.038	1.207	0.057	0.006	0.041
85ADA	5818	5820	8	0.012	0.009	20:25 hr	1.232	0.048	1.211	0.071	0.010	0.052
85ACC	5820	5822	8	0.005	0.011	20:27 hr	0.927	0.065	0.776	0.098	0.020	0.057

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
857C9	5822	5800	8	0.006	0.012	20:26 hr	1.044	0.065	0.871	0.098	0.020	0.061
85675	5826	5824	8	0.006	0.003	20:00 hr	0.686	0.033	0.811	0.050	0.005	0.030
8566C	5824	5828	8	0.012	0.005	20:14 hr	1.007	0.036	1.145	0.054	0.006	0.038
85654	5830	5832	8	0.007	0.003	20:00 hr	0.744	0.035	0.857	0.052	0.005	0.032
8563C	5828	5832	8	0.026	0.009	20:15 hr	1.606	0.040	1.723	0.060	0.007	0.053
85623	5832	5834	8	0.018	0.016	20:18 hr	1.677	0.057	1.501	0.086	0.015	0.070
855F8	5838	5836	8	0.022	0.005	20:00 hr	1.268	0.032	1.526	0.048	0.004	0.039
855D0	5842	5840	8	0.039	0.006	20:00 hr	1.653	0.030	2.043	0.045	0.004	0.043
855A5	5846	5844	8	0.025	0.005	20:00 hr	1.315	0.030	1.625	0.045	0.004	0.039
8558A	5850	5848	8	0.035	0.004	20:00 hr	1.423	0.026	1.891	0.039	0.003	0.036
85569	5852	5854	8	0.021	0.003	20:00 hr	1.067	0.025	1.448	0.038	0.003	0.030
85551	5856	5854	8	0.039	0.004	20:00 hr	1.493	0.026	1.992	0.039	0.003	0.037
85538	5854	5848	8	0.030	0.010	20:14 hr	1.732	0.040	1.854	0.060	0.007	0.055
8552F	5848	5858	8	0.004	0.016	20:25 hr	0.993	0.083	0.732	0.125	0.033	0.071
8551E	5858	5860	8	0.004	0.018	20:30 hr	1.012	0.087	0.729	0.131	0.037	0.074
854FD	5860	5834	8	0.004	0.399	29:00 hr	2.442	0.453	0.783	0.680	0.806	0.370
854EC	5834	5862	8	0.004	0.396	44:15 hr	2.541	0.435	0.828	0.652	0.759	0.368
854DA	5862	5844	8	0.014	0.381	44:15 hr	3.932	0.296	1.493	0.444	0.407	0.361
854C5	5844	5840	8	0.008	0.384	44:15 hr	3.165	0.353	1.114	0.529	0.550	0.362
854B8	5840	5864	8	0.010	0.375	44:15 hr	3.487	0.321	1.277	0.481	0.469	0.358
854AB	5864	5836	8	0.012	0.371	44:15 hr	3.620	0.309	1.348	0.464	0.440	0.356
8549A	5836	5866	8	0.013	0.371	44:15 hr	3.727	0.303	1.401	0.454	0.423	0.356
85491	5866	3978	8	0.028	0.363	44:15 hr	4.958	0.240	2.087	0.360	0.278	0.352
85270	5868	2300	8	0.029	0.001	20:00 hr	0.873	0.015	1.559	0.022	0.001	0.018
8525A	5870	5872	8	0.025	0.004	20:13 hr	1.201	0.026	1.597	0.039	0.003	0.033
8522F	5872	5874	8	0.025	0.006	20:14 hr	1.409	0.033	1.665	0.050	0.005	0.043
8521E	5874	5876	8	0.025	0.009	20:15 hr	1.603	0.040	1.713	0.061	0.007	0.053
85201	5876	5878	8	0.026	0.011	20:29 hr	1.715	0.044	1.761	0.065	0.009	0.058
851E9	5882	5880	8	0.014	0.002	20:00 hr	0.800	0.021	1.178	0.032	0.002	0.023
851D4	5880	5884	8	0.014	0.003	20:13 hr	0.955	0.029	1.208	0.043	0.004	0.032
8519B	5884	5886	8	0.015	0.006	20:15 hr	1.165	0.037	1.308	0.055	0.006	0.042
8517E	5886	5888	8	0.012	0.009	20:25 hr	1.227	0.048	1.205	0.071	0.010	0.052
8515F	5888	5890	8	0.013	0.011	20:23 hr	1.346	0.053	1.251	0.080	0.013	0.059
8513D	5892	5890	8	0.026	0.003	20:00 hr	1.194	0.025	1.622	0.038	0.003	0.032
8512B	5890	5894	8	0.006	0.016	20:25 hr	1.134	0.077	0.873	0.115	0.028	0.072
8511E	5894	5878	8	0.005	0.018	20:28 hr	1.094	0.084	0.805	0.126	0.034	0.075
85108	5878	5896	8	0.013	0.030	20:40 hr	1.834	0.084	1.347	0.126	0.034	0.098
850FF	5896	5898	8	0.038	0.032	20:30 hr	2.713	0.066	2.251	0.099	0.021	0.100
850E6	5900	5870	8	0.019	0.002	20:00 hr	0.886	0.020	1.335	0.031	0.002	0.024
850B4	5902	5904	8	0.005	0.004	20:00 hr	0.663	0.039	0.723	0.058	0.007	0.033
85098	5904	5906	8	0.016	0.007	20:13 hr	1.262	0.040	1.353	0.060	0.007	0.047
85074	5908	5906	8	0.015	0.002	20:00 hr	0.863	0.024	1.205	0.036	0.002	0.026
85067	5910	5494	8	0.020	0.013	20:24 hr	1.648	0.051	1.572	0.076	0.012	0.063
85060	5906	5910	8	0.025	0.011	20:14 hr	1.715	0.045	1.731	0.068	0.009	0.060
8503D	5912	5914	8	0.034	0.002	20:00 hr	1.092	0.018	1.758	0.027	0.001	0.024
84FFF	5914	5916	8	0.019	0.006	20:12 hr	1.275	0.035	1.455	0.053	0.006	0.043
84FEA	5916	5918	8	0.025	0.009	20:29 hr	1.593	0.041	1.692	0.061	0.007	0.053
84FC5	5918	5920	8	0.031	0.011	20:28 hr	1.837	0.043	1.908	0.064	0.008	0.059
8451D	5920	5898	8	0.007	0.013	20:28 hr	1.152	0.065	0.969	0.097	0.019	0.063
84504	5898	5922	8	0.007	0.046	20:45 hr	1.704	0.119	1.045	0.178	0.069	0.122
844EC	5588	5924	8	0.002	0.027	20:37 hr	0.958	0.120	0.584	0.181	0.071	0.092
844CF	5924	5926	8	0.003	0.029	20:45 hr	1.068	0.118	0.656	0.177	0.069	0.096
844BA	5926	5922	8	0.005	0.031	20:41 hr	1.267	0.110	0.810	0.165	0.059	0.099
844B1	5922	5524	8	0.005	0.078	20:43 hr	1.744	0.168	0.889	0.252	0.140	0.159
8449C	5928	5930	12	0.005	0.121	20:57 hr	1.908	0.183	0.943	0.183	0.073	0.178
8449B	5422	5928	12	0.003	0.122	20:58 hr	1.584	0.209	0.730	0.209	0.095	0.178
843B7	4008	5972	12	0.005	0.639	21:00 hr	3.019	0.434	0.946	0.434	0.391	0.417
843AE	5972	5974	12	0.005	0.639	21:00 hr	2.905	0.448	0.897	0.448	0.413	0.418
8439F	5974	5976	12	0.002	0.641	21:00 hr	2.118	0.576	0.589	0.576	0.630	0.418
84397	5976	5978	12	0.006	0.640	21:00 hr	3.268	0.410	1.053	0.410	0.352	0.418
8438E	5982	5980	8	0.003	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
8438A	5986	5984	8	0.003	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
8437A	5980	3616	15	0.003	1.016	45:00 hr	2.789	0.585	0.755	0.468	0.446	0.497

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
84376	5984	5980	15	0.019	1.016	45:00 hr	5.449	0.356	1.899	0.285	0.177	0.497
8436F	5930	5984	15	0.008	1.018	45:00 hr	3.937	0.452	1.208	0.362	0.280	0.497
8435A	5988	4032	8	0.008	0.102	07:44 hr	2.214	0.172	1.116	0.258	0.146	0.182
8434E	5990	5988	8	0.026	0.009	07:00 hr	1.595	0.040	1.718	0.060	0.007	0.052
8434A	5992	5988	8	0.005	0.093	07:30 hr	1.864	0.182	0.910	0.273	0.163	0.174
84341	5994	5992	8	0.006	0.088	07:15 hr	1.922	0.171	0.971	0.257	0.145	0.169
84335	5996	5994	8	0.001	0.088	07:01 hr	0.763	0.338	0.273	0.507	0.512	0.168
755B4	5998	5930	12	0.014	0.898	44:59 hr	4.855	0.393	1.598	0.393	0.325	0.499
7557D	6002	6000	8	0.019	0.009	20:00 hr	1.433	0.042	1.499	0.063	0.008	0.052
7557A	6000	6004	8	0.013	0.013	20:15 hr	1.428	0.056	1.290	0.084	0.015	0.064
75547	6004	6006	8	0.020	0.021	20:14 hr	1.925	0.064	1.629	0.096	0.019	0.082
75533	6010	6008	8	0.013	0.005	20:00 hr	1.028	0.035	1.185	0.052	0.005	0.038
7551D	6012	6008	8	0.019	0.007	20:00 hr	1.345	0.038	1.473	0.058	0.007	0.047
7550A	6008	6014	8	0.015	0.016	20:15 hr	1.609	0.060	1.410	0.089	0.016	0.071
75497	6014	6016	8	0.018	0.022	20:18 hr	1.893	0.067	1.563	0.100	0.021	0.084
75493	6016	6018	8	0.017	0.031	20:22 hr	2.027	0.079	1.536	0.119	0.030	0.098
75490	6018	6020	8	0.017	0.038	20:27 hr	2.159	0.088	1.552	0.131	0.037	0.110
7548D	6020	6022	8	0.017	0.044	20:28 hr	2.268	0.094	1.568	0.142	0.043	0.119
75465	6024	6026	8	0.031	0.004	20:00 hr	1.305	0.025	1.762	0.038	0.003	0.034
75455	6026	6028	8	0.018	0.013	20:00 hr	1.605	0.052	1.505	0.078	0.012	0.064
75442	6028	6030	8	0.012	0.014	20:00 hr	1.443	0.059	1.265	0.089	0.016	0.067
75423	6030	6032	8	0.013	0.018	20:00 hr	1.572	0.066	1.302	0.100	0.021	0.076
7541C	6032	6034	8	0.014	0.023	20:13 hr	1.751	0.073	1.387	0.109	0.025	0.086
753E5	6034	6036	8	0.012	0.029	20:15 hr	1.768	0.084	1.300	0.126	0.034	0.096
753E2	6036	6038	8	0.008	0.033	20:14 hr	1.599	0.098	1.083	0.147	0.047	0.102
753DF	6038	6040	8	0.030	0.037	20:14 hr	2.599	0.076	2.011	0.114	0.027	0.108
753BD	6044	6042	8	0.012	0.014	20:00 hr	1.414	0.059	1.242	0.089	0.016	0.066
753AA	6042	6046	8	0.018	0.021	20:15 hr	1.836	0.066	1.530	0.098	0.020	0.081
7536F	6046	6048	8	0.023	0.034	20:14 hr	2.316	0.078	1.773	0.116	0.029	0.104
75360	6048	6050	8	0.014	0.046	20:25 hr	2.141	0.101	1.434	0.151	0.049	0.121
75350	6050	6040	8	0.009	0.051	20:25 hr	1.883	0.119	1.156	0.178	0.069	0.128
75339	6040	6022	8	0.009	0.095	20:29 hr	2.282	0.160	1.196	0.240	0.126	0.175
7531A	6022	6006	8	0.016	0.147	20:40 hr	3.138	0.174	1.572	0.261	0.149	0.220
7530A	6006	5998	8	0.026	0.176	20:43 hr	3.953	0.167	2.021	0.251	0.138	0.241
75307	6052	5998	12	0.010	0.720	20:59 hr	3.945	0.389	1.305	0.389	0.320	0.444
752FB	6056	6054	8	0.005	0.034	20:28 hr	1.381	0.110	0.880	0.166	0.060	0.104
752ED	6058	6056	8	0.006	0.007	20:00 hr	0.877	0.051	0.832	0.076	0.012	0.046
752D2	6060	6056	8	0.023	0.021	20:14 hr	2.016	0.062	1.729	0.093	0.018	0.082
752A7	6062	6060	8	0.017	0.012	20:13 hr	1.529	0.051	1.452	0.076	0.012	0.061
75295	6064	6062	8	0.016	0.005	20:14 hr	1.153	0.035	1.323	0.053	0.005	0.040
75282	6066	6064	8	0.015	0.004	20:00 hr	1.047	0.032	1.255	0.048	0.004	0.036
7526B	6070	6068	8	0.017	0.004	20:00 hr	1.092	0.030	1.360	0.045	0.004	0.035
75268	6068	6072	8	0.016	0.006	20:00 hr	1.229	0.037	1.364	0.056	0.006	0.044
75246	6074	6072	8	0.014	0.003	20:00 hr	0.947	0.029	1.198	0.043	0.004	0.032
75221	6072	6076	8	0.012	0.013	20:13 hr	1.383	0.058	1.225	0.087	0.016	0.065
751EE	6076	6054	8	0.021	0.021	20:20 hr	1.937	0.063	1.653	0.094	0.018	0.081
751BB	6054	6078	8	0.005	0.062	20:30 hr	1.632	0.150	0.886	0.225	0.111	0.141
751B4	5978	6052	12	0.008	0.639	21:00 hr	3.547	0.385	1.179	0.385	0.314	0.417
75179	6078	6080	8	0.010	0.070	20:36 hr	2.168	0.133	1.251	0.200	0.088	0.150
7515E	6080	6052	8	0.014	0.077	20:38 hr	2.468	0.131	1.441	0.196	0.084	0.157
7513F	6082	3482	8	0.004	0.066	20:44 hr	1.526	0.164	0.788	0.247	0.133	0.145
75139	3112	6082	8	0.012	0.066	20:43 hr	2.273	0.124	1.366	0.185	0.075	0.145
7512A	3160	3486	8	0.009	0.056	20:42 hr	1.962	0.123	1.181	0.185	0.075	0.134
7511A	3130	6084	8	0.006	0.054	20:43 hr	1.699	0.132	0.988	0.197	0.085	0.131
75111	6084	6086	8	0.012	0.054	20:43 hr	2.091	0.115	1.305	0.173	0.065	0.132
75104	6086	3496	8	0.004	0.054	20:44 hr	1.478	0.147	0.811	0.220	0.106	0.132
74F8E	6088	4488	8	0.018	0.002	20:00 hr	0.909	0.022	1.321	0.033	0.002	0.025
74F7E	4488	6090	8	0.004	0.015	20:30 hr	0.995	0.078	0.757	0.118	0.029	0.068
74F6A	6090	6092	8	0.007	0.017	20:25 hr	1.235	0.075	0.963	0.112	0.027	0.074
74F5E	6092	6094	8	0.011	0.019	20:29 hr	1.497	0.071	1.199	0.107	0.024	0.078
74F0E	4484	6096	8	0.004	0.054	20:29 hr	1.465	0.147	0.804	0.220	0.106	0.131
74EF9	6096	6098	8	0.004	0.069	20:33 hr	1.535	0.169	0.782	0.253	0.140	0.149
74EE9	6098	6100	8	0.005	0.072	20:44 hr	1.660	0.165	0.856	0.247	0.134	0.152

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
74ECD	6100	6094	8	0.004	0.079	20:37 hr	1.589	0.181	0.780	0.271	0.161	0.159
74EB9	6094	6102	8	0.010	0.109	20:42 hr	2.415	0.170	1.227	0.254	0.142	0.188
74EA5	6102	6104	8	0.008	0.112	20:43 hr	2.244	0.182	1.097	0.273	0.163	0.191
74E9E	6104	6106	8	0.010	0.114	20:45 hr	2.435	0.174	1.220	0.261	0.149	0.193
74E81	6106	6108	8	0.009	0.120	20:45 hr	2.435	0.181	1.196	0.271	0.160	0.198
74E75	6108	1374	8	0.003	0.129	20:45 hr	1.684	0.249	0.697	0.373	0.296	0.205
74E60	1374	6110	8	0.005	0.145	20:57 hr	2.063	0.233	0.882	0.350	0.262	0.218
74E38	6110	6112	8	0.006	0.148	20:48 hr	2.258	0.222	0.991	0.333	0.239	0.221
74E1D	6112	6114	8	0.010	0.155	20:58 hr	2.669	0.203	1.230	0.304	0.201	0.226
74E04	6114	6116	8	0.004	0.163	20:58 hr	1.902	0.269	0.756	0.404	0.343	0.231
74DD5	6120	6118	8	0.010	0.004	20:00 hr	0.891	0.034	1.037	0.051	0.005	0.035
74DA8	6118	6116	8	0.013	0.008	20:14 hr	1.199	0.044	1.227	0.066	0.009	0.049
74D94	6116	6122	8	0.005	0.173	20:59 hr	2.210	0.252	0.908	0.378	0.304	0.239
74D80	6122	6124	8	0.007	0.174	20:59 hr	2.410	0.238	1.019	0.357	0.273	0.240
74D65	6126	4542	8	0.004	0.183	20:59 hr	2.108	0.272	0.833	0.408	0.350	0.246
74D5A	6128	4528	8	0.015	0.037	20:36 hr	2.032	0.090	1.442	0.135	0.039	0.108
74D55	6124	6126	8	0.005	0.176	20:59 hr	2.180	0.259	0.884	0.388	0.319	0.241
74B6C	6132	6130	8	0.009	0.000	20:00 hr	0.433	0.012	0.854	0.018	0.001	0.011
74B69	6130	6134	8	0.008	0.002	20:00 hr	0.643	0.023	0.908	0.035	0.002	0.022
74B66	6134	6136	8	0.005	0.003	20:14 hr	0.642	0.037	0.714	0.056	0.006	0.031
74B63	6136	6138	8	0.003	0.005	20:14 hr	0.625	0.050	0.601	0.075	0.011	0.038
74B2B	6142	6140	8	0.002	0.003	20:13 hr	0.512	0.045	0.518	0.067	0.009	0.032
74B28	6140	6144	8	0.004	0.005	20:15 hr	0.689	0.047	0.683	0.070	0.010	0.039
74B14	6144	6138	8	0.011	0.007	20:15 hr	1.111	0.042	1.160	0.063	0.008	0.046
74B00	6138	6146	8	0.011	0.013	20:30 hr	1.339	0.059	1.175	0.089	0.016	0.064
74AF0	6148	4520	8	0.003	0.043	20:36 hr	1.200	0.144	0.665	0.216	0.102	0.117
74AEC	6146	6148	8	0.010	0.015	20:27 hr	1.374	0.063	1.168	0.095	0.019	0.068
74AC4	6150	6148	8	0.008	0.012	20:24 hr	1.191	0.060	1.043	0.089	0.017	0.061
74AA9	6152	6148	8	0.012	0.015	20:28 hr	1.442	0.060	1.255	0.091	0.017	0.068
74A90	6154	6152	8	0.004	0.012	20:38 hr	0.925	0.072	0.733	0.109	0.025	0.062
74A74	6156	6154	8	0.004	0.010	20:24 hr	0.868	0.066	0.721	0.099	0.021	0.056
74A53	6158	6156	8	0.003	0.008	20:15 hr	0.763	0.061	0.661	0.092	0.017	0.050
74A36	6160	6158	8	0.010	0.001	20:00 hr	0.642	0.021	0.960	0.031	0.002	0.020
74A22	6162	6158	8	0.003	0.005	20:14 hr	0.666	0.050	0.641	0.074	0.011	0.040
74A12	6164	6162	8	0.004	0.003	20:13 hr	0.582	0.038	0.639	0.058	0.007	0.031
749FE	6166	6164	8	0.004	0.003	20:15 hr	0.552	0.035	0.635	0.052	0.005	0.028
749EA	6168	6166	8	0.003	0.002	20:00 hr	0.442	0.031	0.541	0.046	0.004	0.023
749D5	6170	6142	8	0.036	0.001	19:00 hr	0.789	0.010	1.682	0.016	0.000	0.013
749B5	8920	6142	8	0.013	0.001	20:00 hr	0.710	0.020	1.090	0.030	0.002	0.021
7497E	6172	6174	8	0.008	0.001	19:00 hr	0.513	0.016	0.870	0.025	0.001	0.015
74974	6174	6176	8	0.008	0.003	20:00 hr	0.744	0.031	0.909	0.047	0.004	0.030
74955	6176	6178	8	0.009	0.005	20:14 hr	0.943	0.040	1.017	0.059	0.007	0.040
74919	6178	6150	8	0.008	0.008	20:14 hr	1.062	0.051	1.007	0.077	0.012	0.051
7476A	6182	6180	8	0.009	0.003	20:00 hr	0.787	0.029	0.987	0.044	0.004	0.029
74767	6180	6184	8	0.013	0.006	20:13 hr	1.102	0.038	1.210	0.057	0.006	0.042
74764	6184	6186	8	0.012	0.009	20:14 hr	1.210	0.048	1.185	0.072	0.010	0.052
74717	6186	6188	8	0.015	0.013	20:27 hr	1.472	0.054	1.351	0.082	0.014	0.063
746E1	6192	6190	8	0.013	0.004	20:00 hr	1.013	0.034	1.181	0.051	0.005	0.037
746B9	6190	6194	8	0.016	0.008	20:14 hr	1.291	0.042	1.348	0.063	0.008	0.049
74691	6194	6196	8	0.014	0.012	20:26 hr	1.423	0.052	1.334	0.078	0.012	0.060
74655	6196	6198	8	0.015	0.016	20:30 hr	1.585	0.060	1.383	0.090	0.017	0.071
74638	6198	6128	8	0.011	0.019	20:38 hr	1.478	0.071	1.188	0.106	0.024	0.077
74621	6188	6128	8	0.010	0.017	20:29 hr	1.403	0.067	1.160	0.100	0.021	0.072
337F23	8926	8924	10	0.002	0.182	20:41 hr	1.477	0.317	0.541	0.380	0.307	0.230
2CA296	9576	9574	8	0.004	0.247	44:45 hr	2.184	0.334	0.786	0.502	0.503	0.288
2CA28F	9578	9580	8	0.011	0.107	44:44 hr	2.507	0.163	1.299	0.245	0.132	0.187
2CA288	9582	9584	8	0.014	0.007	20:14 hr	1.192	0.040	1.288	0.059	0.007	0.045
2CA285	9586	9582	8	0.016	0.005	20:13 hr	1.118	0.033	1.334	0.049	0.005	0.038
2CA27D	9588	9586	8	0.016	0.003	20:14 hr	0.972	0.026	1.288	0.040	0.003	0.030
2CA275	9590	9588	8	0.007	0.001	20:00 hr	0.512	0.020	0.780	0.030	0.002	0.018
2CA268	9592	9580	8	0.027	0.000	08:00 hr	0.567	0.008	1.405	0.012	0.000	0.009
2CA260	9590	9594	8	0.009	0.109	44:44 hr	2.334	0.173	1.172	0.260	0.148	0.188
2CA258	9594	9596	8	0.009	0.110	44:44 hr	2.346	0.174	1.173	0.262	0.150	0.189

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2CA24C	9598	9600	8	0.004	0.004	20:13 hr	0.619	0.043	0.641	0.064	0.008	0.034
2CA249	9602	9598	8	0.008	0.002	20:00 hr	0.717	0.029	0.908	0.043	0.004	0.027
2CA236	9604	9576	8	0.003	0.126	20:45 hr	1.725	0.240	0.727	0.360	0.277	0.203
2CA233	9606	9576	8	0.003	0.120	44:44 hr	1.710	0.233	0.732	0.349	0.262	0.198
2CA22B	9608	9606	8	0.004	0.119	44:44 hr	1.774	0.225	0.773	0.338	0.246	0.197
2CA223	9600	9608	8	0.017	0.118	44:44 hr	2.998	0.154	1.605	0.231	0.117	0.196
2CA21B	9610	9600	8	0.015	0.114	44:44 hr	2.851	0.156	1.516	0.233	0.119	0.193
2CA213	9596	9610	8	0.013	0.113	44:45 hr	2.728	0.159	1.433	0.239	0.125	0.192
2CA1FF	9614	9612	8	0.005	0.106	20:43 hr	1.843	0.201	0.854	0.301	0.198	0.185
2CA1FC	9612	9616	8	0.016	0.107	20:43 hr	2.856	0.149	1.557	0.223	0.109	0.186
2CA1F2	9616	9584	8	0.010	0.109	20:44 hr	2.462	0.167	1.261	0.250	0.137	0.188
2CA1EA	9584	9618	8	0.003	0.117	20:44 hr	1.697	0.230	0.731	0.345	0.256	0.195
2CA1E2	9618	9604	8	0.003	0.120	20:45 hr	1.706	0.233	0.730	0.349	0.262	0.198
2CA1CD	9622	9620	8	0.009	0.011	20:00 hr	1.188	0.058	1.055	0.087	0.016	0.060
2CA1CA	9620	9624	8	0.005	0.013	20:15 hr	1.012	0.073	0.801	0.109	0.025	0.065
2CA1C7	9624	9614	8	0.007	0.015	20:28 hr	1.168	0.071	0.932	0.107	0.024	0.069
2CA1B5	9626	9614	8	0.022	0.089	20:39 hr	3.052	0.124	1.829	0.186	0.076	0.169
2CA1AD	9628	9626	8	0.027	0.087	20:36 hr	3.228	0.118	1.990	0.176	0.068	0.167
2CA1A5	9630	9628	8	0.016	0.085	20:40 hr	2.664	0.133	1.543	0.199	0.086	0.165
2C8B04	9634	9632	8	0.049	0.006	20:00 hr	1.763	0.028	2.263	0.042	0.003	0.042
2C8AFC	9632	9636	8	0.021	0.009	20:15 hr	1.495	0.043	1.553	0.064	0.008	0.053
2C8AF4	9636	9638	8	0.021	0.011	20:26 hr	1.592	0.047	1.575	0.070	0.010	0.059
2C8AEC	9638	9640	8	0.030	0.014	20:23 hr	1.941	0.048	1.907	0.071	0.010	0.066
2C8AE4	9642	3548	8	0.026	0.035	20:28 hr	2.456	0.076	1.895	0.114	0.028	0.106
2C8ADD	9640	9642	8	0.052	0.016	20:27 hr	2.463	0.045	2.500	0.067	0.009	0.071
2C8AD5	9644	9642	8	0.014	0.015	20:14 hr	1.523	0.059	1.345	0.088	0.016	0.068
2C8ACD	9646	9644	8	0.068	0.011	20:00 hr	2.375	0.035	2.746	0.052	0.005	0.057
2C5D33	9648	9650	8	0.004	0.082	20:45 hr	1.654	0.182	0.809	0.273	0.163	0.163
2C5D2B	9654	9652	8	0.004	0.080	20:44 hr	1.590	0.184	0.773	0.276	0.166	0.161
2C5D24	9652	9648	8	0.004	0.083	20:45 hr	1.559	0.190	0.745	0.285	0.177	0.163
2C5CB9	8924	9662	10	0.005	0.984	21:00 hr	3.368	0.643	0.953	0.772	0.942	0.553
2C5CAA	9664	8924	10	0.001	0.802	21:00 hr	2.274	0.833	0.439	1.000	2.276	0.497
2C5BBF	9574	9666	8	0.004	0.248	20:59 hr	2.142	0.340	0.766	0.510	0.516	0.288
2C5BB7	9666	9668	8	0.007	0.248	20:59 hr	2.626	0.290	1.007	0.435	0.393	0.288
2C5BAF	9668	9670	8	0.006	0.250	20:59 hr	2.550	0.299	0.964	0.449	0.415	0.290
2C5BA7	9670	9672	8	0.004	0.343	44:45 hr	2.395	0.404	0.802	0.606	0.682	0.341
2C5BA4	9674	9670	8	0.004	0.092	20:45 hr	1.703	0.193	0.806	0.290	0.183	0.173
2C5BA1	9676	9674	8	0.004	0.091	20:45 hr	1.689	0.193	0.801	0.289	0.182	0.172
2C5B9A	9650	9676	8	0.004	0.087	20:45 hr	1.672	0.188	0.803	0.282	0.174	0.168
2C5B32	9678	84	8	0.019	0.382	20:59 hr	4.346	0.275	1.708	0.413	0.358	0.362
2C5B2F	9680	9678	8	0.008	0.379	20:59 hr	3.143	0.351	1.108	0.527	0.546	0.360
2C5B27	9682	9680	8	0.008	0.373	21:00 hr	3.141	0.347	1.113	0.521	0.535	0.357
2C5B1B	9684	9682	8	0.004	0.006	20:00 hr	0.747	0.054	0.687	0.081	0.013	0.045
2C5B14	9686	9682	8	0.008	0.362	20:59 hr	3.111	0.342	1.109	0.513	0.522	0.352
2C5B06	9688	9686	8	0.004	0.004	20:00 hr	0.660	0.045	0.670	0.067	0.009	0.037
2C5AFF	9690	9686	8	0.008	0.353	44:45 hr	3.091	0.336	1.109	0.504	0.507	0.346
2C5AF1	9672	9690	8	0.004	0.343	44:45 hr	2.385	0.406	0.797	0.609	0.688	0.342
2C373B	9692	9694	8	0.029	0.050	20:42 hr	2.824	0.088	2.028	0.132	0.037	0.126
2C3738	9696	9692	8	0.029	0.049	20:39 hr	2.804	0.087	2.018	0.131	0.037	0.125
2C3730	9698	9696	8	0.024	0.046	20:39 hr	2.563	0.089	1.824	0.134	0.039	0.121
2C3728	9700	9698	8	0.007	0.043	20:29 hr	1.669	0.114	1.046	0.171	0.064	0.117
2C3725	9702	9700	8	0.008	0.041	20:29 hr	1.726	0.108	1.111	0.163	0.057	0.114
2C3712	9704	9706	8	0.003	0.077	20:43 hr	1.506	0.185	0.729	0.278	0.168	0.157
2C370C	9708	9704	8	0.003	0.074	20:45 hr	1.483	0.181	0.726	0.272	0.162	0.154
2C3704	9710	9708	8	0.003	0.071	20:44 hr	1.475	0.177	0.732	0.265	0.154	0.151
2C36FC	9694	9710	8	0.003	0.069	20:43 hr	1.463	0.175	0.730	0.263	0.151	0.149
2C36F5	9712	9694	8	0.003	0.019	20:26 hr	0.996	0.094	0.692	0.140	0.042	0.078
2C36F1	9714	9712	8	0.003	0.018	20:15 hr	0.975	0.089	0.695	0.134	0.038	0.074
2C36E3	9716	9714	8	0.017	0.013	20:13 hr	1.568	0.054	1.447	0.081	0.013	0.065
2C36D6	9718	9716	8	0.019	0.008	20:13 hr	1.379	0.040	1.486	0.060	0.007	0.049
2C36CE	9720	9718	8	0.017	0.006	20:13 hr	1.209	0.036	1.363	0.054	0.006	0.042
2C36C6	9722	9720	8	0.017	0.003	20:00 hr	0.995	0.027	1.314	0.040	0.003	0.030
2C36B3	9724	9726	8	0.004	0.003	20:00 hr	0.624	0.039	0.677	0.059	0.007	0.032

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
2C36B0	9726	9728	8	0.009	0.005	20:14 hr	0.948	0.040	1.015	0.060	0.007	0.040	
2C369F	9730	9732	8	0.012	0.016	20:00 hr	1.476	0.064	1.243	0.097	0.019	0.072	
2C3697	9732	9734	8	0.012	0.019	20:15 hr	1.556	0.069	1.261	0.104	0.023	0.078	
2C368C	9734	9728	8	0.013	0.021	20:25 hr	1.641	0.070	1.320	0.106	0.023	0.081	
2C3684	9728	9736	8	0.011	0.027	20:28 hr	1.688	0.082	1.253	0.124	0.032	0.092	
2C367C	9736	9702	8	0.011	0.029	20:29 hr	1.715	0.085	1.255	0.127	0.034	0.095	
2C3674	9738	9702	8	0.005	0.010	20:00 hr	0.960	0.063	0.817	0.095	0.019	0.057	
2C133F	9740	9742	8	0.019	0.079	20:28 hr	2.775	0.123	1.673	0.184	0.074	0.160	
2C1336	9744	9740	8	0.023	0.076	20:15 hr	2.965	0.114	1.858	0.171	0.064	0.157	
2C1333	9746	9744	8	0.022	0.074	20:15 hr	2.873	0.115	1.794	0.172	0.065	0.155	
2C1324	9748	9746	8	0.022	0.072	20:00 hr	2.873	0.113	1.813	0.169	0.062	0.153	
2C130D	9750	9752	8	0.004	0.065	20:00 hr	1.484	0.166	0.763	0.249	0.135	0.144	
2C1306	9752	9754	8	0.004	0.066	20:15 hr	1.473	0.169	0.749	0.254	0.141	0.146	
2C12FB	9756	9754	8	0.003	0.006	20:00 hr	0.688	0.051	0.651	0.077	0.012	0.041	
2C12F8	9758	9756	8	0.003	0.004	20:00 hr	0.607	0.042	0.633	0.063	0.008	0.034	
2C12F5	9760	9758	8	0.003	0.003	20:00 hr	0.563	0.038	0.620	0.057	0.006	0.030	
2C12C9	9762	9764	8	0.005	0.007	20:00 hr	0.819	0.055	0.751	0.082	0.014	0.047	
2C12C1	9764	9766	8	0.003	0.009	20:15 hr	0.800	0.065	0.670	0.098	0.020	0.053	
2C12B8	9768	9766	8	0.003	0.076	20:45 hr	1.494	0.184	0.726	0.276	0.166	0.156	
2C12B5	9754	9768	8	0.003	0.074	20:29 hr	1.489	0.181	0.730	0.271	0.161	0.154	
2C129C	9772	9770	8	0.010	0.003	20:00 hr	0.838	0.031	1.019	0.047	0.004	0.032	
2C1299	9770	9774	8	0.010	0.004	20:13 hr	0.904	0.035	1.036	0.053	0.005	0.036	
2C127B	9776	9778	8	0.026	0.008	20:15 hr	1.540	0.037	1.716	0.056	0.006	0.049	
2C1278	9780	9776	8	0.026	0.007	20:28 hr	1.496	0.035	1.710	0.053	0.005	0.046	
2C1275	9774	9780	8	0.026	0.006	20:14 hr	1.414	0.032	1.690	0.048	0.005	0.042	
2C1272	9782	9774	8	0.027	0.001	19:00 hr	0.747	0.012	1.472	0.018	0.001	0.015	
2C123D	9784	9786	8	0.003	0.016	20:29 hr	0.942	0.085	0.687	0.128	0.035	0.071	
2C123A	9778	9784	8	0.003	0.014	20:15 hr	0.920	0.081	0.690	0.121	0.031	0.067	
2C1232	9788	9778	8	0.003	0.005	20:00 hr	0.667	0.049	0.643	0.074	0.011	0.040	
2C121D	9786	9790	8	0.007	0.106	44:43 hr	2.160	0.180	1.063	0.270	0.159	0.186	
2C1219	9792	9786	8	0.011	0.089	20:44 hr	2.385	0.148	1.303	0.222	0.108	0.170	
2C1211	9766	9792	8	0.011	0.087	20:42 hr	2.372	0.146	1.305	0.219	0.105	0.168	
2C1131	9804	9630	8	0.016	0.083	20:34 hr	2.682	0.130	1.569	0.195	0.083	0.164	
2C111F	9742	9804	8	0.004	0.082	20:29 hr	1.543	0.191	0.735	0.286	0.179	0.163	
2C1103	9806	9578	8	0.010	0.107	44:42 hr	2.430	0.167	1.247	0.250	0.137	0.187	
2C10F9	9790	9806	8	0.003	0.107	44:44 hr	1.660	0.219	0.734	0.328	0.233	0.187	
2C10E5	9706	9808	8	0.004	0.077	20:44 hr	1.520	0.184	0.739	0.276	0.166	0.157	
2C10DB	9810	9654	8	0.005	0.079	20:44 hr	1.744	0.171	0.883	0.256	0.143	0.160	
2C10D4	9808	9810	8	0.003	0.079	20:43 hr	1.514	0.187	0.728	0.281	0.173	0.159	
2BEED2	9812	9814	8	0.048	0.005	20:00 hr	1.718	0.028	2.227	0.041	0.003	0.041	
2AF729	9968	9970	8	0.065	0.016	20:00 hr	2.634	0.042	2.765	0.063	0.008	0.070	
2AF721	9970	9972	8	0.022	0.020	20:15 hr	1.972	0.061	1.706	0.092	0.017	0.080	
2AF712	9974	3558	8	0.004	0.079	20:42 hr	1.596	0.181	0.783	0.271	0.161	0.160	
2AF70B	9814	9974	8	0.020	0.076	20:43 hr	2.790	0.119	1.712	0.178	0.069	0.156	
2AF702	9976	9814	8	0.020	0.070	20:42 hr	2.752	0.113	1.735	0.169	0.062	0.149	
2AF6F4	9978	9976	8	0.020	0.067	20:43 hr	2.707	0.111	1.719	0.167	0.061	0.147	
2AF6EB	9972	9978	8	0.022	0.062	20:42 hr	2.736	0.105	1.790	0.158	0.054	0.141	
2AF6DF	9980	9972	8	0.009	0.037	20:45 hr	1.707	0.101	1.139	0.152	0.050	0.108	
2AF6D7	9982	9980	8	0.006	0.031	20:29 hr	1.387	0.103	0.918	0.154	0.051	0.098	
2AF6CF	9984	9982	8	0.006	0.027	20:27 hr	1.336	0.098	0.908	0.146	0.046	0.093	
2AF6C7	9986	9984	8	0.069	0.012	20:00 hr	2.454	0.036	2.783	0.054	0.006	0.060	
2AF6BD	9988	9984	8	0.007	0.014	20:20 hr	1.162	0.069	0.945	0.103	0.022	0.067	
2AF6B5	9990	9988	8	0.006	0.012	20:15 hr	1.043	0.066	0.867	0.099	0.020	0.061	
2AF6AE	9992	9990	8	0.010	0.008	20:00 hr	1.110	0.047	1.099	0.070	0.010	0.049	
2C5CBF	9662	LS1	10	0.004	1.019	21:00 hr	2.889	0.833	0.788	1.000	1.181	0.563	
1020	974	LS9	4	0.011	0.976	44:59 hr	17.296	0.333	5.280	1.000	7.473	0.333	
1328	CH295	CH293	36	0.004	14.615	45:15 hr	5.907	1.598	0.977	0.533	0.556	1.530	
1348	CH281	CH1095	30	0.003	4.534	20:15 hr	3.821	1.001	0.787	0.400	0.338	0.879	
1350	CH315	CH319	30	0.003	6.194	20:15 hr	4.364	1.147	0.843	0.459	0.431	1.033	
1352	CH319	CH733	30	0.003	6.325	20:15 hr	4.387	1.160	0.843	0.464	0.440	1.045	
1360	CH327	CH325	30	0.003	5.430	21:15 hr	4.256	1.057	0.854	0.423	0.373	0.965	
1362	CH329	CH1069	12	0.003	0.764	19:15 hr	2.465	0.588	0.681	0.588	0.650	0.458	
1364	CH331	CH329	12	0.003	0.694	19:00 hr	2.411	0.553	0.681	0.553	0.591	0.436	

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
1366	CH333	CH331	12	0.004	0.577	43:00 hr	2.692	0.439	0.840	0.439	0.398	0.396
1370	CH337	CH335	8	0.004	0.133	18:00 hr	1.850	0.237	0.785	0.355	0.270	0.209
1374	CH341	CH339	24	0.002	1.642	20:30 hr	2.845	0.654	0.727	0.327	0.231	0.555
1376	CH317	CH341	24	0.002	1.640	20:30 hr	2.843	0.654	0.727	0.327	0.231	0.554
1378	CH343	CH345	15	0.004	1.525	19:00 hr	3.391	0.691	0.857	0.553	0.590	0.614
1380	CH345	CH347	18	0.004	2.672	19:00 hr	3.896	0.869	0.882	0.579	0.636	0.779
1382	CH347	CH349	18	0.004	3.214	19:15 hr	4.052	0.983	0.883	0.655	0.765	0.858
1384	CH349	CH351	21	0.004	3.740	19:30 hr	4.243	0.967	0.906	0.553	0.590	0.886
1386	CH351	CH353	24	0.004	4.823	19:45 hr	4.526	1.039	0.927	0.520	0.533	0.971
1390	CH353	CH315	30	0.003	6.073	20:00 hr	4.341	1.134	0.843	0.454	0.422	1.023
1392	CH357	CH359	8	0.007	0.584	18:00 hr	3.268	0.492	1.036	0.739	0.896	0.451
1394	CH359	CH353	10	0.007	1.063	18:30 hr	3.796	0.618	1.081	0.741	0.899	0.575
1396	CH361	CH363	12	0.002	0.411	18:15 hr	1.933	0.436	0.605	0.436	0.393	0.332
1400	CH365	CH367	8	0.004	0.243	18:00 hr	2.097	0.340	0.749	0.510	0.517	0.285
1402	CH367	CH369	10	0.004	0.415	18:30 hr	2.399	0.411	0.778	0.493	0.488	0.353
1404	CH369	CH371	15	0.002	0.735	43:00 hr	2.075	0.573	0.568	0.458	0.430	0.420
1406	CH371	CH351	15	0.002	0.923	18:59 hr	2.198	0.654	0.568	0.523	0.539	0.473
1408	CH373	CH375	8	0.003	0.211	18:00 hr	1.962	0.321	0.718	0.482	0.469	0.265
1412	CH377	CH379	8	0.004	0.322	18:00 hr	2.357	0.389	0.799	0.584	0.644	0.331
1414	CH379	CH381	10	0.004	0.566	18:30 hr	2.753	0.471	0.845	0.566	0.613	0.415
1416	CH381	CH383	12	0.004	0.781	18:45 hr	2.979	0.513	0.867	0.513	0.522	0.464
1420	CH385	CH387	12	0.004	1.077	19:00 hr	3.208	0.628	0.867	0.628	0.720	0.549
1422	CH387	CH389	12	0.004	1.155	18:59 hr	3.253	0.660	0.867	0.660	0.772	0.569
1424	CH389	CH391	15	0.004	1.224	43:00 hr	3.333	0.589	0.900	0.471	0.451	0.548
1426	CH391	CH393	15	0.005	1.341	19:00 hr	3.544	0.603	0.947	0.482	0.470	0.574
1428	CH393	CH395	24	0.003	4.110	19:45 hr	3.742	1.064	0.759	0.532	0.555	0.893
1430	CH395	CH397	24	0.003	4.201	19:45 hr	3.762	1.079	0.759	0.539	0.567	0.903
1438	CH407	CH409	18	0.004	1.570	43:00 hr	3.342	0.645	0.859	0.430	0.385	0.590
1440	CH409	CH411	18	0.004	1.698	19:15 hr	3.422	0.673	0.862	0.449	0.414	0.615
1442	CH411	CH413	18	0.004	1.775	19:15 hr	3.451	0.692	0.859	0.461	0.435	0.629
1446	CH415	CH393	24	0.003	2.750	19:45 hr	3.377	0.844	0.759	0.422	0.371	0.724
1450	CH419	CH999	24	0.004	5.635	20:44 hr	4.799	1.123	0.953	0.562	0.606	1.053
1452	CH443	CH423	15	0.006	1.613	19:00 hr	3.989	0.635	1.043	0.508	0.513	0.633
1454	CH423	CH425	15	0.006	1.729	19:00 hr	4.058	0.662	1.043	0.529	0.550	0.656
1456	CH425	CH427	18	0.003	1.900	43:00 hr	3.449	0.729	0.839	0.486	0.476	0.652
1458	CH427	CH429	18	0.007	1.975	19:30 hr	4.502	0.613	1.186	0.408	0.350	0.665
1460	CH429	CH431	18	0.007	2.101	19:30 hr	4.633	0.628	1.206	0.419	0.366	0.687
1462	CH431	CH433	18	0.007	2.244	19:30 hr	4.714	0.652	1.206	0.434	0.391	0.711
1464	CH433	CH435	18	0.003	2.292	19:45 hr	3.278	0.883	0.739	0.589	0.652	0.719
1466	CH435	CH419	18	0.003	2.337	20:00 hr	3.309	0.890	0.744	0.593	0.661	0.726
1468	CH437	CH439	12	0.006	1.272	19:00 hr	3.732	0.637	1.005	0.637	0.734	0.599
1470	CH439	CH441	12	0.006	1.330	19:00 hr	3.765	0.656	1.005	0.656	0.767	0.612
1486	CH457	CH755	8	0.006	0.460	18:00 hr	2.880	0.445	0.936	0.667	0.784	0.398
1488	CH459	CH461	15	0.008	2.465	18:59 hr	4.915	0.756	1.202	0.605	0.680	0.789
1490	CH461	CH463	15	0.008	2.538	18:59 hr	4.946	0.771	1.203	0.617	0.700	0.802
1492	CH463	CH465	15	0.007	2.748	19:00 hr	4.825	0.844	1.142	0.675	0.797	0.835
1494	CH465	CH467	18	0.007	3.066	19:15 hr	5.023	0.791	1.180	0.527	0.546	0.837
1496	CH467	CH469	18	0.005	3.215	19:30 hr	4.542	0.892	1.020	0.595	0.663	0.858
1498	CH469	CH471	18	0.005	3.258	19:45 hr	4.573	0.897	1.025	0.598	0.668	0.864
1504	CH475	CH477	18	0.006	1.912	43:00 hr	4.248	0.625	1.109	0.416	0.363	0.654
1506	CH477	CH479	18	0.006	2.173	19:00 hr	4.394	0.671	1.109	0.447	0.412	0.699
1508	CH479	CH481	18	0.006	2.526	19:00 hr	4.534	0.736	1.098	0.490	0.484	0.756
1510	CH481	CH483	21	0.006	2.747	43:00 hr	4.554	0.720	1.107	0.412	0.355	0.754
1512	CH483	CH485	21	0.006	2.901	18:59 hr	4.588	0.746	1.096	0.427	0.379	0.775
1514	CH485	CH487	21	0.006	3.044	19:15 hr	4.646	0.767	1.096	0.438	0.397	0.795
1516	CH487	CH489	21	0.006	3.082	19:15 hr	4.661	0.772	1.096	0.441	0.402	0.800
1518	CH489	CH491	21	0.006	3.108	19:15 hr	4.672	0.776	1.096	0.443	0.406	0.804
1520	CH491	CH493	21	0.006	3.145	19:15 hr	4.686	0.781	1.096	0.446	0.410	0.809
1522	CH493	CH609	30	0.004	6.527	19:30 hr	4.776	1.114	0.935	0.446	0.409	1.062
1530	CH503	CH505	10	0.009	0.590	07:00 hr	3.649	0.390	1.211	0.468	0.446	0.424
1532	CH505	CH507	12	0.006	0.670	08:00 hr	3.230	0.428	1.019	0.428	0.381	0.428
1534	CH507	CH509	15	0.006	0.764	08:00 hr	3.421	0.406	1.111	0.325	0.228	0.429
1536	CH509	CH511	15	0.006	0.818	08:00 hr	3.486	0.421	1.111	0.337	0.244	0.444

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
1538	CH511	CH513	15	0.006	0.870	08:11 hr	3.512	0.438	1.095	0.351	0.264	0.459
1540	CH513	CH515	18	0.006	1.460	20:59 hr	4.041	0.530	1.145	0.354	0.268	0.568
1542	CH515	CH517	18	0.004	1.621	08:59 hr	3.356	0.659	0.854	0.439	0.399	0.600
1544	CH517	CH999	21	0.002	1.663	21:00 hr	2.714	0.729	0.656	0.417	0.363	0.581
1550	CH523	CH525	8	0.007	0.300	18:00 hr	2.782	0.321	1.018	0.482	0.470	0.318
1552	CH525	CH527	8	0.007	0.545	18:15 hr	3.229	0.467	1.038	0.700	0.838	0.435
1554	CH527	CH529	10	0.007	0.748	18:30 hr	3.541	0.482	1.077	0.578	0.634	0.479
1556	CH529	CH531	12	0.007	0.924	18:45 hr	3.743	0.489	1.111	0.489	0.482	0.506
1558	CH531	CH533	12	0.007	1.100	19:00 hr	3.907	0.543	1.111	0.543	0.573	0.555
1560	CH533	CH535	12	0.007	1.346	19:00 hr	4.090	0.618	1.110	0.618	0.702	0.616
1562	CH535	CH537	12	0.007	1.596	19:00 hr	4.227	0.697	1.108	0.697	0.832	0.673
1564	CH537	CH539	15	0.007	1.811	19:00 hr	4.428	0.640	1.153	0.512	0.521	0.672
1566	CH539	CH541	15	0.004	1.959	19:00 hr	3.810	0.772	0.926	0.617	0.702	0.700
1570	CH543	CH545	8	0.006	0.405	18:00 hr	2.879	0.398	0.969	0.597	0.667	0.372
1572	CH545	CH547	10	0.006	0.636	18:15 hr	3.233	0.455	1.005	0.546	0.579	0.441
1574	CH547	CH549	10	0.006	0.757	18:30 hr	3.363	0.508	1.005	0.610	0.688	0.482
1576	CH549	CH551	12	0.006	0.826	18:45 hr	3.453	0.477	1.036	0.477	0.462	0.477
1578	CH551	CH553	12	0.006	0.887	19:00 hr	3.516	0.498	1.036	0.498	0.496	0.496
1582	CH555	CH557	15	0.005	0.183	18:00 hr	2.023	0.214	0.925	0.171	0.064	0.206
1594	CH565	CH541	24	0.003	2.994	21:15 hr	3.796	0.824	0.863	0.412	0.356	0.757
1596	CH567	CH569	8	0.005	0.269	18:00 hr	2.337	0.339	0.836	0.508	0.513	0.301
1598	CH569	CH571	8	0.005	0.383	18:15 hr	2.542	0.422	0.836	0.633	0.728	0.362
1600	CH571	CH573	10	0.004	0.463	18:30 hr	2.581	0.422	0.827	0.507	0.511	0.373
1602	CH573	CH575	21	0.005	2.973	19:15 hr	4.337	0.794	1.007	0.454	0.422	0.785
1604	CH575	CH577	21	0.009	3.026	19:15 hr	5.475	0.675	1.374	0.386	0.315	0.793
1606	CH577	CH579	21	0.005	3.160	19:29 hr	4.468	0.813	1.026	0.465	0.441	0.811
1608	CH579	CH581	21	0.005	3.296	19:30 hr	4.592	0.822	1.049	0.470	0.450	0.829
1610	CH581	CH583	21	0.005	3.328	19:30 hr	4.603	0.827	1.049	0.473	0.454	0.833
1612	CH583	CH493	21	0.005	3.352	19:45 hr	4.611	0.830	1.049	0.475	0.457	0.836
1614	CH585	CH587	8	0.002	0.343	18:00 hr	1.887	0.501	0.598	0.751	0.913	0.342
1616	CH587	CH589	12	0.002	0.667	18:30 hr	2.282	0.560	0.642	0.560	0.603	0.427
1618	CH589	CH591	12	0.002	0.937	43:00 hr	2.447	0.706	0.642	0.706	0.846	0.510
1620	CH591	CH593	15	0.002	1.133	19:15 hr	2.608	0.672	0.666	0.538	0.564	0.526
1622	CH593	CH595	15	0.006	2.462	19:15 hr	4.615	0.797	1.110	0.637	0.735	0.789
1624	CH595	CH573	15	0.006	2.535	19:15 hr	4.642	0.813	1.111	0.650	0.757	0.801
1626	CH597	CH599	8	0.006	0.337	18:00 hr	2.828	0.348	1.000	0.523	0.538	0.339
1628	CH599	CH601	10	0.007	0.711	18:15 hr	3.560	0.460	1.102	0.552	0.590	0.467
1630	CH601	CH603	12	0.005	1.005	18:30 hr	3.445	0.559	0.969	0.559	0.601	0.529
1632	CH603	CH605	12	0.006	1.191	18:45 hr	3.867	0.584	1.070	0.584	0.645	0.578
1634	CH605	CH607	12	0.006	1.282	43:00 hr	3.930	0.613	1.070	0.613	0.694	0.601
1636	CH607	CH593	12	0.006	1.350	19:00 hr	3.972	0.635	1.070	0.635	0.731	0.617
1638	CH609	CH1093	36	0.003	11.848	19:45 hr	5.030	1.537	0.846	0.512	0.521	1.371
1758	CH363	CH345	12	0.002	0.584	18:45 hr	2.114	0.535	0.605	0.535	0.559	0.398
1760	CH723	CH361	10	0.002	0.212	18:00 hr	1.621	0.332	0.581	0.398	0.334	0.249
1762	CH725	CH727	12	0.004	0.532	18:00 hr	2.601	0.424	0.825	0.424	0.374	0.380
1764	CH727	CH343	12	0.004	0.851	18:30 hr	2.928	0.557	0.824	0.557	0.598	0.485
1766	CH729	CH343	8	0.004	0.379	18:00 hr	2.419	0.437	0.788	0.655	0.765	0.360
1768	CH731	CH369	8	0.003	0.157	18:00 hr	1.816	0.272	0.718	0.408	0.349	0.227
1770	CH733	CH735	30	0.003	6.407	20:15 hr	4.402	1.169	0.843	0.468	0.446	1.052
1772	CH735	CH317	24	0.003	1.616	20:29 hr	2.899	0.638	0.752	0.319	0.220	0.550
1354	CH735	CH321	36	0.003	4.847	20:30 hr	4.042	0.926	0.871	0.309	0.207	0.862
1784	CH753	CH399	8	0.005	0.523	18:00 hr	2.867	0.502	0.907	0.753	0.917	0.426
1786	CH755	CH769	10	0.006	0.800	18:30 hr	3.327	0.537	0.977	0.645	0.748	0.497
1788	CH757	CH761	15	0.007	1.828	19:00 hr	4.374	0.651	1.131	0.521	0.536	0.675
1790	CH759	CH757	12	0.007	1.227	43:00 hr	4.117	0.569	1.151	0.569	0.618	0.587
1792	CH761	CH763	15	0.008	2.173	19:00 hr	4.777	0.698	1.203	0.558	0.600	0.739
1794	CH763	CH459	15	0.008	2.362	19:00 hr	4.868	0.735	1.203	0.588	0.651	0.772
1796	CH765	CH767	8	0.009	0.358	18:00 hr	3.290	0.324	1.199	0.487	0.477	0.349
1798	CH767	CH771	10	0.009	0.681	18:30 hr	3.767	0.425	1.204	0.510	0.517	0.457
1800	CH769	CH437	12	0.006	1.081	18:45 hr	3.602	0.572	1.005	0.572	0.623	0.550
1802	CH291	CH295	36	0.003	11.038	45:30 hr	5.363	1.383	0.944	0.461	0.435	1.321
1804	CH773	CH295	21	0.005	3.767	20:00 hr	4.749	0.889	1.049	0.508	0.514	0.889
1806	CH775	CH777	21	0.006	3.414	19:30 hr	4.981	0.794	1.157	0.454	0.422	0.844

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
1808	CH777	CH779	21	0.005	3.584	19:45 hr	4.664	0.867	1.041	0.496	0.493	0.866
1810	CH779	CH773	21	0.005	3.710	19:45 hr	4.731	0.881	1.049	0.503	0.506	0.882
1812	CH781	CH783	18	0.006	2.995	19:00 hr	4.740	0.813	1.102	0.542	0.572	0.827
1814	CH783	CH785	18	0.006	3.139	19:30 hr	4.877	0.825	1.127	0.550	0.586	0.847
1816	CH785	CH775	18	0.006	3.255	19:30 hr	4.879	0.849	1.115	0.566	0.614	0.864
1818	CH787	CH789	15	0.007	2.729	19:00 hr	4.907	0.826	1.169	0.661	0.774	0.832
1820	CH771	CH759	10	0.009	0.898	18:45 hr	4.091	0.498	1.231	0.597	0.667	0.527
1822	CH791	CH787	15	0.007	2.578	19:00 hr	4.883	0.790	1.178	0.632	0.726	0.808
1824	CH793	CH791	15	0.007	2.278	19:00 hr	4.753	0.728	1.178	0.582	0.641	0.758
1826	CH795	CH793	15	0.007	1.978	19:00 hr	4.587	0.668	1.174	0.534	0.559	0.704
1828	CH797	CH799	12	0.010	1.254	18:45 hr	4.574	0.531	1.312	0.531	0.554	0.594
1830	CH799	CH795	12	0.010	1.631	19:00 hr	4.841	0.630	1.307	0.630	0.723	0.681
1832	CH801	CH797	10	0.008	0.742	18:15 hr	3.742	0.458	1.161	0.549	0.585	0.478
1834	CH803	CH801	8	0.008	0.253	18:00 hr	2.824	0.279	1.103	0.419	0.367	0.291
1836	CH805	CH807	15	0.005	2.242	19:30 hr	4.070	0.819	0.971	0.655	0.765	0.751
1838	CH807	CH809	15	0.005	2.310	19:30 hr	4.093	0.837	0.972	0.669	0.788	0.763
1840	CH809	CH811	18	0.007	2.438	19:30 hr	4.726	0.693	1.175	0.462	0.436	0.742
1842	CH813	CH815	15	0.005	1.881	19:14 hr	3.922	0.728	0.972	0.583	0.642	0.686
1844	CH815	CH817	15	0.005	2.059	19:15 hr	4.001	0.773	0.972	0.618	0.703	0.719
1846	CH817	CH805	15	0.005	2.160	19:15 hr	4.041	0.798	0.971	0.639	0.737	0.737
1848	CH819	CH821	10	0.005	0.885	18:45 hr	3.186	0.612	0.908	0.735	0.890	0.523
1850	CH821	CH823	12	0.005	1.102	19:00 hr	3.425	0.606	0.937	0.606	0.682	0.555
1852	CH823	CH813	15	0.005	1.464	43:00 hr	3.694	0.625	0.972	0.500	0.500	0.601
1854	CH825	CH827	8	0.004	0.339	18:00 hr	2.412	0.399	0.811	0.598	0.668	0.340
1856	CH827	CH819	10	0.005	0.654	18:30 hr	3.029	0.491	0.916	0.589	0.653	0.447
1326	CH293	CH283	36	0.004	14.699	45:30 hr	5.915	1.604	0.977	0.535	0.559	1.535
1500	CH471	CH283	21	0.008	4.764	19:45 hr	5.953	0.895	1.311	0.512	0.520	1.005
1862	CH831	CH833	8	0.006	0.379	18:00 hr	2.913	0.373	1.003	0.560	0.603	0.360
1864	CH833	CH835	10	0.006	0.605	18:30 hr	3.194	0.441	1.005	0.529	0.550	0.429
1866	CH835	CH837	12	0.006	0.821	18:45 hr	3.511	0.469	1.062	0.469	0.448	0.476
1868	CH837	CH839	12	0.006	1.043	19:00 hr	3.704	0.543	1.053	0.543	0.574	0.539
1870	CH839	CH841	15	0.005	1.201	19:00 hr	3.493	0.560	0.965	0.448	0.413	0.542
1872	CH841	CH843	15	0.005	1.398	43:00 hr	3.706	0.601	0.992	0.481	0.468	0.587
1874	CH843	CH471	15	0.005	1.630	43:00 hr	3.796	0.666	0.973	0.533	0.556	0.636
1876	CH845	CH847	15	0.004	2.076	18:59 hr	3.677	0.837	0.873	0.670	0.789	0.722
1878	CH847	CH849	15	0.004	2.182	19:15 hr	3.709	0.869	0.873	0.695	0.829	0.741
1880	CH849	CH283	15	0.004	2.189	43:30 hr	3.711	0.871	0.873	0.697	0.832	0.742
1882	CH851	CH853	8	0.004	0.084	18:00 hr	1.660	0.184	0.808	0.275	0.166	0.165
1884	CH853	CH845	8	0.004	0.177	18:30 hr	2.045	0.272	0.808	0.409	0.350	0.242
1886	CH855	CH857	15	0.006	1.587	43:15 hr	4.162	0.606	1.071	0.485	0.474	0.627
1888	CH857	CH845	15	0.007	1.717	08:15 hr	4.292	0.629	1.114	0.504	0.506	0.654
1890	CH859	CH861	8	0.006	0.074	07:00 hr	1.821	0.157	0.966	0.235	0.121	0.154
1892	CH861	CH863	8	0.008	0.275	18:15 hr	2.896	0.292	1.107	0.438	0.397	0.304
1894	CH863	CH291	18	0.003	2.260	18:59 hr	3.416	0.844	0.783	0.563	0.607	0.714
1900	CH871	CH1409	10	0.003	0.219	20:15 hr	1.817	0.312	0.671	0.375	0.299	0.253
1902	CH873	CH875	18	0.015	5.685	19:30 hr	7.822	0.912	1.642	0.608	0.685	1.148
1904	CH875	CH1393	18	0.012	5.529	22:30 hr	7.092	0.968	1.553	0.646	0.749	1.133
1906	CH877	CH1397	30	0.001	5.780	44:30 hr	2.755	1.570	0.471	0.628	0.720	0.997
1908	CH867	CH877	30	0.001	5.750	22:45 hr	2.856	1.516	0.494	0.607	0.683	0.994
1912	CH883	CH1253	8	0.008	0.095	20:00 hr	2.196	0.164	1.135	0.246	0.133	0.175
1914	CH885	CH887	10	0.001	0.219	20:55 hr	1.186	0.432	0.376	0.518	0.531	0.253
1916	CH887	CH1273	10	0.001	0.274	20:59 hr	1.479	0.434	0.468	0.520	0.535	0.284
1918	CH889	CH879	30	0.009	5.767	23:00 hr	6.524	0.806	1.504	0.322	0.225	0.996
1920	CH891	CH1277	21	0.010	8.818	45:15 hr	7.464	1.244	1.478	0.711	0.854	1.374
1924	CH879	CH895	30	0.025	5.778	23:00 hr	9.277	0.627	2.452	0.251	0.138	0.997
1930	CH901	CH903	15	0.008	2.829	45:00 hr	5.082	0.827	1.210	0.661	0.775	0.848
1932	CH903	CH905	15	0.008	3.119	44:59 hr	5.170	0.889	1.210	0.711	0.855	0.891
1934	CH905	CH907	18	0.002	3.223	44:59 hr	2.822	1.500	0.668	1.000	1.014	0.859
1936	CH907	CH909	18	0.004	3.396	45:15 hr	4.095	1.023	0.883	0.682	0.808	0.883
1938	CH909	CH911	21	0.005	5.678	45:15 hr	5.266	1.145	1.062	0.655	0.764	1.101
1940	CH911	CH1279	21	0.005	5.784	45:30 hr	5.284	1.161	1.062	0.663	0.778	1.112
1942	CH913	CH915	15	0.008	1.892	44:59 hr	4.643	0.639	1.211	0.511	0.518	0.688
1944	CH915	CH917	15	0.008	1.980	45:00 hr	4.695	0.656	1.211	0.525	0.543	0.704

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
1946	CH917	CH901	15	0.008	2.122	45:00 hr	4.773	0.684	1.211	0.548	0.581	0.730
1948	CH919	CH921	12	0.008	1.692	21:00 hr	4.431	0.704	1.162	0.704	0.843	0.693
1950	CH921	CH923	15	0.008	1.849	21:00 hr	4.585	0.633	1.199	0.507	0.512	0.680
1952	CH923	CH1335	15	0.008	1.958	20:59 hr	4.649	0.655	1.199	0.524	0.542	0.700
1958	CH931	CH933	12	0.008	0.378	20:00 hr	3.112	0.289	1.205	0.289	0.182	0.318
1960	CH933	CH935	12	0.008	0.560	20:15 hr	3.445	0.357	1.190	0.357	0.273	0.390
1962	CH935	CH937	12	0.005	0.719	20:30 hr	3.183	0.457	0.975	0.457	0.427	0.444
1964	CH937	CH939	15	0.005	0.857	20:45 hr	3.332	0.450	1.025	0.360	0.277	0.455
1966	CH939	CH941	15	0.006	1.046	20:59 hr	3.720	0.481	1.106	0.385	0.314	0.504
1968	CH941	CH943	15	0.005	1.263	45:00 hr	3.686	0.558	1.020	0.447	0.411	0.557
1970	CH943	CH945	15	0.005	1.350	20:59 hr	3.642	0.593	0.981	0.474	0.457	0.576
1974	CH947	CH949	18	0.004	2.404	21:00 hr	3.868	0.802	0.904	0.535	0.559	0.737
1976	CH949	CH951	18	0.003	2.566	21:00 hr	3.599	0.897	0.806	0.598	0.669	0.762
1978	CH951	CH953	21	0.013	2.612	45:00 hr	6.026	0.564	1.660	0.323	0.225	0.734
1980	CH953	CH1283	21	0.002	3.105	21:00 hr	3.411	0.993	0.721	0.567	0.616	0.803
1982	CH929	CH1331	15	0.050	0.356	20:30 hr	5.656	0.167	2.944	0.134	0.038	0.289
1984	CH955	CH1295	12	0.002	0.474	45:00 hr	1.998	0.474	0.601	0.474	0.457	0.357
1986	CH957	CH959	8	0.009	0.207	20:00 hr	2.865	0.238	1.212	0.357	0.272	0.262
1988	CH959	CH961	8	0.009	0.342	20:15 hr	3.277	0.314	1.212	0.471	0.450	0.341
1990	CH961	CH963	10	0.009	0.426	20:30 hr	3.443	0.318	1.258	0.382	0.310	0.357
1992	CH963	CH965	12	0.009	0.560	20:45 hr	3.666	0.341	1.297	0.341	0.250	0.390
1994	CH965	CH967	12	0.004	0.716	21:00 hr	2.946	0.484	0.879	0.484	0.472	0.443
1996	CH969	CH971	8	0.010	0.237	18:00 hr	2.983	0.255	1.218	0.383	0.311	0.282
1998	CH971	CH973	10	0.008	0.654	18:30 hr	3.547	0.432	1.126	0.518	0.531	0.447
2000	CH973	CH975	12	0.008	0.941	18:45 hr	3.940	0.477	1.183	0.477	0.461	0.511
2002	CH975	CH977	12	0.008	1.110	19:00 hr	4.062	0.530	1.166	0.530	0.551	0.557
2004	CH977	CH979	12	0.008	1.211	19:00 hr	4.147	0.559	1.166	0.559	0.602	0.583
2006	CH979	CH981	12	0.008	1.361	18:59 hr	4.258	0.603	1.166	0.603	0.676	0.620
2008	CH981	LS35	12	0.008	1.702	43:00 hr	4.447	0.705	1.165	0.705	0.845	0.696
2014	CH989	CH991	8	0.009	0.182	20:15 hr	2.722	0.225	1.185	0.337	0.245	0.245
2016	CH991	CH993	10	0.009	0.269	20:30 hr	2.984	0.253	1.231	0.303	0.200	0.282
2020	CH945	CH967	15	0.008	1.433	20:59 hr	4.389	0.538	1.235	0.430	0.385	0.595
2022	CH967	CH947	15	0.004	2.218	21:00 hr	3.738	0.876	0.878	0.700	0.838	0.747
1340	CH307	CH291	30	0.003	8.833	21:30 hr	4.687	1.435	0.826	0.574	0.627	1.244
1322	CH289	CH307	30	0.003	8.767	21:29 hr	4.848	1.388	0.865	0.555	0.594	1.239
1338	CH305	CH289	30	0.003	8.645	21:15 hr	4.962	1.347	0.895	0.539	0.566	1.230
2024	CH997	CH305	30	0.003	7.639	21:15 hr	4.813	1.251	0.895	0.500	0.500	1.153
1330	CH297	CH997	30	0.003	7.592	20:59 hr	4.806	1.246	0.895	0.498	0.497	1.149
1320	CH287	CH297	30	0.004	7.548	20:59 hr	4.944	1.213	0.932	0.485	0.475	1.146
2028	CH1001	CH1003	12	0.005	1.051	08:11 hr	3.333	0.596	0.916	0.596	0.665	0.542
2030	CH1003	CH1005	15	0.003	1.083	08:30 hr	2.680	0.634	0.701	0.508	0.513	0.514
2032	CH1005	CH1007	15	0.003	1.376	08:45 hr	2.817	0.740	0.693	0.592	0.658	0.582
2034	CH1007	CH1009	15	0.003	1.689	08:59 hr	3.239	0.781	0.784	0.625	0.714	0.648
2036	CH1009	CH1011	15	0.003	1.884	09:00 hr	3.314	0.842	0.785	0.674	0.795	0.686
2038	CH1011	CH863	15	0.003	1.947	33:00 hr	3.333	0.863	0.786	0.690	0.822	0.698
2040	CH789	CH781	18	0.007	2.865	18:59 hr	5.047	0.746	1.215	0.498	0.496	0.808
2042	CH1013	CH1015	8	0.007	0.579	18:00 hr	3.217	0.496	1.019	0.744	0.903	0.449
2044	CH1015	CH1017	10	0.007	0.907	18:30 hr	3.804	0.534	1.119	0.640	0.740	0.530
2046	CH1017	CH305	12	0.006	1.110	18:45 hr	3.805	0.559	1.070	0.559	0.601	0.557
2048	CH419	CH313	54	0.001	16.906	20:45 hr	3.170	2.317	0.434	0.515	0.525	1.461
2054	CH1023	CH1025	10	0.010	0.893	18:15 hr	4.256	0.479	1.298	0.575	0.629	0.526
2056	CH1025	CH1027	12	0.010	1.355	18:30 hr	4.713	0.552	1.332	0.552	0.590	0.619
2058	CH1027	CH1029	15	0.010	1.693	18:45 hr	4.984	0.554	1.383	0.444	0.406	0.649
2060	CH1029	CH475	18	0.005	1.804	19:00 hr	3.766	0.655	0.961	0.437	0.395	0.634
2062	CH1031	CH1023	8	0.010	0.411	18:00 hr	3.482	0.346	1.236	0.518	0.531	0.376
2064	CH1033	CH1035	8	0.014	0.172	20:00 hr	3.129	0.195	1.474	0.292	0.186	0.238
2066	CH1035	CH1037	8	0.010	0.366	20:15 hr	3.386	0.322	1.238	0.483	0.472	0.353
2068	CH1037	CH1039	8	0.010	0.633	20:45 hr	3.832	0.458	1.238	0.687	0.817	0.470
2070	CH1039	CH1041	10	0.010	1.202	21:00 hr	4.480	0.593	1.285	0.712	0.855	0.612
2072	CH1041	CH1043	12	0.008	1.517	20:59 hr	4.417	0.641	1.187	0.641	0.741	0.656
2074	CH1043	CH913	12	0.008	1.664	21:00 hr	4.431	0.693	1.166	0.693	0.827	0.688
2076	CH1045	CH919	12	0.010	1.535	21:00 hr	4.770	0.606	1.304	0.606	0.682	0.660
2078	CH1047	CH1049	8	0.022	0.256	20:00 hr	4.109	0.214	1.839	0.320	0.222	0.293

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2080	CH1049	CH1051	8	0.010	0.554	20:15 hr	3.765	0.414	1.251	0.621	0.707	0.439
2082	CH1051	CH1053	10	0.010	0.857	20:45 hr	4.156	0.473	1.274	0.567	0.615	0.515
2084	CH1053	CH1045	10	0.010	1.226	45:00 hr	4.434	0.610	1.265	0.732	0.886	0.618
2086	CH1055	CH1057	8	0.005	0.522	07:15 hr	2.873	0.501	0.913	0.751	0.914	0.425
2088	CH1057	CH1059	10	0.005	0.742	08:00 hr	3.040	0.545	0.885	0.654	0.763	0.478
2090	CH1059	CH1001	12	0.005	0.795	08:00 hr	3.122	0.501	0.917	0.501	0.502	0.468
2092	CH1061	CH1055	8	0.003	0.285	07:00 hr	2.105	0.386	0.715	0.579	0.636	0.310
1358	CH325	CH1063	30	0.003	5.491	21:15 hr	4.301	1.058	0.863	0.423	0.373	0.971
2094	CH1063	CH609	30	0.003	5.512	21:30 hr	4.290	1.063	0.859	0.425	0.376	0.972
2096	CH1065	CH1067	8	0.003	0.177	18:00 hr	1.897	0.289	0.729	0.433	0.389	0.242
2098	CH1067	CH327	8	0.005	0.468	18:15 hr	2.683	0.481	0.857	0.722	0.871	0.402
2100	CH1069	CH1071	12	0.003	0.769	19:30 hr	2.468	0.590	0.681	0.590	0.655	0.460
1368	CH335	CH333	10	0.004	0.371	18:30 hr	2.411	0.375	0.814	0.450	0.416	0.332
2106	CH1075	CH1077	8	0.004	0.047	07:00 hr	1.366	0.140	0.769	0.210	0.097	0.122
2108	CH1077	CH1079	8	0.005	0.270	07:15 hr	2.345	0.339	0.839	0.508	0.514	0.302
2110	CH1079	CH1081	8	0.004	0.393	08:00 hr	2.510	0.437	0.819	0.655	0.765	0.367
2112	CH1081	CH1083	10	0.005	0.496	18:45 hr	2.729	0.427	0.871	0.512	0.520	0.387
2114	CH1083	CH1091	12	0.004	0.608	19:00 hr	2.737	0.451	0.843	0.451	0.418	0.407
2116	CH1085	CH513	12	0.001	0.617	20:44 hr	1.739	0.659	0.462	0.659	0.772	0.410
2118	CH1087	CH1085	10	0.001	0.386	20:15 hr	1.509	0.568	0.436	0.681	0.807	0.339
2120	CH1089	CH1087	8	0.004	0.159	20:00 hr	1.970	0.258	0.800	0.387	0.318	0.229
2124	CH1093	CH323	36	0.003	11.853	20:00 hr	5.029	1.537	0.845	0.513	0.521	1.372
2126	CH1095	CH1097	30	0.003	4.575	20:15 hr	3.830	1.006	0.787	0.402	0.341	0.883
2128	CH1097	CH1099	48	0.001	17.600	20:15 hr	3.785	2.228	0.533	0.557	0.598	1.545
2130	CH1099	CH811	48	0.001	17.735	20:30 hr	3.792	2.239	0.533	0.560	0.603	1.551
2132	CH811	CH419	48	0.001	20.229	20:30 hr	3.906	2.436	0.533	0.609	0.687	1.661
2134	CH397	CH281	24	0.002	4.432	20:00 hr	3.701	1.142	0.730	0.571	0.622	0.929
2138	CH1101	CH1103	10	0.003	0.048	20:00 hr	1.276	0.136	0.733	0.163	0.058	0.116
2140	CH1103	CH1105	12	0.003	0.159	07:15 hr	1.780	0.232	0.776	0.232	0.118	0.204
2142	CH1105	CH1107	15	0.009	0.218	08:00 hr	2.713	0.197	1.296	0.158	0.054	0.225
2144	CH1107	CH1109	15	0.010	0.469	20:45 hr	3.425	0.286	1.344	0.229	0.115	0.333
2146	CH1109	CH1111	15	0.010	0.624	20:59 hr	3.720	0.330	1.352	0.264	0.153	0.386
2148	CH1111	CH1113	18	0.001	2.103	21:00 hr	1.841	1.500	0.435	1.000	1.016	0.687
2150	CH1115	CH1117	8	0.009	0.092	20:00 hr	2.259	0.157	1.196	0.235	0.121	0.172
2152	CH1117	CH1119	8	0.010	0.152	20:15 hr	2.668	0.200	1.238	0.300	0.196	0.224
2154	CH1119	CH1121	10	0.010	0.208	20:30 hr	2.855	0.216	1.282	0.260	0.148	0.246
2156	CH1121	CH1123	10	0.010	0.316	20:45 hr	3.219	0.269	1.285	0.323	0.225	0.306
2158	CH1123	CH1125	12	0.010	0.587	20:58 hr	3.771	0.346	1.324	0.346	0.257	0.400
2160	CH1125	CH1127	12	0.010	0.695	20:59 hr	3.950	0.378	1.325	0.378	0.304	0.436
2162	CH1127	CH1129	12	0.010	0.855	21:00 hr	4.178	0.424	1.325	0.424	0.374	0.486
2164	CH1129	CH1131	12	0.010	0.986	20:59 hr	4.336	0.459	1.325	0.459	0.431	0.524
2166	CH1131	CH1133	15	0.010	1.136	20:59 hr	4.455	0.447	1.375	0.358	0.274	0.527
2168	CH1133	CH1111	15	0.006	1.309	20:59 hr	3.919	0.547	1.094	0.438	0.397	0.567
2172	CH1137	CH1123	10	0.006	0.235	20:15 hr	2.539	0.257	1.038	0.309	0.207	0.262
2174	CH1139	CH1141	12	0.008	0.156	20:00 hr	2.343	0.189	1.139	0.189	0.078	0.202
2178	CH993	CH1143	15	0.009	0.355	20:45 hr	3.097	0.252	1.299	0.202	0.089	0.289
2180	CH1143	CH1145	15	0.009	0.386	20:59 hr	3.174	0.263	1.303	0.210	0.097	0.301
2182	CH1145	CH1147	15	0.009	0.561	20:59 hr	3.539	0.317	1.314	0.254	0.141	0.365
2184	CH1147	CH1149	15	0.009	0.616	21:00 hr	3.636	0.333	1.316	0.266	0.155	0.383
2186	CH1149	CH1151	15	0.009	0.646	21:00 hr	3.685	0.341	1.316	0.273	0.163	0.393
2188	CH1113	CH1153	18	0.001	2.158	21:15 hr	2.341	1.128	0.496	0.752	0.915	0.696
2190	CH1153	CH1151	18	0.001	2.143	21:15 hr	2.339	1.122	0.494	0.748	0.909	0.694
2192	CH1151	2150	24	0.001	2.744	21:00 hr	2.550	1.047	0.520	0.524	0.540	0.724
1388	CH355	CH353	10	0.003	0.380	18:30 hr	2.076	0.429	0.661	0.515	0.525	0.336
1410	CH375	CH355	10	0.003	0.372	18:15 hr	2.066	0.424	0.661	0.508	0.514	0.333
2252	CH1191	CH1193	8	0.010	0.037	20:00 hr	1.775	0.098	1.202	0.147	0.047	0.108
2254	CH1193	4108	8	0.010	0.044	20:15 hr	1.868	0.107	1.211	0.160	0.056	0.118
2256	CH1195	CH1197	8	0.031	0.052	20:00 hr	2.937	0.089	2.100	0.133	0.038	0.129
2258	CH1197	4598	8	0.025	0.085	20:15 hr	3.128	0.119	1.921	0.178	0.069	0.166
2260	CH1199	CH1201	8	0.004	0.035	20:00 hr	1.202	0.124	0.722	0.186	0.075	0.105
2262	CH1201	4944	8	0.004	0.057	20:15 hr	1.454	0.153	0.781	0.229	0.115	0.135
2264	CH1203	CH1205	8	0.038	0.062	20:00 hr	3.311	0.092	2.326	0.137	0.041	0.141
2266	CH1205	CH1207	8	0.020	0.085	20:15 hr	2.906	0.125	1.735	0.188	0.077	0.166

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2268	CH1207	CH1209	8	0.020	0.107	20:30 hr	3.103	0.140	1.748	0.210	0.096	0.186
2270	CH1209	CH1211	8	0.020	0.125	20:44 hr	3.253	0.151	1.756	0.227	0.113	0.202
2272	CH1211	4216	8	0.020	0.155	20:43 hr	3.459	0.168	1.764	0.252	0.140	0.226
2280	CH1221	CH1223	8	0.020	0.137	20:00 hr	3.326	0.159	1.751	0.238	0.124	0.212
2282	CH1223	CH1225	8	0.020	0.197	20:15 hr	3.695	0.191	1.759	0.286	0.179	0.256
2284	CH1225	CH1227	8	0.020	0.243	20:30 hr	3.921	0.213	1.760	0.319	0.221	0.285
2286	CH1227	CH1229	8	0.020	0.256	20:44 hr	3.977	0.219	1.759	0.328	0.232	0.293
2288	CH1229	4906	8	0.020	0.287	20:59 hr	4.106	0.232	1.760	0.348	0.260	0.311
2290	CH1231	CH1233	8	0.002	0.051	20:00 hr	1.036	0.181	0.508	0.271	0.161	0.128
2292	CH1233	CH1235	8	0.002	0.098	20:15 hr	1.243	0.254	0.509	0.381	0.308	0.178
2294	CH1235	CH1237	8	0.002	0.130	20:30 hr	1.342	0.296	0.510	0.444	0.406	0.206
2296	CH1237	CH1239	8	0.002	0.165	20:45 hr	1.424	0.341	0.509	0.511	0.519	0.233
2298	CH1239	3992	8	0.002	0.195	20:59 hr	1.482	0.377	0.508	0.566	0.613	0.254
2170	CH1135	CH1137	8	0.006	0.135	20:00 hr	2.196	0.211	0.988	0.317	0.218	0.210
2300	CH1241	CH989	8	0.006	0.088	20:00 hr	1.943	0.169	0.988	0.254	0.141	0.168
2302	CH1243	CH1245	8	0.012	0.098	20:00 hr	2.542	0.151	1.373	0.227	0.113	0.178
2304	CH1245	CH1247	8	0.009	0.172	20:15 hr	2.670	0.219	1.180	0.329	0.233	0.239
2306	CH1247	CH1249	8	0.010	0.182	20:30 hr	2.856	0.217	1.269	0.325	0.229	0.245
2308	CH1249	8926	10	0.096	0.182	20:40 hr	6.143	0.116	3.841	0.139	0.041	0.230
2312	CH1253	CH1255	8	0.020	0.108	20:15 hr	3.087	0.141	1.728	0.212	0.098	0.187
2316	CH1257	CH1259	8	0.006	0.021	00:00 hr	1.265	0.085	0.923	0.128	0.035	0.082
2318	CH1259	CH1255	8	0.027	0.045	00:15 hr	2.676	0.086	1.946	0.128	0.035	0.120
2320	CH1261	CH1259	8	0.029	0.012	00:00 hr	1.815	0.045	1.845	0.067	0.009	0.061
2322	CH1263	CH885	8	0.010	0.163	20:44 hr	2.704	0.208	1.229	0.312	0.211	0.231
2314	CH1255	CH1263	8	0.005	0.156	20:29 hr	2.119	0.242	0.889	0.363	0.281	0.227
2324	CH1265	CH893	30	0.002	9.068	45:30 hr	4.458	1.530	0.768	0.612	0.692	1.261
2326	CH1189	CH1273	21	0.026	8.803	45:15 hr	10.815	0.908	2.368	0.519	0.532	1.373
2332	CH1273	CH1265	30	0.002	9.064	45:15 hr	4.420	1.540	0.760	0.616	0.699	1.261
2334	CH1275	CH1189	21	0.011	8.810	45:15 hr	7.618	1.219	1.514	0.697	0.832	1.373
2336	CH1277	CH1275	21	0.011	8.813	45:15 hr	7.839	1.189	1.567	0.679	0.804	1.374
2338	CH1279	CH891	21	0.002	8.811	45:15 hr	5.668	1.750	0.755	1.000	1.759	1.374
2340	CH1281	CH1279	21	0.002	3.083	21:00 hr	3.399	0.990	0.720	0.566	0.613	0.800
2342	CH1283	CH1281	21	0.002	3.095	21:00 hr	3.392	0.995	0.717	0.568	0.617	0.802
2344	CH1285	CH953	15	0.003	0.491	21:00 hr	2.243	0.400	0.734	0.320	0.222	0.341
2346	CH1287	CH1285	15	0.003	0.489	21:00 hr	2.174	0.408	0.704	0.327	0.230	0.340
2348	CH1289	CH1287	15	0.003	0.486	21:00 hr	2.183	0.405	0.710	0.324	0.227	0.339
2350	CH1291	CH1289	15	0.003	0.484	21:00 hr	2.189	0.403	0.714	0.322	0.225	0.338
2352	CH1293	CH1291	12	0.002	0.478	21:00 hr	1.993	0.479	0.597	0.479	0.464	0.359
2354	CH1295	CH1293	12	0.002	0.475	21:00 hr	1.968	0.481	0.588	0.481	0.468	0.358
2356	CH1297	CH955	12	0.002	0.456	21:00 hr	2.005	0.459	0.612	0.459	0.432	0.350
2358	CH1299	CH1297	12	0.060	0.454	20:59 hr	6.676	0.192	3.219	0.192	0.080	0.350
2360	CH1301	CH1299	12	0.002	0.451	21:00 hr	1.971	0.461	0.600	0.461	0.435	0.348
2362	CH1303	CH1301	12	0.002	0.447	21:00 hr	1.971	0.458	0.602	0.458	0.430	0.347
2364	CH1305	CH1303	12	0.002	0.439	21:00 hr	1.941	0.457	0.593	0.457	0.428	0.343
2366	CH1307	CH1305	12	0.002	0.438	20:59 hr	1.972	0.451	0.607	0.451	0.418	0.343
2368	CH1309	CH1307	12	0.002	0.437	20:59 hr	2.015	0.443	0.625	0.443	0.405	0.343
2370	CH1311	CH1309	15	0.002	0.432	21:00 hr	1.912	0.409	0.618	0.327	0.232	0.319
2372	CH1313	CH1311	12	0.003	0.425	20:58 hr	2.333	0.388	0.773	0.388	0.319	0.338
2374	CH1315	CH1313	12	0.002	0.424	20:59 hr	1.943	0.445	0.602	0.445	0.408	0.337
2376	CH1317	CH1315	12	0.002	0.420	20:58 hr	1.933	0.443	0.600	0.443	0.405	0.336
2378	CH1319	CH1317	12	0.002	0.418	20:57 hr	1.941	0.440	0.604	0.440	0.400	0.335
2380	CH1321	CH1319	12	0.002	0.408	20:57 hr	1.915	0.437	0.598	0.437	0.395	0.331
2382	CH1323	CH1321	12	0.002	0.391	20:58 hr	1.863	0.432	0.585	0.432	0.387	0.323
2384	CH1325	CH1323	12	0.002	0.388	20:45 hr	1.896	0.424	0.601	0.424	0.374	0.322
2386	CH1327	CH1325	15	0.031	0.373	20:44 hr	4.833	0.192	2.341	0.154	0.051	0.296
2388	CH1329	CH1327	15	0.082	0.372	20:43 hr	6.819	0.151	3.735	0.121	0.031	0.296
2390	CH1331	CH1329	12	0.040	0.364	20:43 hr	5.403	0.190	2.615	0.190	0.079	0.312
2392	CH1333	CH929	15	0.010	0.269	20:15 hr	2.982	0.214	1.365	0.171	0.064	0.250
1956	CH927	CH1333	15	0.006	0.232	20:00 hr	2.324	0.230	1.024	0.184	0.074	0.233
2394	CH1335	CH925	15	0.008	1.941	21:00 hr	4.639	0.652	1.199	0.522	0.537	0.697
2396	CH1339	CH925	12	0.003	0.033	00:00 hr	1.108	0.109	0.715	0.109	0.025	0.092
2406	CH339	CH1347	24	0.002	1.807	20:45 hr	2.921	0.688	0.727	0.344	0.255	0.583
2408	CH1347	CH1349	24	0.002	1.816	20:45 hr	2.925	0.690	0.727	0.345	0.256	0.584

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2410	CH1349	CH1351	24	0.002	1.830	21:00 hr	2.931	0.693	0.727	0.346	0.258	0.587
2412	CH1351	CH1353	24	0.002	1.848	21:00 hr	2.940	0.696	0.727	0.348	0.260	0.590
2414	CH1353	CH1355	24	0.002	2.621	21:00 hr	3.265	0.835	0.737	0.417	0.364	0.706
2416	CH1355	CH565	24	0.002	2.624	21:00 hr	3.267	0.835	0.738	0.418	0.364	0.707
2418	CH563	CH1353	12	0.006	0.970	43:00 hr	3.594	0.525	1.036	0.525	0.542	0.519
2420	CH1357	CH565	15	0.001	0.386	18:45 hr	1.340	0.489	0.395	0.392	0.324	0.301
2422	CH541	CH1359	24	0.004	4.879	20:59 hr	4.425	1.068	0.896	0.534	0.558	0.977
2424	CH1359	CH327	24	0.004	4.909	21:15 hr	4.432	1.072	0.896	0.536	0.561	0.980
2426	CH1361	CH1363	8	0.005	0.067	00:00 hr	1.671	0.156	0.889	0.233	0.119	0.146
2428	CH1363	CH1365	8	0.005	0.156	00:15 hr	2.106	0.242	0.882	0.363	0.282	0.226
2430	CH1365	CH1367	12	0.005	0.235	00:30 hr	2.285	0.257	0.943	0.257	0.144	0.249
2432	CH1367	CH1369	10	0.005	0.291	00:45 hr	2.463	0.307	0.915	0.369	0.290	0.293
2434	CH1369	CH1371	10	0.005	0.372	01:00 hr	2.633	0.351	0.916	0.421	0.370	0.333
2436	CH1371	CH1373	10	0.005	0.428	01:12 hr	2.732	0.380	0.916	0.456	0.427	0.358
2438	CH1373	CH1091	12	0.005	0.491	01:29 hr	2.813	0.376	0.945	0.376	0.301	0.364
2440	CH323	CH1375	36	0.003	11.883	20:00 hr	5.032	1.540	0.845	0.513	0.523	1.373
2442	CH1375	CH1377	36	0.003	11.868	20:00 hr	5.031	1.539	0.845	0.513	0.522	1.372
2444	CH1377	CH1097	48	0.001	13.038	20:15 hr	3.515	1.864	0.533	0.466	0.443	1.322
2446	CH1091	CH1377	18	0.002	1.229	18:59 hr	2.361	0.698	0.585	0.465	0.442	0.520
1592	CH563	CH1357	15	0.007	0.337	18:30 hr	2.729	0.266	1.113	0.213	0.099	0.281
1584	CH557	CH563	15	0.005	0.273	18:15 hr	2.276	0.261	0.939	0.209	0.095	0.252
1444	CH413	CH415	24	0.003	2.682	19:30 hr	3.354	0.833	0.758	0.416	0.362	0.715
2104	CH1073	CH413	12	0.003	0.920	19:45 hr	2.570	0.664	0.684	0.664	0.779	0.505
1436	CH405	CH407	15	0.003	1.359	18:59 hr	3.143	0.669	0.804	0.536	0.561	0.578
1434	CH403	CH405	12	0.005	1.085	18:45 hr	3.297	0.618	0.896	0.618	0.702	0.551
1432	CH399	CH403	10	0.005	0.839	18:30 hr	3.282	0.568	0.949	0.681	0.807	0.509
2102	CH1071	CH1073	12	0.003	0.865	19:30 hr	2.535	0.637	0.682	0.637	0.735	0.489
1418	CH383	CH385	12	0.004	0.938	19:00 hr	3.106	0.575	0.865	0.575	0.628	0.510
1472	CH441	CH443	15	0.006	1.520	19:00 hr	3.964	0.609	1.055	0.487	0.478	0.613
2026	CH999	CH287	30	0.002	7.522	21:00 hr	3.692	1.531	0.636	0.613	0.693	1.144
2448	CH1379	CH1381	12	0.010	0.043	00:00 hr	1.736	0.096	1.197	0.096	0.019	0.105
2450	CH1381	CH927	12	0.025	0.097	00:15 hr	3.122	0.112	1.989	0.112	0.027	0.159
2452	CH925	CH1383	15	0.010	2.058	21:00 hr	5.178	0.626	1.361	0.501	0.502	0.719
2454	CH1383	CH1385	15	0.010	2.058	21:00 hr	5.178	0.626	1.361	0.501	0.501	0.719
2456	CH1385	CH1387	15	0.008	2.097	21:00 hr	4.913	0.662	1.262	0.530	0.551	0.726
2458	CH1387	CH1389	15	0.008	2.131	21:15 hr	4.932	0.669	1.262	0.535	0.560	0.732
2460	CH1389	CH909	15	0.008	2.194	21:15 hr	4.967	0.681	1.262	0.545	0.577	0.743
2462	CH1141	CH901	12	0.009	0.433	20:15 hr	3.410	0.298	1.297	0.298	0.194	0.341
1922	CH893	CH895	30	0.002	9.070	45:30 hr	3.883	1.726	0.647	0.690	0.822	1.261
2464	CH1391	CH1395	21	0.006	5.525	22:30 hr	5.473	1.082	1.120	0.618	0.703	1.086
1898	CH869	CH871	8	0.010	0.131	20:00 hr	2.562	0.185	1.240	0.278	0.169	0.207
2466	CH1393	CH1391	21	0.005	5.608	22:30 hr	5.336	1.120	1.084	0.640	0.740	1.094
2468	CH1395	CH867	21	0.006	5.513	22:30 hr	5.359	1.100	1.090	0.629	0.720	1.085
2470	CH1397	CH889	30	0.003	5.771	23:00 hr	4.330	1.093	0.856	0.437	0.396	0.996
2472	CH1399	CH867	8	0.004	0.126	20:30 hr	1.745	0.237	0.740	0.356	0.271	0.202
2474	CH1401	CH1399	8	0.003	0.099	20:15 hr	1.615	0.211	0.727	0.317	0.218	0.179
1896	CH865	CH1401	8	0.010	0.085	20:00 hr	2.234	0.150	1.210	0.226	0.112	0.166
2476	CH1403	CH1399	8	0.005	0.010	00:00 hr	0.937	0.063	0.797	0.095	0.019	0.056
2478	CH1405	CH1391	8	0.025	0.014	00:15 hr	1.818	0.050	1.739	0.075	0.011	0.066
2480	CH1407	CH1405	8	0.007	0.011	00:00 hr	1.108	0.060	0.964	0.090	0.017	0.059
2482	CH1409	CH867	10	0.003	0.245	20:30 hr	1.883	0.330	0.676	0.396	0.331	0.268
2484	CH1411	CH1393	8	0.003	0.047	00:30 hr	1.314	0.144	0.727	0.217	0.103	0.123
2486	CH1413	CH1411	8	0.004	0.040	00:15 hr	1.252	0.133	0.725	0.199	0.087	0.113
2490	CH1417	CH1415	8	0.003	0.025	00:15 hr	1.078	0.105	0.706	0.157	0.054	0.088
2494	CH1421	CH1415	8	0.004	0.012	00:15 hr	0.885	0.075	0.692	0.112	0.026	0.062
2492	CH1419	CH1417	8	0.021	0.007	00:00 hr	1.391	0.038	1.536	0.057	0.006	0.047
2488	CH1415	CH1393	8	0.011	0.039	00:30 hr	1.842	0.100	1.235	0.150	0.049	0.112
2496	CH1423	CH1421	8	0.003	0.005	00:00 hr	0.656	0.047	0.646	0.071	0.010	0.038
2498	CH1425	CH1413	8	0.009	0.024	00:00 hr	1.492	0.083	1.106	0.124	0.033	0.087
2500	4180	4178	15	0.016	2.076	21:00 hr	6.293	0.542	1.765	0.434	0.390	0.722
2502	4178	4174	15	0.007	2.072	21:00 hr	4.638	0.687	1.174	0.550	0.585	0.721
2504	4174	3964	15	0.007	2.094	21:00 hr	4.649	0.692	1.174	0.553	0.592	0.725
2506	3964	3968	15	0.007	2.089	21:00 hr	4.646	0.691	1.174	0.553	0.590	0.724

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
2508	3968	3972	15	0.007	2.080	21:00 hr	4.642	0.689	1.174	0.551	0.588	0.723	
2510	3972	4226	15	0.007	2.210	21:00 hr	4.708	0.715	1.174	0.572	0.624	0.746	
223F7B	860	9000	8	0.003	0.389	09:00 hr	2.287	0.471	0.735	0.706	0.846	0.365	
2054FC	996	998	10	0.000	0.192	08:00 hr	0.546	0.833	0.105	1.000	4.285	0.237	
1F51CE	1234	1232	12	0.000	0.563	08:45 hr	1.109	1.000	0.248	1.000	1.315	0.391	
1EF0B4	1276	1274	12	0.000	0.279	08:15 hr	0.727	0.706	0.191	0.706	0.847	0.272	
14A40E	1754	1748	8	0.000	0.043	07:52 hr	0.192	0.667	0.042	1.000	1.750	0.117	
12F69A	1996	2000	8	0.005	0.434	07:45 hr	2.716	0.444	0.881	0.666	0.783	0.386	
DD692	2244	2246	24	0.001	6.239	33:30 hr	3.073	2.000	0.553	1.000	1.155	1.111	
DD4FA	2268	2270	24	0.003	6.100	33:15 hr	4.327	1.310	0.817	0.655	0.765	1.098	
DD4F0	2272	2274	24	0.003	6.124	33:15 hr	4.269	1.331	0.803	0.665	0.782	1.100	
DD4E2	2276	2278	24	0.003	6.158	33:15 hr	4.141	1.374	0.772	0.687	0.817	1.103	
DD47D	2298	2296	24	0.003	7.333	33:45 hr	4.624	1.458	0.852	0.729	0.881	1.209	
CD4D3	2316	2314	8	0.003	0.366	09:00 hr	2.249	0.452	0.729	0.678	0.802	0.354	
CB14C	2332	2330	24	0.002	6.492	33:30 hr	3.883	1.535	0.710	0.768	0.936	1.134	
C396C	2336	2334	24	0.003	7.354	33:45 hr	4.148	1.631	0.757	0.816	0.996	1.211	
C3969	1572	2338	24	0.004	7.583	33:45 hr	5.134	1.366	0.959	0.683	0.810	1.230	
BED58	2394	2396	30	0.001	7.732	34:01 hr	3.457	1.660	0.582	0.664	0.779	1.160	
BED49	2410	2412	24	0.003	6.211	33:30 hr	4.118	1.392	0.766	0.696	0.831	1.108	
BED46	2282	2410	24	0.003	6.197	33:16 hr	4.192	1.367	0.783	0.683	0.811	1.107	
BED43	2414	2280	24	0.003	6.161	33:15 hr	4.249	1.343	0.797	0.672	0.792	1.104	
BED40	2278	2414	24	0.003	6.159	33:15 hr	4.211	1.354	0.788	0.677	0.801	1.103	
BED3D	2274	2276	24	0.003	6.149	33:16 hr	4.256	1.339	0.799	0.669	0.789	1.102	
BED3A	2270	2416	24	0.003	6.099	33:15 hr	4.246	1.332	0.798	0.666	0.783	1.098	
BED37	2416	2272	24	0.003	6.101	33:16 hr	4.235	1.335	0.795	0.668	0.786	1.098	
AAF3A3	2586	2584	8	0.000	0.268	07:00 hr	1.186	0.667	0.256	1.000	10.803	0.300	
AAF96	2580	2588	8	0.003	0.349	07:35 hr	2.070	0.466	0.661	0.700	0.836	0.345	
AAD67	2604	2602	8	0.000	0.073	07:00 hr	0.322	0.667	0.070	1.000	2.937	0.153	
AAD66	2606	2602	6	0.000	0.011	07:00 hr	0.103	0.405	0.037	0.811	0.990	0.064	
AAA85	2726	2834	10	0.000	0.276	44:56 hr	0.784	0.833	0.218	1.000	1.145	0.285	
A376D	3000	3004	20	0.001	3.670	08:30 hr	2.603	1.667	0.397	1.000	1.496	0.890	
A2F25	3306	3304	27	0.001	5.191	09:01 hr	2.837	1.507	0.502	0.670	0.789	0.973	
9B623	4678	9004	15	0.000	0.617	08:30 hr	1.091	0.838	0.259	0.670	0.790	0.384	
64EFC	6256	6254	8	0.000	0.113	07:00 hr	0.500	0.667	0.108	1.000	4.556	0.192	
64EDA	6264	6262	8	0.000	0.040	07:00 hr	0.177	0.667	0.038	1.000	1.615	0.113	
63CCB	3652	6522	8	0.000	0.022	20:45 hr	0.124	0.493	0.039	0.739	0.896	0.084	
2A077	6764	6258	8	0.004	0.353	07:57 hr	2.250	0.437	0.733	0.656	0.766	0.347	
29178	6908	6912	6	0.002	0.174	08:46 hr	1.370	0.500	0.464	1.000	1.228	0.262	
2916C	6912	6922	6	0.003	0.180	08:45 hr	1.710	0.387	0.624	0.773	0.944	0.266	
29031	2366	2290	24	0.003	6.715	33:30 hr	4.646	1.340	0.872	0.670	0.789	1.154	
2902E	7046	2368	24	0.003	6.533	33:31 hr	4.355	1.385	0.811	0.693	0.825	1.138	
2900A	7066	2356	24	0.002	6.750	33:31 hr	3.983	1.556	0.728	0.778	0.950	1.158	
29001	570	6210	24	0.004	7.168	33:31 hr	4.941	1.344	0.926	0.672	0.792	1.194	
28FFE	6220	9172	24	0.004	7.213	33:45 hr	4.792	1.389	0.891	0.695	0.829	1.198	
28FF8	2294	2298	24	0.004	7.333	33:46 hr	5.013	1.354	0.938	0.677	0.801	1.209	
28FF2	2296	2336	24	0.004	7.344	33:46 hr	5.116	1.331	0.962	0.666	0.782	1.210	
28FEF	2338	7068	24	0.004	7.602	33:46 hr	5.080	1.382	0.946	0.691	0.823	1.232	
28FEC	2342	7070	24	0.004	7.608	33:46 hr	4.914	1.426	0.909	0.713	0.857	1.232	
28FE6	7074	2394	30	0.001	7.732	34:00 hr	3.457	1.660	0.582	0.664	0.779	1.160	
28FB3	3066	7088	30	0.002	11.425	10:00 hr	4.481	1.873	0.736	0.749	0.911	1.423	
28FB0	7090	6472	30	0.001	7.730	34:00 hr	3.192	1.784	0.528	0.714	0.858	1.160	
28FAD	2396	7090	30	0.001	7.731	34:01 hr	3.457	1.660	0.582	0.664	0.779	1.160	
28FAA	7092	7072	24	0.004	7.692	34:00 hr	5.106	1.390	0.949	0.695	0.830	1.239	
28FA4	7094	7092	24	0.004	7.691	34:00 hr	5.106	1.390	0.950	0.695	0.830	1.239	
28FA1	7096	7094	24	0.004	7.669	34:00 hr	5.103	1.387	0.950	0.694	0.827	1.237	
28F9E	7078	9828	24	0.003	7.615	33:59 hr	4.629	1.511	0.848	0.755	0.919	1.233	
28F9B	7068	2340	24	0.004	7.605	33:45 hr	5.084	1.381	0.947	0.691	0.823	1.232	
28F98	2358	568	24	0.003	7.116	33:30 hr	4.701	1.396	0.873	0.698	0.834	1.190	
28F8F	2246	7042	24	0.003	6.380	33:30 hr	4.534	1.308	0.856	0.654	0.763	1.124	
28C69	7178	7176	18	0.001	1.711	08:35 hr	1.798	1.164	0.379	0.776	0.948	0.617	
28C17	7190	770	18	0.001	1.745	08:45 hr	1.802	1.186	0.380	0.791	0.966	0.623	
28C11	7176	7190	18	0.001	1.731	08:45 hr	1.799	1.178	0.379	0.786	0.960	0.621	
28COE	7188	7178	15	0.002	1.682	08:31 hr	2.670	0.926	0.620	0.741	0.898	0.647	

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
28AA4	2314	2312	8	0.001	0.365	09:00 hr	1.619	0.667	0.466	1.000	1.249	0.353
28866	7308	7306	8	0.004	0.469	08:46 hr	2.393	0.541	0.692	0.811	0.990	0.402
28863	7312	7310	8	0.004	0.391	08:46 hr	2.308	0.469	0.742	0.703	0.843	0.366
28665	7332	7330	8	0.002	0.337	47:47 hr	1.802	0.516	0.570	0.774	0.944	0.339
28641	7310	7332	8	0.003	0.355	08:45 hr	2.231	0.443	0.727	0.664	0.780	0.348
2863B	7306	7312	8	0.004	0.428	08:46 hr	2.450	0.482	0.774	0.724	0.873	0.384
285BA	6774	7418	18	0.001	3.369	08:15 hr	2.950	1.500	0.542	1.000	1.301	0.879
285A5	7422	7424	21	0.001	3.408	08:17 hr	2.192	1.750	0.430	1.000	1.134	0.844
28599	6266	7430	8	0.003	0.552	32:00 hr	2.447	0.667	0.729	1.000	1.202	0.438
284FD	7502	7504	18	0.001	1.700	32:55 hr	2.067	1.015	0.447	0.676	0.800	0.615
284F1	7508	7510	18	0.001	1.804	33:00 hr	2.268	0.985	0.494	0.657	0.768	0.634
284EE	7510	7512	18	0.001	1.820	33:00 hr	2.206	1.018	0.477	0.678	0.803	0.637
276F9	7922	7920	8	0.000	0.067	07:00 hr	0.295	0.667	0.064	1.000	2.687	0.146
276C5	7932	7928	8	0.003	0.507	08:00 hr	2.248	0.667	0.706	1.000	1.126	0.419
258FD	998	8306	10	0.000	0.192	08:15 hr	0.546	0.833	0.167	1.000	1.050	0.237
2540B	8364	8366	4	0.000	0.015	07:15 hr	0.270	0.333	0.082	1.000	3.906	0.083
24E86	4904	8458	12	0.000	0.248	09:00 hr	0.488	1.000	0.086	1.000	3.392	0.256
24E80	7618	8460	8	0.000	0.133	07:30 hr	0.591	0.667	0.128	1.000	5.387	0.209
24E7A	2238	8466	12	0.002	0.824	09:00 hr	2.221	0.685	0.586	0.685	0.814	0.477
24E77	8466	8468	12	0.002	0.850	08:59 hr	2.271	0.691	0.598	0.691	0.823	0.484
24E6E	8472	8474	12	0.003	0.973	08:59 hr	2.749	0.658	0.733	0.658	0.769	0.520
24E6B	8474	8476	12	0.002	0.999	09:00 hr	2.317	0.792	0.598	0.792	0.968	0.527
24E68	8476	8478	12	0.002	1.016	09:00 hr	2.319	0.805	0.598	0.805	0.984	0.532
24E05	8524	8526	15	0.002	1.362	33:17 hr	2.466	0.821	0.588	0.657	0.768	0.579
24E02	8526	2350	15	0.002	1.372	33:18 hr	2.475	0.824	0.590	0.659	0.771	0.581
23CDD	8878	5198	12	0.000	0.138	08:45 hr	0.271	1.000	0.048	1.000	1.884	0.189
336F6D	6228	8928	24	0.003	7.297	33:45 hr	4.653	1.443	0.859	0.721	0.870	1.206
336F60	6210	8930	24	0.003	7.181	33:45 hr	4.658	1.420	0.862	0.710	0.853	1.196
32F2BD	9172	6228	24	0.004	7.282	33:45 hr	5.192	1.304	0.981	0.652	0.760	1.204
2BE63D	9828	7096	24	0.004	7.654	34:00 hr	5.321	1.334	0.999	0.667	0.784	1.236
1068	CH49	2250	24	0.000	2.791	45:30 hr	1.375	2.000	0.276	1.000	1.033	0.730
1130	CH111	CH113	12	0.005	1.227	09:05 hr	3.382	0.672	0.897	0.672	0.793	0.587
1260	CH233	LS27	8	0.002	0.288	08:59 hr	1.701	0.468	0.546	0.703	0.841	0.312
1292	CH137	LS27	8	0.002	0.364	07:15 hr	1.840	0.546	0.582	0.820	1.000	0.352
1314	CH277	LS21	12	0.000	0.267	07:00 hr	0.525	1.000	0.093	1.000	3.652	0.266
1738	CH705	CH707	8	0.004	0.376	07:50 hr	2.329	0.448	0.755	0.672	0.793	0.358
1742	CH709	CH711	15	0.001	1.174	09:21 hr	2.064	0.843	0.489	0.674	0.797	0.536
1858	CH267	CH1183	12	0.005	1.315	20:22 hr	3.517	0.691	0.918	0.691	0.822	0.609
2232	CH1183	LS31	15	0.004	2.152	20:44 hr	3.854	0.829	0.917	0.663	0.778	0.736
2274	CH1201	CH1233	8	0.003	0.948	36:15 hr	4.204	0.667	0.907	1.000	2.195	0.568
2304	CH1231	CH1229	8	0.003	0.956	36:15 hr	4.236	0.667	0.914	1.000	2.098	0.569
2306	CH1233	CH1231	8	0.003	0.949	36:15 hr	4.204	0.667	0.907	1.000	2.072	0.568
2382	CH1315	CH1317	12	0.002	1.209	08:10 hr	2.382	1.000	0.637	1.000	1.099	0.583
2422	CH1355	CH1357	15	0.002	1.501	08:15 hr	2.379	0.927	0.552	0.742	0.900	0.609
2424	CH1357	CH1359	15	0.002	1.510	08:18 hr	2.390	0.929	0.555	0.743	0.902	0.611
2426	CH1359	7186	15	0.002	1.541	08:30 hr	2.305	0.982	0.531	0.786	0.960	0.618
2470	CH1395	CH1315	12	0.002	0.875	08:03 hr	2.282	0.706	0.597	0.706	0.847	0.492
28CA0F	106	108	8	0.003	0.001	06:02 hr	0.379	0.021	0.567	0.031	0.002	0.016
28CA0E	112	110	8	0.003	0.002	07:01 hr	0.537	0.035	0.613	0.053	0.005	0.028
28C9FD	110	108	8	0.003	0.004	07:16 hr	0.625	0.045	0.634	0.067	0.009	0.036
28C9F4	108	114	8	0.003	0.006	07:30 hr	0.697	0.052	0.653	0.078	0.012	0.042
28C9EB	114	116	8	0.004	0.008	08:00 hr	0.759	0.059	0.667	0.089	0.016	0.048
28C9E2	116	118	8	0.003	0.009	07:41 hr	0.799	0.065	0.671	0.097	0.020	0.053
28C9D9	118	120	8	0.003	0.010	07:46 hr	0.832	0.070	0.673	0.105	0.023	0.057
28C9C3	124	122	8	0.003	0.000	06:01 hr	0.233	0.010	0.505	0.015	0.000	0.007
28C9BA	122	126	8	0.003	0.000	06:15 hr	0.289	0.014	0.536	0.020	0.001	0.010
28C9B1	126	128	8	0.003	0.000	06:22 hr	0.315	0.016	0.546	0.023	0.001	0.011
28C9A8	128	130	8	0.003	0.000	06:22 hr	0.313	0.015	0.544	0.023	0.001	0.011
28C99F	130	132	8	0.003	0.000	06:26 hr	0.314	0.015	0.545	0.023	0.001	0.011
28C996	132	134	8	0.003	0.001	06:28 hr	0.351	0.018	0.562	0.027	0.001	0.014
28C98D	134	136	10	0.003	0.017	08:08 hr	0.831	0.088	0.598	0.106	0.023	0.068
28C986	138	134	8	0.003	0.015	08:02 hr	0.934	0.084	0.688	0.125	0.033	0.069
28C97D	140	138	8	0.003	0.014	08:01 hr	0.910	0.079	0.689	0.119	0.030	0.066

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
28C974	120	140	8	0.003	0.013	08:00 hr	0.880	0.077	0.674	0.116	0.029	0.063	
28C96B	142	120	8	0.003	0.002	07:00 hr	0.507	0.033	0.603	0.049	0.005	0.025	
28C95A	144	146	10	0.002	0.009	08:13 hr	0.683	0.067	0.566	0.080	0.013	0.050	
28C952	148	144	10	0.003	0.009	08:13 hr	0.696	0.066	0.580	0.079	0.013	0.050	
28C949	152	150	8	0.003	0.003	07:00 hr	0.578	0.040	0.624	0.059	0.007	0.031	
28C940	150	154	8	0.003	0.004	08:01 hr	0.644	0.046	0.643	0.069	0.010	0.037	
28C937	154	148	8	0.003	0.006	08:09 hr	0.692	0.052	0.649	0.078	0.012	0.042	
28C92E	156	148	8	0.003	0.003	20:01 hr	0.594	0.041	0.631	0.061	0.007	0.032	
28C925	158	156	8	0.003	0.001	20:01 hr	0.361	0.019	0.562	0.029	0.002	0.014	
28C91C	158	160	8	0.007	0.001	19:59 hr	0.523	0.019	0.814	0.029	0.002	0.017	
28C912	160	162	8	0.003	0.003	20:01 hr	0.590	0.040	0.631	0.060	0.007	0.032	
28C906	164	162	8	0.003	0.006	20:02 hr	0.722	0.055	0.657	0.083	0.014	0.045	
28C8FC	162	166	8	0.003	0.015	20:16 hr	0.935	0.083	0.690	0.125	0.033	0.069	
28C8F3	166	168	8	0.008	0.019	20:30 hr	1.359	0.076	1.049	0.114	0.028	0.078	
28C8E8	168	170	12	0.002	0.024	20:31 hr	0.844	0.104	0.558	0.104	0.023	0.078	
28C8D0	174	172	8	0.003	0.025	20:40 hr	1.077	0.106	0.702	0.159	0.055	0.088	
28C8C9	172	176	8	0.003	0.026	20:42 hr	1.096	0.108	0.706	0.162	0.057	0.091	
28C8BA	178	180	10	0.002	0.005	20:29 hr	0.563	0.049	0.546	0.059	0.007	0.036	
28C8B7	182	178	10	0.003	0.004	20:33 hr	0.568	0.040	0.610	0.048	0.004	0.031	
28C8AE	184	182	8	0.003	0.003	20:21 hr	0.569	0.039	0.619	0.058	0.007	0.031	
28C8A5	186	184	8	0.004	0.003	20:24 hr	0.577	0.039	0.630	0.058	0.007	0.031	
28C89C	188	186	8	0.003	0.003	20:19 hr	0.556	0.037	0.624	0.055	0.006	0.029	
28C893	190	188	8	0.003	0.002	20:15 hr	0.503	0.032	0.607	0.048	0.004	0.025	
28C88A	192	194	8	0.003	0.001	20:15 hr	0.440	0.026	0.587	0.039	0.003	0.020	
28C887	196	192	8	0.003	0.001	20:00 hr	0.339	0.017	0.554	0.026	0.001	0.013	
28C878	198	190	8	0.003	0.001	20:00 hr	0.391	0.022	0.573	0.032	0.002	0.016	
28C86F	200	190	8	0.003	0.000	19:55 hr	0.293	0.014	0.535	0.021	0.001	0.010	
28C866	200	202	8	0.004	0.000	20:00 hr	0.301	0.014	0.544	0.021	0.001	0.010	
28C85D	202	204	8	0.003	0.002	20:01 hr	0.466	0.028	0.598	0.042	0.003	0.022	
28C853	204	206	8	0.003	0.004	20:16 hr	0.601	0.042	0.630	0.063	0.008	0.033	
28C848	208	206	8	0.004	0.004	07:01 hr	0.657	0.046	0.657	0.069	0.010	0.037	
28C83C	206	210	10	0.003	0.016	08:15 hr	0.829	0.087	0.601	0.104	0.023	0.067	
28C831	210	180	10	0.002	0.019	08:21 hr	0.851	0.095	0.590	0.114	0.027	0.073	
28C828	212	214	8	0.003	0.002	07:00 hr	0.478	0.029	0.598	0.044	0.004	0.023	
28C81F	214	216	8	0.003	0.004	08:02 hr	0.599	0.041	0.631	0.062	0.008	0.033	
28C816	216	218	8	0.003	0.005	08:11 hr	0.666	0.049	0.643	0.074	0.011	0.039	
28C80B	218	176	8	0.003	0.006	08:15 hr	0.632	0.055	0.576	0.083	0.014	0.042	
28C7FF	176	220	10	0.002	0.033	20:43 hr	1.011	0.122	0.614	0.147	0.047	0.096	
28C7F6	220	194	12	0.002	0.033	20:45 hr	0.926	0.124	0.561	0.124	0.033	0.092	
28C7EC	194	222	12	0.002	0.035	20:44 hr	0.949	0.126	0.569	0.126	0.034	0.095	
28C7E3	222	224	12	0.003	0.036	20:44 hr	1.025	0.120	0.629	0.120	0.031	0.095	
28C7CD	226	228	8	0.003	0.004	20:15 hr	0.602	0.042	0.631	0.063	0.008	0.033	
28C7C6	228	230	8	0.004	0.004	20:18 hr	0.644	0.045	0.649	0.068	0.009	0.036	
28C7BC	232	226	8	0.003	0.002	20:00 hr	0.526	0.034	0.608	0.052	0.005	0.027	
28C7B2	234	232	8	0.006	0.001	20:00 hr	0.487	0.020	0.739	0.030	0.002	0.017	
28C7A9	234	236	8	0.003	0.001	20:00 hr	0.374	0.020	0.567	0.030	0.002	0.015	
28C79D	236	238	8	0.003	0.004	20:01 hr	0.625	0.044	0.636	0.067	0.009	0.035	
28C792	238	240	8	0.003	0.010	20:15 hr	0.830	0.069	0.675	0.103	0.022	0.056	
28C789	240	242	8	0.003	0.013	20:29 hr	0.881	0.076	0.682	0.114	0.027	0.063	
28C780	242	244	8	0.003	0.015	20:31 hr	0.932	0.083	0.688	0.125	0.033	0.069	
28C777	246	248	8	0.003	0.012	08:00 hr	0.876	0.075	0.680	0.113	0.027	0.062	
28C76E	248	250	8	0.003	0.015	08:15 hr	0.928	0.082	0.691	0.123	0.032	0.068	
28C76B	250	252	8	0.003	0.017	08:28 hr	0.961	0.088	0.691	0.131	0.037	0.073	
28C761	252	254	8	0.003	0.018	08:29 hr	0.987	0.091	0.697	0.136	0.040	0.076	
28C757	254	174	8	0.003	0.024	08:29 hr	1.080	0.104	0.709	0.156	0.053	0.088	
28C74F	256	254	8	0.003	0.006	20:30 hr	0.711	0.054	0.653	0.081	0.014	0.044	
28C744	258	256	8	0.003	0.005	20:24 hr	0.667	0.049	0.645	0.074	0.011	0.039	
28C72E	260	258	8	0.003	0.004	20:16 hr	0.613	0.043	0.635	0.064	0.008	0.034	
28C72B	262	260	8	0.003	0.001	20:02 hr	0.457	0.027	0.594	0.041	0.003	0.021	
28C71C	264	248	8	0.003	0.001	20:00 hr	0.433	0.025	0.586	0.038	0.003	0.019	
28C713	264	266	8	0.006	0.002	20:00 hr	0.565	0.025	0.765	0.038	0.003	0.022	
28C707	266	268	8	0.003	0.008	20:02 hr	0.782	0.063	0.668	0.094	0.018	0.051	
28C6FE	268	244	8	0.003	0.011	20:16 hr	0.839	0.070	0.674	0.106	0.023	0.058	

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
28C6F3	244	270	10	0.002	0.028	20:45 hr	0.952	0.114	0.598	0.137	0.040	0.088	
28C6E5	274	272	15	0.011	0.416	21:00 hr	3.486	0.260	1.441	0.208	0.095	0.313	
28C6E2	272	276	15	0.011	0.416	20:59 hr	3.475	0.261	1.433	0.208	0.095	0.313	
28C6D9	276	278	15	0.009	0.416	21:00 hr	3.228	0.274	1.296	0.220	0.106	0.313	
28C6CB	278	280	15	0.002	0.417	21:00 hr	1.912	0.399	0.627	0.319	0.221	0.313	
28C6BF	280	282	15	0.006	0.418	21:00 hr	2.769	0.306	1.047	0.245	0.132	0.314	
28C6B6	284	282	8	0.007	0.003	20:00 hr	0.701	0.030	0.866	0.045	0.004	0.028	
28C6B3	284	286	8	0.003	0.002	20:00 hr	0.489	0.030	0.605	0.045	0.004	0.023	
28C6AA	286	288	8	0.003	0.007	20:01 hr	0.725	0.056	0.656	0.084	0.014	0.045	
28C6A1	290	288	8	0.003	0.001	19:58 hr	0.327	0.016	0.552	0.024	0.001	0.012	
28C69E	290	292	8	0.004	0.001	19:58 hr	0.364	0.016	0.614	0.025	0.001	0.013	
28C693	294	292	8	0.003	0.011	20:01 hr	0.844	0.071	0.675	0.107	0.024	0.058	
28C689	292	296	8	0.003	0.012	20:16 hr	0.876	0.076	0.679	0.114	0.027	0.062	
28C680	296	230	8	0.003	0.014	20:30 hr	0.915	0.080	0.687	0.121	0.031	0.067	
28C677	230	298	8	0.003	0.019	20:44 hr	0.999	0.093	0.695	0.140	0.042	0.078	
28C66E	298	300	8	0.003	0.020	20:39 hr	1.007	0.095	0.695	0.142	0.044	0.079	
28C664	300	302	8	0.003	0.020	20:44 hr	1.021	0.096	0.702	0.143	0.044	0.080	
28C659	304	306	8	0.003	0.001	20:00 hr	0.451	0.027	0.590	0.040	0.003	0.021	
28C650	306	308	8	0.004	0.002	20:15 hr	0.515	0.033	0.614	0.049	0.005	0.025	
28C647	308	310	8	0.003	0.003	20:28 hr	0.539	0.035	0.615	0.053	0.005	0.028	
28C63E	314	312	8	0.003	0.001	20:01 hr	0.442	0.026	0.589	0.039	0.003	0.020	
28C635	312	310	8	0.003	0.002	20:13 hr	0.526	0.035	0.609	0.052	0.005	0.027	
28C62C	310	316	8	0.004	0.005	20:27 hr	0.678	0.049	0.653	0.074	0.011	0.040	
28C620	316	318	8	0.003	0.006	20:25 hr	0.703	0.053	0.652	0.080	0.013	0.043	
28C617	282	320	15	0.002	0.422	21:01 hr	1.766	0.427	0.558	0.341	0.251	0.316	
28C60D	320	322	15	0.002	0.423	21:00 hr	1.748	0.431	0.550	0.345	0.255	0.316	
28C604	322	324	15	0.002	0.424	21:00 hr	1.771	0.427	0.560	0.342	0.251	0.316	
28C5EE	324	326	15	0.002	0.424	21:00 hr	1.745	0.432	0.548	0.346	0.257	0.316	
28C5E3	326	318	15	0.002	0.425	21:01 hr	1.887	0.409	0.611	0.327	0.231	0.317	
28C5DA	318	328	15	0.002	0.432	21:00 hr	1.731	0.440	0.539	0.352	0.266	0.319	
28C5CF	328	330	15	0.001	0.432	21:00 hr	1.704	0.445	0.527	0.356	0.272	0.319	
28C5C6	330	332	15	0.002	0.433	21:00 hr	1.740	0.439	0.542	0.351	0.265	0.320	
28C5BD	332	334	15	0.002	0.433	21:01 hr	1.719	0.444	0.533	0.355	0.270	0.320	
28C5B4	334	336	15	0.004	0.434	21:15 hr	2.508	0.338	0.900	0.270	0.160	0.320	
28C5AB	336	338	15	0.002	0.435	21:14 hr	1.733	0.442	0.538	0.354	0.268	0.320	
28C5A0	288	340	8	0.003	0.010	20:16 hr	0.824	0.068	0.673	0.102	0.022	0.056	
28C595	340	342	8	0.003	0.012	20:29 hr	0.869	0.074	0.679	0.112	0.026	0.061	
28C58C	342	302	8	0.003	0.014	20:31 hr	0.910	0.080	0.686	0.120	0.030	0.066	
28C582	302	338	8	0.004	0.035	20:45 hr	1.245	0.122	0.752	0.183	0.073	0.106	
28C578	344	346	15	0.001	0.471	21:00 hr	1.746	0.466	0.527	0.373	0.296	0.334	
28C572	338	344	15	0.002	0.470	21:00 hr	1.789	0.457	0.546	0.366	0.286	0.333	
28C560	348	350	8	0.003	0.005	20:24 hr	0.655	0.048	0.642	0.072	0.010	0.038	
28C557	352	354	8	0.003	0.002	20:01 hr	0.476	0.029	0.602	0.043	0.004	0.022	
28C54E	356	352	8	0.003	0.001	19:58 hr	0.363	0.019	0.561	0.029	0.002	0.015	
28C545	356	358	8	0.003	0.001	20:00 hr	0.365	0.020	0.563	0.029	0.002	0.015	
28C53A	358	360	8	0.003	0.003	20:02 hr	0.570	0.038	0.624	0.058	0.007	0.030	
28C531	360	348	8	0.003	0.004	20:15 hr	0.626	0.045	0.634	0.067	0.009	0.036	
28C522	364	362	8	0.003	0.001	20:01 hr	0.415	0.024	0.578	0.036	0.002	0.018	
28C519	362	366	8	0.003	0.002	08:17 hr	0.522	0.034	0.612	0.050	0.005	0.026	
28C510	366	368	8	0.003	0.005	20:31 hr	0.679	0.050	0.649	0.075	0.012	0.040	
28C506	368	370	8	0.008	0.007	20:29 hr	0.960	0.047	0.952	0.070	0.010	0.046	
28C4F7	374	372	8	0.003	0.254	44:45 hr	2.006	0.365	0.696	0.548	0.582	0.292	
28C4EC	376	374	8	0.003	0.253	20:45 hr	2.080	0.354	0.731	0.531	0.553	0.291	
28C4DF	378	380	8	0.003	0.145	20:45 hr	1.797	0.258	0.730	0.387	0.316	0.218	
28C4DC	380	382	8	0.003	0.146	20:45 hr	1.799	0.259	0.729	0.388	0.319	0.219	
28C4D3	382	384	8	0.003	0.147	20:45 hr	1.812	0.259	0.734	0.389	0.320	0.220	
28C4C8	386	384	8	0.004	0.005	20:16 hr	0.697	0.048	0.682	0.072	0.010	0.040	
28C4C5	388	386	8	0.003	0.003	20:16 hr	0.587	0.040	0.628	0.060	0.007	0.032	
28C4BB	390	388	8	0.005	0.002	20:00 hr	0.568	0.027	0.745	0.040	0.003	0.023	
28C4AE	392	390	8	0.005	0.001	19:58 hr	0.416	0.017	0.691	0.025	0.001	0.014	
28C4A3	392	394	8	0.003	0.001	19:58 hr	0.330	0.017	0.548	0.025	0.001	0.013	
28C49A	394	396	8	0.004	0.002	20:00 hr	0.505	0.027	0.664	0.040	0.003	0.022	
28C48F	398	376	8	0.003	0.107	08:44 hr	1.655	0.219	0.732	0.328	0.233	0.186	

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
28C48A	400	376	8	0.003	0.154	20:45 hr	1.818	0.268	0.725	0.401	0.339	0.225
28C481	384	400	8	0.003	0.153	20:45 hr	1.825	0.266	0.731	0.398	0.334	0.224
28C472	402	398	8	0.003	0.106	08:42 hr	1.645	0.219	0.728	0.328	0.232	0.185
28C469	404	402	8	0.003	0.105	08:42 hr	1.637	0.218	0.725	0.327	0.231	0.185
28C460	406	404	8	0.003	0.105	08:40 hr	1.631	0.218	0.722	0.328	0.232	0.184
28C457	408	406	8	0.003	0.002	20:01 hr	0.466	0.029	0.591	0.043	0.004	0.022
28C44C	410	406	8	0.003	0.103	08:42 hr	1.638	0.215	0.732	0.322	0.224	0.183
28C443	396	410	8	0.003	0.100	08:34 hr	1.618	0.212	0.728	0.318	0.219	0.180
28C43A	412	396	8	0.003	0.096	08:42 hr	1.603	0.207	0.730	0.311	0.209	0.176
28C431	414	412	8	0.004	0.095	08:35 hr	1.606	0.205	0.735	0.308	0.206	0.175
28C428	416	418	8	0.008	0.002	20:01 hr	0.686	0.026	0.910	0.039	0.003	0.025
28C41D	422	420	6	0.003	0.134	20:45 hr	1.699	0.299	0.659	0.597	0.667	0.229
28C418	420	378	6	0.003	0.135	20:45 hr	1.774	0.289	0.696	0.578	0.634	0.229
28C40F	418	378	8	0.003	0.009	20:38 hr	0.801	0.066	0.668	0.098	0.020	0.054
28C404	424	418	8	0.004	0.006	20:29 hr	0.720	0.051	0.682	0.076	0.012	0.042
28C3FA	426	424	8	0.003	0.004	20:15 hr	0.604	0.042	0.632	0.063	0.008	0.033
28C3F0	428	426	8	0.003	0.002	20:00 hr	0.506	0.032	0.611	0.048	0.004	0.025
28C3E7	430	428	8	0.004	0.001	19:58 hr	0.394	0.018	0.625	0.028	0.001	0.015
28C3DD	430	432	8	0.003	0.001	19:57 hr	0.353	0.018	0.560	0.028	0.001	0.014
28C3D4	432	434	8	0.003	0.002	20:00 hr	0.486	0.030	0.599	0.046	0.004	0.024
28C3C9	436	414	8	0.003	0.063	08:00 hr	1.414	0.167	0.724	0.250	0.137	0.141
28C3BE	434	414	8	0.003	0.011	20:40 hr	0.855	0.072	0.679	0.108	0.025	0.059
28C3B5	438	434	8	0.003	0.009	20:42 hr	0.786	0.064	0.665	0.096	0.019	0.052
28C3A9	440	438	8	0.003	0.008	20:38 hr	0.753	0.062	0.648	0.093	0.018	0.050
28C3A0	442	440	8	0.004	0.007	20:30 hr	0.754	0.058	0.668	0.087	0.016	0.048
28C395	444	442	8	0.003	0.006	20:30 hr	0.704	0.054	0.651	0.080	0.013	0.043
28C38C	446	444	8	0.003	0.005	20:24 hr	0.655	0.048	0.642	0.072	0.010	0.038
28C383	448	446	8	0.003	0.003	20:15 hr	0.584	0.040	0.629	0.059	0.007	0.031
28C378	450	448	8	0.003	0.001	20:00 hr	0.453	0.027	0.593	0.040	0.003	0.021
28C363	454	452	8	0.003	0.019	20:01 hr	0.989	0.092	0.694	0.138	0.041	0.076
28C359	458	456	8	0.003	0.055	20:31 hr	1.371	0.157	0.727	0.235	0.121	0.133
28C356	452	458	8	0.003	0.051	20:16 hr	1.337	0.151	0.722	0.227	0.113	0.128
28C34D	460	452	8	0.003	0.035	32:00 hr	1.195	0.124	0.718	0.185	0.075	0.105
28C344	462	460	8	0.003	0.021	20:00 hr	1.028	0.097	0.701	0.146	0.046	0.081
28C33B	462	464	8	0.004	0.023	20:00 hr	1.137	0.097	0.774	0.146	0.046	0.085
28C332	464	466	8	0.003	0.024	20:15 hr	1.073	0.104	0.707	0.155	0.052	0.087
28C329	466	468	8	0.003	0.025	20:20 hr	1.081	0.105	0.708	0.157	0.054	0.088
28C320	468	470	8	0.003	0.025	20:29 hr	1.060	0.106	0.689	0.159	0.055	0.088
28C317	470	472	8	0.004	0.025	20:25 hr	1.094	0.105	0.716	0.158	0.054	0.089
28C30C	472	474	8	0.003	0.026	20:29 hr	1.092	0.108	0.704	0.162	0.057	0.091
28C303	476	474	8	0.005	0.001	20:00 hr	0.473	0.023	0.672	0.034	0.002	0.019
28C2FA	474	478	8	0.004	0.028	20:30 hr	1.126	0.111	0.714	0.167	0.061	0.094
28C2F1	478	480	8	0.003	0.028	20:30 hr	1.131	0.112	0.714	0.169	0.062	0.095
28C2E8	480	482	8	0.003	0.030	20:43 hr	1.137	0.116	0.708	0.173	0.065	0.097
28C2DF	482	484	8	0.003	0.032	20:40 hr	1.162	0.119	0.713	0.178	0.069	0.100
28C2D4	488	486	8	0.003	0.125	20:45 hr	1.590	0.253	0.652	0.380	0.306	0.202
28C2CF	490	488	8	0.003	0.124	20:45 hr	1.710	0.239	0.722	0.358	0.275	0.201
28C2C6	484	490	8	0.003	0.124	44:45 hr	1.726	0.237	0.732	0.355	0.270	0.201
28C2B0	492	484	8	0.003	0.091	20:45 hr	1.578	0.202	0.728	0.303	0.200	0.172
28C2A7	494	492	8	0.003	0.089	20:44 hr	1.572	0.200	0.731	0.299	0.195	0.170
28C29E	456	494	8	0.003	0.087	20:44 hr	1.558	0.198	0.728	0.297	0.192	0.168
28C295	496	456	8	0.003	0.030	20:31 hr	1.137	0.115	0.710	0.172	0.065	0.097
28C28C	500	498	8	0.003	0.011	20:02 hr	0.850	0.072	0.676	0.108	0.024	0.059
28C27E	502	496	8	0.003	0.009	20:00 hr	0.794	0.065	0.663	0.098	0.020	0.053
28C278	498	496	8	0.003	0.019	20:32 hr	0.991	0.092	0.696	0.138	0.041	0.076
28C26F	504	498	8	0.003	0.006	20:28 hr	0.700	0.053	0.654	0.079	0.013	0.042
28C265	506	504	8	0.003	0.005	20:19 hr	0.650	0.047	0.642	0.071	0.010	0.038
28C259	510	508	8	0.003	0.002	20:00 hr	0.471	0.029	0.597	0.043	0.004	0.022
28C250	508	512	8	0.003	0.002	20:14 hr	0.527	0.034	0.613	0.051	0.005	0.027
28C247	512	506	8	0.003	0.003	20:20 hr	0.556	0.038	0.613	0.057	0.006	0.030
28C23E	514	506	8	0.003	0.001	20:00 hr	0.396	0.022	0.573	0.033	0.002	0.017
28B7FE	370	516	8	0.007	0.007	20:29 hr	0.977	0.048	0.952	0.073	0.011	0.047
28B7F4	486	516	8	0.003	0.126	20:46 hr	1.729	0.239	0.730	0.358	0.275	0.203

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
28B7E3	516	422	8	0.003	0.133	20:45 hr	1.755	0.247	0.729	0.370	0.292	0.209
28B7D4	180	518	12	0.002	0.024	08:22 hr	0.844	0.106	0.555	0.106	0.023	0.078
28B7B4	372	520	8	0.003	0.254	44:45 hr	2.086	0.354	0.733	0.531	0.553	0.292
28B7AB	520	522	8	0.003	0.254	20:45 hr	2.077	0.355	0.729	0.532	0.555	0.292
28B79F	522	524	10	0.003	0.254	20:46 hr	1.989	0.326	0.719	0.391	0.323	0.273
28B78C	528	526	8	0.004	0.009	07:00 hr	0.815	0.066	0.679	0.099	0.020	0.054
28B783	526	524	8	0.003	0.011	07:16 hr	0.846	0.072	0.675	0.107	0.024	0.059
28B775	524	530	15	0.002	0.269	08:45 hr	1.515	0.344	0.539	0.275	0.165	0.250
28B75F	346	532	15	0.002	0.471	21:00 hr	1.763	0.463	0.535	0.370	0.292	0.334
28B757	530	532	15	0.002	0.269	08:45 hr	1.512	0.345	0.537	0.276	0.166	0.251
28B74D	532	534	18	0.001	0.733	21:00 hr	1.822	0.574	0.496	0.383	0.311	0.398
28B73D	534	536	18	0.001	0.733	21:00 hr	1.814	0.576	0.493	0.384	0.313	0.398
28B72E	270	536	10	0.002	0.029	20:45 hr	0.959	0.117	0.596	0.140	0.042	0.090
28B728	536	538	18	0.001	0.761	21:00 hr	1.841	0.586	0.496	0.391	0.323	0.406
28B71A	136	538	10	0.002	0.017	08:15 hr	0.815	0.090	0.581	0.107	0.024	0.068
28B70C	146	540	10	0.002	0.009	08:14 hr	0.678	0.067	0.561	0.080	0.013	0.050
28B705	538	540	18	0.001	0.772	21:00 hr	1.849	0.590	0.496	0.394	0.327	0.409
28B6FD	540	542	18	0.001	0.781	21:01 hr	1.856	0.594	0.497	0.396	0.330	0.411
28B6EF	224	542	12	0.002	0.036	20:45 hr	0.917	0.130	0.541	0.130	0.036	0.095
28B6E7	542	544	18	0.001	0.815	21:00 hr	1.879	0.607	0.497	0.405	0.344	0.420
28B6DD	544	546	18	0.001	0.814	21:01 hr	1.874	0.608	0.496	0.405	0.345	0.420
28B6CD	170	546	12	0.014	0.025	20:33 hr	1.656	0.068	1.361	0.068	0.009	0.079
28B6C7	546	548	18	0.001	0.838	21:00 hr	1.879	0.620	0.492	0.414	0.358	0.426
28B6B4	550	552	18	0.001	0.000	06:02 hr	0.000	0.000	0.000	0.000	0.000	0.008
28B6AA	552	518	18	0.001	0.001	06:16 hr	0.199	0.017	0.331	0.011	0.000	0.010
28B6A0	518	554	18	0.001	0.025	08:44 hr	0.654	0.110	0.421	0.074	0.011	0.072
28B698	554	556	18	0.001	0.025	08:28 hr	0.672	0.109	0.436	0.073	0.011	0.072
28B67D	556	558	18	0.001	0.026	08:29 hr	0.676	0.110	0.436	0.074	0.011	0.073
28B674	558	560	18	0.001	0.031	08:30 hr	0.717	0.121	0.442	0.080	0.013	0.080
28B661	560	562	18	0.001	0.039	08:34 hr	0.772	0.135	0.448	0.090	0.017	0.090
28B659	562	564	18	0.001	0.040	08:37 hr	0.759	0.138	0.437	0.092	0.017	0.091
28B651	564	566	18	0.001	0.044	07:59 hr	0.799	0.142	0.454	0.094	0.019	0.095
28B647	566	568	18	0.001	0.044	08:00 hr	0.767	0.146	0.429	0.097	0.020	0.095
28B637	568	570	24	0.005	7.159	33:30 hr	5.408	1.241	1.037	0.621	0.707	1.194
26D895	572	574	6	0.011	0.008	07:00 hr	1.205	0.050	1.155	0.099	0.021	0.053
26D88D	574	576	8	0.004	0.010	07:15 hr	0.864	0.066	0.721	0.098	0.020	0.056
26D885	576	578	8	0.004	0.013	07:30 hr	0.936	0.075	0.730	0.112	0.027	0.064
26D87E	578	580	8	0.004	0.022	07:42 hr	1.093	0.095	0.752	0.143	0.044	0.083
26D873	582	580	6	0.019	0.010	07:00 hr	1.547	0.048	1.508	0.096	0.019	0.059
26D864	580	584	8	0.005	0.039	07:46 hr	1.438	0.119	0.882	0.178	0.069	0.111
26D84D	586	588	6	0.010	0.014	07:00 hr	1.392	0.068	1.136	0.136	0.040	0.072
26D847	588	584	8	0.010	0.024	07:15 hr	1.550	0.080	1.166	0.120	0.031	0.087
26D844	584	590	8	0.004	0.068	07:45 hr	1.513	0.169	0.771	0.253	0.140	0.148
26D818	592	590	6	0.010	0.002	07:00 hr	0.804	0.029	1.019	0.057	0.006	0.029
26D811	590	594	8	0.004	0.071	07:45 hr	1.570	0.170	0.796	0.255	0.143	0.151
2554EE	602	604	8	0.006	0.008	07:00 hr	0.946	0.052	0.890	0.078	0.012	0.049
2554EA	606	608	8	0.005	0.002	07:00 hr	0.556	0.028	0.718	0.041	0.003	0.023
2554DD	604	608	8	0.010	0.030	07:15 hr	1.668	0.089	1.191	0.133	0.038	0.097
2554DA	608	610	8	0.025	0.033	07:29 hr	2.357	0.075	1.831	0.113	0.027	0.102
2554B5	594	612	8	0.004	0.073	07:44 hr	1.554	0.174	0.778	0.261	0.149	0.153
2554AC	612	614	8	0.005	0.115	07:46 hr	1.939	0.206	0.886	0.309	0.207	0.193
2554A4	614	610	8	0.005	0.139	07:57 hr	2.039	0.228	0.883	0.341	0.251	0.213
25549C	610	616	8	0.005	0.188	07:58 hr	2.142	0.275	0.842	0.413	0.358	0.250
255494	616	618	8	0.004	0.193	07:59 hr	2.111	0.283	0.819	0.425	0.376	0.253
25548B	618	620	12	0.003	0.211	08:00 hr	1.868	0.274	0.744	0.274	0.164	0.235
25547D	620	622	12	0.002	0.224	32:00 hr	1.738	0.302	0.657	0.302	0.198	0.243
24B931	644	646	8	0.004	0.009	07:02 hr	0.830	0.061	0.717	0.092	0.017	0.052
24B928	646	648	8	0.004	0.021	07:16 hr	1.036	0.095	0.713	0.143	0.044	0.080
24B91D	650	648	8	0.003	0.004	07:16 hr	0.610	0.045	0.619	0.067	0.009	0.035
234BC8	712	714	6	0.013	0.002	07:00 hr	0.812	0.024	1.128	0.048	0.004	0.025
234BC4	716	714	6	0.021	0.004	07:00 hr	1.249	0.032	1.508	0.063	0.008	0.039
234BB5	714	718	8	0.007	0.008	07:16 hr	1.011	0.053	0.942	0.079	0.013	0.051
234BA5	720	718	8	0.009	0.006	07:15 hr	0.960	0.042	1.008	0.063	0.008	0.042

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2344BA	744	742	8	0.003	0.007	07:02 hr	0.751	0.059	0.661	0.088	0.016	0.048
2344B2	742	746	8	0.003	0.018	07:16 hr	0.978	0.090	0.694	0.135	0.039	0.075
2344A6	746	748	8	0.003	0.022	07:30 hr	1.039	0.099	0.700	0.149	0.048	0.083
226C89	760	758	8	0.003	0.016	20:39 hr	0.939	0.085	0.687	0.127	0.034	0.070
226C86	758	762	8	0.003	0.016	20:44 hr	0.944	0.086	0.685	0.129	0.036	0.071
22692E	764	766	8	0.003	0.038	20:32 hr	1.189	0.133	0.687	0.200	0.087	0.110
226923	770	768	18	0.033	1.836	08:45 hr	7.792	0.390	2.608	0.260	0.148	0.640
226920	774	772	6	0.004	0.004	07:15 hr	0.669	0.044	0.682	0.088	0.016	0.036
22690B	786	788	8	0.003	0.010	08:00 hr	0.809	0.069	0.658	0.103	0.022	0.056
226908	792	790	8	0.003	0.123	20:43 hr	1.663	0.242	0.698	0.363	0.281	0.200
226905	796	794	8	0.018	0.004	20:14 hr	1.086	0.029	1.372	0.043	0.004	0.034
2268FF	798	796	8	0.004	0.003	20:02 hr	0.587	0.038	0.647	0.057	0.006	0.030
2268F6	800	792	8	0.003	0.034	20:30 hr	1.178	0.123	0.709	0.185	0.075	0.103
2268F3	802	788	24	0.003	5.787	33:16 hr	4.193	1.286	0.796	0.643	0.745	1.068
2268C6	842	844	8	0.004	0.008	07:00 hr	0.764	0.059	0.673	0.088	0.016	0.048
223F53	864	9000	8	0.003	0.048	08:00 hr	1.315	0.147	0.722	0.220	0.106	0.124
221F74	868	866	8	0.008	0.015	07:00 hr	1.267	0.067	1.047	0.100	0.021	0.068
221F71	866	870	8	0.003	0.016	07:16 hr	0.922	0.087	0.664	0.131	0.037	0.071
22114D	874	872	8	0.004	0.241	07:30 hr	2.267	0.318	0.834	0.477	0.461	0.284
221149	872	876	8	0.005	0.251	07:44 hr	2.393	0.315	0.884	0.472	0.452	0.290
221141	876	878	8	0.005	0.268	07:46 hr	2.435	0.327	0.884	0.491	0.485	0.300
221135	880	878	8	0.009	0.048	07:30 hr	1.835	0.115	1.145	0.173	0.065	0.123
221132	878	882	8	0.005	0.328	08:00 hr	2.555	0.370	0.883	0.554	0.593	0.334
22112A	882	884	8	0.005	0.338	08:00 hr	2.571	0.377	0.882	0.566	0.613	0.339
21FF3E	888	886	12	0.002	0.002	08:00 hr	0.367	0.029	0.463	0.029	0.002	0.020
21FF3C	890	886	8	0.004	0.012	20:00 hr	0.928	0.073	0.736	0.109	0.025	0.062
21FF39	886	892	12	0.002	0.014	20:16 hr	0.710	0.082	0.529	0.082	0.014	0.060
21FF2D	894	892	6	0.021	0.005	08:00 hr	1.270	0.033	1.493	0.067	0.009	0.041
21FF2A	892	896	12	0.002	0.019	20:32 hr	0.774	0.096	0.533	0.096	0.019	0.070
21FF22	896	898	12	0.002	0.021	08:30 hr	0.797	0.101	0.535	0.101	0.021	0.074
21FF1B	898	900	12	0.002	0.022	08:38 hr	0.805	0.102	0.537	0.102	0.022	0.075
21FF18	900	902	12	0.016	0.022	08:37 hr	1.680	0.062	1.446	0.062	0.008	0.075
21C239	904	906	12	0.011	0.017	07:15 hr	1.378	0.060	1.209	0.060	0.007	0.066
21C234	906	908	12	0.002	0.268	08:15 hr	1.718	0.346	0.603	0.346	0.258	0.266
21C228	910	904	12	0.010	0.012	07:00 hr	1.195	0.052	1.127	0.052	0.005	0.055
21C227	912	904	12	0.013	0.004	07:00 hr	0.936	0.030	1.172	0.030	0.002	0.032
21C226	914	916	8	0.013	0.008	07:00 hr	1.257	0.045	1.266	0.068	0.009	0.051
205560	978	976	6	0.021	0.009	07:00 hr	1.579	0.046	1.572	0.092	0.018	0.058
20555F	980	976	6	0.019	0.111	07:00 hr	3.154	0.161	1.627	0.322	0.224	0.207
205556	976	982	8	0.011	0.122	07:15 hr	2.639	0.173	1.327	0.259	0.147	0.200
20553C	984	982	8	0.003	0.021	07:02 hr	1.015	0.100	0.683	0.149	0.048	0.082
205533	982	986	8	0.004	0.148	07:31 hr	1.827	0.259	0.740	0.389	0.320	0.221
205529	986	988	8	0.003	0.160	07:46 hr	1.790	0.279	0.699	0.419	0.366	0.230
20551E	988	990	8	0.004	0.175	07:54 hr	1.944	0.280	0.758	0.420	0.369	0.240
205512	992	990	10	0.003	0.002	07:00 hr	0.488	0.033	0.576	0.040	0.003	0.025
20550E	990	994	10	0.002	0.179	08:00 hr	1.627	0.292	0.622	0.350	0.263	0.228
205505	994	996	10	0.003	0.183	32:00 hr	1.739	0.282	0.676	0.339	0.247	0.231
20074B	1008	1006	8	0.004	0.150	20:00 hr	1.918	0.253	0.787	0.379	0.305	0.222
200742	1006	1010	8	0.004	0.178	20:18 hr	2.015	0.276	0.791	0.414	0.360	0.243
200739	1010	1012	8	0.004	0.222	20:32 hr	2.135	0.313	0.791	0.469	0.448	0.272
200730	1012	1014	8	0.004	0.260	44:50 hr	2.223	0.343	0.791	0.515	0.526	0.296
20072D	1014	766	8	0.004	0.295	44:57 hr	2.290	0.370	0.790	0.555	0.595	0.315
1FF56A	1016	1018	8	0.005	0.007	20:35 hr	0.802	0.053	0.749	0.079	0.013	0.045
1FF567	1020	1016	8	0.005	0.006	20:27 hr	0.810	0.048	0.791	0.072	0.011	0.043
1FF564	1022	1020	8	0.004	0.005	20:16 hr	0.696	0.046	0.697	0.069	0.009	0.038
1FF553	1024	1022	8	0.003	0.003	20:15 hr	0.575	0.042	0.601	0.063	0.008	0.033
1FF54A	1026	1024	8	0.004	0.002	20:02 hr	0.531	0.034	0.619	0.051	0.005	0.027
1FF540	1028	1026	8	0.003	0.001	06:59 hr	0.329	0.017	0.548	0.025	0.001	0.012
1FF535	1028	1030	8	0.003	0.001	06:57 hr	0.301	0.017	0.503	0.025	0.001	0.012
1FF52E	1030	1032	8	0.007	0.001	06:57 hr	0.464	0.016	0.783	0.024	0.001	0.014
1FF521	1032	1034	8	0.003	0.001	08:01 hr	0.434	0.028	0.558	0.042	0.003	0.021
1FF518	1034	1036	8	0.003	0.004	08:01 hr	0.599	0.041	0.632	0.062	0.008	0.033
1FF50F	1038	1040	8	0.011	0.002	20:00 hr	0.689	0.021	1.021	0.032	0.002	0.021

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
1FF504	1042	1044	8	0.011	0.001	20:00 hr	0.624	0.018	1.008	0.027	0.001	0.018	
1FF501	1044	1036	8	0.011	0.002	20:13 hr	0.718	0.023	1.020	0.034	0.002	0.023	
1FF4F4	1036	1040	8	0.004	0.006	08:14 hr	0.739	0.054	0.679	0.081	0.014	0.045	
1FF4EC	1040	1046	8	0.004	0.009	20:30 hr	0.815	0.063	0.692	0.095	0.019	0.053	
1FF4E0	1046	1018	8	0.004	0.011	20:30 hr	0.897	0.067	0.739	0.101	0.021	0.058	
1FF4D4	1018	1048	8	0.013	0.019	20:38 hr	1.565	0.067	1.290	0.101	0.021	0.076	
1FF4B6	1052	1050	8	0.004	0.031	20:58 hr	1.167	0.118	0.719	0.177	0.068	0.100	
1FF4B0	1048	1050	8	0.013	0.019	20:44 hr	1.581	0.068	1.299	0.101	0.022	0.077	
1F51D4	1228	1230	12	0.005	0.564	08:45 hr	2.918	0.406	0.945	0.406	0.346	0.391	
1F51D1	1232	1228	12	0.004	0.564	08:45 hr	2.730	0.427	0.863	0.427	0.379	0.391	
1F5178	1236	1238	12	0.021	0.358	08:29 hr	4.279	0.222	1.911	0.222	0.108	0.309	
1F5170	1238	1240	12	0.002	0.358	08:30 hr	1.859	0.405	0.603	0.405	0.344	0.309	
1F1E89	1244	1242	8	0.003	0.001	06:01 hr	0.342	0.020	0.519	0.030	0.002	0.014	
1F1E80	1246	1248	8	0.005	0.000	06:00 hr	0.312	0.011	0.635	0.017	0.000	0.009	
1F1E76	1248	1250	8	0.004	0.002	08:00 hr	0.493	0.027	0.651	0.040	0.003	0.021	
1F1E6C	1250	1252	8	0.004	0.003	08:11 hr	0.602	0.036	0.683	0.054	0.006	0.030	
1F1E63	1252	1254	8	0.007	0.003	08:14 hr	0.769	0.035	0.886	0.052	0.005	0.033	
1F1E4C	1256	1258	8	0.004	0.000	06:01 hr	0.274	0.011	0.570	0.016	0.000	0.008	
1F1E43	1258	1260	8	0.004	0.000	06:15 hr	0.330	0.016	0.570	0.023	0.001	0.012	
1F1E37	1260	1262	8	0.006	0.001	07:00 hr	0.497	0.021	0.731	0.032	0.002	0.018	
1F1E2E	1262	1264	8	0.004	0.001	08:00 hr	0.489	0.026	0.653	0.039	0.003	0.021	
1F1E25	1242	1264	8	0.005	0.001	08:00 hr	0.504	0.025	0.693	0.037	0.003	0.020	
1F1E15	1264	1266	8	0.005	0.003	08:13 hr	0.669	0.036	0.754	0.054	0.006	0.032	
1EF346	1270	1268	12	0.002	0.196	08:00 hr	1.647	0.285	0.642	0.285	0.177	0.227	
1E8FEC	1286	1284	8	0.002	0.004	07:04 hr	0.534	0.050	0.509	0.076	0.012	0.036	
1E8FE2	1284	1288	8	0.003	0.008	07:15 hr	0.780	0.063	0.666	0.094	0.018	0.051	
1E86EB	1290	1292	6	0.078	0.002	07:00 hr	1.532	0.016	2.607	0.032	0.002	0.026	
1E86E2	1292	1294	6	0.006	0.005	07:16 hr	0.841	0.046	0.841	0.091	0.017	0.042	
1E0378	1380	622	12	0.002	0.018	07:00 hr	0.765	0.092	0.537	0.093	0.018	0.068	
1E0374	622	1382	12	0.002	0.250	08:01 hr	1.644	0.340	0.583	0.340	0.249	0.257	
1E0367	1386	1384	8	0.004	0.006	07:00 hr	0.770	0.052	0.722	0.078	0.012	0.044	
1E0364	1382	1384	12	0.002	0.267	32:02 hr	1.621	0.361	0.557	0.361	0.278	0.266	
1E035C	1384	1276	12	0.002	0.277	08:01 hr	1.727	0.353	0.600	0.353	0.267	0.271	
1B58CD	1396	1398	6	0.022	0.018	07:00 hr	1.949	0.063	1.653	0.126	0.034	0.081	
1B1C86	1402	1400	6	0.005	0.005	07:00 hr	0.812	0.050	0.776	0.100	0.021	0.044	
1B1C82	1400	1404	6	0.003	0.007	07:15 hr	0.728	0.065	0.609	0.129	0.036	0.050	
1B1C79	1406	1404	8	0.004	0.015	07:01 hr	1.027	0.079	0.780	0.118	0.029	0.069	
1B1C6A	1404	1408	8	0.003	0.024	07:29 hr	1.058	0.106	0.690	0.159	0.055	0.088	
1B1C64	1410	1412	6	0.011	0.001	07:00 hr	0.555	0.015	0.984	0.029	0.002	0.015	
1B1C5B	1412	1414	8	0.004	0.003	07:16 hr	0.590	0.039	0.638	0.059	0.007	0.031	
1B1C52	1418	1416	8	0.003	0.026	08:01 hr	1.086	0.109	0.697	0.163	0.058	0.091	
1B1C47	1416	1420	8	0.003	0.050	08:16 hr	1.313	0.149	0.714	0.224	0.110	0.126	
1B1C3E	1420	1414	8	0.003	0.057	08:30 hr	1.385	0.159	0.727	0.239	0.125	0.135	
1B1C32	1414	1422	8	0.003	0.061	08:29 hr	1.307	0.174	0.655	0.261	0.149	0.140	
1ADB05	1426	1424	21	0.010	1.750	09:00 hr	4.948	0.487	1.476	0.279	0.169	0.596	
1ADB02	1428	1424	18	0.005	1.960	09:00 hr	3.945	0.673	0.994	0.449	0.415	0.662	
1ADAFF	1424	1430	27	0.004	3.709	09:00 hr	4.335	0.826	0.984	0.367	0.288	0.817	
1ADAF3	1432	1430	8	0.000	0.015	20:00 hr	0.114	0.369	0.040	0.554	0.592	0.068	
1ADAF0	1430	1434	27	0.001	3.721	09:00 hr	2.751	1.171	0.531	0.521	0.535	0.818	
1ADAE4	1436	1434	8	0.000	0.005	20:00 hr	0.084	0.194	0.040	0.291	0.184	0.038	
1ADAE1	1434	1438	27	0.003	3.726	09:00 hr	3.677	0.937	0.784	0.417	0.363	0.819	
1ADAA8	1442	1440	12	0.020	0.051	20:00 hr	2.364	0.087	1.713	0.087	0.016	0.114	
1ADAA5	1440	1444	27	0.036	4.490	08:59 hr	9.911	0.523	2.876	0.232	0.118	0.902	
1ADAA2	1446	1440	27	0.002	4.445	09:01 hr	3.344	1.156	0.649	0.514	0.523	0.897	
1ADA95	1448	1446	27	0.002	4.442	09:01 hr	3.546	1.103	0.701	0.490	0.484	0.897	
1ADA88	1450	1448	12	0.000	0.025	20:00 hr	0.130	0.403	0.042	0.403	0.341	0.080	
1ADA85	1452	1448	27	0.002	4.422	09:01 hr	3.345	1.150	0.650	0.511	0.519	0.895	
1ADA79	1454	1452	12	0.000	0.051	20:00 hr	0.155	0.614	0.042	0.614	0.696	0.114	
1ADA76	1456	1452	27	0.002	4.377	09:01 hr	3.378	1.133	0.661	0.503	0.506	0.890	
1ADA6A	1458	1456	12	0.000	0.045	20:00 hr	0.151	0.566	0.042	0.566	0.613	0.107	
1ADA67	1460	1456	27	0.002	4.337	09:01 hr	3.107	1.201	0.593	0.534	0.558	0.886	
1ADA5B	1462	1460	12	0.000	0.030	20:00 hr	0.137	0.447	0.042	0.447	0.412	0.088	
1ADA58	1464	1460	27	0.002	4.311	09:01 hr	3.239	1.157	0.628	0.514	0.524	0.883	

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
1ADA4A	1466	1464	12	0.001	0.014	20:00 hr	0.561	0.096	0.388	0.096	0.019	0.059	
1ADA46	1438	1464	27	0.002	4.299	09:00 hr	3.540	1.077	0.708	0.479	0.464	0.882	
1ADA2E	1468	1438	12	0.160	0.571	08:44 hr	10.085	0.169	5.198	0.169	0.062	0.394	
1ADA07	1470	1468	12	0.002	0.001	20:00 hr	0.367	0.025	0.497	0.025	0.001	0.018	
1ADA03	1472	1468	12	0.002	0.569	08:46 hr	1.908	0.569	0.533	0.569	0.619	0.393	
1AD9FB	1474	1472	12	0.005	0.568	32:45 hr	2.936	0.406	0.950	0.406	0.346	0.393	
1AD9F3	1476	1474	12	0.006	0.566	08:45 hr	3.146	0.385	1.046	0.385	0.314	0.392	
1AD9EB	1230	1476	12	0.004	0.565	08:45 hr	2.787	0.420	0.887	0.420	0.369	0.391	
1AD9E3	1478	1234	12	0.002	0.562	08:45 hr	2.083	0.525	0.601	0.525	0.543	0.391	
1AD9D7	1480	1478	8	0.003	0.006	08:00 hr	0.708	0.055	0.643	0.083	0.014	0.044	
1AD9D4	1482	1478	12	0.002	0.552	08:45 hr	2.077	0.518	0.602	0.518	0.531	0.387	
1AD9CC	1484	1482	12	0.004	0.536	08:43 hr	2.515	0.437	0.786	0.437	0.395	0.381	
1AD9BD	1486	1484	8	0.004	0.002	07:00 hr	0.538	0.033	0.637	0.049	0.005	0.026	
1AD9B9	1240	1484	12	0.001	0.519	08:43 hr	1.721	0.574	0.479	0.574	0.627	0.375	
1AD9A9	1488	1240	12	0.003	0.145	08:39 hr	1.578	0.237	0.680	0.237	0.123	0.194	
1AD99B	1490	1488	8	0.004	0.018	07:00 hr	0.990	0.088	0.710	0.132	0.037	0.074	
1AD993	1422	1492	8	0.003	0.061	08:30 hr	1.393	0.166	0.715	0.249	0.136	0.140	
1AD98F	1492	1488	12	0.003	0.127	08:36 hr	1.505	0.223	0.670	0.223	0.109	0.182	
1AD988	1494	1492	12	0.005	0.056	08:27 hr	1.505	0.127	0.900	0.127	0.034	0.120	
1AD97B	1496	1494	8	0.003	0.018	07:00 hr	0.977	0.091	0.689	0.137	0.040	0.075	
1AD978	1498	1494	12	0.003	0.042	20:31 hr	1.081	0.131	0.635	0.131	0.037	0.104	
1AD966	1500	1498	8	0.003	0.010	20:00 hr	0.822	0.069	0.668	0.104	0.022	0.056	
1AD965	1502	1498	8	0.003	0.006	20:00 hr	0.693	0.053	0.645	0.079	0.013	0.042	
1AD960	1504	1498	12	0.004	0.026	20:16 hr	1.086	0.094	0.758	0.094	0.018	0.081	
1A7846	1510	1508	6	0.002	0.028	07:42 hr	0.996	0.137	0.561	0.275	0.165	0.102	
1A64E8	1512	1514	6	0.027	0.003	07:00 hr	1.191	0.025	1.629	0.049	0.005	0.032	
1A64DF	1514	1516	6	0.019	0.006	07:15 hr	1.359	0.039	1.478	0.078	0.012	0.047	
1A64D6	1516	1518	6	0.020	0.009	07:22 hr	1.531	0.046	1.523	0.092	0.018	0.057	
1A64CD	1518	1520	6	0.166	0.010	07:29 hr	3.278	0.029	4.149	0.058	0.007	0.059	
1A641A	1522	1524	6	0.005	0.011	07:01 hr	1.020	0.069	0.827	0.137	0.041	0.062	
1A6411	1524	1526	6	0.005	0.019	07:16 hr	1.172	0.093	0.814	0.185	0.075	0.083	
1A6408	1526	1528	6	0.005	0.030	07:31 hr	1.373	0.114	0.853	0.229	0.115	0.105	
1A63FF	1528	1530	8	0.005	0.036	07:43 hr	1.378	0.116	0.856	0.174	0.066	0.107	
1A63F6	1530	1532	8	0.007	0.041	07:58 hr	1.627	0.113	1.024	0.170	0.063	0.115	
1A63ED	1532	1534	8	0.024	0.043	07:56 hr	2.511	0.086	1.821	0.129	0.036	0.117	
1A63E4	1534	1426	21	0.003	1.750	08:59 hr	3.203	0.669	0.808	0.382	0.310	0.596	
1A247A	1536	1538	6	0.010	0.002	08:00 hr	0.697	0.023	0.987	0.046	0.004	0.023	
1A2471	1538	1540	6	0.010	0.003	08:09 hr	0.829	0.030	1.026	0.060	0.007	0.030	
1A2468	1540	1542	8	0.007	0.004	08:10 hr	0.771	0.036	0.879	0.053	0.006	0.033	
1A245F	1542	1544	8	0.010	0.006	08:14 hr	1.018	0.043	1.057	0.064	0.008	0.044	
1A2456	1544	1546	8	0.002	0.011	08:31 hr	0.739	0.077	0.567	0.116	0.028	0.058	
1A244D	1550	1548	6	0.010	0.004	08:00 hr	0.941	0.037	1.054	0.073	0.011	0.038	
1A2444	1548	1552	6	0.010	0.005	08:12 hr	1.000	0.040	1.068	0.080	0.013	0.042	
1A243B	1552	1554	6	0.010	0.006	08:14 hr	1.054	0.044	1.079	0.087	0.016	0.045	
1A2431	1554	1556	8	0.017	0.006	08:18 hr	1.256	0.038	1.385	0.057	0.006	0.045	
1A2428	1556	1558	8	0.004	0.008	08:14 hr	0.765	0.059	0.671	0.089	0.016	0.049	
1A241F	1558	1546	8	0.001	0.010	08:20 hr	0.600	0.082	0.445	0.124	0.033	0.055	
1A2416	1546	1560	8	0.006	0.027	08:35 hr	1.320	0.098	0.893	0.148	0.047	0.093	
1A240D	1560	1562	8	0.004	0.031	08:31 hr	1.177	0.117	0.728	0.176	0.067	0.100	
1A2404	1562	1564	8	0.009	0.033	08:35 hr	1.681	0.094	1.163	0.141	0.043	0.102	
1990AE	1568	1566	33	0.001	5.586	09:15 hr	3.119	1.303	0.566	0.474	0.456	0.952	
183741	1570	1572	10	0.002	0.187	09:00 hr	1.668	0.295	0.634	0.354	0.269	0.233	
18373E	1574	1570	10	0.002	0.183	09:00 hr	1.667	0.291	0.638	0.350	0.262	0.231	
1836EF	1578	1576	10	0.018	0.002	06:00 hr	0.805	0.018	1.285	0.022	0.001	0.021	
1836DC	1576	1580	10	0.002	0.004	08:11 hr	0.511	0.042	0.533	0.051	0.005	0.031	
1836CB	1580	1582	10	0.002	0.006	08:15 hr	0.590	0.053	0.550	0.063	0.008	0.039	
1836BD	1582	1584	10	0.003	0.007	08:16 hr	0.655	0.060	0.575	0.071	0.010	0.045	
1836B0	1584	1586	10	0.002	0.008	08:22 hr	0.662	0.063	0.564	0.076	0.012	0.047	
1836A4	1586	1588	10	0.002	0.010	08:31 hr	0.701	0.069	0.572	0.083	0.014	0.052	
18368C	1588	1590	10	0.002	0.013	08:31 hr	0.772	0.080	0.583	0.096	0.019	0.061	
18366E	1590	1592	10	0.002	0.019	08:41 hr	0.858	0.095	0.594	0.114	0.028	0.073	
183658	1592	1594	10	0.002	0.023	32:57 hr	0.910	0.104	0.601	0.125	0.033	0.080	
183647	1594	1596	10	0.002	0.027	08:41 hr	0.952	0.112	0.606	0.134	0.038	0.087	

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
183631	1596	1598	10	0.002	0.031	32:58 hr	0.986	0.119	0.606	0.143	0.044	0.093	
18361E	1598	1600	10	0.002	0.036	08:53 hr	1.043	0.129	0.615	0.155	0.052	0.101	
18360D	1600	1602	10	0.002	0.044	08:58 hr	1.100	0.142	0.619	0.170	0.063	0.111	
1835E2	1602	1604	10	0.002	0.049	08:55 hr	1.137	0.149	0.622	0.179	0.070	0.117	
1835D9	1604	1606	10	0.002	0.053	08:57 hr	1.162	0.155	0.623	0.186	0.076	0.122	
1835D0	1610	1608	10	0.002	0.014	08:03 hr	0.782	0.082	0.584	0.098	0.020	0.062	
1835BE	1608	1606	10	0.002	0.023	08:16 hr	0.906	0.103	0.600	0.124	0.033	0.080	
1835B5	1606	1612	10	0.002	0.080	08:59 hr	1.312	0.190	0.632	0.228	0.114	0.150	
1835A7	1612	1614	10	0.002	0.082	08:56 hr	1.322	0.193	0.632	0.232	0.118	0.153	
18359E	1614	1616	10	0.002	0.086	08:58 hr	1.342	0.198	0.633	0.237	0.124	0.157	
183595	1616	1618	10	0.002	0.092	08:58 hr	1.366	0.205	0.632	0.246	0.132	0.162	
18358C	1618	1620	10	0.002	0.102	08:59 hr	1.408	0.215	0.635	0.258	0.146	0.170	
183583	1620	1622	10	0.002	0.113	08:59 hr	1.452	0.227	0.635	0.273	0.162	0.180	
183579	1624	1574	10	0.002	0.177	08:59 hr	1.644	0.287	0.634	0.345	0.256	0.227	
183570	1622	1624	10	0.002	0.170	08:59 hr	1.632	0.280	0.638	0.336	0.243	0.222	
162FAC	1642	1644	8	0.005	0.000	06:00 hr	0.252	0.008	0.599	0.012	0.000	0.006	
162FA3	1644	1646	8	0.035	0.000	07:00 hr	0.658	0.008	1.576	0.012	0.000	0.010	
162BCF	1648	1650	8	0.004	0.103	20:59 hr	1.740	0.206	0.796	0.308	0.206	0.183	
162BCC	1652	1648	8	0.003	0.102	20:59 hr	1.614	0.215	0.721	0.322	0.225	0.181	
162BC3	1654	1652	8	0.003	0.099	20:47 hr	1.605	0.212	0.721	0.319	0.220	0.179	
162BC0	1656	1650	8	0.003	0.027	20:30 hr	1.110	0.111	0.707	0.166	0.060	0.093	
162B7E	1658	1656	8	0.004	0.023	20:27 hr	1.072	0.101	0.717	0.151	0.049	0.085	
162B46	1660	1658	8	0.003	0.013	20:17 hr	0.870	0.077	0.668	0.116	0.028	0.063	
162B2C	1662	1660	8	0.004	0.001	20:01 hr	0.437	0.024	0.606	0.036	0.002	0.019	
162B0D	1664	1654	8	0.007	0.001	20:01 hr	0.583	0.023	0.829	0.034	0.002	0.021	
162AB7	1666	1668	8	0.005	0.003	20:14 hr	0.622	0.035	0.711	0.053	0.005	0.030	
162AB4	1670	1666	8	0.014	0.001	20:00 hr	0.684	0.017	1.128	0.026	0.001	0.018	
1619E9	1674	1672	8	0.003	0.020	08:27 hr	0.919	0.103	0.609	0.154	0.051	0.080	
1619B2	1678	1676	8	0.004	0.001	20:02 hr	0.453	0.024	0.623	0.037	0.003	0.019	
1619AA	1676	1680	8	0.004	0.002	20:15 hr	0.553	0.034	0.648	0.050	0.005	0.027	
16198B	1680	1682	8	0.005	0.003	20:15 hr	0.660	0.037	0.735	0.056	0.006	0.032	
161968	1682	1684	8	0.003	0.009	08:15 hr	0.770	0.067	0.633	0.101	0.021	0.054	
161965	1684	1686	8	0.001	0.010	08:25 hr	0.564	0.088	0.405	0.132	0.037	0.056	
161945	1688	1682	8	0.007	0.005	08:10 hr	0.815	0.040	0.877	0.060	0.007	0.037	
16192F	1690	1688	8	0.004	0.001	07:00 hr	0.496	0.025	0.669	0.038	0.003	0.021	
161910	1692	1688	8	0.003	0.003	08:02 hr	0.519	0.036	0.585	0.055	0.006	0.028	
1618F5	1694	1692	8	0.002	0.002	07:01 hr	0.436	0.033	0.513	0.050	0.005	0.024	
1618D5	1696	1694	8	0.005	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000	
1618B7	1696	1698	8	0.005	0.002	07:00 hr	0.604	0.032	0.723	0.048	0.005	0.027	
16189F	1698	1700	8	0.006	0.004	08:01 hr	0.716	0.038	0.791	0.057	0.006	0.034	
16188E	1700	1702	8	0.000	0.005	08:10 hr	0.258	0.095	0.178	0.143	0.044	0.040	
161851	1702	1704	8	0.005	0.007	08:13 hr	0.865	0.052	0.813	0.078	0.012	0.047	
16183B	1704	1674	8	0.005	0.008	08:15 hr	0.851	0.058	0.759	0.086	0.015	0.050	
16182B	1706	1674	8	0.005	0.012	20:38 hr	0.976	0.069	0.796	0.103	0.022	0.061	
1617FD	1696	1706	8	0.003	0.011	08:25 hr	0.841	0.071	0.672	0.107	0.024	0.058	
14C40A	1728	1726	6	0.017	0.007	07:00 hr	1.367	0.043	1.405	0.087	0.015	0.051	
14C407	1726	1730	6	0.019	0.009	07:15 hr	1.512	0.047	1.486	0.095	0.019	0.058	
14C404	1730	844	6	0.004	0.015	07:30 hr	0.968	0.088	0.689	0.177	0.068	0.073	
14C3E9	844	1732	8	0.004	0.031	07:31 hr	1.162	0.116	0.721	0.174	0.066	0.098	
14C074	1734	1736	6	0.005	0.002	07:00 hr	0.608	0.032	0.731	0.064	0.008	0.027	
14C071	1738	1736	6	0.005	0.006	07:00 hr	0.832	0.052	0.781	0.103	0.022	0.046	
14C066	1740	1736	6	0.005	0.001	07:00 hr	0.437	0.020	0.669	0.040	0.003	0.016	
14C05F	1736	1742	6	0.005	0.009	07:15 hr	0.949	0.063	0.803	0.126	0.034	0.057	
14C058	1744	1742	6	0.005	0.006	07:00 hr	0.848	0.051	0.802	0.102	0.022	0.046	
14C055	1742	1746	6	0.005	0.015	07:29 hr	1.115	0.083	0.821	0.166	0.060	0.075	
14C04A	1746	1510	6	0.005	0.019	07:30 hr	1.192	0.090	0.839	0.181	0.071	0.083	
14B2F2	1748	1236	12	0.002	0.357	08:30 hr	1.849	0.406	0.599	0.406	0.346	0.309	
14B2F1	1750	1748	12	0.002	0.310	08:17 hr	1.747	0.381	0.584	0.381	0.308	0.287	
14A42A	1274	1752	12	0.002	0.278	08:15 hr	1.675	0.363	0.574	0.363	0.281	0.272	
14A429	1408	1752	8	0.003	0.025	07:30 hr	1.053	0.107	0.681	0.161	0.056	0.088	
14A425	1752	1750	12	0.002	0.304	08:17 hr	1.740	0.377	0.585	0.377	0.302	0.284	
14ACC6	1758	1756	15	0.005	0.024	07:15 hr	1.150	0.078	0.883	0.062	0.008	0.073	
141803	1760	1762	8	0.003	0.062	08:42 hr	1.319	0.174	0.661	0.260	0.149	0.140	

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
13DF37	1764	1758	6	0.010	0.020	07:01 hr	1.551	0.078	1.173	0.157	0.053	0.085	
13D7A3	1766	1768	8	0.004	0.002	08:01 hr	0.558	0.031	0.677	0.047	0.004	0.026	
13D79A	1770	1772	8	0.003	0.002	08:01 hr	0.500	0.032	0.596	0.049	0.005	0.025	
13D78F	1776	1774	8	0.005	0.002	08:00 hr	0.567	0.030	0.699	0.046	0.004	0.025	
13D77F	1778	1780	8	0.003	0.007	07:01 hr	0.740	0.058	0.658	0.087	0.015	0.047	
13D777	1780	1782	8	0.005	0.008	07:15 hr	0.852	0.056	0.773	0.084	0.014	0.049	
13D76B	1782	1784	8	0.003	0.008	08:02 hr	0.758	0.062	0.651	0.093	0.018	0.050	
13D763	1784	1786	8	0.003	0.008	08:15 hr	0.773	0.063	0.658	0.095	0.019	0.051	
13D759	1788	1768	8	0.004	0.001	20:01 hr	0.360	0.018	0.581	0.027	0.001	0.014	
13D74B	1768	1790	8	0.003	0.004	20:15 hr	0.575	0.043	0.598	0.064	0.008	0.033	
13D743	1790	1772	8	0.004	0.004	20:29 hr	0.648	0.046	0.649	0.069	0.009	0.037	
13D736	1772	1774	8	0.003	0.008	20:28 hr	0.754	0.059	0.661	0.089	0.016	0.048	
13D72E	1774	1792	8	0.004	0.011	20:30 hr	0.909	0.066	0.756	0.099	0.020	0.057	
13D726	1792	1794	8	0.004	0.011	20:30 hr	0.922	0.067	0.760	0.101	0.021	0.058	
13D717	1786	1796	8	0.004	0.009	08:10 hr	0.832	0.061	0.720	0.092	0.017	0.052	
13D70F	1796	1798	8	0.004	0.009	08:26 hr	0.818	0.065	0.685	0.098	0.020	0.054	
13D700	1800	1802	8	0.004	0.002	07:02 hr	0.469	0.028	0.603	0.042	0.003	0.022	
13D6F7	1802	1798	8	0.004	0.003	20:14 hr	0.600	0.034	0.696	0.051	0.005	0.029	
13D6EA	1798	1804	8	0.004	0.012	08:27 hr	0.891	0.074	0.698	0.111	0.026	0.062	
13D6E0	1804	1806	8	0.003	0.013	08:14 hr	0.865	0.078	0.660	0.117	0.029	0.063	
13D6D8	1806	1808	8	0.004	0.014	08:15 hr	0.908	0.078	0.691	0.117	0.029	0.065	
13D6D0	1808	1810	8	0.004	0.015	08:27 hr	0.963	0.079	0.730	0.118	0.030	0.067	
13D6C4	1794	1812	8	0.004	0.012	20:43 hr	0.878	0.073	0.692	0.110	0.025	0.061	
13D6BC	1812	1814	8	0.006	0.013	20:41 hr	1.056	0.068	0.867	0.101	0.021	0.063	
13D6B0	1814	1810	8	0.004	0.013	20:45 hr	0.929	0.076	0.718	0.114	0.028	0.064	
13D6A3	1810	1816	8	0.003	0.029	08:30 hr	1.129	0.113	0.711	0.170	0.063	0.095	
13D69A	1818	1820	8	0.004	0.024	07:02 hr	1.082	0.104	0.713	0.156	0.052	0.087	
13D692	1820	1822	8	0.003	0.026	08:01 hr	1.078	0.109	0.692	0.163	0.058	0.090	
13D683	1826	1824	8	0.004	0.002	20:00 hr	0.532	0.032	0.640	0.048	0.004	0.025	
13D67B	1824	1828	8	0.004	0.003	20:14 hr	0.589	0.034	0.683	0.052	0.005	0.028	
13D673	1828	1830	8	0.003	0.003	20:19 hr	0.561	0.039	0.611	0.058	0.007	0.030	
13D669	1830	1832	8	0.004	0.004	20:20 hr	0.635	0.043	0.656	0.065	0.008	0.035	
13D661	1832	1834	8	0.003	0.006	20:29 hr	0.678	0.052	0.637	0.078	0.012	0.041	
13D651	1834	1836	8	0.004	0.128	20:45 hr	1.753	0.240	0.738	0.360	0.277	0.205	
13D64E	1838	1834	8	0.004	0.121	20:42 hr	1.828	0.224	0.799	0.335	0.243	0.199	
13D646	1840	1838	8	0.004	0.120	20:30 hr	1.849	0.220	0.815	0.330	0.236	0.198	
13D624	1842	1844	8	0.004	0.062	20:04 hr	1.429	0.164	0.738	0.247	0.133	0.141	
13D61C	1844	1840	8	0.003	0.097	20:17 hr	1.606	0.209	0.729	0.313	0.212	0.177	
13D60A	1822	1846	8	0.003	0.027	08:02 hr	1.099	0.109	0.704	0.164	0.058	0.092	
13D5F6	1846	1848	8	0.003	0.027	08:10 hr	1.112	0.111	0.708	0.166	0.060	0.093	
13D5EE	1848	1816	8	0.003	0.028	08:15 hr	1.125	0.112	0.711	0.169	0.062	0.094	
13D5E6	1816	1836	8	0.003	0.058	08:42 hr	1.382	0.161	0.722	0.241	0.128	0.136	
12F7C3	1966	1968	6	0.009	0.022	07:45 hr	1.526	0.085	1.105	0.171	0.064	0.090	
12F7B9	1970	1966	6	0.009	0.003	07:00 hr	0.834	0.034	0.977	0.067	0.009	0.033	
12F7B3	1972	1966	6	0.010	0.017	07:30 hr	1.476	0.072	1.164	0.145	0.045	0.078	
12F7AC	1974	1972	6	0.008	0.008	07:16 hr	1.083	0.055	0.981	0.111	0.026	0.055	
12F7A9	1976	1972	6	0.038	0.006	07:00 hr	1.688	0.032	2.028	0.064	0.008	0.046	
12F798	1978	1974	6	0.029	0.005	07:00 hr	1.442	0.031	1.747	0.063	0.008	0.042	
12F778	1980	1982	6	0.010	0.020	07:31 hr	1.545	0.080	1.159	0.160	0.055	0.086	
12F76E	1984	1980	6	0.021	0.003	07:00 hr	1.148	0.028	1.461	0.057	0.006	0.034	
12F768	1986	1980	6	0.011	0.012	07:30 hr	1.369	0.062	1.173	0.123	0.032	0.067	
12F765	1988	1986	6	0.010	0.008	07:16 hr	1.128	0.051	1.072	0.101	0.021	0.052	
12F75E	1990	1992	4	0.043	0.002	07:00 hr	1.378	0.022	2.012	0.065	0.008	0.031	
12F758	1992	1986	6	0.017	0.002	07:14 hr	0.963	0.026	1.292	0.051	0.005	0.029	
12F74E	1994	1988	6	0.018	0.004	07:00 hr	1.188	0.033	1.403	0.066	0.009	0.039	
12F6A7	1998	1996	8	0.005	0.413	07:30 hr	2.694	0.429	0.884	0.643	0.745	0.377	
12F691	2000	2002	8	0.007	0.451	07:57 hr	3.081	0.412	1.024	0.617	0.702	0.394	
12BF18	2006	2004	6	0.010	0.024	07:00 hr	1.615	0.086	1.164	0.172	0.065	0.093	
12BF11	2004	2008	6	0.010	0.038	07:16 hr	1.865	0.109	1.190	0.217	0.104	0.119	
12BFOE	2008	2010	8	0.004	0.074	07:32 hr	1.578	0.174	0.791	0.261	0.149	0.154	
12BFOB	2010	2012	8	0.004	0.095	07:46 hr	1.696	0.198	0.791	0.297	0.193	0.176	
12BF08	2012	2014	8	0.004	0.107	07:57 hr	1.766	0.209	0.801	0.313	0.213	0.186	
12BEB8	2018	2016	8	0.020	0.016	07:00 hr	1.757	0.056	1.589	0.084	0.014	0.071	

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
12BEAC	2016	2020	8	0.030	0.023	07:15 hr	2.261	0.060	1.969	0.090	0.017	0.085	
12BEA2	2020	2022	12	0.002	0.044	07:31 hr	0.987	0.143	0.555	0.143	0.044	0.106	
12BE9F	2022	2024	12	0.002	0.068	07:39 hr	1.128	0.176	0.569	0.176	0.067	0.132	
12BE9C	2024	2026	12	0.002	0.084	07:50 hr	1.211	0.194	0.580	0.194	0.082	0.147	
12BE99	2026	2028	12	0.002	0.088	07:58 hr	1.204	0.201	0.565	0.201	0.089	0.151	
12BE96	2028	770	12	0.008	0.088	07:58 hr	2.051	0.139	1.167	0.139	0.042	0.151	
1275C0	2046	9214	6	0.331	0.014	07:00 hr	4.688	0.029	5.880	0.059	0.007	0.072	
125AA9	2058	2060	12	0.002	0.047	07:45 hr	1.030	0.144	0.576	0.144	0.045	0.109	
125A7F	2072	2070	8	0.003	0.039	07:17 hr	1.179	0.135	0.676	0.203	0.090	0.111	
125A7C	2074	2072	8	0.003	0.036	07:02 hr	1.156	0.131	0.674	0.196	0.084	0.107	
125A76	2070	2058	12	0.004	0.045	07:31 hr	1.276	0.121	0.780	0.121	0.031	0.107	
11DD6E	2082	2080	8	0.010	0.004	07:01 hr	0.900	0.035	1.026	0.053	0.005	0.036	
11DD62	2086	2084	8	0.010	0.003	07:01 hr	0.829	0.030	1.027	0.045	0.004	0.030	
11DD5B	2084	2088	8	0.004	0.004	07:15 hr	0.662	0.043	0.683	0.065	0.008	0.036	
11DD4E	2090	2088	8	0.024	0.001	20:00 hr	0.663	0.011	1.367	0.016	0.000	0.013	
11DD45	2088	2080	8	0.004	0.005	08:01 hr	0.720	0.049	0.700	0.073	0.011	0.041	
11DD34	2080	2092	8	0.003	0.013	07:30 hr	0.897	0.079	0.682	0.118	0.030	0.065	
11DD2A	2092	2094	8	0.004	0.016	07:44 hr	0.998	0.081	0.745	0.122	0.032	0.070	
11DD21	2094	2096	8	0.004	0.017	07:42 hr	1.030	0.085	0.750	0.128	0.035	0.074	
11DD18	2096	2098	8	0.004	0.020	07:58 hr	1.069	0.091	0.754	0.136	0.040	0.079	
11DD0E	2098	2100	8	0.004	0.021	07:55 hr	1.091	0.094	0.757	0.141	0.043	0.082	
11DD05	2100	2102	8	0.004	0.023	07:46 hr	1.118	0.098	0.759	0.147	0.047	0.085	
11DCFC	2102	2104	8	0.004	0.027	07:56 hr	1.173	0.106	0.765	0.158	0.054	0.092	
11DCF3	2106	2104	8	0.008	0.001	07:00 hr	0.543	0.018	0.873	0.027	0.001	0.017	
11DCE9	2104	2108	8	0.004	0.031	07:58 hr	1.218	0.112	0.770	0.168	0.062	0.098	
11DCDF	2108	2110	8	0.004	0.034	07:58 hr	1.258	0.119	0.772	0.178	0.069	0.104	
11DCD8	2110	2112	8	0.004	0.036	07:59 hr	1.278	0.122	0.774	0.183	0.073	0.107	
11DCC9	2116	2114	8	0.010	0.002	07:00 hr	0.777	0.027	1.014	0.041	0.003	0.027	
11DCC6	2112	2114	8	0.004	0.037	08:00 hr	1.290	0.124	0.776	0.185	0.075	0.109	
11DCB0	2114	2118	8	0.010	0.042	07:59 hr	1.842	0.104	1.209	0.157	0.053	0.115	
F11F1	2220	2218	8	0.003	0.136	07:59 hr	1.765	0.249	0.730	0.373	0.297	0.211	
F11E0	1732	2220	8	0.003	0.042	07:45 hr	1.270	0.137	0.724	0.205	0.092	0.116	
F11D6	2218	1294	8	0.002	0.146	08:00 hr	1.474	0.301	0.556	0.452	0.419	0.219	
EE1E9	2222	2224	12	0.000	0.271	08:15 hr	0.912	0.567	0.255	0.567	0.615	0.268	
EE1E5	2224	2226	12	0.003	0.482	08:45 hr	2.327	0.427	0.735	0.427	0.380	0.360	
EE1DB	2226	2228	12	0.002	0.491	08:45 hr	1.995	0.488	0.593	0.488	0.479	0.364	
EE1D2	2228	1288	12	0.002	0.502	08:45 hr	2.031	0.489	0.603	0.489	0.482	0.368	
EE1C9	1288	2230	12	0.002	0.522	08:45 hr	2.028	0.505	0.594	0.505	0.509	0.376	
EE1C0	2230	1294	12	0.002	0.534	08:50 hr	2.052	0.510	0.599	0.510	0.517	0.380	
EE1B7	1294	2232	12	0.002	0.692	32:59 hr	2.184	0.598	0.600	0.598	0.668	0.435	
EE1A8	2232	2234	12	0.002	0.720	09:00 hr	2.199	0.615	0.598	0.615	0.698	0.444	
EE19F	2234	2236	12	0.002	0.749	09:00 hr	2.222	0.631	0.600	0.631	0.724	0.454	
EE196	2236	2238	15	0.004	0.778	08:59 hr	2.768	0.481	0.823	0.385	0.314	0.433	
EE17E	2242	2238	15	0.002	0.039	07:05 hr	0.915	0.128	0.546	0.103	0.022	0.094	
DD582	2250	2248	24	0.003	5.778	33:01 hr	4.190	1.285	0.795	0.643	0.744	1.067	
DD567	2248	2252	24	0.003	5.776	33:01 hr	4.189	1.285	0.795	0.643	0.744	1.067	
DD55D	2252	2254	24	0.003	5.774	33:02 hr	4.188	1.285	0.795	0.643	0.744	1.067	
DD552	2254	2256	24	0.003	5.771	33:01 hr	4.188	1.284	0.795	0.642	0.744	1.066	
DD548	2256	2258	24	0.003	5.768	33:02 hr	4.188	1.284	0.795	0.642	0.743	1.066	
DD53C	2258	2260	24	0.003	5.765	33:02 hr	4.177	1.286	0.793	0.643	0.745	1.066	
DD52D	2262	2264	24	0.003	5.763	33:15 hr	4.247	1.268	0.809	0.634	0.729	1.066	
DD503	788	2266	24	0.003	5.808	33:15 hr	4.192	1.291	0.795	0.645	0.749	1.070	
DD4CB	2280	2282	24	0.008	6.162	33:15 hr	6.371	0.963	1.347	0.481	0.469	1.104	
DD4B0	2286	2284	8	0.000	0.006	20:00 hr	0.088	0.214	0.040	0.321	0.223	0.041	
DD4AD	2288	2284	8	0.000	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000	
DD4A9	2284	2290	8	0.000	0.006	20:15 hr	0.088	0.214	0.040	0.321	0.223	0.041	
DD482	2292	2294	24	0.027	7.332	33:45 hr	10.395	0.758	2.463	0.379	0.305	1.209	
CD4E6	2304	2306	12	0.000	0.128	08:00 hr	0.745	0.371	0.252	0.371	0.293	0.182	
CD4E2	2308	1504	12	0.002	0.020	20:00 hr	0.726	0.102	0.486	0.102	0.022	0.071	
CD4D7	2312	2310	8	0.005	0.388	09:00 hr	2.611	0.417	0.865	0.626	0.716	0.364	
CD4CF	2320	2318	8	0.004	0.316	09:00 hr	2.219	0.403	0.744	0.604	0.678	0.327	
CD4AD	2324	2322	12	0.010	0.050	07:44 hr	1.865	0.101	1.255	0.101	0.021	0.113	
CD4A3	2328	2326	12	0.001	0.147	07:59 hr	1.188	0.292	0.457	0.292	0.186	0.196	

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
C3966	2340	2342	24	0.006	7.606	33:45 hr	5.861	1.220	1.131	0.610	0.689	1.232
C1C7C	2346	2344	15	0.002	1.016	33:00 hr	2.347	0.670	0.600	0.536	0.562	0.497
C19DC	2350	2348	18	0.001	1.374	09:29 hr	2.132	0.826	0.493	0.551	0.587	0.551
C19D9	2354	2352	30	0.002	0.618	07:30 hr	1.924	0.394	0.650	0.158	0.054	0.317
C07DB	2356	2358	24	0.006	7.117	33:30 hr	6.021	1.129	1.193	0.565	0.611	1.190
C07D7	2362	2360	24	0.004	6.403	33:30 hr	4.824	1.244	0.924	0.622	0.709	1.126
C07D0	2368	2366	24	0.044	6.539	33:30 hr	12.026	0.626	3.149	0.313	0.213	1.138
BEDA4	2372	2370	8	0.008	0.006	07:29 hr	0.974	0.044	0.994	0.066	0.009	0.044
BED61	2384	774	6	0.005	0.002	07:00 hr	0.633	0.033	0.752	0.065	0.008	0.028
BED5E	2388	2386	8	0.005	0.002	07:01 hr	0.522	0.026	0.693	0.039	0.003	0.022
BED5B	2392	2390	8	0.042	0.003	08:04 hr	1.425	0.023	2.032	0.034	0.002	0.033
BED55	2398	2400	8	0.004	0.035	20:46 hr	1.202	0.123	0.723	0.185	0.075	0.105
BED52	2402	2398	8	0.015	0.002	20:00 hr	0.883	0.024	1.217	0.037	0.002	0.027
BED4F	2404	2406	8	0.060	0.011	08:12 hr	2.279	0.036	2.593	0.053	0.006	0.058
BED4C	2408	2404	8	0.005	0.005	20:00 hr	0.742	0.044	0.757	0.066	0.009	0.038
BED34	2266	2268	24	0.003	5.819	33:17 hr	4.186	1.294	0.793	0.647	0.752	1.071
BED2E	2418	802	24	0.003	5.759	33:16 hr	4.179	1.284	0.793	0.642	0.743	1.065
BED2B	2420	2418	24	0.003	5.760	33:16 hr	4.192	1.281	0.796	0.641	0.741	1.065
BED28	2422	2420	24	0.003	5.761	33:16 hr	4.188	1.283	0.795	0.641	0.742	1.065
BED25	2264	2422	24	0.003	5.762	33:16 hr	4.183	1.284	0.794	0.642	0.743	1.066
BED22	2260	2262	24	0.003	5.763	33:15 hr	4.227	1.273	0.805	0.636	0.734	1.066
BEFC8	2424	2250	24	0.003	1.255	32:00 hr	2.811	0.543	0.795	0.272	0.162	0.483
BEFC5	2426	2424	15	0.003	1.238	32:00 hr	2.806	0.680	0.713	0.544	0.576	0.551
BEFC2	2428	2426	15	0.002	1.217	31:57 hr	2.656	0.702	0.667	0.561	0.605	0.546
BECEF	2430	2428	15	0.003	1.174	31:47 hr	2.753	0.662	0.707	0.530	0.551	0.536
AB3CB	2432	2434	10	0.003	0.057	08:44 hr	1.235	0.156	0.660	0.188	0.077	0.127
AB3C8	2436	2432	10	0.003	0.056	08:45 hr	1.199	0.159	0.635	0.191	0.079	0.126
AB3C5	2438	2436	8	0.010	0.002	20:00 hr	0.683	0.022	0.983	0.034	0.002	0.022
AB3BA	2440	2436	10	0.000	0.054	08:45 hr	0.530	0.276	0.209	0.331	0.237	0.124
AB3B7	2442	2440	8	0.004	0.002	20:02 hr	0.484	0.027	0.629	0.041	0.003	0.022
AB3B4	2444	2440	10	0.003	0.052	08:45 hr	1.236	0.147	0.683	0.176	0.068	0.121
AB3AD	2446	2442	8	0.010	0.001	20:00 hr	0.497	0.014	0.916	0.021	0.001	0.013
AB3AA	2446	2448	8	0.010	0.001	20:00 hr	0.492	0.014	0.906	0.021	0.001	0.013
AB39B	2448	2450	8	0.007	0.001	20:00 hr	0.579	0.023	0.816	0.035	0.002	0.021
AB398	2450	2452	8	0.004	0.003	08:15 hr	0.616	0.040	0.659	0.060	0.007	0.033
AB391	2452	2444	8	0.003	0.008	08:13 hr	0.707	0.066	0.587	0.099	0.021	0.051
AB386	2456	2454	10	0.003	0.036	20:45 hr	1.145	0.121	0.698	0.146	0.046	0.101
AB377	2458	2454	8	0.010	0.005	07:00 hr	0.954	0.037	1.062	0.055	0.006	0.038
AB374	2454	2444	10	0.003	0.042	08:46 hr	1.152	0.132	0.671	0.159	0.055	0.108
AB36F	2462	2460	8	0.006	0.002	07:00 hr	0.562	0.026	0.749	0.039	0.003	0.023
AB364	2464	2460	8	0.010	0.001	20:00 hr	0.486	0.013	0.915	0.020	0.001	0.013
AB361	2460	2466	8	0.045	0.002	08:05 hr	1.292	0.019	2.033	0.028	0.001	0.027
AB35A	2470	2468	8	0.006	0.001	20:00 hr	0.416	0.016	0.719	0.023	0.001	0.013
AB353	2468	2472	8	0.021	0.001	20:13 hr	0.759	0.015	1.349	0.022	0.001	0.017
AB350	2474	2468	8	0.008	0.000	20:00 hr	0.411	0.012	0.798	0.019	0.001	0.011
AB345	2472	2466	8	0.057	0.001	20:14 hr	1.071	0.012	2.133	0.018	0.001	0.017
AB33A	2478	2476	8	0.007	0.002	07:00 hr	0.638	0.027	0.831	0.041	0.003	0.025
AB337	2476	2392	8	0.010	0.002	07:15 hr	0.767	0.026	1.022	0.039	0.003	0.026
AB334	2480	2392	8	0.009	0.001	20:00 hr	0.545	0.017	0.896	0.026	0.001	0.016
AB322	2484	2482	8	0.033	0.001	20:12 hr	0.749	0.010	1.583	0.016	0.000	0.013
AB31F	2486	2484	8	0.058	0.001	20:14 hr	0.920	0.009	2.074	0.014	0.000	0.013
AB31C	2488	2486	8	0.026	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
AB319	2490	2486	8	0.017	0.001	20:00 hr	0.596	0.012	1.161	0.018	0.001	0.013
AB306	2492	2494	8	0.008	0.002	20:14 hr	0.680	0.026	0.915	0.038	0.003	0.024
AB303	2496	2492	8	0.018	0.001	20:00 hr	0.801	0.018	1.279	0.027	0.001	0.021
AB2F8	2498	2500	8	0.032	0.001	20:00 hr	0.868	0.013	1.620	0.020	0.001	0.017
AB2F1	2504	2502	8	0.039	0.001	20:00 hr	0.925	0.013	1.783	0.019	0.001	0.017
AB2EA	2506	2508	8	0.049	0.002	20:13 hr	1.223	0.016	2.070	0.024	0.001	0.023
AB2E7	2510	2506	8	0.006	0.001	20:00 hr	0.512	0.022	0.741	0.033	0.002	0.019
AB2DC	2514	2512	8	0.039	0.001	20:00 hr	0.832	0.011	1.737	0.016	0.000	0.014
AB2D9	2512	2516	8	0.034	0.001	20:12 hr	0.885	0.013	1.668	0.020	0.001	0.017
AB2D6	2516	2518	8	0.047	0.001	20:13 hr	0.997	0.012	1.953	0.018	0.001	0.017
AB2C7	2520	2502	10	0.001	0.022	20:43 hr	0.715	0.120	0.438	0.144	0.045	0.079

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
AB2C4	2508	2520	10	0.003	0.022	20:45 hr	0.990	0.094	0.687	0.113	0.027	0.078	
AB2C1	2522	2518	10	0.003	0.019	20:41 hr	0.867	0.094	0.602	0.113	0.027	0.073	
AB2BE	2524	2522	10	0.003	0.019	20:44 hr	0.892	0.093	0.625	0.111	0.026	0.073	
AB2AF	2518	2508	10	0.002	0.020	20:44 hr	0.812	0.102	0.542	0.122	0.032	0.075	
AB2A8	2502	2466	10	0.003	0.024	20:45 hr	1.043	0.097	0.714	0.116	0.029	0.082	
AB2A1	2466	2500	10	0.002	0.028	20:45 hr	0.918	0.117	0.571	0.140	0.042	0.088	
AB29E	2500	2390	10	0.002	0.029	20:45 hr	0.952	0.118	0.588	0.142	0.043	0.090	
AB29B	2390	2482	10	0.003	0.033	20:44 hr	1.118	0.115	0.701	0.138	0.041	0.096	
AB298	2482	2494	10	0.002	0.034	20:45 hr	1.008	0.126	0.604	0.151	0.049	0.097	
AB295	2494	2526	10	0.005	0.036	20:45 hr	1.289	0.110	0.827	0.132	0.037	0.100	
AB292	2526	2456	10	0.003	0.036	20:45 hr	1.071	0.126	0.641	0.151	0.049	0.100	
AB114	2530	2528	8	0.009	0.002	20:14 hr	0.732	0.026	0.968	0.040	0.003	0.026	
AB111	2528	2532	8	0.008	0.003	20:15 hr	0.759	0.031	0.933	0.046	0.004	0.030	
AB10A	2534	2536	8	0.003	0.001	20:00 hr	0.349	0.023	0.492	0.035	0.002	0.016	
AB107	2536	2530	8	0.010	0.002	20:14 hr	0.686	0.022	1.001	0.033	0.002	0.022	
AB0F8	2540	2538	8	0.003	0.000	20:01 hr	0.312	0.016	0.536	0.024	0.001	0.012	
AB0F5	2542	2532	8	0.003	0.002	20:23 hr	0.485	0.030	0.597	0.046	0.004	0.023	
AB0F2	2544	2542	8	0.003	0.002	20:14 hr	0.457	0.028	0.590	0.042	0.003	0.021	
AB0EF	2538	2544	8	0.003	0.001	20:12 hr	0.411	0.024	0.573	0.036	0.002	0.018	
AB0EC	2546	2548	8	0.003	0.007	20:45 hr	0.733	0.058	0.649	0.087	0.016	0.047	
AB0E9	2550	2546	8	0.004	0.006	20:28 hr	0.698	0.051	0.659	0.077	0.012	0.042	
AB0E6	2532	2550	8	0.004	0.005	20:23 hr	0.707	0.046	0.703	0.070	0.010	0.039	
AB0C7	2552	2554	8	0.003	0.002	20:16 hr	0.503	0.034	0.582	0.052	0.005	0.026	
AB0C4	2556	2552	8	0.004	0.001	20:30 hr	0.429	0.021	0.633	0.032	0.002	0.017	
AB0C1	2558	2556	8	0.002	0.001	20:14 hr	0.300	0.019	0.463	0.029	0.002	0.013	
AB0BE	2560	2558	8	0.003	0.000	20:00 hr	0.278	0.013	0.520	0.020	0.001	0.010	
AB0A7	2562	2564	8	0.003	0.001	20:00 hr	0.339	0.018	0.548	0.027	0.001	0.013	
AB0A4	2564	2566	8	0.004	0.003	07:01 hr	0.566	0.037	0.627	0.056	0.006	0.030	
AB09D	2568	2548	10	0.004	0.011	08:15 hr	0.863	0.066	0.720	0.079	0.013	0.056	
AB09A	2554	2568	10	0.003	0.010	08:23 hr	0.773	0.068	0.636	0.081	0.013	0.054	
AB097	2566	2554	10	0.002	0.007	08:13 hr	0.608	0.059	0.535	0.071	0.010	0.043	
AB084	2570	2524	10	0.007	0.019	20:42 hr	1.228	0.075	0.962	0.089	0.017	0.073	
AB07C	2548	2570	10	0.003	0.019	20:35 hr	0.948	0.087	0.687	0.104	0.023	0.072	
AAFBD	2578	2576	6	0.088	0.007	07:00 hr	2.400	0.029	3.029	0.058	0.007	0.051	
AAFBA	2576	2580	6	0.096	0.010	07:15 hr	2.712	0.033	3.217	0.065	0.009	0.059	
AAFAC	2582	2580	6	0.010	0.035	07:00 hr	1.812	0.105	1.178	0.210	0.096	0.114	
AAFAD	2584	2580	8	0.003	0.302	07:22 hr	2.170	0.395	0.731	0.592	0.658	0.319	
AAD61	2602	2608	8	0.004	0.085	07:17 hr	1.582	0.192	0.750	0.288	0.181	0.166	
AAD58	2608	2344	8	0.004	0.098	07:32 hr	1.642	0.207	0.749	0.310	0.208	0.178	
AAD3F	2610	2612	8	0.009	0.021	20:45 hr	1.439	0.078	1.099	0.117	0.029	0.082	
AAD3C	2614	2610	8	0.009	0.007	20:15 hr	1.008	0.045	1.023	0.067	0.009	0.045	
AAD39	2616	2614	8	0.005	0.003	20:01 hr	0.690	0.037	0.768	0.056	0.006	0.033	
AAD36	2618	2620	8	0.003	0.004	20:15 hr	0.603	0.042	0.628	0.064	0.008	0.034	
AAD33	2622	2618	8	0.009	0.002	20:01 hr	0.657	0.024	0.921	0.035	0.002	0.023	
AAD30	2626	2624	8	0.002	0.005	20:27 hr	0.565	0.057	0.505	0.086	0.015	0.041	
AAD2D	2624	2620	8	0.004	0.007	20:29 hr	0.761	0.054	0.700	0.081	0.013	0.045	
AAD2A	2620	2628	8	0.004	0.011	20:30 hr	0.865	0.070	0.696	0.106	0.023	0.059	
AAD27	2628	2630	8	0.003	0.012	20:30 hr	0.781	0.078	0.596	0.117	0.029	0.060	
AAD24	2630	2632	8	0.004	0.012	20:33 hr	0.917	0.074	0.721	0.110	0.026	0.062	
AAD21	2632	2610	8	0.005	0.013	20:39 hr	1.029	0.071	0.826	0.106	0.024	0.064	
AAD1E	2634	2626	8	0.004	0.004	20:26 hr	0.666	0.044	0.680	0.066	0.009	0.036	
AAD1B	2636	2634	8	0.004	0.003	20:15 hr	0.599	0.040	0.646	0.059	0.007	0.032	
AAD18	2638	2636	8	0.003	0.002	20:15 hr	0.519	0.034	0.603	0.051	0.005	0.027	
AAD15	2640	2638	8	0.004	0.001	20:00 hr	0.413	0.023	0.587	0.034	0.002	0.018	
AACD6	2644	2642	8	0.004	0.019	08:27 hr	1.060	0.089	0.755	0.134	0.038	0.077	
AACD3	2646	2644	8	0.003	0.018	08:15 hr	0.979	0.092	0.686	0.138	0.041	0.076	
AACD0	2648	2646	8	0.003	0.017	08:14 hr	0.911	0.093	0.635	0.139	0.042	0.074	
AACCD	2650	2648	8	0.004	0.016	08:15 hr	0.982	0.083	0.726	0.124	0.033	0.071	
AACCA	2652	2650	8	0.003	0.014	08:00 hr	0.903	0.080	0.681	0.120	0.030	0.066	
AACCC	2654	2652	8	0.003	0.008	07:02 hr	0.754	0.061	0.654	0.091	0.017	0.049	
AACAC	2656	2658	8	0.006	0.008	20:27 hr	0.918	0.054	0.849	0.080	0.013	0.049	
AACA9	2660	2656	8	0.006	0.006	20:17 hr	0.869	0.048	0.850	0.072	0.010	0.044	
AACA6	2662	2660	8	0.006	0.005	20:15 hr	0.781	0.041	0.826	0.062	0.008	0.037	

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
AAC3	2664	2662	8	0.004	0.002	20:02 hr	0.489	0.030	0.610	0.044	0.004	0.023
AACA0	2666	2642	8	0.009	0.002	20:00 hr	0.736	0.028	0.948	0.042	0.003	0.027
AAC9D	2642	2668	8	0.003	0.023	08:24 hr	0.992	0.106	0.648	0.158	0.054	0.085
AAC9A	2668	2658	8	0.003	0.024	08:29 hr	1.056	0.105	0.693	0.157	0.053	0.087
AAC97	2658	2670	8	0.004	0.032	20:45 hr	1.186	0.119	0.726	0.179	0.070	0.101
AAC74	2672	2674	8	0.009	0.008	20:25 hr	1.057	0.048	1.038	0.071	0.010	0.049
AAC71	2676	2672	8	0.008	0.006	20:15 hr	0.938	0.043	0.966	0.065	0.008	0.043
AAC6E	2678	2676	8	0.008	0.003	20:01 hr	0.765	0.033	0.907	0.049	0.005	0.031
AAC6B	2682	2680	8	0.010	0.001	20:00 hr	0.654	0.021	0.973	0.031	0.002	0.021
AAC68	2680	2670	8	0.009	0.003	20:14 hr	0.837	0.033	0.995	0.049	0.005	0.033
AAC65	2670	2684	8	0.005	0.037	20:45 hr	1.412	0.116	0.877	0.174	0.066	0.109
AAC62	2684	2674	8	0.004	0.039	20:45 hr	1.248	0.130	0.731	0.195	0.083	0.111
AAC5F	2674	2686	8	0.004	0.048	20:46 hr	1.339	0.143	0.744	0.215	0.101	0.123
AAC3C	2690	2688	8	0.007	0.004	20:01 hr	0.797	0.036	0.905	0.054	0.006	0.034
AAC39	2688	2692	8	0.008	0.007	20:15 hr	0.983	0.048	0.957	0.073	0.011	0.047
AAC36	2692	2686	8	0.007	0.010	20:15 hr	1.069	0.056	0.967	0.084	0.014	0.055
AAC33	2686	2694	8	0.003	0.060	20:45 hr	1.335	0.168	0.681	0.253	0.140	0.138
AAC30	2694	2696	8	0.004	0.061	20:45 hr	1.547	0.154	0.827	0.231	0.117	0.140
AAC19	2700	2698	8	0.007	0.067	20:02 hr	1.846	0.145	1.018	0.218	0.104	0.147
AAC16	2698	2702	8	0.006	0.088	20:15 hr	1.905	0.173	0.959	0.259	0.147	0.169
AAC13	2702	2704	8	0.007	0.119	20:31 hr	2.145	0.196	1.007	0.294	0.188	0.197
AAC10	2706	2696	8	0.007	0.184	20:45 hr	2.472	0.243	1.034	0.365	0.284	0.247
AAC0D	2704	2706	8	0.007	0.181	20:46 hr	2.471	0.240	1.040	0.360	0.278	0.245
AABF6	2708	2710	8	0.010	0.027	20:28 hr	1.605	0.084	1.176	0.127	0.034	0.092
AABF3	2712	2708	8	0.010	0.017	20:15 hr	1.398	0.070	1.132	0.104	0.023	0.074
AABF0	2714	2712	8	0.010	0.011	20:01 hr	1.206	0.055	1.102	0.082	0.014	0.058
AABED	2716	2718	8	0.003	0.010	20:30 hr	0.823	0.068	0.674	0.102	0.022	0.056
AABEA	2720	2716	8	0.003	0.006	20:17 hr	0.698	0.053	0.651	0.079	0.013	0.042
AABE7	2722	2720	8	0.003	0.004	20:14 hr	0.599	0.042	0.627	0.063	0.008	0.033
AABE4	2724	2722	8	0.003	0.002	20:00 hr	0.471	0.029	0.599	0.043	0.003	0.022
AABE1	2728	2726	8	0.016	0.003	20:00 hr	0.984	0.027	1.284	0.041	0.003	0.031
AABDE	2718	2730	8	0.014	0.015	20:30 hr	1.526	0.058	1.353	0.087	0.016	0.068
AABB7	2732	2734	18	0.031	0.710	21:00 hr	5.758	0.247	2.451	0.165	0.059	0.391
AABB4	2736	2738	8	0.004	0.018	20:31 hr	1.037	0.086	0.751	0.129	0.036	0.075
AABB1	2740	2736	8	0.004	0.010	20:30 hr	0.855	0.064	0.720	0.097	0.019	0.055
AABAE	2742	2740	8	0.004	0.007	20:29 hr	0.795	0.054	0.735	0.080	0.013	0.046
AABAB	2744	2742	8	0.004	0.005	20:15 hr	0.708	0.049	0.689	0.073	0.011	0.040
AABA8	2746	2744	8	0.004	0.004	20:00 hr	0.641	0.041	0.677	0.062	0.008	0.034
AAB91	2748	2750	8	0.003	0.001	20:00 hr	0.369	0.020	0.566	0.030	0.002	0.015
AAB8A	2750	2752	8	0.003	0.002	20:13 hr	0.502	0.031	0.609	0.047	0.004	0.024
AAB87	2752	2754	8	0.004	0.005	20:15 hr	0.668	0.048	0.651	0.073	0.011	0.039
AAB84	2754	2756	8	0.003	0.009	20:27 hr	0.787	0.064	0.667	0.095	0.019	0.052
AAB81	2756	2758	8	0.003	0.012	20:30 hr	0.867	0.074	0.682	0.110	0.026	0.061
AAB7E	2758	2760	8	0.003	0.017	20:44 hr	0.970	0.088	0.696	0.132	0.037	0.073
AAB7B	2760	2762	8	0.003	0.020	20:40 hr	1.016	0.095	0.699	0.143	0.044	0.080
AAB78	2764	2762	8	0.003	0.006	20:00 hr	0.715	0.055	0.653	0.082	0.014	0.044
AAB75	2762	2766	8	0.004	0.028	20:43 hr	1.169	0.109	0.749	0.164	0.058	0.094
AAB52	2770	2768	8	0.007	0.010	20:26 hr	1.040	0.057	0.930	0.086	0.015	0.055
AAB4F	2772	2770	8	0.006	0.005	20:15 hr	0.800	0.043	0.832	0.064	0.008	0.039
AAB4C	2774	2772	8	0.005	0.002	20:01 hr	0.567	0.029	0.712	0.044	0.004	0.025
AAB49	2778	2776	8	0.009	0.002	20:01 hr	0.688	0.023	0.966	0.035	0.002	0.023
AAB46	2782	2780	8	0.008	0.003	20:01 hr	0.745	0.029	0.938	0.044	0.004	0.028
AAB2F	2784	2768	8	0.005	0.016	20:31 hr	1.067	0.079	0.809	0.119	0.030	0.071
AAB2C	2776	2784	8	0.004	0.013	20:30 hr	0.903	0.074	0.706	0.112	0.026	0.062
AAB29	2780	2776	8	0.005	0.008	20:16 hr	0.862	0.055	0.789	0.082	0.014	0.049
AAB26	2786	2780	8	0.003	0.002	20:01 hr	0.486	0.030	0.604	0.045	0.004	0.023
AAB13	2788	2790	8	0.003	0.009	20:30 hr	0.792	0.066	0.658	0.099	0.020	0.053
AAB10	2792	2788	8	0.003	0.007	20:16 hr	0.718	0.056	0.649	0.084	0.014	0.045
AAB0D	2794	2792	8	0.004	0.003	20:02 hr	0.599	0.038	0.663	0.056	0.006	0.031
AAAFE	2796	2798	8	0.004	0.007	20:30 hr	0.745	0.056	0.671	0.085	0.015	0.046
AAAFB	2800	2796	8	0.004	0.004	20:16 hr	0.631	0.044	0.642	0.067	0.009	0.036
AAAF8	2802	2800	8	0.007	0.003	20:14 hr	0.710	0.033	0.845	0.049	0.005	0.030
AAAF5	2804	2802	8	0.004	0.002	20:00 hr	0.514	0.031	0.626	0.047	0.004	0.025

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
AAA2E	2808	2806	8	0.005	0.003	07:02 hr	0.643	0.036	0.723	0.055	0.006	0.031
AAA2F	2806	2810	8	0.005	0.013	07:17 hr	1.007	0.071	0.809	0.106	0.024	0.063
AAA2C	2810	2812	8	0.005	0.018	07:28 hr	1.100	0.085	0.805	0.127	0.034	0.076
AAA2D	2812	2814	8	0.005	0.019	08:00 hr	1.178	0.084	0.866	0.126	0.034	0.078
AAA26	2818	2816	10	0.002	0.014	20:01 hr	0.777	0.083	0.576	0.099	0.021	0.063
AAA2F	2768	2790	10	0.003	0.030	20:45 hr	1.012	0.116	0.632	0.139	0.042	0.092
AAA2C	2790	2798	10	0.002	0.046	20:45 hr	1.079	0.148	0.593	0.178	0.069	0.114
AAA29	2798	2820	10	0.003	0.055	20:45 hr	1.322	0.147	0.731	0.176	0.067	0.125
AAA26	2820	2816	10	0.003	0.057	20:45 hr	1.340	0.148	0.736	0.178	0.069	0.127
AAA23	2816	2822	10	0.001	0.072	20:45 hr	0.886	0.235	0.381	0.282	0.174	0.143
AAA20	2822	2824	10	0.002	0.073	20:45 hr	1.185	0.192	0.567	0.231	0.117	0.144
AAA2D	2824	2826	10	0.003	0.074	20:45 hr	1.383	0.174	0.698	0.209	0.096	0.145
AAA2E	2730	2828	10	0.003	0.331	44:59 hr	2.044	0.390	0.678	0.468	0.446	0.313
AAA2B	2830	2730	10	0.002	0.305	44:57 hr	1.907	0.386	0.635	0.463	0.438	0.300
AAA28	2832	2830	10	0.002	0.292	20:45 hr	1.884	0.377	0.635	0.453	0.421	0.294
AAA28	2834	2832	10	0.004	0.283	20:45 hr	2.302	0.317	0.843	0.380	0.307	0.289
AAA2F	2836	2726	10	0.002	0.266	44:57 hr	1.829	0.359	0.630	0.431	0.386	0.280
AAA2C	2840	2838	10	0.002	0.255	20:45 hr	1.831	0.348	0.641	0.417	0.364	0.274
AAA29	2838	2836	10	0.003	0.259	44:54 hr	1.849	0.349	0.646	0.419	0.366	0.276
AAA26	2696	2842	10	0.002	0.246	20:45 hr	1.808	0.342	0.638	0.410	0.353	0.269
AAA23	2842	2844	10	0.002	0.247	20:45 hr	1.784	0.347	0.625	0.416	0.362	0.269
AAA20	2844	2840	10	0.002	0.249	20:45 hr	1.711	0.360	0.589	0.432	0.387	0.271
AAA21	2846	2710	12	0.001	0.390	44:59 hr	1.553	0.496	0.459	0.496	0.492	0.323
AAA2E	2828	2846	12	0.002	0.384	45:00 hr	2.018	0.401	0.657	0.401	0.338	0.320
AAA23	2848	2850	12	0.002	0.471	45:00 hr	1.990	0.473	0.600	0.473	0.455	0.356
AAA20	2852	2848	12	0.002	0.453	44:59 hr	1.961	0.465	0.596	0.465	0.440	0.349
AAA2D	2854	2852	12	0.002	0.442	44:59 hr	1.975	0.453	0.607	0.453	0.422	0.345
AAA2A	2856	2854	12	0.002	0.429	45:00 hr	1.909	0.455	0.585	0.455	0.425	0.340
AAA27	2858	2856	12	0.002	0.424	45:00 hr	1.963	0.442	0.610	0.442	0.403	0.338
AAA24	2710	2858	12	0.002	0.421	45:00 hr	2.013	0.431	0.633	0.431	0.386	0.336
AAA21	2860	2738	12	0.004	0.200	20:59 hr	1.959	0.255	0.811	0.255	0.143	0.229
AAA1E	2738	2732	12	0.015	0.223	20:59 hr	3.310	0.191	1.600	0.191	0.080	0.243
AAA1B	2850	2732	12	0.002	0.483	21:00 hr	1.999	0.481	0.598	0.481	0.468	0.361
AAA18	2862	2860	12	0.004	0.192	21:00 hr	1.938	0.250	0.811	0.250	0.137	0.225
AAA15	2864	2862	12	0.004	0.188	20:59 hr	1.933	0.247	0.815	0.247	0.133	0.222
AAA12	2866	2864	12	0.004	0.187	20:59 hr	1.936	0.245	0.819	0.245	0.132	0.221
AAA0F	2868	2866	12	0.004	0.186	20:59 hr	1.988	0.240	0.851	0.240	0.126	0.221
AA9D8	2870	2868	12	0.004	0.181	20:59 hr	2.006	0.234	0.870	0.234	0.120	0.218
AA9D1	2766	2870	12	0.004	0.178	20:59 hr	1.905	0.239	0.816	0.239	0.126	0.216
AA9CE	2874	2872	12	0.002	0.109	20:45 hr	1.415	0.209	0.653	0.209	0.095	0.168
AA9CB	2872	2612	12	0.002	0.110	20:45 hr	1.420	0.210	0.653	0.210	0.096	0.169
AA9C8	2612	2876	12	0.002	0.133	20:46 hr	1.265	0.260	0.518	0.260	0.148	0.186
AA9C5	2876	2878	12	0.004	0.139	20:46 hr	1.780	0.211	0.816	0.211	0.097	0.190
AA9C2	2878	2766	12	0.004	0.147	20:58 hr	1.802	0.217	0.813	0.217	0.103	0.195
AA9BF	2826	2874	12	0.002	0.108	20:45 hr	1.407	0.208	0.650	0.208	0.095	0.167
AA99C	2882	2880	12	0.002	0.013	07:00 hr	0.712	0.078	0.546	0.078	0.012	0.057
AA999	2884	2826	12	0.005	0.041	08:12 hr	1.380	0.109	0.893	0.109	0.025	0.103
AA996	2886	2884	12	0.004	0.039	08:01 hr	1.290	0.110	0.828	0.110	0.026	0.100
AA993	2888	2886	12	0.004	0.038	08:01 hr	1.264	0.109	0.816	0.109	0.025	0.099
AA990	2890	2888	12	0.004	0.036	08:00 hr	1.198	0.110	0.771	0.110	0.025	0.096
AA98D	2814	2890	12	0.004	0.035	08:00 hr	1.239	0.104	0.819	0.104	0.023	0.094
AA98A	2880	2814	12	0.005	0.014	07:15 hr	0.994	0.066	0.830	0.066	0.009	0.060
AA588	2894	2892	8	0.003	0.029	44:58 hr	1.128	0.114	0.709	0.170	0.063	0.095
AA585	2892	2896	8	0.003	0.030	44:57 hr	1.143	0.116	0.711	0.174	0.066	0.097
AA582	2896	1052	8	0.003	0.031	20:59 hr	1.150	0.117	0.710	0.176	0.068	0.099
AA57F	1050	2898	8	0.003	0.051	20:47 hr	1.318	0.151	0.712	0.227	0.113	0.127
AA57C	2898	2900	8	0.003	0.051	20:59 hr	1.342	0.151	0.726	0.226	0.112	0.128
AA579	2900	2902	8	0.005	0.053	20:58 hr	1.495	0.144	0.830	0.215	0.102	0.131
AA572	2904	2894	8	0.003	0.028	44:58 hr	1.122	0.112	0.711	0.168	0.061	0.094
AA557	2906	2908	10	0.003	0.083	08:44 hr	1.346	0.193	0.643	0.232	0.118	0.154
AA554	2902	2906	10	0.003	0.078	08:45 hr	1.323	0.186	0.644	0.224	0.110	0.149
AA54D	2910	2902	8	0.005	0.018	08:26 hr	1.076	0.084	0.793	0.125	0.033	0.074
AA4F5	2912	2914	8	0.007	0.000	06:57 hr	0.397	0.013	0.758	0.019	0.001	0.011

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
AA4F2	2912	2916	8	0.003	0.000	07:57 hr	0.278	0.013	0.529	0.019	0.001	0.009	
AA4EF	2914	2918	8	0.003	0.001	06:53 hr	0.343	0.018	0.553	0.027	0.001	0.013	
AA4EC	2918	2920	8	0.003	0.001	07:58 hr	0.369	0.020	0.564	0.030	0.002	0.015	
AA4E9	2920	2922	8	0.003	0.002	08:01 hr	0.521	0.034	0.611	0.050	0.005	0.026	
AA4E6	2922	2924	8	0.003	0.004	08:11 hr	0.639	0.046	0.641	0.069	0.009	0.037	
AA4CF	2928	2926	8	0.003	0.000	06:02 hr	0.316	0.016	0.541	0.023	0.001	0.012	
AA4CC	2926	2930	8	0.003	0.002	08:01 hr	0.500	0.031	0.606	0.047	0.004	0.024	
AA4C9	2930	2932	8	0.003	0.004	08:10 hr	0.608	0.043	0.632	0.064	0.008	0.034	
AA4C6	2932	2934	8	0.003	0.005	08:15 hr	0.682	0.051	0.650	0.076	0.012	0.041	
AA4B3	2924	2934	8	0.003	0.010	08:27 hr	0.818	0.067	0.673	0.101	0.021	0.055	
AA4B0	2934	2910	8	0.005	0.017	08:30 hr	1.062	0.082	0.791	0.123	0.032	0.073	
AA4A9	2936	2916	8	0.003	0.000	06:00 hr	0.254	0.011	0.519	0.017	0.001	0.008	
AA4A6	2916	2938	8	0.003	0.001	06:56 hr	0.361	0.019	0.562	0.029	0.002	0.014	
AA4A3	2938	2940	8	0.006	0.002	08:01 hr	0.644	0.030	0.796	0.045	0.004	0.027	
AA4A0	2940	2942	8	0.003	0.004	08:15 hr	0.606	0.043	0.630	0.064	0.008	0.034	
AA49D	2942	2924	8	0.003	0.004	08:12 hr	0.632	0.045	0.636	0.068	0.009	0.036	
AA40B	2946	2944	8	0.008	0.004	08:11 hr	0.853	0.037	0.956	0.055	0.006	0.036	
AA408	2948	2946	8	0.004	0.004	20:02 hr	0.608	0.041	0.643	0.062	0.008	0.033	
AA3FD	2952	2950	8	0.004	0.014	08:16 hr	0.917	0.078	0.699	0.117	0.029	0.065	
AA3FA	2950	2954	8	0.006	0.014	08:15 hr	1.116	0.070	0.901	0.105	0.023	0.066	
AA3F7	2956	2952	8	0.004	0.012	08:02 hr	0.919	0.073	0.725	0.110	0.025	0.062	
AA3E8	2954	2958	8	0.003	0.015	08:28 hr	0.927	0.082	0.688	0.123	0.032	0.068	
AA3E5	2960	2954	8	0.021	0.000	06:14 hr	0.000	0.000	0.000	0.000	0.000	0.006	
AA3E2	2962	2960	8	0.019	0.000	06:00 hr	0.000	0.000	0.000	0.000	0.000	0.006	
AA3D3	2958	2964	8	0.003	0.018	08:27 hr	0.981	0.092	0.689	0.137	0.041	0.076	
AA3CC	2968	2966	8	0.007	0.044	08:36 hr	1.644	0.117	1.017	0.176	0.067	0.118	
AA3C9	2964	2968	8	0.004	0.042	08:36 hr	1.349	0.130	0.790	0.195	0.083	0.115	
AA3C6	2970	2968	8	0.013	0.001	06:00 hr	0.605	0.015	1.059	0.023	0.001	0.016	
A3821	2974	2972	8	0.011	0.010	07:00 hr	1.236	0.052	1.159	0.078	0.012	0.056	
A3815	2972	2976	8	0.003	0.013	08:02 hr	0.899	0.078	0.686	0.117	0.029	0.065	
A380D	2976	2978	8	0.003	0.017	08:09 hr	0.955	0.087	0.689	0.130	0.036	0.072	
A37F9	2978	2338	8	0.016	0.019	08:12 hr	1.697	0.063	1.441	0.095	0.019	0.076	
A37DF	2982	2980	8	0.003	0.002	20:01 hr	0.493	0.031	0.605	0.046	0.004	0.024	
A37D7	2980	2984	8	0.003	0.004	20:16 hr	0.622	0.045	0.628	0.068	0.009	0.036	
A37CA	2984	2986	8	0.003	0.009	08:16 hr	0.786	0.063	0.667	0.095	0.019	0.052	
A37BE	2988	2990	8	0.004	0.042	20:45 hr	1.289	0.136	0.738	0.203	0.091	0.116	
A37BB	2992	2988	8	0.003	0.042	20:44 hr	1.258	0.138	0.713	0.207	0.094	0.116	
A37B6	2990	2994	8	0.009	0.043	20:45 hr	1.805	0.109	1.160	0.163	0.058	0.117	
A37AD	2986	2994	8	0.003	0.012	08:16 hr	0.875	0.075	0.682	0.112	0.027	0.062	
A37AA	2994	2996	8	0.003	0.055	20:45 hr	1.371	0.156	0.727	0.235	0.121	0.133	
A379D	2996	2998	8	0.003	0.057	20:46 hr	1.381	0.159	0.727	0.238	0.124	0.135	
A3795	2998	2334	8	0.003	0.059	20:45 hr	1.392	0.161	0.726	0.242	0.128	0.137	
A3776	3002	3000	21	0.004	3.450	08:30 hr	4.317	0.894	0.951	0.511	0.519	0.849	
A375C	3004	3006	36	0.002	3.704	08:30 hr	3.373	0.869	0.753	0.290	0.183	0.751	
A374D	3008	3006	8	0.004	0.025	07:00 hr	1.142	0.101	0.762	0.152	0.050	0.088	
A374A	3006	3010	36	0.002	3.729	08:31 hr	3.341	0.880	0.740	0.293	0.187	0.754	
A373B	3012	3010	8	0.004	0.025	07:00 hr	1.145	0.102	0.762	0.152	0.050	0.089	
A3738	3010	3014	36	0.002	3.754	08:31 hr	3.493	0.856	0.786	0.285	0.178	0.756	
A3729	3016	3014	8	0.003	0.022	07:00 hr	1.040	0.099	0.701	0.149	0.048	0.083	
A3726	3014	3018	36	0.002	3.776	08:45 hr	3.349	0.886	0.739	0.295	0.190	0.758	
A3716	3020	3018	8	0.003	0.019	07:00 hr	0.996	0.092	0.696	0.139	0.041	0.077	
A3713	3018	3022	36	0.003	3.796	08:45 hr	3.542	0.854	0.798	0.285	0.177	0.760	
A3704	3024	3022	8	0.003	0.015	07:00 hr	0.933	0.083	0.689	0.125	0.033	0.069	
A3701	3022	3026	36	0.003	3.812	08:45 hr	3.570	0.852	0.805	0.284	0.176	0.762	
A36F1	3028	3026	36	0.017	8.246	09:45 hr	8.747	0.779	2.070	0.260	0.148	1.135	
A36EE	3026	3030	42	0.002	11.993	09:45 hr	4.581	1.532	0.765	0.438	0.397	1.317	
A36D8	3032	3030	8	0.004	0.007	07:00 hr	0.766	0.054	0.708	0.080	0.013	0.045	
A36D5	3034	3030	8	0.004	0.007	07:00 hr	0.764	0.053	0.708	0.080	0.013	0.045	
A36D2	3030	3036	42	0.002	12.006	09:45 hr	4.461	1.565	0.737	0.447	0.412	1.318	
A36BE	3038	3036	12	0.003	0.019	07:00 hr	0.949	0.084	0.702	0.084	0.014	0.070	
A36BB	3040	3036	12	0.003	0.020	07:00 hr	0.954	0.084	0.703	0.084	0.015	0.071	
A36B8	3036	3042	42	0.002	12.043	09:45 hr	4.480	1.563	0.741	0.447	0.411	1.320	
A36A4	3044	3042	12	0.002	0.026	07:00 hr	0.866	0.110	0.557	0.110	0.025	0.082	

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
A36A1	3046	3042	12	0.003	0.020	07:00 hr	0.964	0.086	0.704	0.086	0.015	0.072
A369E	3042	3048	42	0.002	12.087	09:45 hr	4.184	1.653	0.675	0.472	0.453	1.322
A3689	3050	3048	8	0.003	0.020	07:00 hr	1.019	0.096	0.699	0.144	0.045	0.080
A3686	3052	3048	8	0.003	0.013	07:00 hr	0.884	0.076	0.682	0.115	0.028	0.063
A3683	3048	3054	42	0.003	12.118	09:45 hr	4.951	1.456	0.846	0.416	0.362	1.324
A3673	3056	3054	8	0.003	0.014	07:00 hr	0.902	0.079	0.685	0.118	0.030	0.065
A3670	3058	3054	8	0.003	0.007	07:00 hr	0.722	0.056	0.656	0.083	0.014	0.045
A366D	3054	3060	42	0.002	12.136	09:45 hr	4.433	1.586	0.728	0.453	0.422	1.325
A3651	3062	3060	12	0.003	0.007	07:00 hr	0.687	0.051	0.655	0.051	0.005	0.041
A3650	3064	3060	24	0.005	0.001	07:00 hr	0.000	0.000	0.000	0.000	0.000	0.009
A364D	3060	3066	30	0.001	3.596	09:45 hr	2.492	1.161	0.479	0.465	0.440	0.779
A3319	3180	1654	8	0.003	0.097	20:46 hr	1.610	0.208	0.732	0.312	0.211	0.177
A32D5	3182	3184	8	0.012	0.021	20:15 hr	1.617	0.072	1.285	0.108	0.025	0.082
A32D2	3186	3182	8	0.003	0.021	20:00 hr	0.971	0.101	0.649	0.151	0.050	0.081
A32C7	3184	3188	8	0.003	0.022	20:27 hr	0.981	0.103	0.650	0.154	0.051	0.082
A32C0	3188	3190	8	0.007	0.023	20:30 hr	1.329	0.088	0.955	0.132	0.037	0.086
A32BD	3190	3192	8	0.005	0.024	20:43 hr	1.201	0.095	0.827	0.143	0.044	0.087
A32BA	3194	3196	8	0.004	0.065	20:45 hr	1.526	0.163	0.792	0.244	0.131	0.145
A32B7	3192	3194	8	0.003	0.060	20:44 hr	1.322	0.170	0.671	0.255	0.142	0.138
A32B4	3198	3192	8	0.006	0.035	20:15 hr	1.423	0.110	0.909	0.165	0.059	0.105
A32B1	3200	3198	8	0.003	0.032	20:00 hr	1.163	0.119	0.713	0.179	0.070	0.100
A3296	3202	3196	8	0.004	0.006	20:21 hr	0.724	0.050	0.693	0.075	0.011	0.042
A3293	3204	3202	8	0.006	0.001	20:01 hr	0.539	0.024	0.755	0.035	0.002	0.021
A3290	3206	3202	8	0.007	0.002	20:15 hr	0.650	0.028	0.843	0.041	0.003	0.025
A328D	3208	3180	8	0.003	0.095	20:45 hr	1.559	0.211	0.703	0.316	0.217	0.176
A328A	3210	3206	8	0.004	0.001	20:00 hr	0.371	0.018	0.591	0.027	0.001	0.014
A3277	3212	3208	8	0.006	0.007	20:44 hr	0.879	0.049	0.852	0.073	0.011	0.045
A3274	3214	3212	8	0.004	0.006	20:43 hr	0.767	0.050	0.733	0.075	0.012	0.043
A3271	3216	3214	8	0.003	0.005	20:30 hr	0.658	0.050	0.628	0.076	0.012	0.040
A326E	3218	3216	8	0.005	0.004	20:26 hr	0.741	0.041	0.782	0.062	0.008	0.037
A326B	3220	3218	8	0.014	0.003	20:20 hr	0.964	0.028	1.230	0.043	0.003	0.032
A3268	3222	3220	8	0.005	0.002	20:15 hr	0.576	0.030	0.718	0.045	0.004	0.025
A3265	3224	3222	8	0.006	0.001	20:00 hr	0.419	0.016	0.708	0.024	0.001	0.014
A3246	3226	3208	8	0.004	0.088	20:45 hr	1.674	0.189	0.802	0.283	0.175	0.169
A3243	3228	3226	8	0.005	0.087	20:45 hr	1.804	0.177	0.894	0.266	0.155	0.168
A3240	3230	3228	8	0.003	0.085	20:45 hr	1.395	0.210	0.631	0.315	0.215	0.166
A323D	3196	3230	8	0.004	0.077	20:45 hr	1.606	0.177	0.796	0.266	0.155	0.158
A3226	3232	3234	8	0.007	0.015	20:15 hr	1.186	0.070	0.958	0.105	0.023	0.068
A321F	3236	3232	8	0.003	0.015	20:00 hr	0.917	0.082	0.684	0.122	0.032	0.067
A3218	3238	3240	8	0.004	0.015	08:00 hr	0.973	0.082	0.725	0.122	0.032	0.069
A320D	3242	3244	8	0.001	0.012	08:15 hr	0.525	0.104	0.345	0.156	0.053	0.061
A320A	3246	3242	8	0.006	0.012	08:00 hr	1.030	0.064	0.867	0.097	0.019	0.060
A3203	3248	3250	8	0.006	0.048	08:38 hr	1.560	0.129	0.917	0.193	0.082	0.123
A3200	3252	3248	8	0.005	0.046	08:38 hr	1.439	0.134	0.830	0.200	0.088	0.121
A31FD	3244	3252	8	0.005	0.045	08:30 hr	1.456	0.130	0.851	0.195	0.083	0.120
A31FA	3254	3244	8	0.002	0.033	08:33 hr	0.955	0.140	0.537	0.210	0.097	0.102
A31F7	3250	1760	8	0.003	0.049	08:43 hr	1.322	0.148	0.722	0.222	0.108	0.126
A31F4	3234	3256	8	0.004	0.015	20:16 hr	0.944	0.083	0.699	0.124	0.033	0.069
A31F1	3256	3240	8	0.006	0.017	20:30 hr	1.199	0.076	0.928	0.114	0.027	0.073
A31EE	3240	3254	8	0.007	0.033	08:26 hr	1.501	0.102	0.997	0.153	0.051	0.102
A31CB	3258	3260	8	0.007	0.000	06:13 hr	0.277	0.008	0.676	0.012	0.000	0.006
A31C8	3262	3258	8	0.003	0.000	06:00 hr	0.227	0.009	0.505	0.014	0.000	0.007
A31C5	3264	3266	8	0.005	0.001	08:07 hr	0.487	0.022	0.699	0.034	0.002	0.019
A31C2	3268	3264	8	0.005	0.001	08:06 hr	0.501	0.022	0.727	0.033	0.002	0.019
A31BF	3260	3268	8	0.003	0.001	08:30 hr	0.401	0.026	0.539	0.038	0.003	0.019
A31BC	3270	3260	8	0.007	0.001	20:14 hr	0.535	0.019	0.826	0.029	0.002	0.018
A31B9	3274	3272	8	0.003	0.000	20:00 hr	0.279	0.014	0.514	0.020	0.001	0.010
A31B6	3272	3270	8	0.003	0.001	20:09 hr	0.394	0.024	0.548	0.036	0.002	0.018
A3193	3278	3276	8	0.008	0.001	20:00 hr	0.504	0.017	0.821	0.026	0.001	0.016
A3190	3276	3280	8	0.008	0.002	20:14 hr	0.654	0.025	0.892	0.037	0.003	0.024
A318D	3282	1760	8	0.021	0.004	08:23 hr	1.169	0.028	1.490	0.043	0.003	0.035
A318A	3286	3282	8	0.004	0.004	20:26 hr	0.652	0.042	0.684	0.063	0.008	0.035
A3187	3284	3266	8	0.006	0.003	20:45 hr	0.678	0.033	0.800	0.050	0.005	0.030

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
A3184	3280	3284	8	0.004	0.002	20:15 hr	0.544	0.034	0.635	0.051	0.005	0.027
A3169	3286	1760	8	0.014	0.009	20:30 hr	1.281	0.046	1.281	0.069	0.010	0.052
A3166	3290	3288	8	0.006	0.004	20:27 hr	0.801	0.040	0.859	0.060	0.007	0.037
A3163	3288	3292	8	0.002	0.005	20:25 hr	0.571	0.057	0.511	0.086	0.015	0.041
A3160	3292	3294	8	0.006	0.006	20:30 hr	0.877	0.046	0.873	0.070	0.010	0.043
A315D	3294	3286	8	0.004	0.007	20:29 hr	0.784	0.054	0.722	0.081	0.013	0.046
A315A	3296	3290	8	0.006	0.002	20:15 hr	0.631	0.028	0.808	0.042	0.003	0.025
A3157	3298	3296	8	0.005	0.001	20:01 hr	0.473	0.021	0.698	0.032	0.002	0.018
A2F2B	3302	3300	27	0.002	5.282	08:59 hr	3.671	1.231	0.694	0.547	0.581	0.982
A2F28	3304	3302	27	0.004	5.245	09:00 hr	4.777	0.996	0.989	0.443	0.405	0.978
A2F22	2734	3306	27	0.003	5.154	09:00 hr	4.025	1.122	0.790	0.499	0.498	0.969
A2F1F	1444	2734	27	0.003	4.503	09:01 hr	3.888	1.038	0.790	0.461	0.435	0.903
A2EFA	3308	3300	18	0.104	0.002	07:00 hr	0.000	0.000	0.000	0.000	0.000	0.022
A2EEF	3310	3300	18	0.008	0.026	20:00 hr	1.318	0.071	1.065	0.047	0.004	0.073
A2EE9	3300	3312	27	0.003	5.305	09:00 hr	4.371	1.076	0.874	0.478	0.463	0.984
A2ED8	3314	3312	12	0.002	0.018	07:00 hr	0.770	0.091	0.545	0.091	0.017	0.067
A2ED5	3312	3316	27	0.004	5.322	09:00 hr	4.907	0.987	1.020	0.439	0.398	0.986
A2ECD	3316	3318	33	0.003	5.408	09:01 hr	4.028	1.047	0.812	0.381	0.308	0.936
A2EC6	3318	3320	33	0.002	5.457	09:02 hr	3.452	1.184	0.655	0.431	0.385	0.940
A2EBF	3320	3322	33	0.002	5.495	09:15 hr	3.693	1.131	0.716	0.411	0.354	0.944
A2EB7	3322	3324	33	0.003	5.512	09:15 hr	3.978	1.072	0.792	0.390	0.322	0.945
A2EB0	3324	3326	33	0.002	5.519	09:15 hr	3.759	1.120	0.733	0.407	0.348	0.946
A2EA9	3326	3328	33	0.002	5.522	09:15 hr	3.262	1.247	0.604	0.454	0.422	0.946
A2EA2	3328	3330	33	0.002	5.536	09:15 hr	3.914	1.089	0.774	0.396	0.331	0.947
A2E9B	3330	1568	33	0.002	5.569	09:15 hr	3.783	1.122	0.737	0.408	0.349	0.950
A2E8D	1566	3332	33	0.003	5.595	09:15 hr	4.078	1.064	0.815	0.387	0.317	0.953
A2E80	3332	3334	33	0.002	5.603	09:15 hr	3.568	1.178	0.679	0.428	0.381	0.953
A2DD5	3336	3334	12	0.002	0.039	07:00 hr	0.977	0.133	0.569	0.133	0.038	0.100
A2CD6	3340	3338	8	0.003	0.001	20:01 hr	0.382	0.021	0.571	0.031	0.002	0.016
A2CCE	3338	3342	8	0.003	0.002	20:16 hr	0.532	0.034	0.616	0.052	0.005	0.027
A2CC6	3346	3344	8	0.003	0.010	20:29 hr	0.832	0.069	0.674	0.104	0.023	0.057
A2CC3	3342	3344	8	0.003	0.004	20:21 hr	0.616	0.043	0.636	0.065	0.008	0.034
A2CC0	3344	3348	8	0.003	0.016	20:31 hr	0.944	0.084	0.691	0.127	0.034	0.070
A2CAE	3350	3352	8	0.010	0.000	20:00 hr	0.464	0.012	0.898	0.019	0.001	0.012
A2CA6	3356	3354	8	0.003	0.001	20:02 hr	0.448	0.027	0.591	0.040	0.003	0.020
A2C9D	3354	3346	8	0.003	0.003	20:15 hr	0.576	0.039	0.627	0.058	0.007	0.031
A2C9A	3358	3346	8	0.003	0.006	20:30 hr	0.696	0.052	0.651	0.079	0.013	0.042
A2C88	3360	3358	8	0.003	0.003	20:15 hr	0.595	0.041	0.629	0.062	0.008	0.033
A2C7F	3362	3360	8	0.003	0.002	20:00 hr	0.485	0.030	0.600	0.045	0.004	0.023
A2C76	3364	3362	8	0.003	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
A2C6E	3364	3366	8	0.003	0.003	20:01 hr	0.540	0.035	0.617	0.053	0.005	0.028
A2C66	3366	3368	8	0.003	0.005	20:15 hr	0.655	0.048	0.642	0.072	0.010	0.038
A2C51	3370	3352	8	0.003	0.007	20:29 hr	0.734	0.057	0.659	0.085	0.015	0.046
A2C49	3352	3372	8	0.003	0.008	20:30 hr	0.771	0.061	0.667	0.091	0.017	0.050
A2C41	3372	3374	8	0.003	0.009	20:30 hr	0.791	0.064	0.669	0.096	0.019	0.052
A2C39	3374	3376	8	0.003	0.010	20:34 hr	0.814	0.066	0.675	0.100	0.021	0.054
A2C31	3378	3376	8	0.010	0.002	07:00 hr	0.749	0.026	1.007	0.038	0.003	0.026
A2C22	3380	3382	8	0.003	0.004	08:08 hr	0.608	0.044	0.624	0.065	0.009	0.034
A2C1F	3384	3380	8	0.010	0.003	07:01 hr	0.846	0.031	1.036	0.046	0.004	0.031
A2C0C	3376	3382	8	0.003	0.012	20:40 hr	0.833	0.077	0.638	0.116	0.028	0.062
A2C04	3388	3386	8	0.003	0.041	20:44 hr	1.254	0.134	0.722	0.201	0.088	0.113
A2C01	3382	3390	8	0.003	0.017	20:42 hr	0.959	0.087	0.693	0.130	0.036	0.072
A2BFE	3390	3388	8	0.003	0.017	20:41 hr	0.969	0.089	0.691	0.134	0.038	0.074
A2BEE	3392	3388	8	0.003	0.022	20:44 hr	1.049	0.100	0.703	0.150	0.049	0.084
A2BEB	3394	3392	8	0.003	0.021	20:44 hr	1.025	0.098	0.695	0.147	0.047	0.082
A2BD9	3348	3396	8	0.003	0.018	20:39 hr	0.975	0.089	0.695	0.134	0.038	0.074
A2BD1	3396	3394	8	0.004	0.019	20:42 hr	1.011	0.091	0.713	0.136	0.040	0.077
A2BB5	3398	3394	8	0.004	0.002	20:01 hr	0.529	0.030	0.655	0.045	0.004	0.024
A2BB7	3386	2992	8	0.003	0.042	20:45 hr	1.258	0.136	0.718	0.204	0.091	0.115
A2620	3570	3568	8	0.004	0.054	07:29 hr	1.439	0.149	0.785	0.223	0.109	0.131
A261D	3568	3572	8	0.004	0.063	07:32 hr	1.502	0.160	0.787	0.240	0.126	0.142
A2603	3572	3574	8	0.003	0.075	07:46 hr	1.498	0.183	0.730	0.274	0.165	0.156
A25F2	3574	2220	8	0.003	0.085	07:58 hr	1.544	0.194	0.728	0.292	0.185	0.165

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
A25DD	2908	3576	10	0.003	0.085	08:45 hr	1.356	0.194	0.646	0.233	0.119	0.155	
A25D1	1254	3576	8	0.004	0.003	08:12 hr	0.603	0.041	0.640	0.061	0.007	0.033	
A25CD	3576	3578	10	0.003	0.089	08:45 hr	1.381	0.198	0.650	0.238	0.124	0.159	
A25C4	3578	3580	10	0.003	0.090	08:53 hr	1.376	0.200	0.645	0.240	0.127	0.160	
A25B8	1266	3580	8	0.002	0.004	08:10 hr	0.516	0.046	0.513	0.070	0.010	0.033	
A25B4	3580	3582	10	0.003	0.094	08:52 hr	1.396	0.205	0.646	0.246	0.132	0.164	
A25AC	3582	2944	10	0.003	0.095	08:58 hr	1.402	0.206	0.647	0.247	0.134	0.165	
A2598	2944	3584	10	0.003	0.099	33:00 hr	1.417	0.211	0.646	0.253	0.140	0.168	
A258C	3586	3584	8	0.004	0.000	07:00 hr	0.338	0.015	0.594	0.023	0.001	0.012	
A2587	3584	3588	10	0.004	0.100	08:59 hr	1.682	0.187	0.817	0.225	0.111	0.169	
A257B	9900	3590	8	0.005	0.054	20:45 hr	1.517	0.144	0.841	0.216	0.102	0.132	
A2577	3588	3590	10	0.004	0.100	33:00 hr	1.678	0.188	0.813	0.226	0.112	0.169	
A256F	3590	3594	10	0.005	0.154	08:57 hr	2.069	0.220	0.921	0.264	0.153	0.211	
A2559	2966	3596	10	0.005	0.201	08:59 hr	2.229	0.252	0.921	0.303	0.199	0.242	
A2551	3598	2966	10	0.005	0.156	08:59 hr	2.068	0.222	0.916	0.267	0.156	0.212	
A2549	3594	3600	10	0.005	0.155	08:57 hr	2.058	0.222	0.912	0.266	0.155	0.212	
A2540	3600	3598	10	0.005	0.155	08:58 hr	2.070	0.221	0.919	0.265	0.154	0.212	
A1442	3622	3620	8	0.004	0.008	20:29 hr	0.839	0.060	0.735	0.089	0.017	0.051	
A143F	3624	3622	8	0.005	0.007	20:30 hr	0.838	0.054	0.770	0.081	0.014	0.048	
A1423	3626	3624	8	0.006	0.006	20:28 hr	0.874	0.048	0.852	0.072	0.011	0.045	
A1414	3628	3626	8	0.005	0.006	20:20 hr	0.774	0.048	0.761	0.071	0.010	0.041	
A13E9	3630	3628	8	0.005	0.004	20:15 hr	0.703	0.042	0.736	0.063	0.008	0.036	
A13C6	3632	3630	8	0.005	0.002	20:01 hr	0.629	0.031	0.764	0.047	0.004	0.027	
A13A8	3634	3632	8	0.010	0.001	20:00 hr	0.566	0.017	0.942	0.025	0.001	0.016	
A1386	3634	3636	8	0.010	0.001	20:00 hr	0.568	0.017	0.945	0.025	0.001	0.016	
A134F	3636	3638	8	0.008	0.003	20:01 hr	0.765	0.031	0.939	0.046	0.004	0.030	
A1347	3638	3640	8	0.004	0.004	20:14 hr	0.681	0.044	0.695	0.066	0.009	0.037	
A132D	3642	3640	8	0.016	0.002	20:00 hr	0.859	0.023	1.232	0.034	0.002	0.025	
A131B	3640	3644	8	0.005	0.007	20:15 hr	0.818	0.054	0.754	0.081	0.013	0.047	
A1310	3644	3646	8	0.004	0.008	20:29 hr	0.827	0.058	0.736	0.087	0.015	0.050	
A1301	3646	3648	8	0.004	0.009	20:28 hr	0.832	0.061	0.717	0.092	0.018	0.052	
A12E1	3650	3648	8	0.014	0.002	08:00 hr	0.817	0.023	1.169	0.034	0.002	0.025	
A12CE	3648	3620	8	0.003	0.012	44:45 hr	0.845	0.074	0.662	0.111	0.026	0.060	
A12C5	3620	3652	8	0.003	0.022	20:41 hr	1.037	0.099	0.701	0.148	0.047	0.082	
A12B7	3654	274	15	0.002	0.415	21:00 hr	2.036	0.380	0.685	0.304	0.201	0.313	
A12B0	3656	3654	15	0.002	0.414	21:00 hr	1.932	0.394	0.638	0.315	0.215	0.312	
A12A9	3658	3656	15	0.002	0.413	21:00 hr	1.843	0.407	0.598	0.326	0.230	0.312	
A12A2	3660	3658	15	0.002	0.413	21:00 hr	1.779	0.418	0.569	0.334	0.241	0.312	
A126A	3664	3662	8	0.004	0.001	20:00 hr	0.435	0.021	0.647	0.031	0.002	0.017	
A1248	3666	3662	8	0.026	0.001	20:00 hr	0.816	0.014	1.489	0.021	0.001	0.017	
A1241	3662	3668	8	0.011	0.003	20:14 hr	0.868	0.031	1.068	0.046	0.004	0.032	
A1222	3670	3668	8	0.020	0.002	20:00 hr	0.864	0.019	1.360	0.028	0.001	0.022	
A120B	3668	3672	8	0.006	0.006	20:15 hr	0.850	0.046	0.848	0.069	0.010	0.042	
A11E0	3672	3674	8	0.007	0.007	20:30 hr	0.929	0.049	0.902	0.073	0.011	0.046	
A11B1	3664	3676	8	0.013	0.002	20:00 hr	0.738	0.021	1.097	0.031	0.002	0.022	
A1196	3676	3678	8	0.008	0.003	20:00 hr	0.785	0.033	0.935	0.049	0.005	0.031	
A117B	3678	3680	8	0.007	0.004	20:14 hr	0.809	0.039	0.876	0.059	0.007	0.037	
A1170	3680	3682	8	0.007	0.005	20:20 hr	0.853	0.043	0.879	0.065	0.008	0.041	
A115C	3682	3684	8	0.007	0.006	20:25 hr	0.896	0.045	0.909	0.067	0.009	0.043	
A113F	350	3686	8	0.003	0.005	20:27 hr	0.651	0.048	0.637	0.072	0.010	0.038	
A10D2	3690	3688	8	0.003	0.011	20:31 hr	0.851	0.073	0.672	0.109	0.025	0.060	
A1099	3692	3690	8	0.003	0.002	20:02 hr	0.500	0.033	0.595	0.049	0.005	0.025	
A106E	3694	3690	8	0.003	0.007	20:26 hr	0.695	0.060	0.606	0.090	0.017	0.047	
A1067	3696	3694	8	0.004	0.005	20:15 hr	0.676	0.048	0.661	0.072	0.010	0.039	
A102D	3698	3696	8	0.003	0.002	20:02 hr	0.499	0.031	0.606	0.047	0.004	0.024	
A0FF7	3700	3702	8	0.003	0.002	20:02 hr	0.504	0.033	0.598	0.049	0.005	0.025	
A0FD2	3702	3704	8	0.004	0.004	20:16 hr	0.670	0.045	0.676	0.068	0.009	0.037	
A0FC7	354	3706	8	0.003	0.002	20:15 hr	0.504	0.034	0.586	0.051	0.005	0.026	
A0FB9	3706	3708	8	0.004	0.003	20:15 hr	0.580	0.035	0.670	0.052	0.005	0.028	
A0F88	3712	3710	8	0.004	0.025	20:25 hr	1.161	0.101	0.774	0.152	0.050	0.089	
A0F37	3714	3712	8	0.009	0.006	08:01 hr	0.984	0.043	1.023	0.064	0.008	0.043	
A0F1D	3716	3714	8	0.009	0.002	07:00 hr	0.741	0.028	0.948	0.042	0.003	0.028	
A0EFB	3720	3718	8	0.010	0.009	07:00 hr	1.169	0.051	1.108	0.076	0.012	0.054	

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
A0EEB	3718	3722	8	0.004	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
A0EBF	3718	3724	8	0.008	0.015	08:14 hr	1.255	0.067	1.037	0.100	0.021	0.068
A0E88	3724	3710	8	0.003	0.017	08:28 hr	0.959	0.087	0.690	0.131	0.037	0.073
A0E6D	3710	3726	8	0.003	0.042	20:41 hr	1.268	0.136	0.724	0.204	0.092	0.116
A0E4A	3726	3728	8	0.004	0.044	20:40 hr	1.346	0.135	0.771	0.203	0.090	0.119
A0E32	3728	792	8	0.004	0.046	20:43 hr	1.344	0.140	0.756	0.210	0.097	0.122
A0DF0	3730	800	8	0.004	0.030	20:15 hr	1.208	0.112	0.764	0.168	0.062	0.098
A0DDD	3732	3730	8	0.003	0.026	20:01 hr	1.100	0.109	0.706	0.163	0.058	0.091
A0D10	3736	3734	8	0.041	0.002	20:00 hr	1.259	0.019	1.961	0.029	0.002	0.027
A0D02	3738	3736	8	0.009	0.002	19:59 hr	0.673	0.023	0.959	0.034	0.002	0.022
A0CC4	3738	3740	8	0.009	0.002	20:01 hr	0.652	0.023	0.928	0.034	0.002	0.022
A0C8E	3740	3742	8	0.003	0.029	20:13 hr	1.127	0.115	0.704	0.172	0.064	0.096
A0C7F	3742	3744	8	0.007	0.034	20:15 hr	1.520	0.105	0.996	0.157	0.053	0.104
A0C74	3744	3746	8	0.033	0.035	20:28 hr	2.666	0.072	2.123	0.108	0.024	0.105
A08B5	3750	3748	10	0.001	0.187	20:47 hr	1.379	0.340	0.487	0.408	0.350	0.233
A089A	3748	3752	10	0.002	0.188	20:55 hr	1.651	0.299	0.623	0.359	0.276	0.234
A087B	3752	3754	10	0.003	0.189	20:58 hr	1.896	0.272	0.753	0.326	0.230	0.235
A0869	3754	3756	10	0.002	0.191	20:59 hr	1.577	0.313	0.582	0.375	0.299	0.235
A085A	3756	3758	10	0.002	0.191	20:59 hr	1.687	0.298	0.637	0.358	0.274	0.236
A0846	3760	3750	10	0.003	0.186	20:45 hr	1.732	0.287	0.668	0.344	0.255	0.233
A082D	3764	3762	8	0.004	0.001	20:01 hr	0.396	0.021	0.594	0.031	0.002	0.016
A0802	3762	3766	8	0.004	0.005	20:16 hr	0.690	0.050	0.663	0.075	0.011	0.040
A07DB	3766	3758	8	0.013	0.010	20:21 hr	1.320	0.050	1.259	0.076	0.012	0.057
A07C8	3758	3768	10	0.002	0.205	20:59 hr	1.619	0.323	0.587	0.388	0.318	0.244
A07B1	3768	3770	10	0.003	0.206	21:00 hr	1.739	0.309	0.646	0.370	0.292	0.245
A07A2	3770	3772	10	0.004	0.207	20:59 hr	2.070	0.272	0.821	0.327	0.231	0.246
A077F	3774	2274	8	0.005	0.025	07:29 hr	1.212	0.098	0.820	0.148	0.047	0.089
A0776	3776	2278	8	0.003	0.002	08:00 hr	0.482	0.031	0.591	0.046	0.004	0.024
A0761	3778	2410	8	0.004	0.008	08:00 hr	0.780	0.058	0.691	0.088	0.016	0.048
A075D	3780	2244	10	0.003	0.023	08:23 hr	0.927	0.104	0.613	0.124	0.033	0.081
A073B	794	3782	8	0.018	0.004	20:18 hr	1.143	0.031	1.387	0.047	0.004	0.037
A06F2	3786	3784	10	0.002	0.208	20:59 hr	1.630	0.326	0.589	0.391	0.324	0.247
A06EB	3784	3788	10	0.002	0.210	21:00 hr	1.630	0.327	0.588	0.393	0.326	0.247
A06E4	3788	3790	10	0.002	0.210	20:59 hr	1.641	0.326	0.592	0.391	0.324	0.247
A06DC	3794	3792	10	0.002	0.212	20:59 hr	1.660	0.326	0.600	0.391	0.323	0.249
A06D8	3790	3794	10	0.005	0.211	20:59 hr	2.274	0.258	0.928	0.310	0.208	0.248
A0672	3798	3796	8	0.004	0.001	20:01 hr	0.446	0.026	0.594	0.039	0.003	0.020
A0658	3800	3796	8	0.011	0.002	20:00 hr	0.793	0.027	1.048	0.040	0.003	0.027
A063D	3804	3802	8	0.020	0.003	20:00 hr	1.042	0.025	1.414	0.038	0.003	0.030
A0622	3796	3806	8	0.003	0.005	20:15 hr	0.630	0.048	0.616	0.072	0.010	0.038
A061B	3806	3802	8	0.004	0.005	20:26 hr	0.690	0.050	0.661	0.075	0.011	0.041
A05FC	3802	3808	8	0.003	0.009	20:29 hr	0.779	0.065	0.651	0.098	0.020	0.053
A05F5	3808	3734	8	0.004	0.010	20:30 hr	0.861	0.065	0.723	0.097	0.020	0.055
A05DD	3734	3810	8	0.003	0.013	20:30 hr	0.883	0.076	0.682	0.114	0.028	0.063
A05D2	3810	3812	8	0.003	0.014	20:43 hr	0.887	0.080	0.670	0.119	0.030	0.065
A05BB	3814	3812	8	0.058	0.001	20:00 hr	1.138	0.013	2.177	0.019	0.001	0.019
A05A0	3812	3746	8	0.004	0.015	20:42 hr	0.963	0.082	0.715	0.123	0.032	0.069
A0591	3746	3816	8	0.002	0.051	20:42 hr	1.147	0.168	0.586	0.252	0.139	0.128
A057D	3816	3818	8	0.003	0.052	20:43 hr	1.335	0.152	0.719	0.228	0.114	0.128
A055E	3818	3820	8	0.004	0.052	20:44 hr	1.424	0.147	0.782	0.220	0.106	0.129
A052B	3820	3822	8	0.006	0.056	20:44 hr	1.639	0.140	0.922	0.210	0.097	0.134
A0524	3822	3824	8	0.014	0.077	20:44 hr	2.500	0.130	1.464	0.195	0.083	0.158
A0501	3826	3822	8	0.004	0.010	20:15 hr	0.850	0.065	0.711	0.098	0.020	0.055
A04D7	3828	3826	8	0.004	0.004	20:01 hr	0.627	0.040	0.670	0.060	0.007	0.033
A0474	3832	3830	8	0.004	0.001	20:01 hr	0.417	0.023	0.594	0.034	0.002	0.018
A046B	3830	3834	8	0.003	0.003	20:15 hr	0.562	0.038	0.622	0.057	0.006	0.030
A0448	3834	3836	8	0.004	0.004	20:18 hr	0.658	0.045	0.666	0.067	0.009	0.037
A0425	3836	3838	8	0.003	0.006	20:29 hr	0.678	0.053	0.632	0.079	0.013	0.042
A03E6	3838	3840	8	0.004	0.007	20:31 hr	0.806	0.057	0.725	0.085	0.015	0.048
A03CF	3840	3792	8	0.038	0.009	20:36 hr	1.818	0.036	2.058	0.054	0.006	0.052
A039C	3792	3842	12	0.003	0.221	21:00 hr	1.823	0.289	0.706	0.289	0.182	0.241
A0369	3842	3824	12	0.002	0.224	21:00 hr	1.533	0.330	0.552	0.330	0.236	0.243
A033A	3824	3844	12	0.002	0.305	21:00 hr	1.878	0.357	0.649	0.357	0.273	0.285

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
A031A	3844	3846	12	0.002	0.307	20:59 hr	1.836	0.364	0.628	0.364	0.284	0.286
A0312	3846	3848	12	0.002	0.308	20:59 hr	1.732	0.382	0.578	0.382	0.309	0.286
A0304	3848	3850	12	0.004	0.309	21:00 hr	2.318	0.309	0.865	0.309	0.207	0.286
A0300	3852	2268	12	0.006	0.313	20:59 hr	2.572	0.289	0.995	0.289	0.182	0.288
A02FD	3854	3852	8	0.003	0.001	20:00 hr	0.311	0.017	0.522	0.025	0.001	0.012
A02EE	3850	3852	12	0.001	0.312	21:00 hr	1.438	0.443	0.447	0.443	0.405	0.288
A013F	3858	3856	8	0.003	0.009	20:15 hr	0.714	0.068	0.586	0.101	0.021	0.052
A0133	3860	3856	8	0.004	0.001	07:00 hr	0.360	0.016	0.608	0.024	0.001	0.013
A012C	3856	3862	8	0.003	0.009	20:30 hr	0.798	0.066	0.665	0.098	0.020	0.053
A0101	3862	3864	8	0.003	0.011	20:31 hr	0.827	0.071	0.663	0.106	0.024	0.058
A00EE	3864	3866	8	0.004	0.018	20:42 hr	1.034	0.087	0.748	0.130	0.036	0.075
A00DF	3866	3868	8	0.003	0.021	20:39 hr	1.020	0.097	0.697	0.145	0.045	0.080
A00C0	3868	3870	8	0.003	0.022	44:46 hr	1.042	0.098	0.706	0.147	0.047	0.082
A00AA	3872	3874	8	0.004	0.001	08:00 hr	0.401	0.020	0.608	0.030	0.002	0.016
A007F	3874	3876	8	0.003	0.002	08:03 hr	0.527	0.034	0.615	0.051	0.005	0.027
A0070	3876	3878	8	0.003	0.004	20:15 hr	0.616	0.044	0.631	0.066	0.009	0.035
A0069	3878	3870	8	0.004	0.004	20:24 hr	0.652	0.045	0.658	0.068	0.009	0.037
A005A	3870	3880	8	0.003	0.027	20:42 hr	1.095	0.110	0.700	0.165	0.059	0.092
A0053	3880	3882	8	0.002	0.028	20:44 hr	0.968	0.123	0.584	0.184	0.074	0.093
A0050	3884	3880	8	0.025	0.000	20:00 hr	0.595	0.009	1.342	0.014	0.000	0.011
A0042	3882	2272	8	0.004	0.028	20:44 hr	1.141	0.111	0.726	0.166	0.060	0.094
A0029	3886	3888	8	0.004	0.001	20:00 hr	0.372	0.020	0.570	0.030	0.002	0.015
A000A	3888	3890	8	0.004	0.002	20:16 hr	0.533	0.034	0.620	0.051	0.005	0.027
9FFFC	3894	3892	8	0.004	0.001	06:00 hr	0.335	0.016	0.565	0.025	0.001	0.012
9FFF1	3892	3896	8	0.004	0.001	08:05 hr	0.376	0.020	0.572	0.030	0.002	0.015
9FFDE	3896	3890	8	0.004	0.001	08:00 hr	0.439	0.024	0.609	0.036	0.002	0.019
9FFD7	3890	3898	8	0.003	0.005	20:16 hr	0.652	0.047	0.642	0.071	0.010	0.038
9FFBC	3900	3902	8	0.003	0.010	20:32 hr	0.776	0.070	0.624	0.106	0.023	0.056
9FFAD	3904	3900	8	0.004	0.009	20:30 hr	0.857	0.060	0.748	0.090	0.017	0.052
9FF92	3898	3904	8	0.004	0.007	08:15 hr	0.753	0.059	0.666	0.088	0.016	0.048
9FF82	3906	3898	8	0.003	0.002	08:00 hr	0.474	0.029	0.597	0.044	0.004	0.023
9FF73	3908	3906	8	0.003	0.001	07:00 hr	0.397	0.022	0.571	0.034	0.002	0.017
9FF60	3910	3908	8	0.003	0.000	06:00 hr	0.276	0.013	0.521	0.019	0.001	0.009
9FF45	3914	3912	8	0.004	0.000	06:01 hr	0.325	0.015	0.571	0.023	0.001	0.011
9FF3E	3912	3916	8	0.002	0.001	08:09 hr	0.347	0.026	0.460	0.039	0.003	0.018
9FF37	3916	3918	8	0.004	0.003	20:15 hr	0.603	0.041	0.640	0.061	0.007	0.033
9FF21	3922	3920	8	0.004	0.001	20:00 hr	0.372	0.019	0.587	0.028	0.001	0.014
9FF0E	3920	3924	8	0.004	0.002	20:14 hr	0.505	0.027	0.661	0.041	0.003	0.022
9FEEE	3924	3926	8	0.004	0.003	20:15 hr	0.603	0.037	0.669	0.056	0.006	0.031
9FEDB	3926	3918	8	0.005	0.005	20:30 hr	0.735	0.043	0.763	0.064	0.008	0.037
9FED4	3918	3928	8	0.004	0.009	20:30 hr	0.835	0.061	0.725	0.091	0.017	0.052
9FEDC	3928	3930	8	0.003	0.010	20:30 hr	0.820	0.068	0.673	0.102	0.022	0.055
9FEC6	3930	3932	8	0.007	0.019	20:29 hr	1.304	0.077	1.005	0.115	0.028	0.077
9FEBD	3902	2276	8	0.007	0.011	20:39 hr	1.059	0.060	0.927	0.089	0.017	0.057
9FEAB	3934	3936	8	0.004	0.036	20:44 hr	1.269	0.122	0.766	0.184	0.074	0.107
9FEA8	3936	2282	8	0.002	0.037	20:44 hr	0.900	0.157	0.476	0.236	0.122	0.108
9FE88	3938	3934	8	0.003	0.035	20:45 hr	1.159	0.128	0.685	0.192	0.080	0.105
9FE6D	3940	3938	8	0.004	0.033	20:40 hr	1.179	0.120	0.719	0.180	0.071	0.102
9FE62	3932	3940	8	0.004	0.028	20:30 hr	1.142	0.111	0.726	0.167	0.060	0.094
9F36A	3942	3858	8	0.003	0.009	20:00 hr	0.782	0.063	0.664	0.095	0.019	0.052
9F358	1836	3782	8	0.003	0.181	20:45 hr	1.882	0.295	0.717	0.442	0.403	0.245
9F355	3782	3760	10	0.004	0.186	20:45 hr	1.986	0.259	0.808	0.311	0.210	0.232
9F354	3772	3786	10	0.002	0.208	21:00 hr	1.668	0.320	0.609	0.383	0.312	0.246
9EC14	3944	792	8	0.003	0.042	20:01 hr	1.258	0.137	0.716	0.206	0.093	0.116
9E790	3946	3780	8	0.006	0.007	07:00 hr	0.911	0.049	0.886	0.073	0.011	0.046
9E78D	3948	3950	8	0.004	0.017	20:00 hr	1.000	0.086	0.726	0.129	0.036	0.073
9E78C	3950	3780	10	0.003	0.018	20:17 hr	0.856	0.090	0.610	0.108	0.024	0.070
9E767	3952	788	8	0.004	0.018	20:00 hr	0.994	0.089	0.710	0.133	0.038	0.075
9B6DB	2352	4652	30	0.051	12.026	09:59 hr	14.802	0.758	3.528	0.303	0.200	1.462
9B6CF	4652	4654	42	0.004	32.643	09:45 hr	7.658	2.268	1.096	0.648	0.753	2.221
9B6C5	4654	4656	42	0.005	32.641	09:45 hr	7.800	2.232	1.121	0.638	0.736	2.221
9B6B9	4656	598	36	0.003	10.323	09:45 hr	5.260	1.334	0.941	0.445	0.408	1.276
9B63E	4668	4666	12	0.003	0.019	07:00 hr	0.846	0.090	0.603	0.090	0.017	0.070

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
9B63D	4666	4670	15	0.001	0.816	12:45 hr	1.703	0.727	0.395	0.582	0.641	0.443
9B61A	4680	4678	12	0.002	0.479	08:28 hr	2.087	0.463	0.635	0.463	0.438	0.360
9B609	4682	4680	8	0.010	0.009	07:00 hr	1.132	0.049	1.094	0.074	0.011	0.051
9B606	4684	4680	8	0.010	0.009	07:00 hr	1.160	0.049	1.125	0.073	0.011	0.052
9B5F7	4686	4680	12	0.002	0.462	08:17 hr	1.758	0.514	0.511	0.514	0.524	0.353
9B5E9	4688	4686	8	0.008	0.025	07:00 hr	1.452	0.086	1.051	0.130	0.036	0.089
9B5E0	4690	4686	12	0.002	0.433	08:16 hr	2.055	0.433	0.645	0.433	0.389	0.341
9B5D3	4692	4690	10	0.002	0.427	08:15 hr	2.027	0.481	0.617	0.577	0.633	0.358
9B5CC	4696	4694	8	0.007	0.001	07:00 hr	0.596	0.023	0.847	0.034	0.002	0.021
9B595	4712	4710	8	0.005	0.007	07:01 hr	0.851	0.052	0.797	0.078	0.012	0.046
9B57D	4730	4710	8	0.003	0.015	07:02 hr	0.919	0.083	0.679	0.124	0.033	0.068
9B56E	4710	4732	8	0.004	0.029	07:15 hr	1.172	0.110	0.749	0.165	0.059	0.095
9B559	4746	4732	8	0.005	0.005	07:02 hr	0.770	0.045	0.773	0.068	0.009	0.040
9B54B	4732	4748	10	0.002	0.039	07:31 hr	1.060	0.134	0.612	0.161	0.056	0.105
9B540	4748	4694	10	0.004	0.042	07:44 hr	1.337	0.121	0.816	0.146	0.046	0.109
9A04F	4862	4860	8	0.032	0.002	07:00 hr	0.999	0.016	1.684	0.024	0.001	0.021
9A046	4864	4860	12	0.006	0.065	07:43 hr	1.651	0.131	0.970	0.131	0.037	0.129
9A03D	4860	4866	12	0.004	0.066	07:44 hr	1.497	0.142	0.843	0.142	0.044	0.130
9A02F	4870	4868	8	0.000	0.001	07:00 hr	0.058	0.103	0.038	0.155	0.052	0.020
9A02B	4872	4866	12	0.033	0.000	07:00 hr	0.000	0.000	0.000	0.000	0.000	0.010
9A022	4866	4874	12	0.002	0.067	07:44 hr	1.134	0.173	0.577	0.173	0.065	0.131
9A019	4874	4876	12	0.002	0.069	07:47 hr	1.155	0.175	0.585	0.175	0.067	0.133
9A00D	4876	4878	12	0.002	0.077	32:00 hr	1.274	0.176	0.643	0.176	0.068	0.141
9A004	4878	4868	12	0.002	0.079	07:59 hr	1.217	0.186	0.596	0.186	0.076	0.143
99FF1	9942	4880	12	0.005	0.096	08:00 hr	1.717	0.167	0.890	0.167	0.061	0.157
99FE8	4880	4882	12	0.002	0.105	08:01 hr	1.309	0.215	0.593	0.215	0.102	0.165
99FDE	4882	4884	12	0.002	0.113	08:02 hr	1.336	0.224	0.593	0.224	0.110	0.172
99FD5	4884	4886	12	0.003	0.122	08:15 hr	1.476	0.220	0.662	0.220	0.106	0.178
99FCC	4886	4888	12	0.002	0.130	08:17 hr	1.389	0.240	0.594	0.240	0.127	0.184
99FC3	4888	4890	12	0.002	0.134	08:17 hr	1.402	0.244	0.595	0.244	0.130	0.187
99FBA	4890	4892	12	0.002	0.140	08:31 hr	1.423	0.249	0.597	0.249	0.136	0.191
99FB1	4892	4894	12	0.002	0.148	08:32 hr	1.450	0.255	0.600	0.255	0.143	0.197
99FA8	4894	4896	12	0.002	0.159	08:41 hr	1.475	0.265	0.599	0.265	0.153	0.204
99F9F	4896	4898	12	0.002	0.169	08:47 hr	1.497	0.275	0.596	0.275	0.165	0.211
99F96	4898	4900	12	0.002	0.179	08:48 hr	1.523	0.282	0.597	0.282	0.174	0.217
99F8C	4900	4902	12	0.002	0.188	08:59 hr	1.624	0.279	0.641	0.279	0.170	0.222
99F83	4902	2060	12	0.002	0.194	09:00 hr	1.562	0.293	0.600	0.293	0.187	0.225
99F79	2060	4904	12	0.003	0.244	09:00 hr	1.853	0.306	0.695	0.306	0.203	0.254
974C7	5198	5196	12	0.008	0.139	08:43 hr	2.300	0.177	1.157	0.177	0.068	0.190
974C3	5196	5200	12	0.007	0.171	08:43 hr	2.346	0.201	1.104	0.201	0.088	0.211
974B9	5200	5202	12	0.007	0.231	08:45 hr	2.564	0.234	1.113	0.234	0.120	0.247
974B0	5202	5204	15	0.002	0.280	08:56 hr	1.696	0.327	0.620	0.262	0.150	0.256
974A7	5204	5206	15	0.002	0.297	08:51 hr	1.726	0.337	0.620	0.270	0.159	0.264
9749E	5206	5208	15	0.002	0.319	08:46 hr	1.761	0.349	0.621	0.279	0.170	0.273
97495	5208	2348	15	0.003	0.338	08:46 hr	1.977	0.335	0.713	0.268	0.157	0.281
97410	5212	5210	8	0.003	0.000	06:00 hr	0.247	0.012	0.491	0.018	0.001	0.008
9740C	5210	5214	8	0.004	0.000	06:14 hr	0.271	0.011	0.561	0.016	0.000	0.008
973E6	5218	5216	8	0.004	0.000	06:00 hr	0.254	0.009	0.569	0.014	0.000	0.007
973E2	5216	5220	8	0.002	0.000	07:00 hr	0.264	0.016	0.446	0.024	0.001	0.011
971FA	5222	5224	8	0.004	0.004	08:16 hr	0.670	0.044	0.684	0.066	0.009	0.036
971F7	5226	5222	8	0.022	0.004	08:13 hr	1.198	0.029	1.513	0.043	0.004	0.036
971D8	5228	5230	8	0.011	0.003	20:14 hr	0.874	0.030	1.089	0.045	0.004	0.031
971D5	5230	5232	8	0.001	0.003	20:15 hr	0.404	0.050	0.387	0.075	0.011	0.031
971D2	5232	5226	8	0.004	0.004	20:25 hr	0.675	0.041	0.717	0.061	0.007	0.035
971AC	5234	5226	8	0.009	0.001	06:28 hr	0.479	0.015	0.853	0.022	0.001	0.014
971A9	5236	5234	8	0.003	0.001	06:42 hr	0.307	0.017	0.508	0.025	0.001	0.012
971A6	5238	5236	8	0.012	0.001	06:29 hr	0.504	0.012	0.987	0.018	0.001	0.012
97180	5242	5240	8	0.004	0.001	20:00 hr	0.361	0.016	0.614	0.024	0.001	0.013
9715C	5240	5244	8	0.006	0.001	20:14 hr	0.544	0.022	0.784	0.033	0.002	0.020
97159	5244	5228	8	0.016	0.002	20:19 hr	0.839	0.021	1.234	0.032	0.002	0.024
97144	5246	5228	8	0.003	0.001	20:13 hr	0.367	0.023	0.515	0.035	0.002	0.017
97132	5248	5246	8	0.004	0.000	20:00 hr	0.298	0.013	0.556	0.020	0.001	0.010
9710D	5250	5238	8	0.002	0.001	06:16 hr	0.281	0.018	0.455	0.027	0.001	0.012

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
970F2	5252	5250	8	0.005	0.000	06:14 hr	0.321	0.013	0.618	0.019	0.001	0.010
970D2	5254	5252	8	0.004	0.000	06:01 hr	0.230	0.009	0.515	0.014	0.000	0.007
970A5	5256	5258	8	0.003	0.003	20:15 hr	0.547	0.036	0.621	0.054	0.006	0.028
97081	5260	5256	8	0.008	0.001	20:01 hr	0.603	0.022	0.875	0.033	0.002	0.021
97052	5264	5262	8	0.006	0.000	20:00 hr	0.371	0.014	0.687	0.020	0.001	0.011
9704A	5262	5266	8	0.003	0.001	20:15 hr	0.364	0.024	0.502	0.037	0.003	0.017
97028	5266	5268	8	0.004	0.002	20:14 hr	0.487	0.028	0.625	0.042	0.003	0.022
97025	5268	5270	8	0.004	0.002	20:15 hr	0.538	0.034	0.629	0.051	0.005	0.027
96FD8	5270	5272	8	0.003	0.004	20:16 hr	0.568	0.043	0.586	0.065	0.008	0.033
96F92	5274	5276	8	0.004	0.073	08:45 hr	1.619	0.169	0.823	0.254	0.141	0.153
96F5A	5278	5274	8	0.003	0.072	08:46 hr	1.456	0.180	0.716	0.270	0.159	0.152
96F57	5280	5278	8	0.006	0.070	08:45 hr	1.820	0.152	0.981	0.228	0.114	0.150
96F35	5284	5282	8	0.003	0.002	20:01 hr	0.511	0.033	0.605	0.049	0.005	0.026
96F29	5282	5272	8	0.011	0.003	20:15 hr	0.890	0.031	1.095	0.046	0.004	0.032
96F0C	5272	5286	8	0.004	0.008	20:27 hr	0.821	0.059	0.725	0.088	0.016	0.050
96EEF	5286	5280	8	0.004	0.070	08:45 hr	1.504	0.173	0.757	0.259	0.147	0.150
96EDD	1762	5286	8	0.003	0.062	08:45 hr	1.266	0.180	0.623	0.270	0.159	0.141
6579A	6200	570	8	0.008	0.007	08:24 hr	0.991	0.049	0.962	0.073	0.011	0.048
65797	6202	6200	8	0.007	0.005	08:16 hr	0.873	0.043	0.907	0.064	0.008	0.041
65794	6204	6202	8	0.008	0.003	08:10 hr	0.807	0.033	0.951	0.050	0.005	0.032
65791	6206	6204	8	0.008	0.002	06:00 hr	0.640	0.025	0.874	0.037	0.003	0.023
6576B	6208	6210	8	0.005	0.015	08:25 hr	1.074	0.074	0.843	0.111	0.026	0.068
65758	6212	6208	8	0.004	0.012	08:30 hr	0.901	0.074	0.707	0.111	0.026	0.062
65740	6214	6212	8	0.004	0.009	08:14 hr	0.848	0.062	0.727	0.093	0.018	0.053
65721	6216	6214	8	0.004	0.005	20:02 hr	0.673	0.049	0.651	0.073	0.011	0.039
656CC	6218	6220	8	0.003	0.014	08:26 hr	0.886	0.081	0.664	0.121	0.031	0.066
656C9	6222	6218	8	0.003	0.010	08:15 hr	0.766	0.070	0.619	0.105	0.023	0.055
656C6	6224	6222	8	0.003	0.005	20:03 hr	0.612	0.053	0.569	0.079	0.013	0.040
6569E	6226	6228	8	0.003	0.014	08:32 hr	0.853	0.084	0.627	0.126	0.034	0.066
65685	6230	6226	8	0.003	0.010	08:15 hr	0.745	0.071	0.596	0.107	0.024	0.055
65667	6232	6230	8	0.003	0.005	08:02 hr	0.606	0.053	0.563	0.080	0.013	0.040
65612	6234	6236	8	0.003	0.007	08:14 hr	0.718	0.061	0.622	0.091	0.017	0.048
6560F	6238	6234	8	0.003	0.003	20:02 hr	0.518	0.039	0.565	0.058	0.007	0.029
6560C	6236	2292	8	0.003	0.012	08:17 hr	0.860	0.074	0.672	0.112	0.026	0.061
655DF	6240	2296	8	0.003	0.011	08:30 hr	0.842	0.073	0.664	0.110	0.025	0.060
655C4	6242	6240	8	0.003	0.007	08:15 hr	0.683	0.060	0.599	0.089	0.016	0.046
655A9	6244	6242	8	0.003	0.002	20:02 hr	0.496	0.035	0.567	0.053	0.005	0.026
6558D	6246	2336	8	0.045	0.012	08:28 hr	2.157	0.041	2.280	0.062	0.008	0.062
6557A	6248	6246	8	0.003	0.011	08:16 hr	0.822	0.071	0.657	0.107	0.024	0.058
65556	6250	6248	8	0.002	0.007	08:15 hr	0.639	0.061	0.554	0.091	0.017	0.045
65536	6252	6250	8	0.003	0.002	20:02 hr	0.487	0.035	0.563	0.052	0.005	0.026
64EF0	6260	6258	8	0.000	0.016	07:00 hr	0.117	0.393	0.040	0.590	0.654	0.071
64ECD	6268	6266	8	0.000	0.010	07:00 hr	0.104	0.298	0.040	0.447	0.412	0.056
64EBD	6272	6270	8	0.004	0.051	07:00 hr	1.344	0.149	0.731	0.224	0.110	0.127
64EBB	6274	6270	6	0.005	0.015	07:00 hr	1.127	0.082	0.831	0.165	0.059	0.075
64EB7	6270	6276	8	0.003	0.068	07:16 hr	1.452	0.174	0.727	0.261	0.149	0.148
64EA3	6278	6276	6	0.005	0.006	07:00 hr	0.853	0.054	0.783	0.108	0.025	0.048
64EA2	6280	6276	6	0.005	0.009	07:00 hr	0.963	0.066	0.800	0.131	0.037	0.059
64E9D	6276	6282	8	0.003	0.084	07:32 hr	1.544	0.194	0.729	0.291	0.185	0.165
64E8F	6284	6282	6	0.005	0.005	07:00 hr	0.815	0.050	0.776	0.100	0.021	0.044
64E88	6286	6282	6	0.005	0.014	07:00 hr	1.072	0.078	0.814	0.156	0.053	0.070
64E85	6282	6288	8	0.003	0.104	07:46 hr	1.640	0.216	0.730	0.324	0.227	0.184
64E78	6290	6288	6	0.005	0.005	07:00 hr	0.777	0.047	0.769	0.093	0.018	0.041
64E71	6292	6288	6	0.005	0.010	07:00 hr	0.988	0.068	0.804	0.137	0.040	0.061
64E6E	6288	6294	8	0.004	0.119	07:46 hr	1.791	0.224	0.782	0.336	0.244	0.197
64E64	6294	6296	8	0.005	0.171	07:47 hr	2.164	0.255	0.885	0.382	0.309	0.238
64E5B	6296	6298	8	0.005	0.186	07:59 hr	2.244	0.263	0.903	0.394	0.328	0.248
64E51	6298	6300	8	0.005	0.201	08:01 hr	2.291	0.275	0.902	0.412	0.356	0.258
64E44	6304	6302	6	0.012	0.004	07:00 hr	1.038	0.036	1.170	0.072	0.011	0.039
64E3D	6306	6302	6	0.008	0.006	07:00 hr	0.983	0.045	0.986	0.091	0.017	0.045
64E3A	6300	6302	10	0.003	0.341	08:00 hr	2.012	0.404	0.657	0.484	0.474	0.318
64E37	6302	6308	10	0.002	0.351	08:01 hr	1.934	0.426	0.617	0.512	0.520	0.323
64E1C	1982	6308	6	0.012	0.024	07:40 hr	1.697	0.084	1.241	0.168	0.061	0.094

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
64E15	6310	6308	6	0.011	0.010	07:00 hr	1.264	0.054	1.156	0.109	0.025	0.059
64E12	6308	6312	10	0.002	0.385	08:02 hr	2.026	0.442	0.637	0.530	0.552	0.339
64E05	1968	6312	8	0.008	0.024	07:42 hr	1.435	0.085	1.046	0.128	0.035	0.087
64DFD	6314	6312	6	0.006	0.011	07:00 hr	1.067	0.066	0.884	0.132	0.037	0.062
64DF9	6312	4692	10	0.002	0.420	08:04 hr	2.039	0.472	0.625	0.566	0.613	0.354
64D6B	6316	6300	8	0.003	0.066	07:59 hr	1.384	0.175	0.690	0.263	0.152	0.145
64D5F	6318	6316	8	0.004	0.002	07:00 hr	0.557	0.030	0.687	0.045	0.004	0.025
64D5C	6320	6316	8	0.004	0.004	07:00 hr	0.647	0.040	0.692	0.060	0.007	0.033
64D58	6322	6316	8	0.004	0.060	08:00 hr	1.436	0.160	0.754	0.239	0.126	0.138
64D47	6324	6322	8	0.004	0.002	07:00 hr	0.542	0.035	0.626	0.052	0.005	0.027
64D44	6326	6322	8	0.006	0.005	07:00 hr	0.813	0.045	0.822	0.067	0.009	0.041
64D40	6328	6322	8	0.003	0.051	08:00 hr	1.328	0.152	0.715	0.228	0.114	0.128
64D30	6330	6328	8	0.003	0.004	07:00 hr	0.625	0.046	0.624	0.069	0.010	0.036
64D2D	6332	6328	8	0.005	0.002	07:00 hr	0.565	0.030	0.698	0.045	0.004	0.025
64D2A	6334	6328	8	0.004	0.045	31:58 hr	1.331	0.138	0.756	0.207	0.093	0.119
64D17	6336	6334	8	0.002	0.004	07:00 hr	0.513	0.048	0.501	0.072	0.011	0.034
64D16	6338	6334	8	0.024	0.002	07:00 hr	0.932	0.018	1.487	0.027	0.001	0.022
64D11	6340	6334	8	0.003	0.039	07:45 hr	1.201	0.135	0.690	0.202	0.089	0.111
64CC2	6342	6340	8	0.027	0.005	07:00 hr	1.369	0.031	1.684	0.046	0.004	0.040
64CBF	6344	6340	8	0.019	0.002	07:00 hr	0.929	0.021	1.365	0.032	0.002	0.025
64CBA	6346	6340	8	0.003	0.032	07:45 hr	1.143	0.120	0.697	0.180	0.071	0.100
64CA1	6348	6346	8	0.009	0.004	07:00 hr	0.835	0.034	0.979	0.050	0.005	0.033
64C9E	6350	6346	8	0.006	0.003	07:00 hr	0.666	0.032	0.800	0.048	0.004	0.029
64C99	6352	6346	8	0.004	0.025	07:39 hr	1.092	0.105	0.713	0.158	0.054	0.089
64C88	6356	6354	8	0.019	0.003	07:00 hr	1.078	0.027	1.407	0.041	0.003	0.032
64C85	6358	6354	8	0.025	0.003	07:00 hr	1.179	0.026	1.585	0.038	0.003	0.032
64C4E	6370	6368	8	0.002	0.003	07:00 hr	0.424	0.047	0.421	0.070	0.010	0.030
64C40	6374	6372	8	0.002	0.002	07:00 hr	0.391	0.036	0.445	0.054	0.006	0.024
64C3D	2044	6372	8	0.001	0.016	07:29 hr	0.699	0.106	0.455	0.159	0.055	0.071
64C32	6378	6376	8	0.004	0.002	07:00 hr	0.563	0.033	0.670	0.049	0.005	0.027
64C2F	6380	6376	8	0.004	0.004	07:00 hr	0.669	0.044	0.683	0.066	0.009	0.036
64C2C	6354	6352	8	0.003	0.022	07:30 hr	1.003	0.101	0.670	0.151	0.049	0.082
64C29	6382	6354	8	0.003	0.014	07:15 hr	0.922	0.081	0.690	0.122	0.031	0.067
64C26	6384	6382	8	0.004	0.008	07:01 hr	0.784	0.061	0.679	0.092	0.017	0.050
64C01	6390	6368	8	0.004	0.008	07:01 hr	0.827	0.059	0.726	0.089	0.016	0.050
64BF2	6368	6372	8	0.003	0.018	07:15 hr	0.965	0.093	0.672	0.140	0.042	0.076
64BCA	6376	6294	8	0.004	0.044	07:42 hr	1.335	0.135	0.765	0.203	0.090	0.118
64BC7	6372	6376	8	0.003	0.037	07:30 hr	1.201	0.129	0.706	0.194	0.082	0.108
64B1F	6394	6392	8	0.003	0.000	20:00 hr	0.290	0.015	0.520	0.022	0.001	0.010
64AF2	6392	6396	8	0.003	0.001	20:14 hr	0.389	0.022	0.566	0.033	0.002	0.016
64ADD	6400	6398	8	0.003	0.001	20:01 hr	0.388	0.021	0.570	0.032	0.002	0.016
64AB5	6398	6402	8	0.003	0.002	20:15 hr	0.518	0.034	0.604	0.051	0.005	0.026
64AAB	6396	6402	8	0.002	0.038	07:58 hr	0.944	0.156	0.501	0.234	0.120	0.110
64AA1	6402	6404	8	0.003	0.043	08:01 hr	1.259	0.139	0.712	0.208	0.095	0.117
64A94	6404	6406	8	0.003	0.044	08:00 hr	1.267	0.140	0.713	0.210	0.097	0.118
64A7F	6408	6406	8	0.004	0.001	20:01 hr	0.382	0.020	0.582	0.030	0.002	0.015
64A73	6406	6410	8	0.005	0.045	08:12 hr	1.430	0.131	0.833	0.197	0.085	0.120
64A5E	6414	6412	8	0.004	0.001	20:00 hr	0.399	0.021	0.588	0.032	0.002	0.016
64A2C	6412	6416	8	0.004	0.003	20:15 hr	0.565	0.036	0.641	0.054	0.006	0.029
64A13	6416	6418	8	0.003	0.025	20:42 hr	1.023	0.109	0.655	0.164	0.059	0.088
64A0B	6418	6420	8	0.004	0.025	20:44 hr	1.108	0.105	0.724	0.158	0.054	0.089
6475F	6422	6424	8	0.004	0.010	08:17 hr	0.872	0.064	0.738	0.096	0.019	0.055
6471F	6426	6428	8	0.003	0.001	07:56 hr	0.421	0.025	0.574	0.037	0.003	0.019
6471C	6426	6430	8	0.003	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
646FC	6428	6432	8	0.004	0.002	08:01 hr	0.493	0.030	0.614	0.045	0.004	0.023
646D0	6432	6434	8	0.003	0.002	08:00 hr	0.535	0.035	0.613	0.053	0.005	0.028
646CD	6434	6436	8	0.003	0.003	08:11 hr	0.583	0.040	0.624	0.060	0.007	0.032
646A5	6436	6422	8	0.004	0.004	08:12 hr	0.681	0.045	0.690	0.067	0.009	0.037
64664	6438	6422	8	0.004	0.004	08:13 hr	0.638	0.044	0.656	0.065	0.009	0.035
64661	6440	6438	8	0.004	0.003	08:09 hr	0.609	0.035	0.697	0.053	0.005	0.029
6462E	6430	6442	8	0.003	0.001	08:00 hr	0.457	0.027	0.594	0.041	0.003	0.021
64611	6442	6440	8	0.003	0.002	08:10 hr	0.508	0.032	0.611	0.048	0.004	0.025
645E0	3596	6444	10	0.008	0.202	09:00 hr	2.570	0.229	1.120	0.275	0.165	0.243

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
645AD	6444	6446	10	0.004	0.209	08:58 hr	2.137	0.267	0.856	0.321	0.223	0.247	
6457D	6448	6446	8	0.008	0.013	08:24 hr	1.204	0.062	1.032	0.093	0.018	0.063	
6456A	6424	6448	8	0.006	0.012	08:29 hr	1.036	0.064	0.873	0.096	0.019	0.060	
64556	6450	6424	8	0.007	0.001	20:00 hr	0.574	0.021	0.846	0.032	0.002	0.020	
64526	6450	6452	8	0.003	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000	
644F9	6452	6454	8	0.003	0.002	20:01 hr	0.469	0.029	0.589	0.044	0.004	0.022	
644E0	6446	6456	10	0.006	0.223	08:54 hr	2.461	0.253	1.015	0.304	0.201	0.255	
644CA	6456	6458	10	0.005	0.248	08:58 hr	2.321	0.285	0.898	0.342	0.252	0.269	
644A0	6458	6460	10	0.006	0.252	08:57 hr	2.581	0.268	1.033	0.321	0.223	0.272	
6447C	6462	6460	8	0.011	0.011	08:28 hr	1.280	0.054	1.180	0.081	0.013	0.059	
64455	6464	6462	8	0.005	0.007	08:15 hr	0.840	0.054	0.771	0.082	0.014	0.048	
6440F	6466	6464	8	0.004	0.005	08:15 hr	0.695	0.045	0.705	0.067	0.009	0.037	
64406	6468	6466	8	0.003	0.003	08:15 hr	0.585	0.042	0.613	0.063	0.008	0.033	
643E6	6454	6468	8	0.004	0.003	08:10 hr	0.557	0.036	0.628	0.054	0.006	0.029	
643AB	6460	6470	10	0.009	0.266	08:58 hr	2.912	0.255	1.196	0.306	0.204	0.280	
63DEC	6470	6472	10	0.008	0.275	08:59 hr	2.895	0.262	1.172	0.314	0.214	0.284	
63DDE	6472	3066	30	0.008	7.992	34:00 hr	6.596	1.017	1.349	0.407	0.347	1.180	
63DB6	6474	6476	10	0.007	0.145	20:45 hr	2.284	0.197	1.080	0.236	0.122	0.205	
63DB2	6480	6478	15	0.002	0.187	44:59 hr	1.529	0.265	0.626	0.212	0.098	0.208	
63DAE	6482	6484	15	0.006	0.169	20:45 hr	2.097	0.198	1.000	0.158	0.054	0.198	
63DAB	6484	6486	15	0.002	0.169	20:45 hr	1.521	0.247	0.646	0.198	0.086	0.198	
63D9F	6486	6488	15	0.003	0.169	20:45 hr	1.613	0.238	0.699	0.190	0.079	0.198	
63D95	6488	1756	15	0.002	0.170	44:47 hr	1.424	0.259	0.589	0.208	0.094	0.198	
63D8C	1756	6490	15	0.001	0.185	44:47 hr	1.308	0.293	0.507	0.235	0.121	0.207	
63D83	6490	6480	15	0.002	0.187	44:58 hr	1.483	0.270	0.601	0.216	0.102	0.208	
63D73	6478	6492	15	0.002	0.187	45:00 hr	1.543	0.263	0.633	0.210	0.097	0.208	
63D6B	6494	6474	10	0.002	0.145	20:45 hr	1.486	0.267	0.595	0.320	0.222	0.204	
63D5E	6476	6496	10	0.002	0.145	20:45 hr	1.332	0.290	0.511	0.348	0.260	0.205	
63D55	6496	6498	10	0.005	0.146	20:45 hr	1.947	0.221	0.865	0.265	0.154	0.205	
63D4B	6500	6498	15	0.004	0.302	44:59 hr	2.251	0.282	0.890	0.226	0.112	0.266	
63D42	6498	6502	15	0.002	0.448	45:00 hr	1.787	0.442	0.555	0.353	0.268	0.325	
63D39	6502	6504	15	0.001	0.448	45:00 hr	1.689	0.461	0.514	0.368	0.290	0.325	
63D30	6504	6506	15	0.002	0.449	45:00 hr	1.894	0.424	0.601	0.339	0.247	0.326	
63D24	3704	6506	8	0.000	0.005	20:30 hr	0.085	0.201	0.040	0.302	0.198	0.039	
63D21	6506	6508	15	0.001	0.454	45:00 hr	1.713	0.460	0.521	0.368	0.289	0.327	
63D15	3708	6508	8	0.000	0.003	20:15 hr	0.071	0.145	0.039	0.218	0.104	0.028	
63D12	6508	6510	15	0.001	0.456	45:00 hr	1.604	0.485	0.475	0.388	0.319	0.328	
63D06	6510	6512	15	0.001	0.457	45:00 hr	1.594	0.488	0.470	0.391	0.323	0.329	
63CFC	6512	6514	15	0.001	0.470	45:00 hr	1.714	0.472	0.515	0.377	0.303	0.333	
63CF5	3688	6512	8	0.000	0.012	20:45 hr	0.109	0.330	0.040	0.496	0.493	0.062	
63CEB	6514	6516	15	0.002	0.471	45:00 hr	1.905	0.438	0.595	0.350	0.263	0.334	
63CDE	3686	6518	8	0.004	0.005	20:28 hr	0.694	0.046	0.694	0.069	0.010	0.038	
63CDB	6516	6518	15	0.002	0.471	45:00 hr	1.870	0.444	0.580	0.355	0.270	0.334	
63CD2	6518	6520	15	0.002	0.476	45:00 hr	1.785	0.462	0.542	0.370	0.291	0.336	
63CC8	6520	6522	15	0.002	0.476	45:00 hr	1.834	0.453	0.562	0.362	0.281	0.336	
63CB2	3684	6524	8	0.000	0.006	20:30 hr	0.090	0.220	0.040	0.330	0.235	0.043	
63CAF	6522	6524	15	0.002	0.498	21:00 hr	1.896	0.458	0.578	0.366	0.286	0.344	
63CA5	6524	3674	15	0.002	0.504	21:00 hr	2.027	0.439	0.631	0.351	0.265	0.346	
63CA2	3674	3660	15	0.001	0.511	21:00 hr	1.695	0.507	0.491	0.405	0.345	0.348	
63C87	3660	6526	15	0.001	0.098	21:01 hr	1.060	0.218	0.481	0.174	0.066	0.150	
63C7C	6526	6528	15	0.001	0.099	21:02 hr	0.954	0.235	0.415	0.188	0.078	0.151	
63C73	6528	2332	15	0.001	0.099	21:02 hr	0.954	0.236	0.414	0.189	0.078	0.151	
632BF	6532	6530	8	0.005	0.015	20:00 hr	1.064	0.076	0.823	0.114	0.027	0.069	
632BC	6530	6534	8	0.002	0.017	20:16 hr	0.832	0.095	0.573	0.143	0.044	0.072	
632AD	6534	6536	8	0.005	0.061	20:30 hr	1.584	0.151	0.856	0.227	0.113	0.140	
63275	6536	6538	8	0.003	0.062	20:45 hr	1.325	0.174	0.664	0.261	0.149	0.141	
63272	6538	6540	8	0.004	0.064	20:44 hr	1.511	0.162	0.788	0.242	0.129	0.143	
6323C	6544	6542	8	0.004	0.002	07:52 hr	0.486	0.028	0.630	0.041	0.003	0.022	
63239	6542	6546	8	0.005	0.005	07:00 hr	0.733	0.045	0.743	0.067	0.009	0.039	
63209	6546	6548	8	0.004	0.022	08:07 hr	1.048	0.099	0.707	0.148	0.048	0.083	
631EB	6548	6550	8	0.004	0.041	20:27 hr	1.279	0.132	0.742	0.198	0.086	0.114	
631E8	6550	6534	8	0.004	0.043	20:30 hr	1.289	0.137	0.733	0.206	0.093	0.117	
631A3	6544	6552	8	0.008	0.002	07:52 hr	0.692	0.028	0.897	0.041	0.003	0.026	

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
6318D	6552	6554	8	0.004	0.004	08:01 hr	0.652	0.044	0.665	0.066	0.009	0.036
63147	6554	6556	8	0.007	0.005	08:11 hr	0.859	0.042	0.899	0.063	0.008	0.040
63144	6556	6540	8	0.005	0.007	08:13 hr	0.835	0.051	0.794	0.076	0.012	0.045
63132	6540	6558	8	0.003	0.073	20:45 hr	1.452	0.182	0.710	0.273	0.163	0.153
63116	6562	6560	8	0.004	0.023	08:01 hr	1.071	0.101	0.716	0.151	0.049	0.085
630B3	6560	6564	8	0.004	0.029	20:17 hr	1.156	0.113	0.727	0.170	0.063	0.096
630B0	6564	6566	8	0.003	0.031	20:30 hr	1.137	0.119	0.698	0.178	0.069	0.099
6307E	6566	6568	8	0.003	0.032	20:37 hr	1.145	0.122	0.692	0.183	0.073	0.101
63075	6568	6570	8	0.005	0.034	20:43 hr	1.341	0.113	0.845	0.169	0.062	0.104
63072	6570	6572	8	0.002	0.035	20:43 hr	1.048	0.136	0.598	0.204	0.092	0.105
6304B	6574	6562	8	0.005	0.004	08:00 hr	0.695	0.039	0.760	0.058	0.007	0.034
6301F	6574	6576	8	0.004	0.003	07:57 hr	0.623	0.039	0.682	0.058	0.007	0.032
62FDE	6576	6578	8	0.002	0.005	08:02 hr	0.596	0.055	0.545	0.082	0.014	0.040
62FBF	6578	6580	8	0.007	0.007	20:15 hr	0.921	0.048	0.898	0.073	0.011	0.046
62F5A	6580	6558	8	0.003	0.008	20:31 hr	0.769	0.062	0.658	0.094	0.018	0.051
62F57	6558	6582	8	0.003	0.082	20:45 hr	1.510	0.194	0.713	0.291	0.184	0.163
62F54	6582	6584	8	0.004	0.084	20:45 hr	1.567	0.191	0.745	0.287	0.180	0.165
62EFF	6588	6586	8	0.004	0.003	20:01 hr	0.601	0.039	0.656	0.058	0.007	0.031
62EFC	6586	6590	8	0.008	0.005	20:15 hr	0.883	0.038	0.976	0.056	0.006	0.037
62EF9	6590	6592	8	0.040	0.005	20:15 hr	1.570	0.027	2.044	0.041	0.003	0.039
62EA7	6594	6584	8	0.044	0.001	20:00 hr	1.072	0.014	1.937	0.021	0.001	0.020
62EA4	6584	6572	8	0.003	0.086	20:45 hr	1.556	0.196	0.730	0.294	0.189	0.167
62E80	6572	6592	8	0.003	0.122	20:45 hr	1.668	0.241	0.702	0.361	0.279	0.200
62DFE	6592	6596	8	0.005	0.128	20:45 hr	1.919	0.224	0.837	0.337	0.244	0.205
62DF5	6596	6494	8	0.006	0.128	20:45 hr	2.186	0.204	1.003	0.307	0.204	0.205
62DA1	6600	6598	8	0.003	0.013	20:00 hr	0.882	0.076	0.684	0.114	0.027	0.063
62D9D	6598	6602	8	0.003	0.015	20:17 hr	0.850	0.087	0.615	0.130	0.036	0.068
62D8C	6602	6604	8	0.005	0.016	20:30 hr	1.077	0.078	0.821	0.117	0.029	0.071
62D82	6604	6494	8	0.008	0.017	20:29 hr	1.302	0.070	1.047	0.106	0.023	0.072
62D64	6608	6606	8	0.003	0.001	20:00 hr	0.373	0.020	0.562	0.031	0.002	0.015
62C61	6612	6610	8	0.004	0.017	20:16 hr	1.026	0.085	0.748	0.128	0.035	0.074
62C5E	6610	6614	8	0.003	0.019	20:29 hr	0.996	0.093	0.696	0.139	0.042	0.077
62C5B	6614	6616	8	0.005	0.020	20:30 hr	1.141	0.089	0.814	0.133	0.038	0.080
62C58	6616	6618	8	0.046	0.021	20:41 hr	2.544	0.052	2.381	0.079	0.013	0.081
62C57	3722	6612	8	0.001	0.005	20:03 hr	0.454	0.062	0.389	0.093	0.018	0.039
62C35	6622	6620	8	0.003	0.010	20:00 hr	0.813	0.067	0.670	0.101	0.021	0.055
62C32	6620	6624	8	0.004	0.014	20:15 hr	0.922	0.079	0.699	0.118	0.030	0.066
62C2F	6624	6626	8	0.004	0.015	20:28 hr	0.946	0.082	0.705	0.122	0.032	0.068
62C2C	6626	6618	8	0.003	0.016	20:31 hr	0.955	0.086	0.692	0.129	0.036	0.072
58209	6606	6628	8	0.004	0.002	08:01 hr	0.475	0.028	0.609	0.042	0.003	0.022
58206	6628	6630	8	0.004	0.003	08:13 hr	0.578	0.037	0.644	0.056	0.006	0.030
581EC	6634	6632	8	0.003	0.001	20:00 hr	0.409	0.024	0.568	0.036	0.002	0.018
581A2	6632	6636	8	0.003	0.002	20:15 hr	0.497	0.032	0.597	0.048	0.004	0.025
5819F	6636	6638	8	0.008	0.003	20:21 hr	0.766	0.032	0.928	0.047	0.004	0.030
5819C	6638	6630	8	0.047	0.003	20:28 hr	1.473	0.022	2.136	0.033	0.002	0.032
5817A	790	6618	8	0.004	0.124	20:45 hr	1.753	0.234	0.749	0.351	0.264	0.201
58176	6618	6630	12	0.003	0.162	20:45 hr	1.744	0.238	0.749	0.238	0.124	0.206
5816B	6630	6482	15	0.003	0.169	20:45 hr	1.610	0.237	0.698	0.190	0.079	0.197
58154	6642	6640	8	0.006	0.001	20:01 hr	0.407	0.015	0.713	0.023	0.001	0.013
580FD	6642	6644	8	0.009	0.001	19:57 hr	0.499	0.015	0.879	0.022	0.001	0.014
580FA	6644	6646	8	0.003	0.002	20:01 hr	0.475	0.029	0.598	0.044	0.004	0.023
580F7	6646	6648	8	0.003	0.003	20:16 hr	0.558	0.042	0.582	0.063	0.008	0.032
580E1	6648	6650	8	0.004	0.005	20:30 hr	0.729	0.047	0.720	0.070	0.010	0.040
580DE	6650	6652	8	0.003	0.006	20:26 hr	0.691	0.055	0.628	0.083	0.014	0.044
580BF	6652	760	8	0.003	0.007	20:29 hr	0.753	0.059	0.661	0.089	0.016	0.048
58064	6640	6654	8	0.003	0.002	20:00 hr	0.456	0.031	0.559	0.046	0.004	0.023
58061	6654	6656	8	0.004	0.004	20:17 hr	0.616	0.041	0.655	0.061	0.007	0.033
58051	6656	6658	8	0.003	0.005	20:25 hr	0.675	0.050	0.646	0.075	0.011	0.040
5804E	6658	760	8	0.004	0.007	20:28 hr	0.742	0.056	0.673	0.083	0.014	0.046
57FE5	6662	6660	8	0.008	0.001	19:59 hr	0.511	0.017	0.846	0.025	0.001	0.016
57FE2	6660	6664	8	0.003	0.002	20:01 hr	0.488	0.032	0.582	0.049	0.005	0.025
57FD8	6662	762	8	0.004	0.001	20:00 hr	0.372	0.017	0.616	0.025	0.001	0.013
57FB9	6664	6666	8	0.003	0.003	20:15 hr	0.590	0.040	0.631	0.060	0.007	0.032

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
57FB6	6666	6668	8	0.003	0.004	20:15 hr	0.609	0.046	0.607	0.069	0.010	0.036
57FA7	6668	6670	8	0.008	0.004	20:24 hr	0.860	0.037	0.965	0.055	0.006	0.036
57F7B	6672	6670	8	0.043	0.001	20:00 hr	0.916	0.011	1.845	0.017	0.001	0.016
57F72	6670	6492	8	0.005	0.005	20:24 hr	0.761	0.047	0.751	0.071	0.010	0.041
57F69	6492	6674	15	0.002	0.193	45:00 hr	1.588	0.264	0.651	0.211	0.097	0.212
57F26	6674	6676	15	0.001	0.197	44:59 hr	1.281	0.311	0.481	0.249	0.136	0.214
57F23	6676	6678	15	0.002	0.198	44:59 hr	1.629	0.263	0.668	0.211	0.097	0.214
57F20	6678	6680	15	0.002	0.199	44:59 hr	1.596	0.268	0.649	0.214	0.101	0.215
57F1D	6680	6682	15	0.002	0.200	44:59 hr	1.465	0.286	0.575	0.229	0.115	0.216
57E9D	6684	6674	8	0.006	0.004	20:26 hr	0.712	0.038	0.789	0.056	0.006	0.033
57E9A	6686	6684	8	0.002	0.003	20:15 hr	0.494	0.044	0.505	0.066	0.009	0.031
57E97	6688	6686	8	0.004	0.002	20:00 hr	0.524	0.032	0.626	0.048	0.005	0.026
57E93	6690	6688	8	0.008	0.001	20:00 hr	0.525	0.019	0.830	0.028	0.001	0.017
57E6E	6690	6692	8	0.003	0.001	20:00 hr	0.334	0.019	0.529	0.028	0.001	0.014
57E48	762	6692	8	0.003	0.018	20:42 hr	0.961	0.091	0.679	0.136	0.040	0.074
57E3F	6692	6694	8	0.004	0.020	20:43 hr	1.117	0.090	0.793	0.134	0.039	0.080
57E08	6694	6696	8	0.004	0.022	20:45 hr	1.043	0.098	0.707	0.147	0.047	0.082
57E05	6696	6682	8	0.003	0.023	20:44 hr	1.057	0.102	0.703	0.153	0.051	0.085
57DF5	6682	6698	15	0.003	0.224	45:00 hr	1.760	0.272	0.710	0.217	0.104	0.228
57D6A	6702	6700	8	0.002	0.015	20:22 hr	0.783	0.092	0.549	0.138	0.041	0.068
57D67	6700	6704	8	0.002	0.019	20:30 hr	0.874	0.100	0.586	0.150	0.049	0.076
57D5E	6704	6706	8	0.003	0.023	20:44 hr	1.042	0.104	0.686	0.156	0.052	0.086
57CDD	6710	6708	8	0.005	0.002	20:01 hr	0.552	0.029	0.694	0.044	0.004	0.024
57CD4	6708	6712	8	0.004	0.005	20:15 hr	0.720	0.046	0.717	0.070	0.010	0.039
57CCB	6712	6714	8	0.004	0.009	20:31 hr	0.866	0.061	0.751	0.091	0.017	0.053
57C98	6718	6716	8	0.006	0.002	20:00 hr	0.648	0.031	0.790	0.047	0.004	0.028
57C8F	6716	6702	8	0.004	0.007	20:16 hr	0.796	0.057	0.715	0.085	0.015	0.048
57C3B	6722	6720	8	0.003	0.011	20:01 hr	0.850	0.071	0.679	0.107	0.024	0.059
57C19	6720	6724	8	0.003	0.014	20:15 hr	0.864	0.083	0.640	0.124	0.033	0.066
57BE0	6724	6726	8	0.003	0.018	20:31 hr	0.971	0.090	0.689	0.135	0.039	0.074
57B67	6728	6698	8	0.008	0.005	20:01 hr	0.915	0.041	0.965	0.062	0.008	0.041
57B64	6698	6730	15	0.001	0.232	44:59 hr	1.316	0.342	0.469	0.274	0.164	0.232
57B61	6730	6732	15	0.002	0.234	45:00 hr	1.535	0.309	0.578	0.247	0.134	0.234
57B45	6732	6726	15	0.001	0.238	44:59 hr	1.183	0.376	0.400	0.301	0.197	0.235
4D0B8	6734	6500	15	0.002	0.302	44:59 hr	1.710	0.343	0.609	0.274	0.165	0.266
42DEF	6738	9006	8	0.011	0.138	07:57 hr	2.673	0.187	1.288	0.280	0.171	0.213
42DEE	6740	6738	8	0.014	0.134	07:59 hr	2.930	0.171	1.482	0.256	0.144	0.209
42DED	6742	6740	8	0.014	0.130	07:46 hr	2.907	0.169	1.481	0.253	0.140	0.206
42DEA	6744	6734	15	0.002	0.300	45:00 hr	1.627	0.353	0.570	0.283	0.174	0.265
42DE5	6726	6714	15	0.002	0.259	45:00 hr	1.750	0.303	0.667	0.242	0.129	0.246
42DE0	6714	6706	15	0.002	0.272	44:59 hr	1.516	0.347	0.536	0.277	0.168	0.252
42DDB	6706	6744	15	0.003	0.298	44:59 hr	2.028	0.301	0.775	0.241	0.127	0.264
2A0D0	6746	6748	12	0.002	0.441	08:00 hr	1.958	0.456	0.600	0.456	0.426	0.344
2A0CA	6748	6262	12	0.002	0.460	08:00 hr	1.979	0.467	0.600	0.467	0.444	0.352
2A0C4	6262	6750	12	0.002	0.506	08:00 hr	2.042	0.490	0.606	0.490	0.484	0.370
2A0BB	6750	6266	12	0.002	0.537	32:00 hr	2.041	0.514	0.594	0.514	0.524	0.381
2A0A4	6752	6754	8	0.003	0.029	20:43 hr	1.119	0.114	0.702	0.171	0.064	0.095
2A09E	6754	6756	12	0.002	0.029	20:45 hr	0.900	0.116	0.564	0.116	0.028	0.087
2A098	6756	6258	12	0.002	0.031	20:45 hr	0.817	0.127	0.488	0.127	0.035	0.088
2A092	6758	6254	8	0.016	0.148	07:45 hr	3.114	0.175	1.553	0.263	0.151	0.220
2A08C	6254	6760	8	0.004	0.262	07:45 hr	2.229	0.345	0.792	0.517	0.529	0.297
2A086	6760	6762	8	0.003	0.302	07:46 hr	2.023	0.418	0.668	0.627	0.719	0.319
2A080	6762	6764	8	0.003	0.339	07:47 hr	2.210	0.428	0.723	0.643	0.744	0.339
2A074	6258	6766	12	0.002	0.398	07:59 hr	1.900	0.431	0.597	0.431	0.386	0.327
2A06E	6766	6768	12	0.002	0.404	08:00 hr	1.921	0.433	0.603	0.433	0.389	0.329
2A068	6768	6770	12	0.002	0.416	08:00 hr	1.931	0.441	0.601	0.441	0.401	0.334
2A062	6770	6746	12	0.002	0.428	08:00 hr	1.951	0.447	0.603	0.447	0.411	0.339
2A02C	6772	6774	10	0.043	0.001	20:13 hr	1.017	0.013	1.899	0.016	0.000	0.018
2A00F	6780	6778	8	0.003	0.011	07:15 hr	0.796	0.073	0.630	0.109	0.025	0.058
29F40	6794	6796	8	0.020	0.037	08:31 hr	2.275	0.084	1.672	0.126	0.034	0.109
29E1A	6804	6802	12	0.004	0.047	07:00 hr	1.275	0.126	0.766	0.126	0.034	0.110
29E17	2434	6802	12	0.020	0.057	08:43 hr	2.457	0.091	1.737	0.091	0.017	0.121
29E0C	6806	6774	18	0.004	2.901	08:02 hr	3.885	0.933	0.859	0.622	0.710	0.813

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
29E09	6802	6806	18	0.004	2.888	08:01 hr	3.883	0.930	0.860	0.620	0.706	0.811
29E05	6808	6802	18	0.004	2.783	08:01 hr	3.849	0.908	0.859	0.605	0.681	0.796
2921F	6810	2232	8	0.004	0.016	07:30 hr	0.956	0.084	0.702	0.126	0.034	0.070
2921C	6812	6814	8	0.003	0.002	07:00 hr	0.494	0.032	0.595	0.048	0.004	0.025
29216	6814	6816	8	0.003	0.003	07:15 hr	0.541	0.037	0.607	0.055	0.006	0.028
29210	6816	6810	8	0.003	0.009	07:26 hr	0.784	0.065	0.658	0.097	0.020	0.052
2920C	2326	6818	12	0.004	0.158	08:00 hr	1.888	0.222	0.842	0.222	0.108	0.203
29209	6818	6820	12	0.004	0.181	08:00 hr	1.954	0.238	0.840	0.238	0.124	0.217
29206	6820	6822	12	0.004	0.206	08:01 hr	2.033	0.254	0.844	0.254	0.141	0.233
29203	6822	6824	12	0.004	0.234	08:01 hr	2.110	0.270	0.847	0.270	0.160	0.248
29200	6824	6826	12	0.004	0.254	08:15 hr	2.157	0.282	0.846	0.282	0.174	0.259
291FD	6826	2222	12	0.004	0.265	08:16 hr	2.185	0.289	0.846	0.289	0.182	0.265
291F9	6830	6828	6	0.005	0.003	20:02 hr	0.629	0.037	0.705	0.073	0.011	0.031
291F6	6834	6832	6	0.005	0.005	07:03 hr	0.768	0.050	0.734	0.100	0.021	0.043
291F3	6832	6836	6	0.004	0.007	08:04 hr	0.774	0.061	0.665	0.123	0.032	0.050
291F0	6840	6838	6	0.006	0.012	07:01 hr	1.087	0.071	0.863	0.143	0.044	0.066
291ED	6838	6828	8	0.003	0.020	07:16 hr	0.974	0.099	0.659	0.148	0.047	0.080
291EA	6828	6836	8	0.004	0.027	07:31 hr	1.176	0.106	0.764	0.160	0.055	0.093
291E7	6836	6842	8	0.004	0.036	08:02 hr	1.264	0.122	0.764	0.183	0.073	0.107
291E4	6846	6844	6	0.004	0.002	20:02 hr	0.523	0.030	0.648	0.060	0.007	0.024
291E1	6844	6848	6	0.004	0.004	20:16 hr	0.677	0.045	0.685	0.090	0.017	0.037
291DE	6848	6850	6	0.005	0.006	20:30 hr	0.810	0.054	0.746	0.107	0.024	0.046
291DB	6850	6852	6	0.005	0.008	20:29 hr	0.908	0.060	0.789	0.120	0.031	0.053
291D8	6856	6854	6	0.007	0.003	07:02 hr	0.728	0.034	0.841	0.069	0.009	0.031
291D5	6854	6858	6	0.004	0.005	08:02 hr	0.696	0.052	0.653	0.104	0.023	0.042
291D2	6858	6860	6	0.005	0.007	08:31 hr	0.908	0.056	0.817	0.112	0.027	0.051
291CF	6862	6860	8	0.002	0.045	32:15 hr	1.077	0.161	0.563	0.241	0.127	0.120
291CC	6860	6864	8	0.002	0.054	32:28 hr	1.127	0.176	0.561	0.265	0.153	0.131
291C9	6864	6842	8	0.002	0.056	08:30 hr	1.136	0.180	0.559	0.270	0.159	0.134
291C6	6842	6866	8	0.002	0.093	08:30 hr	1.318	0.234	0.562	0.352	0.265	0.174
291C3	6866	6868	8	0.002	0.095	08:30 hr	1.320	0.237	0.559	0.356	0.271	0.175
291C0	6868	6870	8	0.002	0.097	08:41 hr	1.330	0.239	0.561	0.359	0.276	0.177
291BD	6874	6872	6	0.005	0.002	20:02 hr	0.624	0.033	0.735	0.066	0.009	0.028
291BA	6872	6876	6	0.003	0.005	20:16 hr	0.676	0.051	0.639	0.102	0.022	0.041
291B7	6876	6878	6	0.003	0.007	20:27 hr	0.757	0.061	0.656	0.121	0.031	0.049
291B4	6878	6880	6	0.004	0.008	20:30 hr	0.816	0.066	0.675	0.132	0.037	0.054
291AE	6884	6882	6	0.004	0.001	20:00 hr	0.424	0.022	0.616	0.044	0.004	0.017
291AB	6882	6886	6	0.006	0.002	20:14 hr	0.625	0.031	0.766	0.061	0.007	0.027
291A8	6886	6852	6	0.004	0.004	20:17 hr	0.705	0.045	0.710	0.090	0.017	0.038
291A5	6852	6880	6	0.018	0.013	20:45 hr	1.670	0.057	1.497	0.113	0.027	0.069
291A2	6880	6870	8	0.004	0.022	20:40 hr	1.123	0.095	0.774	0.143	0.044	0.083
2919F	6870	6888	10	0.002	0.119	08:43 hr	1.385	0.243	0.584	0.292	0.186	0.185
2919C	6892	6890	6	0.003	0.002	07:03 hr	0.505	0.033	0.599	0.065	0.009	0.025
29199	6890	6894	6	0.003	0.003	08:12 hr	0.597	0.042	0.620	0.085	0.015	0.033
29196	6894	6896	6	0.003	0.009	07:28 hr	0.824	0.071	0.655	0.143	0.044	0.058
29193	1508	6896	8	0.002	0.028	07:46 hr	0.971	0.124	0.582	0.186	0.076	0.094
29190	6896	6898	8	0.003	0.040	07:56 hr	1.112	0.145	0.615	0.217	0.103	0.113
2918D	6898	6900	8	0.003	0.041	07:59 hr	1.205	0.138	0.683	0.207	0.094	0.114
2918A	6900	6888	8	0.003	0.043	08:04 hr	1.139	0.149	0.620	0.224	0.110	0.117
29187	6904	6902	6	0.010	0.003	20:01 hr	0.843	0.031	1.028	0.062	0.008	0.031
29184	6902	6888	6	0.007	0.005	20:16 hr	0.881	0.042	0.919	0.084	0.015	0.040
29181	6888	6906	10	0.001	0.167	08:41 hr	1.148	0.360	0.395	0.432	0.387	0.220
2917E	6906	6908	10	0.001	0.170	08:45 hr	1.071	0.385	0.357	0.462	0.436	0.222
2917B	6910	6908	6	0.006	0.002	20:01 hr	0.692	0.032	0.829	0.064	0.008	0.029
29175	6916	6914	6	0.004	0.003	20:01 hr	0.594	0.040	0.632	0.081	0.013	0.032
29172	6918	6914	6	0.004	0.004	20:00 hr	0.675	0.049	0.651	0.098	0.020	0.040
2916F	6920	6912	6	0.005	0.006	20:01 hr	0.847	0.053	0.785	0.106	0.024	0.047
29169	6924	6922	6	0.004	0.008	20:02 hr	0.794	0.064	0.668	0.128	0.035	0.052
29166	6922	6914	10	0.002	0.190	08:46 hr	1.462	0.330	0.525	0.395	0.330	0.235
29163	6914	6926	10	0.003	0.197	08:45 hr	1.737	0.298	0.656	0.358	0.274	0.239
29160	6926	6928	10	0.002	0.199	08:45 hr	1.598	0.320	0.583	0.384	0.313	0.241
2915A	6932	6930	6	0.005	0.001	20:00 hr	0.472	0.022	0.691	0.043	0.004	0.018
29151	6936	6934	6	0.006	0.001	20:00 hr	0.557	0.025	0.752	0.051	0.005	0.022

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2914E	6938	6934	6	0.006	0.002	20:00 hr	0.597	0.027	0.776	0.055	0.006	0.024
2914B	6934	6940	6	0.005	0.003	20:17 hr	0.707	0.040	0.756	0.080	0.013	0.035
29148	6940	6930	6	0.005	0.006	20:30 hr	0.824	0.055	0.751	0.110	0.025	0.047
29145	6942	2226	6	0.005	0.008	20:32 hr	0.925	0.062	0.789	0.125	0.033	0.055
29142	6930	6942	6	0.005	0.008	20:43 hr	0.900	0.060	0.784	0.120	0.030	0.053
29139	6946	6944	6	0.003	0.004	20:01 hr	0.619	0.049	0.600	0.097	0.020	0.038
29136	6948	6944	6	0.005	0.002	20:00 hr	0.563	0.028	0.723	0.056	0.006	0.024
29130	6952	6950	6	0.005	0.002	20:00 hr	0.561	0.028	0.720	0.056	0.006	0.024
29124	6956	6954	6	0.005	0.001	20:00 hr	0.516	0.025	0.698	0.050	0.005	0.021
29121	6958	6954	6	0.005	0.001	20:00 hr	0.514	0.025	0.698	0.050	0.005	0.021
2911E	6954	6960	6	0.005	0.003	20:16 hr	0.673	0.037	0.749	0.074	0.011	0.032
2911B	6960	6962	6	0.004	0.005	20:30 hr	0.745	0.052	0.697	0.104	0.023	0.043
29118	6964	6962	6	0.005	0.001	20:00 hr	0.418	0.017	0.684	0.035	0.002	0.014
29115	6962	6966	6	0.003	0.007	20:30 hr	0.790	0.064	0.656	0.128	0.035	0.052
29112	6966	6968	6	0.004	0.008	20:41 hr	0.842	0.064	0.709	0.128	0.035	0.054
2910F	6968	2228	6	0.005	0.008	20:43 hr	0.924	0.062	0.788	0.125	0.033	0.055
2910C	6944	6970	6	0.005	0.006	20:15 hr	0.813	0.055	0.743	0.109	0.025	0.047
29109	6970	6950	6	0.005	0.008	20:29 hr	0.871	0.060	0.755	0.121	0.031	0.052
29106	6950	6972	6	0.005	0.010	20:29 hr	0.980	0.067	0.803	0.135	0.039	0.060
29103	6972	6974	6	0.005	0.011	20:33 hr	0.986	0.070	0.794	0.140	0.042	0.062
29100	6976	774	6	0.003	0.001	20:00 hr	0.430	0.029	0.543	0.058	0.007	0.021
290FA	772	6978	6	0.004	0.004	07:30 hr	0.702	0.048	0.687	0.096	0.019	0.040
290F7	6978	6980	6	0.004	0.007	07:42 hr	0.811	0.059	0.710	0.119	0.030	0.050
290F4	6980	2230	6	0.004	0.008	08:05 hr	0.865	0.065	0.724	0.129	0.036	0.055
290F1	6974	6982	6	0.005	0.011	20:38 hr	0.977	0.073	0.770	0.145	0.046	0.064
290EE	6982	6984	6	0.004	0.012	20:41 hr	0.921	0.079	0.696	0.157	0.054	0.066
290EB	6984	1288	6	0.006	0.012	20:41 hr	1.109	0.072	0.878	0.144	0.045	0.067
290DC	6998	6996	6	0.005	0.005	20:02 hr	0.793	0.051	0.750	0.102	0.022	0.044
290D9	6996	6928	6	0.005	0.009	20:17 hr	0.900	0.064	0.758	0.128	0.035	0.056
290D6	6928	2224	12	0.002	0.210	32:56 hr	1.609	0.304	0.606	0.304	0.201	0.235
290D0	7000	3570	8	0.004	0.044	07:17 hr	1.356	0.135	0.779	0.202	0.089	0.118
290C7	7002	7000	8	0.004	0.034	07:00 hr	1.289	0.117	0.799	0.175	0.067	0.104
29094	4694	2324	12	0.003	0.046	07:43 hr	1.121	0.134	0.651	0.134	0.039	0.108
29091	2322	7004	12	0.001	0.056	31:59 hr	0.782	0.200	0.369	0.200	0.087	0.120
29088	7006	6742	8	0.014	0.128	07:44 hr	2.889	0.167	1.481	0.250	0.137	0.204
29085	7008	7006	8	0.011	0.072	07:30 hr	2.198	0.135	1.262	0.202	0.089	0.152
29082	7012	7010	8	0.013	0.022	07:00 hr	1.646	0.073	1.301	0.109	0.025	0.083
2907F	7010	7014	8	0.002	0.022	07:17 hr	0.896	0.112	0.568	0.167	0.061	0.084
2907C	7018	7016	8	0.008	0.002	07:00 hr	0.687	0.028	0.883	0.042	0.003	0.026
29079	7016	2372	8	0.003	0.004	07:17 hr	0.582	0.044	0.598	0.065	0.009	0.034
29073	2370	7020	8	0.003	0.015	07:32 hr	0.915	0.082	0.680	0.123	0.032	0.068
29070	7020	7014	8	0.003	0.027	07:47 hr	1.064	0.114	0.668	0.171	0.063	0.093
2906D	7014	7006	8	0.003	0.055	07:44 hr	1.267	0.164	0.655	0.246	0.133	0.132
2906A	7022	7008	8	0.003	0.064	07:18 hr	1.371	0.173	0.690	0.259	0.147	0.143
29067	7024	7022	8	0.003	0.045	07:05 hr	1.236	0.145	0.682	0.217	0.104	0.119
29064	7028	7026	8	0.004	0.039	20:05 hr	1.260	0.131	0.735	0.196	0.084	0.112
29061	7032	7030	8	0.004	0.005	20:03 hr	0.703	0.045	0.711	0.067	0.009	0.038
2905E	7030	7026	8	0.004	0.018	08:15 hr	1.064	0.087	0.769	0.130	0.036	0.076
2905B	7026	7034	8	0.004	0.070	20:35 hr	1.576	0.168	0.805	0.252	0.139	0.150
29058	7034	7036	8	0.004	0.091	08:33 hr	1.703	0.190	0.812	0.286	0.178	0.171
29055	7036	902	8	0.004	0.106	08:46 hr	1.774	0.207	0.808	0.311	0.209	0.186
29052	902	870	12	0.002	0.129	08:45 hr	1.457	0.230	0.638	0.230	0.116	0.183
2904F	870	7038	12	0.002	0.145	08:44 hr	1.450	0.252	0.605	0.252	0.139	0.195
2904C	7038	2246	12	0.002	0.148	08:47 hr	1.438	0.256	0.594	0.256	0.144	0.196
29049	7040	2246	8	0.000	0.000	20:00 hr	0.040	0.058	0.036	0.087	0.016	0.011
29043	7042	2362	24	0.004	6.381	33:30 hr	4.830	1.239	0.927	0.619	0.705	1.124
29040	2360	2332	24	0.004	6.404	33:30 hr	5.085	1.190	0.989	0.595	0.663	1.126
2903D	7044	2330	8	0.000	0.001	20:00 hr	0.051	0.085	0.037	0.128	0.035	0.016
2903A	2364	7046	24	0.004	6.530	33:30 hr	4.801	1.270	0.914	0.635	0.732	1.138
29037	7048	7046	8	0.000	0.005	20:00 hr	0.085	0.199	0.040	0.299	0.194	0.039
29034	7050	2368	8	0.002	0.007	20:00 hr	0.548	0.070	0.444	0.104	0.023	0.046
29025	7052	7054	24	0.004	6.725	33:30 hr	4.877	1.285	0.926	0.643	0.744	1.155
29022	2290	7052	24	0.004	6.721	33:31 hr	4.892	1.281	0.929	0.641	0.741	1.155

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2901F	7056	7052	8	0.000	0.006	20:00 hr	0.090	0.219	0.040	0.329	0.233	0.042
2901C	7058	7060	8	0.000	0.004	20:00 hr	0.081	0.182	0.040	0.273	0.163	0.035
29019	7054	7060	24	0.004	6.730	33:31 hr	4.881	1.285	0.926	0.643	0.744	1.156
29016	7060	2406	24	0.004	6.731	33:30 hr	4.882	1.285	0.927	0.643	0.744	1.156
29010	7062	7064	8	0.000	0.006	07:00 hr	0.091	0.225	0.040	0.337	0.245	0.043
2900D	2406	7064	24	0.004	6.740	33:30 hr	4.888	1.285	0.928	0.643	0.744	1.157
29007	7064	7066	24	0.004	6.744	33:30 hr	4.868	1.290	0.923	0.645	0.749	1.157
29004	8930	6220	24	0.004	7.198	33:45 hr	5.171	1.296	0.979	0.648	0.753	1.197
28FFB	8928	2292	24	0.005	7.320	33:45 hr	5.353	1.276	1.018	0.638	0.737	1.208
28FF5	2334	1572	24	0.005	7.408	33:45 hr	5.586	1.243	1.071	0.622	0.709	1.215
28FE9	7072	7074	30	0.002	7.690	34:00 hr	3.543	1.617	0.601	0.647	0.751	1.157
28FD4	7078	7076	15	0.005	1.111	07:15 hr	3.390	0.540	0.953	0.432	0.387	0.521
28FD1	7076	2430	15	0.003	1.141	07:34 hr	2.737	0.650	0.708	0.520	0.534	0.528
28FC5	1628	2354	18	0.001	0.534	41:45 hr	1.486	0.528	0.421	0.352	0.266	0.338
28FC2	7082	7080	30	0.004	11.433	10:00 hr	5.762	1.498	1.000	0.599	0.670	1.424
28FBF	7080	2352	30	0.004	11.437	10:00 hr	5.879	1.474	1.026	0.589	0.654	1.424
28FBC	7084	7082	30	0.005	11.433	10:00 hr	6.020	1.444	1.058	0.578	0.634	1.424
28FB9	7086	7084	30	0.006	11.427	10:00 hr	6.826	1.304	1.248	0.522	0.537	1.423
28FB6	7088	7086	30	0.006	11.422	10:00 hr	6.535	1.350	1.178	0.540	0.569	1.423
28F8C	2412	2244	24	0.005	6.217	33:30 hr	5.182	1.143	1.022	0.572	0.623	1.109
28F38	7100	7098	8	0.004	0.002	07:01 hr	0.561	0.033	0.662	0.050	0.005	0.027
28F35	7104	7102	8	0.002	0.002	20:01 hr	0.453	0.035	0.520	0.052	0.005	0.025
28F32	7108	7106	8	0.004	0.002	20:01 hr	0.516	0.028	0.667	0.041	0.003	0.023
28F2F	7110	7102	8	0.004	0.003	07:00 hr	0.598	0.038	0.656	0.057	0.006	0.031
28F2C	7102	7106	8	0.004	0.007	08:15 hr	0.741	0.055	0.674	0.083	0.014	0.045
28F29	7106	7112	8	0.004	0.010	20:27 hr	0.861	0.066	0.714	0.099	0.021	0.056
28F26	7116	7114	8	0.004	0.005	20:30 hr	0.682	0.048	0.665	0.072	0.011	0.039
28F23	7114	7118	8	0.004	0.008	20:29 hr	0.788	0.060	0.686	0.091	0.017	0.050
28F20	7112	7118	8	0.004	0.011	20:38 hr	0.858	0.070	0.691	0.105	0.023	0.058
28F1D	7122	7120	8	0.004	0.001	20:00 hr	0.456	0.024	0.636	0.036	0.002	0.019
28F1A	7124	2386	8	0.004	0.003	20:15 hr	0.592	0.033	0.697	0.050	0.005	0.028
28EB1	7128	7126	8	0.004	0.027	07:44 hr	1.125	0.108	0.727	0.161	0.057	0.092
28EAE	7130	2316	8	0.003	0.051	08:17 hr	1.205	0.162	0.627	0.243	0.129	0.128
28EA5	748	7128	8	0.002	0.023	07:44 hr	0.886	0.116	0.551	0.174	0.066	0.086
28E7B	7134	7132	8	0.004	0.009	07:02 hr	0.823	0.062	0.706	0.093	0.018	0.052
28E78	7132	7136	8	0.004	0.017	07:17 hr	0.983	0.086	0.712	0.130	0.036	0.073
28E75	7136	7138	8	0.004	0.024	07:31 hr	1.094	0.103	0.724	0.154	0.051	0.087
28E72	7138	7140	8	0.004	0.029	07:45 hr	1.159	0.113	0.730	0.170	0.063	0.096
28E6F	2386	7138	8	0.001	0.005	20:20 hr	0.349	0.071	0.280	0.106	0.024	0.037
28E6C	7140	6396	8	0.002	0.033	07:56 hr	0.910	0.145	0.502	0.218	0.104	0.102
28E63	7142	7128	8	0.000	0.003	07:00 hr	0.076	0.165	0.039	0.247	0.134	0.032
28E60	7126	7144	8	0.003	0.032	08:00 hr	1.147	0.120	0.701	0.180	0.071	0.100
28E5D	7120	7124	8	0.003	0.002	20:15 hr	0.494	0.031	0.602	0.047	0.004	0.024
28D97	7098	7116	8	0.005	0.004	20:14 hr	0.699	0.038	0.770	0.057	0.006	0.033
28CEF	7118	6416	8	0.003	0.021	20:45 hr	0.963	0.101	0.644	0.151	0.049	0.081
28CB6	7146	7144	8	0.001	0.005	07:12 hr	0.340	0.077	0.261	0.116	0.028	0.039
28CB3	7144	7148	8	0.004	0.038	07:55 hr	1.254	0.129	0.738	0.193	0.081	0.110
28CB0	7148	7150	8	0.004	0.040	07:59 hr	1.273	0.132	0.739	0.198	0.086	0.113
28CAD	7150	7152	8	0.004	0.043	08:01 hr	1.293	0.136	0.740	0.203	0.090	0.116
28CAA	7152	864	8	0.004	0.048	08:01 hr	1.337	0.143	0.742	0.215	0.101	0.123
28CA4	7154	7156	8	0.000	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
28CA1	7156	7144	6	0.024	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
28C9E	7158	7156	8	0.002	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
28C9B	7160	7158	8	0.000	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
28C95	7162	1520	8	0.050	0.007	07:00 hr	1.880	0.030	2.314	0.046	0.004	0.046
28C92	1520	1564	8	0.003	0.021	07:31 hr	0.956	0.103	0.630	0.155	0.052	0.082
28C8F	1564	7164	8	0.002	0.059	07:44 hr	1.175	0.183	0.573	0.274	0.164	0.137
28C8C	6410	7166	8	0.004	0.046	08:15 hr	1.325	0.141	0.742	0.212	0.098	0.121
28C89	7166	7130	8	0.003	0.049	08:15 hr	1.188	0.158	0.627	0.237	0.123	0.124
28C7D	7168	2320	8	0.004	0.032	20:57 hr	1.190	0.118	0.733	0.177	0.068	0.101
28C7A	7170	7168	8	0.004	0.029	20:46 hr	1.159	0.113	0.730	0.169	0.062	0.096
28C77	6420	7170	8	0.004	0.027	20:45 hr	1.126	0.108	0.728	0.161	0.057	0.092
28C74	7172	720	8	0.004	0.003	07:02 hr	0.606	0.040	0.646	0.061	0.007	0.032

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
28C71	718	7174	8	0.003	0.016	07:32 hr	0.885	0.091	0.625	0.136	0.040	0.072
28C6C	7174	2312	8	0.004	0.022	07:45 hr	1.085	0.097	0.740	0.146	0.046	0.083
28C66	7182	7180	18	0.002	1.841	08:46 hr	2.995	0.795	0.702	0.530	0.551	0.641
28C23	7184	7180	8	0.014	0.114	20:44 hr	2.786	0.158	1.472	0.236	0.123	0.192
28C20	7186	7188	15	0.007	1.560	08:30 hr	4.329	0.580	1.177	0.464	0.440	0.622
28C1D	2014	7188	8	0.069	0.107	07:59 hr	4.817	0.103	3.181	0.155	0.052	0.186
28C14	768	7192	18	0.002	1.838	08:46 hr	2.789	0.841	0.640	0.561	0.604	0.640
28C0B	7196	7194	18	0.003	1.942	09:00 hr	3.443	0.743	0.830	0.495	0.492	0.659
28C08	7180	7196	18	0.002	1.941	08:59 hr	2.999	0.829	0.692	0.553	0.590	0.659
28C05	7198	7182	18	0.002	1.841	08:45 hr	2.920	0.811	0.679	0.541	0.570	0.641
28C02	7200	7198	18	0.003	1.840	08:45 hr	3.152	0.763	0.752	0.509	0.515	0.641
28BFF	7192	7200	18	0.002	1.840	08:45 hr	2.904	0.815	0.674	0.543	0.574	0.641
28BF1	7202	7194	8	0.020	0.021	20:41 hr	1.899	0.063	1.617	0.094	0.019	0.080
28BED	7194	1428	18	0.002	1.960	09:00 hr	3.018	0.831	0.696	0.554	0.592	0.662
28BE7	4670	7204	15	0.005	0.814	32:15 hr	3.226	0.444	0.997	0.355	0.270	0.443
28BE4	7204	7206	18	0.005	0.821	32:15 hr	3.034	0.430	0.963	0.287	0.179	0.422
28BE1	7206	7208	18	0.001	0.825	32:15 hr	1.989	0.588	0.532	0.392	0.325	0.423
28BDE	7208	7210	18	0.001	0.855	32:15 hr	2.014	0.598	0.536	0.398	0.335	0.431
28BDB	7210	7212	18	0.001	0.889	32:15 hr	2.031	0.612	0.536	0.408	0.349	0.439
28BD8	7212	7214	18	0.002	1.129	32:15 hr	2.403	0.645	0.617	0.430	0.385	0.497
28BD5	7214	7216	18	0.002	1.155	32:15 hr	2.407	0.656	0.614	0.437	0.396	0.503
28BD2	7216	7218	18	0.002	1.201	32:15 hr	2.442	0.668	0.617	0.445	0.409	0.513
28BCF	7218	7220	18	0.003	1.252	32:16 hr	2.792	0.623	0.730	0.415	0.361	0.524
28BCC	7220	884	18	0.003	1.273	32:15 hr	2.991	0.599	0.797	0.399	0.336	0.529
28BC9	884	7222	21	0.002	1.609	32:16 hr	2.483	0.760	0.588	0.434	0.391	0.571
28BC6	7222	7224	21	0.002	1.623	09:01 hr	2.487	0.764	0.588	0.437	0.395	0.573
28BC3	7224	7226	21	0.003	1.649	09:00 hr	3.128	0.651	0.799	0.372	0.295	0.578
28BC0	7226	7228	21	0.003	1.674	09:00 hr	3.259	0.639	0.841	0.365	0.285	0.583
28BBD	7228	1534	21	0.003	1.704	08:59 hr	3.146	0.665	0.796	0.380	0.306	0.588
28AD1	7232	7230	12	0.001	0.102	08:00 hr	0.928	0.268	0.374	0.268	0.157	0.162
28AC8	7236	7234	8	0.000	0.004	07:00 hr	0.078	0.171	0.040	0.256	0.144	0.033
28AC5	7238	7234	4	0.026	0.004	07:00 hr	1.416	0.034	1.645	0.101	0.022	0.043
28AC2	7242	7240	8	0.001	0.007	07:00 hr	0.496	0.075	0.387	0.112	0.027	0.046
28ABF	7244	7240	8	0.003	0.006	07:00 hr	0.659	0.055	0.602	0.082	0.014	0.043
28ABC	7234	7246	8	0.003	0.008	07:17 hr	0.743	0.062	0.639	0.093	0.018	0.049
28AB9	7246	7240	8	0.004	0.056	07:46 hr	1.493	0.149	0.814	0.223	0.109	0.134
28AB6	7240	6300	8	0.004	0.070	07:59 hr	1.559	0.168	0.796	0.252	0.140	0.150
28AB3	7248	7246	8	0.004	0.039	07:45 hr	1.254	0.131	0.731	0.196	0.084	0.112
28AB0	7250	7232	8	0.115	0.005	07:14 hr	2.225	0.021	3.317	0.031	0.002	0.038
28AAD	7252	7250	8	0.000	0.004	07:00 hr	0.082	0.188	0.040	0.282	0.174	0.037
28AAA	7254	2320	8	0.003	0.286	09:00 hr	2.110	0.387	0.717	0.580	0.637	0.311
28AA7	2318	2316	8	0.003	0.316	09:00 hr	2.141	0.415	0.711	0.622	0.709	0.327
28AA1	2310	860	8	0.005	0.389	09:00 hr	2.723	0.404	0.912	0.606	0.681	0.365
28A9B	862	650	8	0.003	0.001	07:02 hr	0.387	0.022	0.557	0.033	0.002	0.017
28A98	648	7256	8	0.003	0.024	07:29 hr	1.055	0.106	0.686	0.159	0.055	0.088
28A95	7256	7258	8	0.003	0.027	07:32 hr	1.077	0.111	0.685	0.166	0.060	0.092
28A92	7258	7248	8	0.003	0.032	07:46 hr	1.147	0.122	0.694	0.183	0.073	0.101
28A8F	7248	7260	8	0.003	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
28A14	7262	7264	8	0.003	0.004	32:02 hr	0.609	0.047	0.603	0.070	0.010	0.036
288EB	7266	6862	8	0.003	0.044	32:16 hr	1.187	0.148	0.649	0.222	0.108	0.119
288E8	7268	7266	8	0.003	0.034	08:15 hr	1.138	0.127	0.673	0.191	0.080	0.104
288E5	7270	7268	8	0.003	0.026	08:01 hr	1.053	0.112	0.666	0.168	0.061	0.091
288E2	7260	7270	8	0.003	0.018	07:30 hr	0.943	0.093	0.656	0.140	0.042	0.075
288DF	7272	7274	8	0.005	0.005	07:00 hr	0.711	0.044	0.731	0.065	0.009	0.037
288DC	7276	7266	8	0.004	0.009	08:02 hr	0.862	0.060	0.755	0.089	0.016	0.052
288D8	7278	7280	8	0.003	0.004	07:02 hr	0.600	0.046	0.599	0.069	0.010	0.036
288D5	7282	7262	8	0.004	0.003	07:00 hr	0.610	0.038	0.675	0.056	0.006	0.031
288D2	7284	7286	8	0.003	0.004	07:03 hr	0.595	0.047	0.585	0.071	0.010	0.036
288CF	7286	7260	8	0.003	0.014	07:17 hr	0.872	0.082	0.647	0.124	0.033	0.066
288CC	7264	7270	8	0.003	0.007	08:03 hr	0.703	0.059	0.620	0.088	0.016	0.046
288C9	7274	7276	8	0.002	0.006	07:19 hr	0.540	0.063	0.459	0.095	0.019	0.043
288C6	7280	7268	8	0.005	0.007	08:02 hr	0.821	0.051	0.779	0.076	0.012	0.045
288BA	7298	7296	4	0.010	0.005	07:00 hr	1.073	0.046	1.064	0.138	0.041	0.047

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
288B7	7296	7300	4	0.010	0.006	07:15 hr	1.137	0.051	1.073	0.152	0.050	0.052
28890	7300	7302	8	0.004	0.012	07:30 hr	0.868	0.073	0.688	0.109	0.025	0.060
2888D	7304	7300	8	0.004	0.003	07:00 hr	0.593	0.039	0.648	0.058	0.007	0.031
28872	7302	1398	8	0.004	0.016	07:31 hr	0.960	0.085	0.700	0.128	0.035	0.071
2886F	1398	7232	12	0.001	0.094	07:57 hr	0.906	0.257	0.374	0.257	0.145	0.156
2886C	7004	1398	12	0.001	0.059	07:58 hr	0.798	0.203	0.373	0.203	0.090	0.123
28869	7230	2328	12	0.002	0.131	08:00 hr	1.402	0.239	0.601	0.239	0.126	0.185
2885A	7164	7314	8	0.003	0.063	07:45 hr	1.363	0.171	0.688	0.257	0.145	0.142
28857	7314	7316	8	0.003	0.277	47:46 hr	2.074	0.382	0.708	0.573	0.625	0.305
28854	7316	7254	8	0.003	0.279	09:00 hr	2.078	0.383	0.709	0.575	0.628	0.306
28671	7320	7318	8	0.003	0.002	20:03 hr	0.468	0.030	0.582	0.045	0.004	0.023
2866E	7318	7322	8	0.003	0.004	20:16 hr	0.628	0.047	0.622	0.070	0.010	0.037
2866B	7326	7324	8	0.004	0.002	20:02 hr	0.486	0.029	0.616	0.043	0.004	0.023
28668	7324	7328	8	0.004	0.004	20:16 hr	0.652	0.045	0.656	0.068	0.009	0.037
28662	7330	7334	8	0.004	0.287	47:47 hr	2.182	0.377	0.747	0.566	0.613	0.311
2865F	7334	7314	8	0.004	0.263	47:47 hr	2.141	0.356	0.750	0.534	0.559	0.297
2865C	7322	7254	8	0.003	0.007	20:30 hr	0.726	0.059	0.641	0.088	0.016	0.047
28659	7328	7316	8	0.004	0.007	20:31 hr	0.755	0.057	0.677	0.085	0.015	0.047
28656	7336	6780	8	0.004	0.007	07:01 hr	0.751	0.057	0.675	0.085	0.015	0.046
28653	7338	6778	6	0.016	0.018	07:00 hr	1.735	0.067	1.418	0.135	0.039	0.081
2864A	7340	7342	8	0.003	0.012	08:01 hr	0.820	0.076	0.637	0.113	0.027	0.060
28647	7342	LS15	8	0.003	0.014	08:08 hr	0.919	0.080	0.690	0.121	0.031	0.067
28644	6778	7346	8	0.006	0.030	07:16 hr	1.404	0.099	0.945	0.149	0.048	0.097
28638	7346	LS15	8	0.004	0.035	07:31 hr	1.263	0.121	0.769	0.181	0.071	0.106
28629	7362	7364	10	0.004	0.130	07:00 hr	1.750	0.220	0.780	0.263	0.152	0.193
28626	7368	7366	15	0.004	0.610	07:46 hr	2.623	0.418	0.839	0.334	0.241	0.381
28623	7372	7370	15	0.004	0.096	07:31 hr	1.512	0.168	0.786	0.134	0.039	0.148
28620	7374	7376	12	0.004	0.055	07:00 hr	1.331	0.136	0.767	0.136	0.040	0.119
2861A	7380	7378	8	0.004	0.024	07:00 hr	1.103	0.100	0.740	0.150	0.049	0.086
2860C	7384	7382	8	0.003	0.103	07:00 hr	1.616	0.217	0.717	0.326	0.230	0.183
28609	7386	7382	12	0.001	0.209	31:58 hr	0.977	0.438	0.305	0.438	0.397	0.234
28606	7388	7386	8	0.005	0.048	07:00 hr	1.492	0.134	0.858	0.201	0.089	0.124
28603	7390	7386	12	0.002	0.126	07:38 hr	1.428	0.230	0.625	0.230	0.116	0.181
28600	7394	7392	8	0.003	0.015	07:01 hr	0.887	0.085	0.647	0.128	0.035	0.068
285FD	7398	7396	8	0.003	0.010	07:00 hr	0.776	0.072	0.619	0.107	0.024	0.056
285F5	7400	7396	12	0.002	0.036	07:04 hr	0.952	0.128	0.567	0.128	0.035	0.096
285F2	7402	7396	8	0.046	0.025	07:00 hr	2.699	0.057	2.418	0.085	0.015	0.089
285EC	7396	7392	12	0.002	0.072	07:18 hr	1.173	0.179	0.586	0.179	0.070	0.136
285E9	7404	7392	8	0.010	0.038	07:00 hr	1.788	0.100	1.203	0.149	0.048	0.109
285E3	7392	7390	12	0.002	0.125	07:29 hr	1.243	0.253	0.518	0.253	0.140	0.180
285E0	7406	7386	8	0.013	0.033	07:00 hr	1.888	0.087	1.363	0.130	0.036	0.102
285D7	7408	7382	8	0.006	0.015	07:00 hr	1.107	0.072	0.881	0.108	0.024	0.067
285D1	7382	7410	12	0.003	0.331	08:00 hr	2.076	0.352	0.723	0.352	0.265	0.297
285CD	7412	7410	8	0.010	0.019	07:00 hr	1.461	0.073	1.156	0.109	0.025	0.078
285C9	7414	7410	8	0.004	0.039	07:00 hr	1.284	0.129	0.755	0.193	0.082	0.112
285C6	7410	7378	12	0.002	0.393	08:00 hr	1.919	0.424	0.608	0.424	0.375	0.325
285C3	7416	7378	8	0.011	0.037	07:00 hr	1.853	0.097	1.266	0.145	0.045	0.109
285BD	7378	6774	12	0.002	0.458	08:01 hr	2.000	0.462	0.609	0.462	0.436	0.351
285AB	7418	7420	21	0.002	3.375	08:15 hr	3.185	1.129	0.645	0.645	0.748	0.839
285A8	7420	7422	21	0.003	3.396	08:16 hr	3.717	0.996	0.785	0.569	0.619	0.842
285A2	7424	7426	21	0.002	3.429	08:17 hr	3.239	1.127	0.656	0.644	0.747	0.846
2859F	7426	3002	21	0.008	3.448	08:30 hr	5.387	0.753	1.282	0.431	0.385	0.849
2859C	7428	7430	18	0.004	1.874	08:00 hr	3.494	0.714	0.857	0.476	0.460	0.647
28596	7432	7430	8	0.004	0.218	07:00 hr	2.053	0.318	0.755	0.477	0.461	0.270
28593	7430	7434	18	0.004	2.651	08:01 hr	3.818	0.878	0.862	0.585	0.646	0.776
28590	7434	6808	18	0.004	2.720	08:01 hr	3.812	0.898	0.854	0.599	0.670	0.786
2858D	7436	3000	12	0.087	0.220	08:59 hr	6.124	0.123	3.716	0.123	0.032	0.240
2858A	7438	7428	18	0.004	1.786	08:00 hr	3.463	0.693	0.861	0.462	0.436	0.631
28587	7440	7438	8	0.004	0.080	07:00 hr	1.565	0.186	0.757	0.279	0.169	0.161
28584	7442	7438	8	0.004	0.253	07:00 hr	2.107	0.350	0.744	0.525	0.543	0.291
28581	7444	7438	18	0.004	1.448	08:00 hr	3.272	0.617	0.859	0.411	0.354	0.566
2857E	7446	7444	18	0.004	1.270	08:00 hr	3.151	0.575	0.857	0.383	0.312	0.528
2857B	7448	7446	18	0.004	1.103	07:46 hr	3.039	0.532	0.860	0.355	0.270	0.491

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
28578	7452	7450	12	0.004	0.006	20:00 hr	0.663	0.047	0.658	0.047	0.004	0.038
28575	7376	7450	12	0.004	0.055	07:15 hr	1.332	0.136	0.767	0.136	0.040	0.119
28572	7454	7450	12	0.004	0.017	20:00 hr	0.943	0.078	0.721	0.078	0.013	0.066
2856F	7450	7372	15	0.004	0.077	07:29 hr	1.422	0.150	0.782	0.120	0.031	0.132
2856C	2588	7370	8	0.013	0.361	07:45 hr	3.781	0.293	1.444	0.439	0.399	0.351
28569	7456	7370	8	0.020	0.143	07:00 hr	3.395	0.161	1.773	0.241	0.128	0.216
28566	7370	7368	15	0.004	0.602	07:44 hr	2.612	0.415	0.838	0.332	0.238	0.379
28563	7366	7448	15	0.004	0.765	31:58 hr	2.783	0.473	0.834	0.378	0.304	0.429
28560	7458	7448	10	0.004	0.197	07:00 hr	1.971	0.272	0.781	0.327	0.231	0.240
2855D	7364	7448	10	0.004	0.133	07:15 hr	1.758	0.223	0.777	0.267	0.156	0.196
28518	7488	7490	18	0.001	0.793	44:52 hr	1.739	0.631	0.452	0.421	0.369	0.414
28515	2184	7492	18	0.001	1.147	45:00 hr	1.897	0.785	0.447	0.523	0.539	0.501
28512	7494	2184	18	0.001	1.107	44:59 hr	1.704	0.831	0.392	0.554	0.593	0.492
2850F	7490	7494	18	0.003	1.085	45:00 hr	2.872	0.548	0.800	0.365	0.285	0.487
2850C	7496	2188	18	0.001	1.406	32:46 hr	2.199	0.821	0.509	0.547	0.581	0.557
28509	7498	7496	18	0.001	1.307	32:45 hr	1.895	0.873	0.429	0.582	0.641	0.536
28506	7492	7498	18	0.002	1.218	32:45 hr	2.346	0.696	0.582	0.464	0.440	0.517
28503	7500	2192	18	0.001	1.592	32:47 hr	2.273	0.884	0.512	0.589	0.654	0.594
28500	2188	7500	18	0.001	1.506	32:46 hr	2.078	0.909	0.464	0.606	0.683	0.577
284FA	2192	7502	18	0.001	1.652	32:48 hr	2.134	0.963	0.468	0.642	0.743	0.606
284F7	7504	7506	18	0.001	1.741	32:59 hr	2.349	0.927	0.521	0.618	0.703	0.623
284F4	7506	7508	18	0.001	1.776	32:59 hr	2.277	0.969	0.498	0.646	0.749	0.629
284ED	7512	2250	18	0.003	1.820	33:00 hr	3.162	0.755	0.758	0.503	0.505	0.637
284E7	7514	764	8	0.003	0.031	20:16 hr	1.155	0.118	0.711	0.177	0.068	0.099
284E4	7516	7514	8	0.004	0.018	20:01 hr	1.031	0.086	0.748	0.129	0.036	0.074
284E1	766	7488	18	0.001	0.770	44:58 hr	1.760	0.611	0.465	0.407	0.348	0.408
284DE	7518	764	8	0.018	0.004	20:00 hr	1.097	0.029	1.380	0.044	0.004	0.034
284D5	7520	7488	8	0.000	0.003	20:00 hr	0.073	0.152	0.039	0.228	0.114	0.030
284CF	7524	7522	8	0.001	0.040	07:30 hr	0.775	0.186	0.375	0.278	0.169	0.112
284C9	7530	7528	8	0.007	0.113	07:02 hr	2.191	0.186	1.058	0.279	0.170	0.192
282BD	7604	7602	8	0.004	0.007	07:01 hr	0.783	0.054	0.720	0.081	0.013	0.046
282BA	7602	7606	8	0.003	0.016	07:17 hr	0.911	0.088	0.653	0.132	0.037	0.071
282B1	7608	7606	8	0.009	0.093	07:49 hr	2.242	0.159	1.179	0.239	0.125	0.173
282AE	7606	7610	8	0.003	0.123	07:57 hr	1.680	0.240	0.707	0.361	0.278	0.200
2829F	7614	7612	8	0.004	0.023	07:01 hr	1.079	0.101	0.721	0.151	0.050	0.086
2829C	7612	7524	8	0.005	0.032	07:16 hr	1.314	0.109	0.844	0.163	0.058	0.100
28293	7522	7608	8	0.004	0.077	07:44 hr	1.611	0.177	0.800	0.265	0.154	0.158
2826C	7610	7616	8	0.004	0.136	07:59 hr	1.944	0.233	0.832	0.349	0.262	0.211
28269	7528	7618	8	0.028	0.129	07:15 hr	3.701	0.141	2.073	0.212	0.098	0.205
2804A	7620	7622	8	0.001	0.001	20:14 hr	0.278	0.030	0.342	0.046	0.004	0.018
27EAC	5214	7624	8	0.010	0.000	06:14 hr	0.370	0.009	0.854	0.013	0.000	0.008
27E19	5220	7626	8	0.004	0.000	08:00 hr	0.322	0.014	0.583	0.021	0.001	0.011
27DF8	5224	7628	10	0.048	0.004	08:25 hr	1.545	0.023	2.183	0.028	0.001	0.034
27DC2	7630	7622	8	0.003	0.228	44:59 hr	2.017	0.334	0.727	0.500	0.501	0.276
27DBF	7632	7634	8	0.006	0.020	08:42 hr	1.227	0.082	0.913	0.123	0.032	0.078
27DBC	1650	7636	12	0.048	0.480	21:00 hr	6.276	0.208	2.897	0.208	0.095	0.360
27DB9	7640	7638	8	0.010	0.001	07:00 hr	0.508	0.015	0.911	0.022	0.001	0.014
27DB6	7642	7640	8	0.004	0.000	06:00 hr	0.304	0.014	0.544	0.022	0.001	0.011
27DB3	7646	7644	8	0.009	0.007	07:15 hr	1.062	0.046	1.058	0.069	0.010	0.048
27DB0	7648	7646	8	0.004	0.007	07:00 hr	0.799	0.053	0.744	0.079	0.013	0.046
27DAD	7652	7650	8	0.013	0.028	08:00 hr	1.791	0.081	1.342	0.121	0.031	0.094
27DAA	7656	7654	8	0.021	0.007	07:15 hr	1.405	0.039	1.537	0.058	0.007	0.048
27DA7	7658	7656	8	0.010	0.007	07:00 hr	1.059	0.045	1.070	0.067	0.009	0.047
27DA4	7662	7660	8	0.005	0.016	07:01 hr	1.079	0.079	0.817	0.119	0.030	0.071
27DA1	7660	7652	8	0.006	0.018	07:16 hr	1.171	0.079	0.886	0.119	0.030	0.075
27D9E	7654	7652	8	0.004	0.008	07:16 hr	0.801	0.060	0.699	0.090	0.017	0.050
27D9B	7664	7666	8	0.230	0.004	20:28 hr	2.776	0.017	4.552	0.026	0.001	0.037
27D98	7668	7664	8	0.032	0.004	20:29 hr	1.364	0.026	1.804	0.040	0.003	0.036
27D95	7670	7668	8	0.005	0.004	20:18 hr	0.695	0.037	0.772	0.056	0.006	0.033
27D92	7672	7670	8	0.005	0.003	20:23 hr	0.648	0.034	0.751	0.052	0.005	0.030
27D8F	7674	7672	8	0.007	0.002	20:14 hr	0.678	0.028	0.871	0.042	0.003	0.026
27D8C	7676	7674	8	0.006	0.002	20:13 hr	0.583	0.025	0.786	0.038	0.003	0.023
27D89	7678	7676	8	0.004	0.001	20:01 hr	0.402	0.021	0.596	0.031	0.002	0.016

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
27D86	7680	7666	8	0.004	0.234	45:00 hr	2.149	0.324	0.784	0.486	0.476	0.280
27D83	7684	7682	8	0.009	0.000	20:00 hr	0.415	0.012	0.823	0.018	0.001	0.011
27D80	7682	7620	8	0.020	0.001	20:14 hr	0.759	0.016	1.315	0.023	0.001	0.018
27D7D	7622	7686	8	0.003	0.229	45:00 hr	2.028	0.334	0.730	0.500	0.501	0.277
27D7A	7686	7688	8	0.004	0.230	45:00 hr	2.103	0.326	0.765	0.489	0.481	0.277
27D77	7688	7680	8	0.005	0.233	44:59 hr	2.293	0.307	0.857	0.460	0.433	0.279
27D74	7690	7644	8	0.004	0.004	20:17 hr	0.656	0.040	0.702	0.060	0.007	0.034
27D71	7692	7690	8	0.002	0.002	20:15 hr	0.415	0.036	0.472	0.053	0.006	0.024
27D6E	7694	7692	8	0.003	0.001	20:01 hr	0.387	0.021	0.569	0.032	0.002	0.016
27D6B	7644	7696	8	0.003	0.012	08:15 hr	0.829	0.077	0.638	0.115	0.028	0.061
27D68	7698	7696	8	0.009	0.001	20:00 hr	0.604	0.019	0.934	0.029	0.002	0.019
27D65	7696	7700	8	0.004	0.014	08:30 hr	0.988	0.077	0.757	0.116	0.028	0.067
27D62	7700	7702	8	0.005	0.016	08:20 hr	1.062	0.079	0.808	0.118	0.029	0.070
27D5F	7702	7638	8	0.007	0.017	08:28 hr	1.220	0.076	0.945	0.114	0.027	0.074
27D5C	7638	7632	8	0.004	0.019	08:31 hr	1.063	0.089	0.760	0.133	0.038	0.077
27D59	7666	7634	8	0.002	0.239	45:00 hr	1.796	0.381	0.614	0.571	0.622	0.283
27D56	7704	7706	8	0.002	0.002	20:18 hr	0.465	0.039	0.507	0.058	0.007	0.028
27D53	7708	7704	8	0.004	0.002	20:12 hr	0.490	0.029	0.623	0.043	0.003	0.023
27D50	7710	7708	8	0.003	0.001	20:00 hr	0.347	0.020	0.535	0.029	0.002	0.014
27D4D	7706	7712	8	0.004	0.003	20:22 hr	0.612	0.037	0.686	0.055	0.006	0.030
27D4A	7712	7714	8	0.006	0.004	20:30 hr	0.749	0.036	0.843	0.055	0.006	0.033
27D47	7714	7716	8	0.002	0.004	20:28 hr	0.571	0.050	0.546	0.075	0.012	0.037
27D44	7716	7718	8	0.008	0.006	20:41 hr	0.932	0.042	0.979	0.063	0.008	0.041
27D41	7718	7720	8	0.033	0.006	20:29 hr	1.587	0.032	1.902	0.048	0.004	0.044
27D3E	7720	7634	8	0.032	0.006	20:28 hr	1.566	0.032	1.868	0.049	0.005	0.044
27D3B	7634	7722	10	0.003	0.263	45:00 hr	2.019	0.331	0.724	0.397	0.332	0.278
27D38	5258	7722	8	0.018	0.003	20:28 hr	1.047	0.027	1.375	0.040	0.003	0.031
27D35	7722	7624	10	0.002	0.267	45:00 hr	1.837	0.359	0.633	0.430	0.385	0.280
27D32	7624	7724	10	0.003	0.267	45:00 hr	1.981	0.340	0.701	0.407	0.348	0.280
27D2F	7724	7726	10	0.002	0.268	45:00 hr	1.621	0.397	0.534	0.476	0.459	0.281
27D2C	7726	7626	10	0.003	0.268	45:00 hr	2.073	0.329	0.745	0.395	0.329	0.281
27D29	7626	7628	10	0.002	0.269	45:00 hr	1.781	0.369	0.606	0.443	0.406	0.281
27D26	7628	7728	10	0.003	0.273	21:00 hr	2.033	0.338	0.721	0.406	0.346	0.283
27D23	5276	7728	10	0.030	0.074	08:44 hr	3.121	0.099	2.112	0.119	0.030	0.145
27D20	7728	1668	10	0.003	0.346	09:00 hr	2.018	0.408	0.656	0.490	0.483	0.321
27D1C	1668	1646	10	0.002	0.351	09:00 hr	1.779	0.456	0.553	0.547	0.580	0.323
27D16	1646	7730	10	0.003	0.352	08:59 hr	2.186	0.388	0.727	0.466	0.443	0.323
27D13	7730	7732	10	0.003	0.352	09:00 hr	2.089	0.403	0.683	0.483	0.472	0.324
27D10	7732	1650	10	0.009	0.353	08:59 hr	3.177	0.294	1.210	0.352	0.266	0.324
27A79	7744	7742	8	0.004	0.001	20:00 hr	0.418	0.022	0.609	0.033	0.002	0.017
27A76	7742	7746	8	0.005	0.001	20:15 hr	0.504	0.026	0.679	0.038	0.003	0.021
27A73	7748	7750	8	0.004	0.016	20:00 hr	1.015	0.081	0.758	0.122	0.032	0.071
27A70	7750	7752	8	0.009	0.016	20:15 hr	1.320	0.069	1.073	0.103	0.022	0.072
27A6D	7754	7756	8	0.003	0.015	20:01 hr	0.935	0.084	0.689	0.125	0.033	0.069
27A6A	7758	7760	8	0.004	0.011	20:01 hr	0.894	0.071	0.719	0.106	0.023	0.060
27A67	7760	7762	8	0.002	0.012	20:15 hr	0.753	0.081	0.563	0.122	0.032	0.061
27A64	7764	7766	8	0.004	0.071	20:45 hr	1.505	0.174	0.753	0.261	0.150	0.151
27A61	7768	7770	8	0.006	0.003	20:15 hr	0.671	0.031	0.821	0.046	0.004	0.028
27A5E	7746	7768	8	0.004	0.002	20:15 hr	0.496	0.029	0.628	0.043	0.004	0.023
27A5B	7772	7764	8	0.037	0.005	20:27 hr	1.539	0.028	1.970	0.042	0.003	0.040
27A58	7770	7772	8	0.003	0.004	20:28 hr	0.570	0.048	0.557	0.072	0.011	0.036
27A55	7774	7770	8	0.004	0.001	20:14 hr	0.438	0.024	0.614	0.035	0.002	0.018
27A52	7776	7774	8	0.004	0.000	20:00 hr	0.346	0.015	0.606	0.023	0.001	0.012
27A4F	7780	7778	8	0.003	0.001	20:00 hr	0.323	0.018	0.517	0.027	0.001	0.013
27A4C	7778	7782	8	0.005	0.001	20:14 hr	0.492	0.022	0.717	0.033	0.002	0.019
27A49	7782	7784	8	0.001	0.001	20:14 hr	0.295	0.036	0.332	0.055	0.006	0.021
27A46	7784	7786	8	0.003	0.002	20:27 hr	0.477	0.030	0.596	0.044	0.004	0.023
27A43	7786	7788	8	0.004	0.003	20:16 hr	0.584	0.037	0.649	0.056	0.006	0.030
27A40	7756	7790	8	0.003	0.029	20:30 hr	1.136	0.113	0.714	0.170	0.063	0.096
27A3D	7762	7756	8	0.004	0.012	20:17 hr	0.908	0.074	0.714	0.111	0.026	0.062
27A3A	7790	7792	8	0.007	0.029	20:35 hr	1.475	0.096	1.012	0.144	0.045	0.096
27A37	7792	7794	8	0.004	0.031	20:42 hr	1.202	0.114	0.755	0.170	0.063	0.099
27A34	7794	7752	8	0.008	0.031	20:44 hr	1.576	0.096	1.083	0.143	0.044	0.100

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
27A31	7752	7788	8	0.004	0.048	20:45 hr	1.428	0.138	0.809	0.207	0.094	0.124
27A2E	7788	7796	8	0.005	0.053	20:45 hr	1.586	0.137	0.903	0.205	0.092	0.130
27A2B	7798	7800	8	0.004	0.058	20:45 hr	1.421	0.157	0.752	0.236	0.122	0.136
27A28	7802	7798	8	0.002	0.057	20:45 hr	1.213	0.174	0.607	0.261	0.149	0.135
27A25	7804	7802	8	0.003	0.056	20:45 hr	1.362	0.159	0.716	0.239	0.125	0.134
27A22	7796	7804	8	0.004	0.055	20:45 hr	1.381	0.156	0.735	0.233	0.119	0.133
27A1F	7800	7764	8	0.005	0.060	20:45 hr	1.546	0.151	0.835	0.227	0.113	0.138
27A1C	7806	7764	8	0.005	0.005	20:24 hr	0.762	0.047	0.755	0.070	0.010	0.041
27A19	7808	7806	8	0.005	0.004	20:16 hr	0.690	0.040	0.745	0.059	0.007	0.034
27A16	7810	7808	8	0.005	0.002	20:15 hr	0.565	0.028	0.731	0.041	0.003	0.024
27A13	7812	7810	8	0.005	0.001	20:00 hr	0.396	0.017	0.646	0.026	0.001	0.014
277B5	7814	7816	8	0.007	0.012	20:15 hr	1.125	0.064	0.951	0.096	0.019	0.062
277B2	7818	7814	8	0.004	0.012	20:00 hr	0.925	0.072	0.738	0.107	0.024	0.061
277AF	7820	7822	8	0.007	0.070	20:15 hr	1.902	0.147	1.043	0.220	0.106	0.150
277AC	7824	7820	8	0.004	0.059	20:01 hr	1.491	0.155	0.795	0.232	0.119	0.138
277A9	7826	7828	8	0.007	0.001	20:00 hr	0.473	0.017	0.781	0.026	0.001	0.015
277A6	7828	7830	8	0.009	0.003	20:15 hr	0.776	0.028	0.993	0.042	0.003	0.028
277A3	7822	7832	8	0.003	0.071	20:31 hr	1.422	0.181	0.697	0.272	0.161	0.151
277A0	7832	7834	8	0.005	0.073	20:31 hr	1.700	0.163	0.883	0.244	0.131	0.153
2779D	7834	7816	8	0.016	0.073	20:44 hr	2.535	0.124	1.524	0.185	0.075	0.153
2779A	7830	7836	8	0.005	0.037	20:31 hr	1.362	0.119	0.837	0.178	0.069	0.108
27797	7838	7830	8	0.002	0.032	20:29 hr	0.987	0.134	0.568	0.201	0.089	0.101
27794	7840	7842	8	0.005	0.001	20:00 hr	0.512	0.024	0.712	0.036	0.002	0.020
27791	7842	7838	8	0.011	0.018	20:01 hr	1.467	0.068	1.204	0.102	0.022	0.074
2778E	7844	7838	8	0.003	0.002	20:01 hr	0.483	0.031	0.590	0.046	0.004	0.024
2778B	7816	7846	8	0.003	0.086	44:45 hr	1.526	0.199	0.711	0.298	0.193	0.167
27788	7846	7836	8	0.012	0.088	20:45 hr	2.465	0.144	1.367	0.216	0.102	0.169
27785	7836	7848	8	0.004	0.127	44:46 hr	1.893	0.225	0.824	0.338	0.246	0.204
27782	7848	7850	8	0.002	0.128	20:45 hr	1.438	0.278	0.563	0.417	0.363	0.204
2777F	7850	7852	8	0.003	0.128	44:58 hr	1.612	0.256	0.657	0.384	0.312	0.205
2777C	7854	7856	8	0.004	0.001	20:00 hr	0.334	0.016	0.569	0.024	0.001	0.012
27779	7852	7858	8	0.005	0.129	44:56 hr	1.999	0.219	0.884	0.328	0.233	0.205
27776	7858	7860	8	0.005	0.129	44:56 hr	1.931	0.225	0.841	0.337	0.245	0.206
27773	7856	7860	8	0.004	0.002	20:13 hr	0.486	0.026	0.643	0.040	0.003	0.021
27770	7860	7862	8	0.003	0.131	44:56 hr	1.676	0.253	0.688	0.379	0.305	0.207
2776D	7650	7864	8	0.015	0.028	08:00 hr	1.913	0.078	1.458	0.117	0.029	0.095
2776A	7862	7864	8	0.007	0.132	44:59 hr	2.288	0.202	1.057	0.303	0.199	0.208
27767	7864	7866	8	0.003	0.152	44:56 hr	1.812	0.266	0.725	0.399	0.335	0.224
27764	7866	7868	8	0.007	0.153	44:59 hr	2.302	0.223	1.007	0.335	0.242	0.224
27761	7868	7870	8	0.003	0.153	44:58 hr	1.688	0.282	0.656	0.423	0.373	0.224
2775E	7870	7872	8	0.005	0.154	45:00 hr	2.018	0.248	0.836	0.372	0.294	0.225
2775B	7872	7874	8	0.002	0.155	44:59 hr	1.500	0.311	0.557	0.466	0.443	0.225
27758	7874	7876	8	0.003	0.155	45:00 hr	1.687	0.285	0.653	0.427	0.379	0.226
27755	7878	7830	8	0.004	0.227	44:59 hr	2.199	0.311	0.816	0.467	0.444	0.275
27752	7766	7878	8	0.003	0.071	20:45 hr	1.451	0.180	0.714	0.270	0.159	0.151
2774F	7876	7878	8	0.004	0.156	44:59 hr	1.933	0.258	0.785	0.387	0.317	0.226
276ED	2002	7932	8	0.036	0.467	07:59 hr	5.809	0.258	2.360	0.386	0.316	0.402
276E7	7934	6736	12	0.006	0.322	08:16 hr	2.662	0.288	1.032	0.288	0.181	0.293
276E4	7936	7934	12	0.002	0.306	08:15 hr	1.775	0.373	0.600	0.373	0.296	0.285
276E1	7938	7940	12	0.002	0.280	08:03 hr	1.729	0.356	0.598	0.356	0.271	0.272
276DE	2306	7938	12	0.003	0.273	08:01 hr	1.899	0.326	0.688	0.326	0.230	0.269
276DB	7942	2304	12	0.002	0.082	07:33 hr	1.214	0.190	0.588	0.190	0.079	0.145
276D8	7944	7942	12	0.002	0.054	07:18 hr	1.075	0.154	0.580	0.154	0.052	0.117
276D2	7950	7946	12	0.002	0.234	07:59 hr	1.647	0.323	0.600	0.323	0.226	0.248
276CF	7952	7950	12	0.002	0.193	07:48 hr	1.559	0.293	0.598	0.293	0.187	0.225
276CC	7954	7952	12	0.002	0.142	07:37 hr	1.427	0.251	0.597	0.251	0.138	0.192
276C9	7920	7954	12	0.002	0.080	07:20 hr	1.208	0.189	0.587	0.189	0.078	0.144
276C2	7928	LS13	12	0.003	0.539	08:00 hr	2.243	0.479	0.672	0.479	0.465	0.382
276BC	7948	7944	12	0.002	0.028	07:05 hr	0.881	0.113	0.558	0.113	0.027	0.084
276B9	7940	7936	12	0.002	0.282	08:03 hr	1.733	0.357	0.598	0.357	0.273	0.273
27659	7958	7956	8	0.004	0.015	20:02 hr	0.940	0.083	0.695	0.124	0.033	0.069
27613	7956	7960	8	0.003	0.018	20:17 hr	0.973	0.091	0.687	0.136	0.040	0.075
275D9	7962	7960	8	0.003	0.003	20:17 hr	0.546	0.037	0.612	0.055	0.006	0.029

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
275D5	7964	7962	8	0.004	0.001	20:00 hr	0.379	0.019	0.597	0.028	0.001	0.014
27565	7968	7966	8	0.004	0.021	20:03 hr	1.045	0.097	0.711	0.146	0.046	0.082
2751F	7966	7970	8	0.004	0.024	20:17 hr	1.079	0.104	0.711	0.155	0.052	0.087
274CD	7972	7970	8	0.003	0.003	20:17 hr	0.548	0.037	0.610	0.056	0.006	0.029
274C9	7974	7972	8	0.003	0.001	20:00 hr	0.372	0.021	0.555	0.031	0.002	0.016
274C5	7978	7976	8	0.004	0.018	20:16 hr	1.011	0.090	0.717	0.135	0.039	0.076
27473	7980	7978	8	0.003	0.014	20:02 hr	0.879	0.084	0.646	0.126	0.034	0.067
27427	7982	7978	8	0.002	0.001	20:02 hr	0.388	0.029	0.493	0.043	0.004	0.020
273CF	7986	7984	8	0.004	0.135	44:57 hr	1.837	0.241	0.771	0.362	0.280	0.210
273CB	7984	7988	8	0.003	0.137	45:00 hr	1.750	0.253	0.718	0.379	0.306	0.212
273C7	7988	7990	8	0.004	0.139	44:59 hr	1.805	0.249	0.747	0.373	0.296	0.213
2737E	7992	7976	8	0.003	0.025	08:03 hr	1.024	0.110	0.656	0.164	0.059	0.088
2732C	7976	7994	8	0.003	0.046	20:32 hr	1.289	0.144	0.714	0.216	0.102	0.121
272E3	7996	7994	8	0.004	0.002	20:02 hr	0.486	0.028	0.624	0.042	0.003	0.022
272DF	7998	7960	8	0.003	0.080	20:46 hr	1.510	0.191	0.720	0.286	0.178	0.161
272DB	7960	7970	8	0.003	0.104	20:45 hr	1.616	0.218	0.715	0.328	0.232	0.184
272D7	7970	8000	8	0.004	0.132	44:56 hr	1.925	0.229	0.831	0.344	0.254	0.208
272D3	8000	8002	8	0.003	0.134	20:46 hr	1.759	0.247	0.730	0.370	0.292	0.209
272CF	8002	7986	8	0.003	0.135	44:57 hr	1.711	0.254	0.701	0.380	0.307	0.210
272CB	7994	8004	8	0.004	0.050	20:42 hr	1.358	0.147	0.746	0.220	0.106	0.126
272C7	8004	8006	8	0.003	0.051	20:45 hr	1.299	0.154	0.695	0.231	0.117	0.128
272C3	8006	8008	8	0.004	0.053	08:46 hr	1.365	0.151	0.737	0.227	0.113	0.130
2701C	8012	8010	8	0.003	0.019	20:02 hr	0.978	0.094	0.677	0.142	0.043	0.077
27018	8010	8014	8	0.004	0.022	20:16 hr	1.082	0.097	0.739	0.145	0.045	0.083
27014	8016	8014	8	0.004	0.003	20:15 hr	0.563	0.036	0.638	0.054	0.006	0.029
27010	8018	8016	8	0.003	0.001	20:00 hr	0.340	0.020	0.514	0.030	0.002	0.015
2700C	8022	8020	8	0.004	0.010	20:01 hr	0.838	0.067	0.692	0.101	0.021	0.056
27008	8020	8024	8	0.003	0.013	20:17 hr	0.867	0.077	0.665	0.116	0.028	0.063
27004	8026	8024	8	0.004	0.003	20:17 hr	0.564	0.036	0.642	0.053	0.006	0.029
27000	8028	8026	8	0.002	0.001	20:00 hr	0.283	0.022	0.411	0.033	0.002	0.014
26FFC	8032	8030	8	0.004	0.008	20:02 hr	0.775	0.059	0.680	0.089	0.016	0.049
26FF8	8030	8034	8	0.003	0.011	20:17 hr	0.838	0.070	0.675	0.105	0.023	0.058
26FF4	8036	8034	8	0.004	0.002	20:02 hr	0.564	0.034	0.658	0.051	0.005	0.027
26FF0	8040	8038	8	0.004	0.006	20:02 hr	0.720	0.055	0.660	0.082	0.014	0.044
26FEC	8038	8042	8	0.004	0.013	20:17 hr	0.910	0.077	0.698	0.116	0.028	0.064
26FE8	8044	8042	8	0.004	0.002	20:02 hr	0.519	0.031	0.636	0.046	0.004	0.025
26FE4	8042	8034	8	0.003	0.018	20:31 hr	0.968	0.091	0.681	0.137	0.040	0.075
26FE0	8034	8046	8	0.003	0.033	20:34 hr	1.121	0.124	0.672	0.186	0.076	0.101
26FDC	8046	8048	8	0.003	0.034	20:41 hr	1.177	0.124	0.707	0.186	0.075	0.104
26FD8	8048	8024	8	0.003	0.036	20:42 hr	1.140	0.131	0.664	0.196	0.084	0.106
26FD4	8024	8014	8	0.004	0.053	20:45 hr	1.383	0.150	0.750	0.225	0.111	0.130
26FD0	8014	7998	8	0.004	0.079	20:45 hr	1.662	0.175	0.829	0.263	0.151	0.159
26FA6	8052	8050	8	0.004	0.001	06:02 hr	0.412	0.023	0.590	0.034	0.002	0.017
26FA3	8050	8054	8	0.004	0.003	08:01 hr	0.607	0.039	0.663	0.058	0.007	0.031
26FA0	8056	8058	8	0.002	0.006	20:29 hr	0.616	0.061	0.535	0.091	0.017	0.044
26F9D	8060	8056	8	0.008	0.006	20:15 hr	0.921	0.043	0.949	0.065	0.008	0.042
26C29	8064	8062	8	0.004	0.001	20:00 hr	0.395	0.019	0.614	0.029	0.002	0.015
26C26	8062	8060	8	0.004	0.002	20:14 hr	0.577	0.033	0.681	0.050	0.005	0.027
26C23	8066	8060	8	0.004	0.002	06:02 hr	0.507	0.029	0.638	0.044	0.004	0.023
26C20	8068	8070	8	0.003	0.006	20:30 hr	0.677	0.053	0.629	0.080	0.013	0.042
26C1D	8072	8068	8	0.020	0.001	06:00 hr	0.656	0.012	1.271	0.019	0.001	0.014
26C1A	8074	8068	8	0.003	0.004	20:17 hr	0.563	0.046	0.561	0.069	0.010	0.035
26C17	8076	8074	8	0.005	0.002	20:01 hr	0.557	0.029	0.708	0.043	0.004	0.024
26C14	8080	8078	8	0.003	0.015	20:43 hr	0.912	0.086	0.664	0.128	0.035	0.070
26C11	8082	8080	8	0.004	0.013	20:42 hr	0.938	0.074	0.738	0.110	0.026	0.063
26C0E	8070	8082	8	0.003	0.012	20:30 hr	0.877	0.075	0.681	0.113	0.027	0.062
26C0B	8084	8070	8	0.004	0.005	20:16 hr	0.688	0.046	0.685	0.069	0.010	0.038
26C08	8086	8084	8	0.003	0.002	20:02 hr	0.526	0.035	0.608	0.052	0.005	0.027
26C05	8088	8054	8	0.021	0.001	20:00 hr	0.781	0.015	1.362	0.023	0.001	0.018
26C02	8078	2362	8	0.020	0.024	20:50 hr	1.961	0.068	1.610	0.102	0.022	0.086
26BFF	8054	8078	8	0.017	0.006	20:24 hr	1.228	0.037	1.369	0.056	0.006	0.043
26BFC	8090	8092	8	0.007	0.002	20:01 hr	0.657	0.028	0.850	0.041	0.003	0.025
26BF9	8094	8092	8	0.004	0.002	06:02 hr	0.486	0.027	0.630	0.041	0.003	0.022

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
26BF6	8092	8096	8	0.003	0.005	20:15 hr	0.626	0.054	0.577	0.081	0.013	0.041
26863	8100	8098	8	0.003	0.002	08:02 hr	0.447	0.030	0.551	0.046	0.004	0.023
26860	8102	8098	8	0.008	0.002	20:02 hr	0.661	0.026	0.877	0.039	0.003	0.025
2685D	8096	8098	8	0.003	0.007	20:24 hr	0.733	0.057	0.656	0.086	0.015	0.046
2685A	8098	8104	8	0.010	0.012	20:29 hr	1.256	0.059	1.107	0.088	0.016	0.062
26857	8106	8104	8	0.003	0.002	06:02 hr	0.450	0.029	0.566	0.044	0.004	0.022
26854	8104	8108	8	0.004	0.016	20:30 hr	0.968	0.084	0.711	0.126	0.034	0.071
26851	8110	8108	8	0.023	0.000	20:00 hr	0.613	0.010	1.325	0.015	0.000	0.011
2684E	8108	8112	8	0.006	0.018	20:40 hr	1.204	0.079	0.914	0.118	0.030	0.075
2684B	8116	8114	8	0.004	0.001	06:02 hr	0.430	0.022	0.620	0.033	0.002	0.017
26848	8114	8112	8	0.004	0.003	20:16 hr	0.605	0.040	0.653	0.059	0.007	0.032
26845	8112	2364	8	0.019	0.023	20:43 hr	1.916	0.068	1.569	0.102	0.022	0.085
26842	8120	8118	8	0.003	0.001	20:00 hr	0.315	0.017	0.516	0.026	0.001	0.012
2683F	8118	8122	8	0.005	0.002	20:16 hr	0.589	0.029	0.748	0.043	0.004	0.025
2683C	8124	8122	8	0.003	0.002	20:01 hr	0.493	0.031	0.599	0.047	0.004	0.024
26839	8128	8126	8	0.004	0.001	20:00 hr	0.383	0.020	0.577	0.031	0.002	0.016
26836	8126	8130	8	0.006	0.002	20:15 hr	0.645	0.029	0.814	0.044	0.004	0.026
26833	8132	8130	8	0.003	0.002	06:02 hr	0.475	0.030	0.592	0.045	0.004	0.023
26830	8058	8122	8	0.003	0.008	20:30 hr	0.692	0.063	0.589	0.095	0.019	0.048
2682D	8122	8130	8	0.003	0.013	20:30 hr	0.882	0.079	0.670	0.118	0.030	0.064
2682A	8130	8134	8	0.011	0.018	20:36 hr	1.495	0.069	1.215	0.103	0.022	0.076
26827	8134	8136	8	0.003	0.020	20:45 hr	0.977	0.097	0.667	0.145	0.045	0.079
26824	8138	8136	8	0.004	0.001	06:03 hr	0.445	0.025	0.599	0.038	0.003	0.020
26821	8142	8140	8	0.004	0.001	20:00 hr	0.359	0.019	0.568	0.028	0.001	0.014
2681E	8136	8144	8	0.004	0.025	20:42 hr	1.118	0.104	0.736	0.156	0.053	0.089
2681B	8140	8136	8	0.007	0.002	20:13 hr	0.673	0.029	0.853	0.043	0.004	0.027
26530	8144	8146	8	0.004	0.027	20:45 hr	1.165	0.105	0.763	0.157	0.054	0.091
2652D	8148	8146	8	0.004	0.002	20:02 hr	0.548	0.031	0.673	0.046	0.004	0.025
2652A	8150	8146	8	0.004	0.001	06:02 hr	0.498	0.026	0.667	0.038	0.003	0.021
26527	7990	8152	8	0.002	0.139	45:00 hr	1.556	0.278	0.609	0.418	0.364	0.213
26524	8146	8154	8	0.004	0.032	20:44 hr	1.268	0.112	0.801	0.169	0.062	0.100
26521	8152	8154	8	0.004	0.141	45:00 hr	1.798	0.252	0.738	0.378	0.304	0.215
2651E	8154	8156	8	0.003	0.175	45:00 hr	1.832	0.293	0.699	0.440	0.400	0.240
2651B	8156	8158	8	0.003	0.176	21:00 hr	1.865	0.291	0.714	0.437	0.395	0.241
26518	8158	8160	8	0.004	0.178	45:00 hr	1.933	0.286	0.747	0.428	0.382	0.243
26515	8164	8162	8	0.004	0.001	06:02 hr	0.433	0.024	0.602	0.036	0.002	0.019
26512	8168	8166	8	0.004	0.193	45:00 hr	2.036	0.292	0.779	0.437	0.396	0.253
2650F	8170	8162	8	0.006	0.002	20:02 hr	0.612	0.027	0.800	0.040	0.003	0.024
2650C	8172	8160	8	0.014	0.002	20:01 hr	0.863	0.025	1.168	0.038	0.003	0.027
26509	8166	2366	8	0.009	0.195	21:00 hr	2.822	0.231	1.214	0.346	0.257	0.255
26506	8160	8168	8	0.004	0.189	45:00 hr	1.971	0.294	0.751	0.441	0.402	0.250
26503	8162	8160	8	0.011	0.006	20:15 hr	1.045	0.039	1.143	0.058	0.007	0.041
26500	8176	8174	10	0.057	0.374	08:59 hr	6.335	0.187	3.079	0.224	0.110	0.334
2610D	8180	8178	8	0.004	0.002	20:02 hr	0.517	0.027	0.675	0.041	0.003	0.022
2610A	8182	8178	8	0.004	0.001	19:58 hr	0.360	0.017	0.602	0.025	0.001	0.013
26107	8182	8184	8	0.004	0.001	20:00 hr	0.338	0.017	0.566	0.025	0.001	0.013
26104	8008	8186	8	0.002	0.053	08:45 hr	1.157	0.172	0.584	0.258	0.146	0.130
26101	8188	8190	8	0.003	0.005	07:16 hr	0.656	0.049	0.638	0.073	0.011	0.039
260FE	8184	8188	8	0.005	0.003	07:01 hr	0.647	0.033	0.760	0.050	0.005	0.029
260FB	8182	8190	8	0.008	0.001	20:01 hr	0.510	0.017	0.852	0.025	0.001	0.015
260F8	8192	8194	8	0.004	0.001	07:02 hr	0.475	0.026	0.636	0.039	0.003	0.021
260F5	8186	8196	8	0.003	0.055	44:59 hr	1.337	0.158	0.706	0.236	0.123	0.132
260F2	8200	8198	8	0.011	0.002	06:01 hr	0.784	0.025	1.063	0.037	0.003	0.026
260EF	8190	8198	8	0.005	0.007	08:00 hr	0.826	0.055	0.752	0.083	0.014	0.048
260EC	8202	8192	8	0.002	0.000	06:00 hr	0.174	0.009	0.399	0.013	0.000	0.006
260E9	8204	8194	8	0.015	0.003	06:01 hr	0.931	0.027	1.216	0.040	0.003	0.030
260E6	8178	8196	8	0.014	0.004	20:14 hr	1.006	0.031	1.227	0.047	0.004	0.034
260E3	8196	8198	8	0.001	0.060	44:58 hr	0.747	0.257	0.304	0.386	0.315	0.139
260E0	8198	8194	8	0.003	0.071	08:45 hr	1.447	0.179	0.713	0.269	0.158	0.151
260DD	8194	8206	8	0.005	0.077	08:45 hr	1.719	0.168	0.878	0.252	0.139	0.157
260DA	8208	8210	8	0.005	0.001	06:02 hr	0.486	0.024	0.669	0.037	0.002	0.020
260D7	8214	8212	8	0.004	0.000	06:00 hr	0.247	0.010	0.545	0.014	0.000	0.007
260D4	8216	8218	8	0.004	0.003	20:02 hr	0.588	0.037	0.652	0.056	0.006	0.030

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
260D1	8220	8222	8	0.011	0.002	20:01 hr	0.728	0.024	1.018	0.035	0.002	0.024
260CE	8212	8222	8	0.003	0.004	07:01 hr	0.586	0.042	0.610	0.064	0.008	0.033
260CB	8226	8224	8	0.008	0.001	06:01 hr	0.586	0.020	0.881	0.030	0.002	0.019
260C8	8228	8224	8	0.013	0.002	20:01 hr	0.813	0.024	1.130	0.036	0.002	0.025
260C5	8218	8222	8	0.014	0.010	07:00 hr	1.333	0.048	1.306	0.072	0.010	0.055
260C2	8222	8224	8	0.004	0.018	08:13 hr	1.016	0.088	0.730	0.131	0.037	0.075
260BF	8224	8230	8	0.003	0.023	08:15 hr	1.045	0.102	0.696	0.152	0.050	0.085
25CAE	8234	8232	8	0.016	0.003	06:01 hr	0.959	0.026	1.275	0.039	0.003	0.030
25CAB	8238	8236	8	0.003	0.084	08:45 hr	1.520	0.196	0.714	0.294	0.188	0.165
25CA8	8206	8238	8	0.004	0.078	08:45 hr	1.616	0.177	0.801	0.266	0.155	0.158
25CA5	8240	8238	8	0.013	0.003	06:01 hr	0.914	0.029	1.150	0.043	0.004	0.031
25CA2	8210	8238	8	0.007	0.002	20:13 hr	0.680	0.029	0.858	0.044	0.004	0.027
25C9F	8242	8236	8	0.013	0.003	06:01 hr	0.916	0.028	1.171	0.042	0.003	0.030
25C9C	8244	8236	8	0.004	0.001	06:02 hr	0.452	0.026	0.600	0.039	0.003	0.020
25C99	8236	8246	8	0.004	0.090	08:45 hr	1.583	0.200	0.736	0.299	0.195	0.170
25C96	8250	8248	8	0.004	0.001	06:02 hr	0.449	0.025	0.614	0.037	0.003	0.019
25C93	8252	8248	8	0.012	0.004	20:01 hr	0.983	0.035	1.128	0.052	0.005	0.037
25C90	8256	8254	8	0.005	0.002	06:01 hr	0.534	0.025	0.720	0.038	0.003	0.022
25C8D	8258	8254	8	0.009	0.002	20:01 hr	0.695	0.024	0.961	0.036	0.002	0.024
25C8A	8262	8260	8	0.007	0.002	06:01 hr	0.627	0.024	0.862	0.037	0.003	0.023
25C87	8264	8260	8	0.008	0.002	20:01 hr	0.648	0.024	0.892	0.037	0.002	0.023
25C84	8268	8266	8	0.009	0.002	06:01 hr	0.652	0.023	0.925	0.034	0.002	0.022
25C81	8270	8266	8	0.009	0.002	20:01 hr	0.669	0.023	0.952	0.034	0.002	0.022
25C7E	8260	8266	8	0.003	0.042	08:36 hr	1.231	0.140	0.694	0.209	0.096	0.116
25C7B	8254	8260	8	0.003	0.037	08:30 hr	1.215	0.128	0.717	0.192	0.080	0.108
25C78	8248	8254	8	0.004	0.031	08:25 hr	1.171	0.117	0.724	0.176	0.067	0.099
25C75	8230	8248	8	0.003	0.024	08:29 hr	0.996	0.109	0.638	0.164	0.058	0.087
25C72	8266	8272	8	0.004	0.047	08:39 hr	1.363	0.141	0.764	0.212	0.098	0.123
25C6F	8274	8276	8	0.008	0.052	08:45 hr	1.816	0.123	1.093	0.185	0.074	0.129
25C6C	8272	8274	8	0.004	0.049	08:45 hr	1.392	0.142	0.778	0.213	0.099	0.125
25C69	8278	8274	8	0.004	0.002	07:00 hr	0.515	0.028	0.663	0.042	0.003	0.023
25936	8280	8282	8	0.004	0.002	20:02 hr	0.491	0.029	0.617	0.044	0.004	0.023
25927	8276	8176	8	0.025	0.053	08:42 hr	2.729	0.094	1.892	0.141	0.043	0.130
25924	8246	8284	8	0.002	0.091	08:45 hr	1.368	0.224	0.598	0.336	0.243	0.171
25921	8284	8286	8	0.005	0.097	08:45 hr	1.827	0.191	0.871	0.286	0.178	0.178
2591E	8232	8284	8	0.013	0.004	08:14 hr	0.990	0.032	1.184	0.048	0.005	0.035
2591B	8288	8284	8	0.003	0.002	06:01 hr	0.465	0.028	0.594	0.042	0.003	0.022
25918	8290	8286	8	0.016	0.006	07:01 hr	1.228	0.039	1.338	0.058	0.007	0.045
25915	8292	8286	8	0.006	0.002	20:01 hr	0.578	0.027	0.759	0.040	0.003	0.023
25912	8296	8294	8	0.014	0.002	20:01 hr	0.804	0.022	1.162	0.033	0.002	0.024
2590F	8298	8294	8	0.005	0.002	06:02 hr	0.527	0.026	0.706	0.038	0.003	0.022
2590C	8286	8294	8	0.001	0.107	08:57 hr	1.072	0.303	0.403	0.455	0.425	0.187
25909	8302	8300	8	0.015	0.002	20:01 hr	0.809	0.022	1.185	0.032	0.002	0.023
25906	8294	8300	8	0.005	0.113	08:58 hr	1.851	0.210	0.837	0.315	0.215	0.191
25903	8300	8304	8	0.003	0.116	08:58 hr	1.533	0.247	0.637	0.370	0.292	0.195
25900	8304	8282	8	0.005	0.118	09:00 hr	1.989	0.206	0.909	0.309	0.207	0.196
258FA	8306	8308	10	0.003	0.193	08:16 hr	1.806	0.285	0.698	0.342	0.252	0.237
258F7	8308	8310	10	0.002	0.194	08:16 hr	1.670	0.304	0.625	0.365	0.284	0.238
258F4	8310	8312	10	0.003	0.196	08:24 hr	1.790	0.291	0.686	0.349	0.261	0.239
258F1	8174	2356	10	0.002	0.374	09:00 hr	1.957	0.444	0.614	0.533	0.557	0.334
258EE	8312	8314	10	0.002	0.317	09:00 hr	1.767	0.423	0.566	0.507	0.512	0.306
258EB	8314	8176	10	0.003	0.321	09:00 hr	2.014	0.385	0.672	0.462	0.436	0.308
258E8	8282	8312	8	0.003	0.120	08:59 hr	1.667	0.238	0.706	0.356	0.272	0.198
258E2	8318	8316	8	0.006	0.005	20:23 hr	0.811	0.042	0.847	0.063	0.008	0.039
256DE	1672	8320	8	0.003	0.021	08:29 hr	1.016	0.097	0.693	0.146	0.046	0.081
255D7	8322	2398	8	0.004	0.031	20:46 hr	1.206	0.114	0.756	0.171	0.064	0.099
254E0	8324	8318	8	0.006	0.003	08:14 hr	0.674	0.032	0.810	0.048	0.004	0.029
25477	2400	8326	8	0.006	0.036	20:45 hr	1.464	0.110	0.935	0.165	0.059	0.106
2545C	8330	8328	8	0.011	0.002	06:00 hr	0.798	0.026	1.071	0.038	0.003	0.027
25459	8320	8332	8	0.004	0.021	20:43 hr	1.049	0.097	0.716	0.146	0.046	0.082
25456	8332	8328	8	0.004	0.023	20:43 hr	1.123	0.096	0.769	0.144	0.045	0.084
25453	8328	8334	8	0.004	0.026	20:44 hr	1.136	0.106	0.740	0.159	0.055	0.091
25450	8334	8336	8	0.004	0.027	20:45 hr	1.166	0.107	0.757	0.160	0.056	0.093

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2544D	8336	8322	8	0.003	0.029	20:45 hr	1.133	0.113	0.714	0.169	0.062	0.095
2544A	8316	7074	8	0.010	0.046	20:45 hr	1.883	0.111	1.197	0.166	0.060	0.122
25447	8338	8316	8	0.004	0.041	20:57 hr	1.321	0.130	0.774	0.194	0.083	0.114
25444	8326	8338	8	0.003	0.040	20:45 hr	1.221	0.134	0.703	0.201	0.089	0.112
25441	8340	8324	8	0.010	0.001	20:00 hr	0.637	0.020	0.977	0.030	0.002	0.020
2543E	8344	8342	8	0.012	0.001	06:01 hr	0.672	0.019	1.038	0.029	0.002	0.020
2543B	8342	8326	8	0.015	0.003	20:14 hr	0.953	0.027	1.258	0.040	0.003	0.030
25432	8346	2354	8	0.004	0.089	31:59 hr	1.634	0.194	0.772	0.290	0.184	0.170
2542C	8348	8352	8	0.003	0.016	07:01 hr	0.908	0.087	0.656	0.130	0.036	0.070
25429	8356	8354	8	0.026	0.017	07:00 hr	1.950	0.053	1.807	0.080	0.013	0.072
25426	8360	8358	8	0.013	0.011	07:00 hr	1.356	0.053	1.263	0.079	0.013	0.059
25423	8352	8354	8	0.006	0.044	07:16 hr	1.522	0.124	0.914	0.186	0.075	0.118
25420	8354	8362	8	0.006	0.083	07:31 hr	1.885	0.167	0.965	0.250	0.137	0.164
2541D	8362	8358	8	0.007	0.111	07:44 hr	2.136	0.188	1.026	0.282	0.173	0.190
2541A	8358	2306	8	0.007	0.137	07:45 hr	2.261	0.210	1.022	0.315	0.215	0.212
25405	8368	8364	4	0.002	0.006	07:00 hr	0.600	0.081	0.442	0.243	0.129	0.053
25402	8372	8370	8	0.013	0.016	07:00 hr	1.502	0.063	1.278	0.095	0.019	0.071
253FF	8366	8374	4	0.029	0.042	07:30 hr	2.894	0.101	1.891	0.303	0.199	0.140
253FC	8370	8346	8	0.004	0.086	07:45 hr	1.612	0.190	0.769	0.285	0.178	0.166
253F9	8374	8370	6	0.005	0.066	07:42 hr	1.747	0.168	0.879	0.337	0.245	0.158
24F01	8376	7202	8	0.039	0.020	20:43 hr	2.377	0.053	2.211	0.079	0.013	0.079
24EFE	8378	8376	8	0.004	0.018	20:42 hr	0.992	0.090	0.703	0.135	0.039	0.075
24EFB	8380	8378	8	0.004	0.016	20:31 hr	0.967	0.085	0.705	0.128	0.035	0.071
24EF8	8382	8380	8	0.004	0.015	20:30 hr	0.945	0.083	0.700	0.124	0.033	0.069
24EF5	8384	8386	8	0.007	0.010	20:30 hr	1.044	0.059	0.916	0.089	0.016	0.057
24EF2	8388	8384	8	0.004	0.010	20:37 hr	0.822	0.066	0.684	0.099	0.020	0.054
24EEF	8390	8388	8	0.004	0.009	20:27 hr	0.796	0.063	0.680	0.094	0.018	0.051
24EEC	8392	8390	8	0.004	0.006	20:16 hr	0.728	0.055	0.665	0.082	0.014	0.045
24EE9	8394	8392	8	0.004	0.005	20:15 hr	0.663	0.047	0.652	0.071	0.010	0.038
24EE6	8396	8394	8	0.003	0.003	20:01 hr	0.569	0.038	0.624	0.057	0.006	0.030
24EE3	8398	7184	8	0.014	0.114	20:45 hr	2.798	0.157	1.481	0.236	0.122	0.192
24EE0	8386	8398	8	0.003	0.113	20:44 hr	1.683	0.226	0.732	0.339	0.247	0.192
24EDD	8400	8386	8	0.004	0.102	20:45 hr	1.641	0.214	0.735	0.320	0.222	0.182
24EDA	8402	8400	8	0.004	0.100	20:45 hr	1.642	0.210	0.742	0.315	0.215	0.180
24ED7	8404	8402	8	0.004	0.098	20:45 hr	1.637	0.207	0.745	0.311	0.210	0.178
24ED4	8406	8404	8	0.004	0.022	20:39 hr	1.125	0.095	0.776	0.142	0.044	0.083
24ED1	8408	8406	8	0.004	0.020	20:36 hr	1.024	0.094	0.710	0.141	0.043	0.079
24ECE	8412	8410	8	0.004	0.001	20:00 hr	0.430	0.024	0.591	0.037	0.003	0.019
24ECB	8410	8414	8	0.004	0.003	20:15 hr	0.549	0.035	0.628	0.053	0.005	0.028
24EC8	8414	8416	8	0.004	0.005	20:30 hr	0.661	0.048	0.650	0.071	0.010	0.038
24EC5	8418	8416	8	0.022	0.057	20:44 hr	2.688	0.100	1.802	0.150	0.049	0.135
24EC2	8420	8418	8	0.004	0.055	20:31 hr	1.381	0.154	0.737	0.232	0.118	0.132
24EBF	8422	8420	8	0.007	0.049	20:16 hr	1.660	0.126	0.986	0.189	0.078	0.125
24EBC	8424	8422	8	0.004	0.033	20:01 hr	1.290	0.113	0.811	0.170	0.063	0.102
24EB9	8426	8416	8	0.004	0.010	20:01 hr	0.835	0.068	0.683	0.102	0.022	0.056
24EB6	8416	8428	8	0.004	0.073	20:42 hr	1.505	0.179	0.743	0.268	0.157	0.153
24EB3	8428	8404	8	0.004	0.074	20:44 hr	1.522	0.179	0.750	0.269	0.158	0.155
24EB0	8430	8382	8	0.004	0.014	20:30 hr	0.931	0.080	0.704	0.119	0.030	0.067
24EAD	8432	8430	8	0.005	0.013	20:29 hr	0.996	0.072	0.794	0.107	0.024	0.064
24EAA	8434	8432	8	0.005	0.011	20:16 hr	0.965	0.066	0.805	0.098	0.020	0.059
24EA7	8436	8434	8	0.007	0.008	20:16 hr	1.009	0.051	0.957	0.076	0.012	0.050
24EA4	8438	8440	8	0.006	0.008	20:00 hr	0.895	0.053	0.828	0.080	0.013	0.049
24EA1	8440	8442	8	0.005	0.010	20:15 hr	0.925	0.062	0.793	0.093	0.018	0.055
24E9E	8442	8408	8	0.020	0.012	20:28 hr	1.618	0.048	1.576	0.073	0.011	0.061
24E9B	8444	8408	8	0.003	0.006	20:16 hr	0.712	0.054	0.655	0.081	0.013	0.044
24E98	8446	8444	8	0.019	0.004	20:15 hr	1.095	0.028	1.401	0.042	0.003	0.033
24E95	8448	8446	8	0.013	0.002	20:00 hr	0.787	0.023	1.124	0.034	0.002	0.024
24E92	8450	8448	8	0.008	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
24E8F	8450	8436	8	0.003	0.005	20:01 hr	0.649	0.047	0.642	0.070	0.010	0.038
24E8C	8452	8436	8	0.013	0.001	08:00 hr	0.560	0.013	1.047	0.020	0.001	0.014
24E89	8456	8454	12	0.029	0.004	07:00 hr	1.205	0.023	1.707	0.023	0.001	0.030
24E7D	8464	8462	8	0.000	0.008	07:00 hr	0.096	0.253	0.040	0.379	0.305	0.049
24E74	8468	8470	15	0.001	0.887	09:00 hr	2.036	0.673	0.520	0.539	0.566	0.463

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
24E71	8470	8472	15	0.001	0.940	09:00 hr	2.064	0.698	0.519	0.558	0.600	0.477
24E62	8454	8480	12	0.002	0.008	07:18 hr	0.605	0.064	0.514	0.064	0.008	0.046
24E5F	8480	8482	12	0.002	0.040	07:33 hr	0.983	0.135	0.570	0.135	0.039	0.101
24E5C	8482	8484	12	0.002	0.076	07:45 hr	1.189	0.184	0.586	0.184	0.074	0.140
24E59	8484	8486	12	0.002	0.107	07:59 hr	1.313	0.217	0.593	0.217	0.103	0.166
24E56	8486	8488	12	0.002	0.144	07:57 hr	1.432	0.252	0.597	0.252	0.139	0.194
24E53	8488	1270	12	0.002	0.178	07:59 hr	1.524	0.281	0.598	0.281	0.173	0.216
24E50	1268	8490	12	0.015	0.203	08:00 hr	3.244	0.181	1.611	0.181	0.072	0.231
24E4D	8490	8492	12	0.002	0.211	08:02 hr	1.597	0.306	0.598	0.306	0.204	0.235
24E4A	8492	8494	12	0.002	0.229	08:02 hr	1.635	0.320	0.598	0.320	0.222	0.245
24E47	8494	906	12	0.002	0.246	08:15 hr	1.667	0.333	0.597	0.333	0.239	0.255
24E44	908	916	12	0.002	0.274	08:17 hr	1.718	0.351	0.598	0.351	0.265	0.269
24E41	916	8496	12	0.002	0.290	08:18 hr	1.747	0.363	0.598	0.363	0.281	0.277
24E3E	8496	8458	12	0.002	0.301	08:31 hr	1.852	0.357	0.640	0.357	0.272	0.283
24E3B	8458	8498	12	0.005	0.551	09:00 hr	2.849	0.406	0.923	0.406	0.346	0.386
24E38	8498	7616	12	0.003	0.562	09:00 hr	2.546	0.449	0.786	0.449	0.415	0.391
24E35	7616	8500	12	0.004	0.721	09:00 hr	2.791	0.507	0.816	0.507	0.512	0.445
24E32	8500	8502	12	0.004	0.764	09:00 hr	2.800	0.530	0.804	0.530	0.551	0.458
24E2F	8502	8460	12	0.004	0.806	09:00 hr	2.850	0.545	0.810	0.545	0.577	0.471
24E2C	8460	8504	12	0.005	0.953	09:00 hr	3.417	0.539	0.975	0.539	0.567	0.515
24E29	8504	8462	12	0.005	0.970	09:00 hr	3.383	0.551	0.957	0.551	0.588	0.519
24E26	8462	8506	12	0.005	0.996	09:00 hr	3.398	0.561	0.955	0.561	0.605	0.527
24E23	8506	2346	15	0.002	1.012	33:01 hr	2.204	0.703	0.553	0.562	0.607	0.496
24E20	2344	8508	15	0.002	1.115	09:01 hr	2.348	0.723	0.583	0.578	0.634	0.522
24E1D	8508	8510	15	0.002	1.123	33:01 hr	2.378	0.719	0.592	0.575	0.629	0.524
24E1A	8510	8512	15	0.002	1.145	33:01 hr	2.377	0.731	0.588	0.585	0.646	0.529
24E17	8512	8514	15	0.002	1.185	33:01 hr	2.395	0.747	0.588	0.598	0.668	0.538
24E14	8514	8516	15	0.002	1.231	33:01 hr	2.414	0.767	0.588	0.613	0.695	0.549
24E0E	8518	8520	15	0.002	1.286	09:15 hr	2.438	0.789	0.588	0.631	0.725	0.562
24E0B	8520	8522	15	0.002	1.295	09:16 hr	2.441	0.793	0.588	0.634	0.730	0.564
24E08	8522	8524	15	0.002	1.341	09:16 hr	2.458	0.812	0.588	0.650	0.756	0.574
24DED	8536	8538	10	0.001	0.049	08:45 hr	0.911	0.175	0.459	0.210	0.097	0.118
24DCF	8542	8540	10	0.006	0.001	20:00 hr	0.464	0.018	0.743	0.022	0.001	0.016
24B7A	8546	8544	8	0.005	0.002	20:16 hr	0.557	0.027	0.730	0.040	0.003	0.023
24B77	8544	8548	8	0.006	0.003	20:16 hr	0.720	0.035	0.830	0.052	0.005	0.032
24B74	8550	8546	8	0.006	0.001	06:00 hr	0.480	0.019	0.753	0.028	0.001	0.016
24B71	8548	8552	8	0.012	0.004	20:25 hr	0.971	0.033	1.153	0.049	0.005	0.035
24B6E	8552	8554	8	0.004	0.005	20:30 hr	0.730	0.048	0.712	0.072	0.011	0.041
24B6B	8558	8556	10	0.004	0.020	08:28 hr	1.063	0.085	0.779	0.102	0.022	0.075
24B68	8560	8558	10	0.005	0.014	08:42 hr	1.028	0.069	0.838	0.083	0.014	0.063
24B65	8562	8560	10	0.005	0.012	20:32 hr	0.961	0.063	0.822	0.075	0.012	0.057
24B62	8564	8562	10	0.005	0.011	20:30 hr	0.925	0.061	0.805	0.073	0.011	0.054
24B5F	8540	8566	10	0.005	0.001	20:14 hr	0.491	0.022	0.707	0.027	0.001	0.019
24B5C	8566	8564	10	0.006	0.002	20:15 hr	0.587	0.027	0.769	0.032	0.002	0.024
24B59	8568	8556	8	0.004	0.015	20:43 hr	0.998	0.080	0.754	0.119	0.030	0.069
24B56	8570	8568	8	0.004	0.012	20:45 hr	0.878	0.074	0.686	0.112	0.026	0.062
24B53	8554	8570	8	0.004	0.011	20:31 hr	0.878	0.069	0.712	0.104	0.023	0.058
24B50	8572	8574	8	0.003	0.002	20:03 hr	0.437	0.031	0.535	0.046	0.004	0.023
24B4D	8574	8576	8	0.005	0.003	20:15 hr	0.652	0.037	0.732	0.055	0.006	0.031
24B4A	8576	8578	8	0.005	0.004	20:15 hr	0.690	0.041	0.732	0.061	0.007	0.035
24B47	8580	8582	8	0.004	0.001	20:01 hr	0.417	0.023	0.596	0.034	0.002	0.018
24B44	8582	8578	8	0.004	0.003	20:15 hr	0.553	0.036	0.630	0.053	0.006	0.028
24B41	8584	8564	8	0.007	0.008	20:30 hr	0.986	0.051	0.937	0.076	0.012	0.049
24B3E	8578	8584	8	0.003	0.007	20:26 hr	0.745	0.059	0.658	0.088	0.016	0.047
24B3B	8586	8554	8	0.007	0.004	20:15 hr	0.772	0.036	0.873	0.054	0.006	0.034
24B38	8588	8586	8	0.007	0.001	20:00 hr	0.496	0.018	0.786	0.028	0.001	0.016
24B35	8590	8586	8	0.003	0.002	20:01 hr	0.479	0.029	0.601	0.044	0.004	0.023
24B32	8592	8594	8	0.007	0.002	20:15 hr	0.625	0.025	0.848	0.038	0.003	0.023
24B2F	8596	8592	8	0.007	0.001	20:00 hr	0.534	0.019	0.826	0.029	0.002	0.018
24B2C	8594	8568	8	0.008	0.002	20:15 hr	0.731	0.029	0.930	0.043	0.003	0.028
24B29	8556	6794	10	0.005	0.037	08:30 hr	1.337	0.110	0.858	0.132	0.037	0.102
24616	8598	8600	8	0.005	0.002	20:13 hr	0.531	0.026	0.711	0.039	0.003	0.022
24613	8602	8598	8	0.004	0.001	20:01 hr	0.410	0.021	0.612	0.031	0.002	0.016

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
24610	8604	8606	8	0.004	0.007	20:31 hr	0.771	0.055	0.705	0.082	0.014	0.046
2460D	8608	8604	8	0.003	0.006	20:28 hr	0.659	0.054	0.609	0.080	0.013	0.042
2460A	8610	8608	8	0.004	0.004	20:25 hr	0.642	0.044	0.658	0.066	0.009	0.035
24607	8600	8610	8	0.003	0.002	20:15 hr	0.519	0.034	0.602	0.051	0.005	0.027
24604	8612	8614	8	0.004	0.001	20:00 hr	0.327	0.016	0.555	0.024	0.001	0.012
24601	8616	8618	8	0.005	0.003	20:15 hr	0.655	0.036	0.739	0.054	0.006	0.031
245FE	8620	8616	8	0.004	0.002	20:15 hr	0.540	0.033	0.638	0.050	0.005	0.026
245FB	8614	8620	8	0.003	0.001	20:12 hr	0.436	0.026	0.584	0.039	0.003	0.020
245F8	8622	8624	8	0.005	0.001	20:00 hr	0.411	0.018	0.662	0.027	0.001	0.015
245F5	8618	8624	8	0.003	0.004	20:28 hr	0.610	0.042	0.635	0.064	0.008	0.034
245F2	8626	8628	8	0.004	0.005	20:27 hr	0.672	0.049	0.651	0.073	0.011	0.039
245EF	8624	8626	8	0.002	0.004	20:25 hr	0.565	0.050	0.541	0.075	0.011	0.037
245EC	8628	8630	8	0.005	0.006	20:30 hr	0.815	0.049	0.791	0.073	0.011	0.043
245E9	8632	8634	8	0.001	0.064	07:45 hr	0.929	0.229	0.401	0.344	0.254	0.143
245E6	8636	8632	8	0.003	0.022	08:20 hr	1.007	0.101	0.671	0.152	0.050	0.083
245E3	8638	8636	8	0.004	0.020	08:16 hr	1.036	0.094	0.720	0.140	0.042	0.079
245E0	8640	8638	8	0.004	0.015	08:12 hr	0.944	0.081	0.706	0.122	0.031	0.068
245DD	8642	8640	8	0.003	0.010	08:15 hr	0.808	0.069	0.656	0.104	0.023	0.056
245DA	8644	8642	8	0.003	0.007	08:00 hr	0.743	0.058	0.659	0.087	0.016	0.047
245D7	8646	8644	8	0.004	0.005	07:00 hr	0.691	0.050	0.663	0.075	0.011	0.041
245D4	8630	8648	8	0.003	0.007	20:38 hr	0.701	0.059	0.616	0.089	0.016	0.046
245D1	8634	8648	8	0.005	0.132	07:44 hr	1.930	0.228	0.835	0.342	0.252	0.207
245CE	8648	8650	8	0.013	0.139	07:45 hr	2.849	0.179	1.406	0.268	0.158	0.213
245CB	8606	8650	8	0.004	0.008	20:44 hr	0.819	0.059	0.724	0.088	0.016	0.050
245C8	8650	6758	8	0.015	0.147	07:45 hr	3.066	0.177	1.523	0.265	0.154	0.219
245C5	8652	8654	8	0.004	0.002	20:02 hr	0.469	0.027	0.609	0.041	0.003	0.021
245C2	8654	8656	8	0.004	0.004	20:16 hr	0.626	0.042	0.652	0.064	0.008	0.034
245BF	8660	8658	8	0.004	0.001	20:02 hr	0.394	0.021	0.587	0.031	0.002	0.016
245BC	8658	8662	8	0.003	0.002	20:14 hr	0.485	0.030	0.602	0.045	0.004	0.023
245B9	8664	8662	8	0.003	0.001	20:01 hr	0.416	0.024	0.582	0.035	0.002	0.018
245B6	8666	8668	8	0.006	0.002	20:13 hr	0.575	0.026	0.766	0.039	0.003	0.023
245B3	8670	8666	8	0.004	0.001	20:00 hr	0.407	0.020	0.615	0.031	0.002	0.016
245B0	8668	8672	8	0.005	0.003	20:15 hr	0.641	0.036	0.727	0.054	0.006	0.031
245AD	8676	8674	8	0.006	0.001	20:00 hr	0.485	0.019	0.757	0.029	0.001	0.017
245AA	8678	8680	8	0.004	0.004	20:28 hr	0.648	0.040	0.693	0.060	0.007	0.034
245A7	8682	8678	8	0.005	0.003	20:15 hr	0.642	0.034	0.744	0.052	0.005	0.030
245A4	8674	8682	8	0.005	0.002	20:13 hr	0.581	0.029	0.737	0.043	0.004	0.025
245A1	8680	8684	8	0.006	0.005	20:25 hr	0.769	0.042	0.803	0.063	0.008	0.038
2459E	8684	8686	8	0.005	0.006	20:30 hr	0.787	0.048	0.773	0.071	0.010	0.042
2459B	8686	8688	8	0.005	0.006	20:28 hr	0.828	0.050	0.793	0.075	0.011	0.045
24598	8688	8690	8	0.007	0.007	20:32 hr	0.941	0.049	0.908	0.074	0.011	0.047
24595	8690	8692	8	0.004	0.008	20:41 hr	0.788	0.059	0.696	0.088	0.016	0.049
24592	8694	8692	8	0.004	0.006	20:35 hr	0.767	0.052	0.722	0.078	0.012	0.044
2458F	8672	8694	8	0.004	0.005	20:25 hr	0.705	0.047	0.699	0.070	0.010	0.039
2458C	8696	8672	8	0.001	0.001	20:02 hr	0.291	0.027	0.383	0.040	0.003	0.017
24589	8692	8698	8	0.002	0.015	20:36 hr	0.761	0.095	0.525	0.143	0.044	0.069
24586	8700	6752	8	0.003	0.028	20:43 hr	1.127	0.112	0.712	0.168	0.062	0.094
24583	8698	8700	8	0.003	0.028	20:45 hr	1.084	0.113	0.681	0.170	0.063	0.093
24580	8656	8698	8	0.003	0.012	20:30 hr	0.826	0.075	0.643	0.112	0.027	0.060
2457D	8702	8656	8	0.004	0.006	20:29 hr	0.719	0.052	0.673	0.079	0.013	0.043
2457A	8662	8702	8	0.003	0.004	20:15 hr	0.592	0.049	0.571	0.074	0.011	0.037
2456B	8706	8704	8	0.004	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
24568	8708	6772	8	0.004	0.001	20:00 hr	0.351	0.018	0.563	0.027	0.001	0.014
24559	8710	8712	12	0.003	0.210	32:58 hr	1.729	0.289	0.669	0.289	0.182	0.235
24556	2118	8712	8	0.004	0.042	07:59 hr	1.288	0.136	0.737	0.203	0.091	0.116
24535	8716	8714	8	0.003	0.001	20:00 hr	0.396	0.024	0.550	0.036	0.002	0.018
2413F	8720	8718	8	0.004	0.001	07:00 hr	0.464	0.026	0.619	0.039	0.003	0.020
2413C	8724	8722	8	0.010	0.002	20:00 hr	0.657	0.022	0.961	0.032	0.002	0.021
24139	8722	8726	8	0.009	0.003	20:15 hr	0.795	0.030	0.989	0.045	0.004	0.030
24136	8730	8728	8	0.012	0.001	20:00 hr	0.679	0.020	1.047	0.029	0.002	0.020
24133	8728	8732	8	0.013	0.002	20:15 hr	0.809	0.024	1.117	0.036	0.002	0.026
24130	8736	8734	8	0.008	0.002	07:00 hr	0.724	0.029	0.921	0.043	0.003	0.027
2412D	8734	8738	8	0.008	0.003	08:01 hr	0.814	0.033	0.955	0.050	0.005	0.033

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2412A	8738	8740	8	0.007	0.005	08:00 hr	0.839	0.040	0.905	0.059	0.007	0.038
24127	8718	8742	8	0.005	0.006	07:28 hr	0.801	0.052	0.755	0.077	0.012	0.045
24124	8742	8744	8	0.004	0.008	07:29 hr	0.815	0.058	0.724	0.087	0.016	0.049
24121	8744	8746	8	0.004	0.009	07:42 hr	0.859	0.061	0.746	0.091	0.017	0.052
2411E	8746	8748	8	0.017	0.014	07:43 hr	1.586	0.055	1.454	0.082	0.014	0.066
2411B	8750	8752	12	0.002	0.186	08:47 hr	1.541	0.287	0.598	0.287	0.180	0.221
24118	8754	8750	12	0.005	0.169	08:44 hr	2.057	0.218	0.925	0.218	0.105	0.210
24115	8748	8754	12	0.005	0.164	08:44 hr	2.121	0.210	0.975	0.210	0.096	0.207
24112	8756	8748	12	0.004	0.149	08:45 hr	1.778	0.222	0.793	0.222	0.108	0.197
2410F	8758	8756	12	0.005	0.139	08:45 hr	1.904	0.202	0.894	0.202	0.089	0.190
2410C	8760	8758	12	0.003	0.128	20:59 hr	1.557	0.219	0.699	0.219	0.106	0.183
24109	8726	8762	10	0.003	0.064	08:44 hr	1.249	0.169	0.639	0.203	0.090	0.135
24106	8762	8732	10	0.006	0.065	08:43 hr	1.655	0.140	0.936	0.168	0.061	0.135
24103	8732	8764	10	0.002	0.067	08:45 hr	1.252	0.174	0.631	0.209	0.096	0.138
24100	8764	8740	10	0.002	0.068	08:43 hr	1.222	0.179	0.608	0.214	0.101	0.139
240FD	8740	8766	10	0.005	0.074	08:44 hr	1.599	0.157	0.853	0.188	0.077	0.145
240FA	8766	8768	10	0.003	0.077	08:45 hr	1.384	0.179	0.687	0.215	0.102	0.148
240F7	8714	8768	8	0.017	0.002	20:13 hr	0.852	0.020	1.286	0.031	0.002	0.023
240F4	8768	8770	10	0.004	0.080	08:44 hr	1.563	0.169	0.801	0.203	0.090	0.151
240F1	8770	8760	10	0.003	0.081	08:45 hr	1.377	0.186	0.670	0.224	0.110	0.152
240EE	8772	8760	8	0.008	0.044	44:57 hr	1.762	0.112	1.116	0.168	0.061	0.118
240EB	8774	8776	8	0.003	0.003	08:00 hr	0.574	0.040	0.617	0.060	0.007	0.031
240E8	8778	8538	8	0.003	0.002	20:00 hr	0.466	0.029	0.592	0.043	0.004	0.022
240E5	8780	8782	8	0.003	0.001	20:00 hr	0.422	0.025	0.575	0.037	0.003	0.019
240E2	8784	6772	8	0.003	0.001	20:00 hr	0.343	0.018	0.551	0.027	0.001	0.013
240DF	8786	8704	8	0.003	0.001	20:00 hr	0.408	0.023	0.574	0.035	0.002	0.018
240DC	6772	8704	10	0.002	0.000	20:07 hr	0.220	0.013	0.415	0.016	0.000	0.008
240D9	8704	8782	10	0.003	0.002	20:15 hr	0.445	0.028	0.571	0.034	0.002	0.021
240D6	8782	8776	10	0.002	0.004	20:30 hr	0.495	0.045	0.502	0.054	0.006	0.032
240D0	8538	8726	10	0.005	0.059	08:44 hr	1.528	0.138	0.869	0.166	0.060	0.129
240CA	8790	8792	8	0.006	0.001	20:00 hr	0.425	0.016	0.726	0.024	0.001	0.014
240C7	8792	8794	8	0.003	0.001	20:18 hr	0.426	0.027	0.559	0.040	0.003	0.020
240C4	8794	8718	8	0.004	0.003	08:09 hr	0.580	0.039	0.633	0.058	0.007	0.031
240C1	8796	8766	8	0.003	0.001	20:02 hr	0.426	0.025	0.576	0.038	0.003	0.019
240BE	8798	8746	8	0.011	0.004	07:15 hr	0.933	0.034	1.083	0.051	0.005	0.036
240BB	8800	8798	8	0.004	0.002	07:01 hr	0.502	0.029	0.632	0.044	0.004	0.023
240B8	8802	8752	8	0.020	0.002	07:00 hr	0.937	0.021	1.377	0.032	0.002	0.025
240B5	8804	8710	12	0.011	0.195	08:54 hr	2.889	0.191	1.397	0.191	0.079	0.226
240B2	8752	8804	12	0.006	0.192	08:50 hr	2.355	0.217	1.062	0.217	0.104	0.224
240AF	8712	7436	12	0.003	0.258	32:57 hr	1.865	0.317	0.686	0.317	0.217	0.261
23F3B	8806	8726	8	0.018	0.002	20:00 hr	0.920	0.023	1.318	0.034	0.002	0.026
23F38	8808	8810	8	0.004	0.024	20:42 hr	1.081	0.102	0.717	0.153	0.051	0.086
23F35	8812	8814	8	0.002	0.029	20:45 hr	0.969	0.126	0.576	0.189	0.078	0.095
23F32	8816	8814	8	0.026	0.002	20:00 hr	0.993	0.019	1.558	0.028	0.001	0.024
23F2F	8814	8818	8	0.003	0.032	20:45 hr	1.054	0.127	0.625	0.190	0.079	0.100
23F2C	8818	8820	8	0.003	0.033	20:45 hr	1.114	0.125	0.665	0.187	0.077	0.102
23F29	8822	8808	8	0.006	0.002	20:01 hr	0.610	0.026	0.808	0.039	0.003	0.024
23F26	8810	8812	8	0.005	0.026	20:45 hr	1.266	0.097	0.863	0.146	0.046	0.090
23F23	8826	8824	8	0.004	0.001	20:01 hr	0.439	0.024	0.605	0.036	0.002	0.019
23F20	8824	8828	8	0.003	0.003	20:15 hr	0.583	0.040	0.624	0.060	0.007	0.032
23F1D	8828	8820	8	0.006	0.006	20:22 hr	0.851	0.047	0.843	0.070	0.010	0.043
23F1A	8820	8772	8	0.005	0.042	20:45 hr	1.419	0.127	0.842	0.190	0.079	0.116
23E4E	8830	8808	8	0.004	0.020	20:42 hr	1.080	0.092	0.755	0.138	0.041	0.080
23D49	8834	8832	8	0.004	0.001	20:00 hr	0.464	0.023	0.659	0.034	0.002	0.019
23D46	8838	8836	8	0.003	0.002	08:00 hr	0.475	0.033	0.558	0.050	0.005	0.025
23D43	8840	8842	8	0.003	0.010	20:33 hr	0.780	0.070	0.631	0.104	0.023	0.055
23D40	8844	8846	8	0.004	0.001	20:00 hr	0.355	0.016	0.602	0.024	0.001	0.013
23D3D	8846	8848	8	0.003	0.001	20:12 hr	0.441	0.026	0.585	0.039	0.003	0.020
23D3A	8852	8850	8	0.004	0.005	20:29 hr	0.676	0.048	0.659	0.072	0.011	0.039
23D37	8848	8852	8	0.003	0.003	20:28 hr	0.537	0.042	0.561	0.063	0.008	0.032
23D34	8832	8836	10	0.003	0.047	08:41 hr	1.176	0.142	0.661	0.170	0.063	0.115
23D31	8854	8832	10	0.002	0.045	08:39 hr	1.107	0.144	0.617	0.173	0.065	0.113
23D2E	8836	8854	10	0.003	0.044	08:38 hr	1.115	0.141	0.627	0.170	0.063	0.112

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
23D2B	8856	8836	8	0.004	0.004	20:20 hr	0.678	0.045	0.689	0.067	0.009	0.037
23D28	8858	8856	8	0.003	0.003	20:15 hr	0.584	0.041	0.621	0.061	0.007	0.032
23D25	8860	8848	8	0.004	0.001	20:12 hr	0.444	0.025	0.604	0.038	0.003	0.019
23D22	8862	8860	8	0.003	0.001	20:00 hr	0.336	0.018	0.535	0.027	0.001	0.013
23D1F	8864	8866	8	0.003	0.002	20:00 hr	0.471	0.029	0.592	0.044	0.004	0.023
23D1C	8866	8868	8	0.004	0.003	20:16 hr	0.556	0.036	0.632	0.054	0.006	0.028
23D19	8868	8870	8	0.003	0.004	20:25 hr	0.584	0.046	0.584	0.069	0.010	0.035
23D16	8870	8840	8	0.003	0.008	20:30 hr	0.764	0.062	0.658	0.092	0.018	0.050
23D13	8872	8870	8	0.004	0.003	20:15 hr	0.576	0.037	0.646	0.055	0.006	0.029
23D10	6796	8836	10	0.003	0.038	08:34 hr	1.079	0.130	0.636	0.156	0.052	0.103
23D0D	8874	8858	8	0.003	0.001	20:01 hr	0.450	0.027	0.592	0.040	0.003	0.021
23D0A	8876	8872	8	0.003	0.001	06:01 hr	0.409	0.024	0.572	0.036	0.002	0.018
23CE3	8850	8842	8	0.004	0.008	20:40 hr	0.791	0.058	0.702	0.087	0.016	0.049
23CE0	8842	8830	8	0.004	0.019	20:45 hr	1.087	0.086	0.789	0.129	0.036	0.076
23CDA	8880	8878	12	0.254	0.001	07:00 hr	0.000	0.000	0.000	0.000	0.000	0.013
23CD7	8882	8878	8	0.249	0.002	07:00 hr	2.267	0.012	4.469	0.018	0.001	0.025
23CD4	8884	8878	12	0.008	0.135	08:42 hr	2.298	0.173	1.169	0.173	0.065	0.187
23CD1	8886	8884	8	0.018	0.001	07:00 hr	0.796	0.018	1.278	0.027	0.001	0.020
23CCE	8888	8884	8	0.013	0.011	07:00 hr	1.329	0.052	1.254	0.077	0.012	0.058
23CCB	8890	8884	12	0.004	0.123	08:44 hr	1.670	0.203	0.782	0.203	0.090	0.179
23CC8	8892	8890	8	0.018	0.001	07:00 hr	0.814	0.019	1.285	0.028	0.001	0.021
23CC5	8894	8890	8	0.010	0.019	07:00 hr	1.450	0.071	1.158	0.107	0.024	0.077
23CC2	8896	8890	12	0.000	0.103	08:58 hr	0.727	0.322	0.265	0.322	0.225	0.163
23CBF	8898	8896	8	0.019	0.001	07:00 hr	0.734	0.015	1.277	0.023	0.001	0.017
23CBC	8900	8896	8	0.020	0.029	07:00 hr	2.095	0.074	1.644	0.111	0.026	0.095
23CB9	8902	8896	12	0.003	0.074	08:52 hr	1.368	0.163	0.718	0.163	0.058	0.138
23CB6	8904	8902	8	0.020	0.001	07:00 hr	0.705	0.014	1.288	0.021	0.001	0.016
23CB3	8906	8902	8	0.022	0.023	07:00 hr	2.015	0.065	1.691	0.097	0.020	0.085
23CB0	8908	8902	12	0.004	0.050	08:51 hr	1.289	0.130	0.760	0.130	0.036	0.113
23CAD	8910	8908	8	0.031	0.002	07:00 hr	0.993	0.016	1.668	0.025	0.001	0.021
23CAA	8912	8908	8	0.013	0.009	07:00 hr	1.280	0.049	1.244	0.073	0.011	0.054
23CA7	7436	8908	12	0.003	0.039	08:46 hr	1.097	0.123	0.665	0.123	0.032	0.100
220B3	8914	8916	8	0.003	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
220B1	8916	6814	8	0.003	0.000	07:14 hr	0.298	0.015	0.530	0.022	0.001	0.011
21EE4	8918	8916	8	0.003	0.000	07:00 hr	0.298	0.015	0.528	0.022	0.001	0.011
240D3	8776	8538	10	0.002	0.008	20:30 hr	0.629	0.064	0.533	0.077	0.012	0.047
334F0E	8934	8932	8	0.010	0.000	20:00 hr	0.390	0.010	0.849	0.015	0.000	0.009
334F05	8932	8936	8	0.008	0.001	20:10 hr	0.482	0.016	0.835	0.023	0.001	0.014
334EFC	8936	8938	8	0.010	0.001	20:14 hr	0.611	0.018	0.974	0.027	0.001	0.018
334EF3	8942	8940	8	0.005	0.010	20:16 hr	0.923	0.063	0.785	0.095	0.019	0.056
334EF0	8944	8942	8	0.014	0.002	20:01 hr	0.758	0.020	1.139	0.031	0.002	0.022
334EE7	8946	8942	8	0.010	0.003	20:01 hr	0.860	0.032	1.039	0.047	0.004	0.032
334ED9	8950	8948	8	0.008	0.001	20:01 hr	0.591	0.021	0.874	0.032	0.002	0.020
334ED6	8948	8952	8	0.013	0.003	20:14 hr	0.913	0.028	1.166	0.043	0.003	0.031
334EA8	8956	8954	8	0.008	0.001	20:00 hr	0.511	0.017	0.845	0.025	0.001	0.016
334E9F	8954	8958	8	0.006	0.002	20:13 hr	0.586	0.025	0.796	0.038	0.003	0.022
334E96	8958	8960	8	0.009	0.003	20:16 hr	0.800	0.031	0.975	0.047	0.004	0.031
334E8D	8962	8960	8	0.008	0.002	20:01 hr	0.696	0.027	0.919	0.040	0.003	0.025
334E84	8966	8964	8	0.008	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
334E72	8964	8938	8	0.008	0.000	20:00 hr	0.391	0.011	0.794	0.017	0.001	0.010
334E69	8938	8968	8	0.004	0.002	20:15 hr	0.539	0.031	0.658	0.047	0.004	0.025
334E60	8968	8940	8	0.010	0.004	20:19 hr	0.897	0.034	1.047	0.051	0.005	0.035
334E57	8940	8970	8	0.005	0.016	20:30 hr	1.062	0.078	0.808	0.118	0.029	0.070
334E21	8970	8972	8	0.011	0.017	20:44 hr	1.439	0.067	1.183	0.101	0.021	0.073
334E18	8972	8930	8	0.016	0.018	20:30 hr	1.706	0.062	1.462	0.093	0.018	0.075
334DF3	8976	8974	8	0.008	0.002	20:01 hr	0.700	0.027	0.923	0.040	0.003	0.026
334DEA	8974	8952	8	0.006	0.003	20:15 hr	0.725	0.036	0.819	0.054	0.006	0.033
334DE1	8952	8960	8	0.004	0.007	20:16 hr	0.773	0.056	0.697	0.084	0.015	0.047
334DD6	8960	8978	8	0.022	0.014	20:30 hr	1.744	0.052	1.639	0.078	0.012	0.067
332185	8982	8980	8	0.008	0.001	20:00 hr	0.599	0.022	0.878	0.032	0.002	0.020
33217C	8980	8984	8	0.004	0.004	20:16 hr	0.673	0.042	0.706	0.063	0.008	0.035
33216F	8988	8986	8	0.008	0.001	20:00 hr	0.554	0.019	0.862	0.029	0.002	0.018
332166	8986	8990	8	0.004	0.002	20:15 hr	0.539	0.031	0.658	0.047	0.004	0.025

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
33215D	8990	8992	8	0.005	0.003	20:15 hr	0.645	0.036	0.726	0.055	0.006	0.031
332154	8992	8994	8	0.004	0.004	20:30 hr	0.700	0.044	0.719	0.065	0.009	0.037
33214B	8998	8996	8	0.008	0.001	20:01 hr	0.598	0.021	0.879	0.032	0.002	0.020
332141	8996	9008	8	0.008	0.003	20:15 hr	0.804	0.033	0.955	0.049	0.005	0.032
332138	8984	9010	8	0.007	0.007	08:13 hr	0.929	0.049	0.903	0.073	0.011	0.046
33212F	9010	9008	8	0.004	0.008	20:25 hr	0.797	0.057	0.712	0.086	0.015	0.048
332126	9008	9012	8	0.004	0.013	20:36 hr	0.932	0.073	0.736	0.109	0.025	0.063
33211D	9016	9014	8	0.008	0.002	20:01 hr	0.628	0.023	0.887	0.035	0.002	0.022
332112	9014	9012	8	0.004	0.003	20:16 hr	0.645	0.039	0.704	0.058	0.007	0.032
332109	9012	9018	8	0.004	0.018	20:39 hr	1.068	0.084	0.786	0.126	0.034	0.074
332100	9022	9020	8	0.008	0.001	20:00 hr	0.555	0.019	0.864	0.029	0.002	0.018
3320F7	9020	8994	8	0.004	0.002	20:14 hr	0.529	0.030	0.654	0.045	0.004	0.024
3320EE	8994	9024	8	0.004	0.007	20:35 hr	0.796	0.057	0.714	0.085	0.015	0.048
3320E5	9024	9026	8	0.008	0.008	20:29 hr	1.039	0.049	1.009	0.073	0.011	0.049
3320DB	9030	9028	8	0.004	0.003	20:01 hr	0.586	0.034	0.686	0.050	0.005	0.028
3320CE	9034	9032	8	0.005	0.001	08:00 hr	0.375	0.015	0.651	0.023	0.001	0.012
3320C5	9032	9036	8	0.004	0.001	07:15 hr	0.416	0.021	0.621	0.031	0.002	0.016
3320BC	9036	9038	8	0.004	0.001	08:09 hr	0.441	0.023	0.628	0.034	0.002	0.018
3320B3	9038	9040	8	0.004	0.002	08:00 hr	0.548	0.032	0.656	0.048	0.004	0.026
3320AA	9040	9042	8	0.005	0.003	08:15 hr	0.659	0.038	0.722	0.058	0.007	0.033
3320A1	9042	9044	8	0.004	0.005	08:12 hr	0.698	0.045	0.703	0.068	0.009	0.038
332098	9044	9046	8	0.005	0.005	08:15 hr	0.772	0.047	0.764	0.070	0.010	0.041
33208F	9018	9048	8	0.006	0.018	20:42 hr	1.183	0.081	0.888	0.121	0.031	0.076
332081	9048	9050	8	0.004	0.019	20:43 hr	1.064	0.090	0.754	0.135	0.039	0.078
332078	9050	9052	8	0.004	0.022	20:45 hr	1.098	0.095	0.757	0.142	0.044	0.082
33206F	9052	9054	8	0.004	0.023	20:45 hr	1.114	0.098	0.755	0.147	0.047	0.085
332066	9054	9056	8	0.004	0.024	20:45 hr	1.131	0.099	0.762	0.149	0.048	0.087
33205D	9056	9058	8	0.004	0.024	20:44 hr	1.130	0.099	0.761	0.149	0.048	0.086
332054	9058	9046	8	0.004	0.024	44:51 hr	1.138	0.101	0.762	0.151	0.049	0.088
33204B	9046	9060	8	0.016	0.030	20:45 hr	1.957	0.081	1.468	0.121	0.031	0.098
332042	9028	9062	8	0.004	0.004	20:15 hr	0.645	0.041	0.684	0.061	0.007	0.034
332039	9062	9064	8	0.004	0.005	08:25 hr	0.687	0.045	0.692	0.068	0.009	0.038
332030	9064	9066	8	0.005	0.005	08:26 hr	0.776	0.044	0.791	0.066	0.009	0.039
332027	9070	9068	8	0.004	0.001	06:01 hr	0.424	0.022	0.620	0.032	0.002	0.017
33201E	9068	9066	8	0.004	0.002	08:01 hr	0.507	0.028	0.647	0.043	0.003	0.023
332015	9066	9072	8	0.004	0.007	08:15 hr	0.781	0.057	0.702	0.085	0.015	0.047
331FFF	9072	9074	8	0.004	0.008	08:25 hr	0.826	0.059	0.726	0.089	0.016	0.050
331FF6	9074	9076	8	0.005	0.010	08:30 hr	0.913	0.063	0.780	0.094	0.018	0.055
331FED	9076	9078	8	0.005	0.012	08:27 hr	0.953	0.069	0.772	0.104	0.023	0.061
331FE0	9080	9078	8	0.008	0.006	20:30 hr	0.943	0.045	0.952	0.068	0.009	0.044
331FDD	9082	9080	8	0.041	0.001	20:00 hr	0.940	0.012	1.830	0.018	0.001	0.017
331FD4	9086	9084	8	0.005	0.001	06:00 hr	0.384	0.017	0.634	0.025	0.001	0.014
331FCA	9084	9088	8	0.004	0.003	08:02 hr	0.575	0.034	0.668	0.051	0.005	0.028
331FC1	9088	9080	8	0.000	0.005	20:22 hr	0.084	0.193	0.040	0.290	0.183	0.038
331FA8	9092	9090	8	0.004	0.001	06:01 hr	0.366	0.017	0.598	0.026	0.001	0.013
331F9F	9090	9094	8	0.004	0.002	08:01 hr	0.541	0.031	0.657	0.047	0.004	0.025
331F96	9094	9096	8	0.004	0.004	08:13 hr	0.633	0.040	0.680	0.060	0.007	0.033
331F8C	9096	9078	8	0.013	0.005	20:23 hr	1.047	0.035	1.203	0.052	0.005	0.038
331F7D	9078	9098	8	0.005	0.024	20:44 hr	1.184	0.097	0.806	0.146	0.046	0.087
331F74	9100	2904	8	0.004	0.027	20:46 hr	1.132	0.108	0.729	0.162	0.057	0.092
331F6B	9098	9100	8	0.004	0.026	20:45 hr	1.103	0.107	0.715	0.161	0.056	0.090
331F4A	9104	9106	8	0.011	0.001	20:13 hr	0.595	0.017	0.973	0.026	0.001	0.017
331F47	9108	9104	8	0.004	0.001	20:00 hr	0.384	0.018	0.609	0.028	0.001	0.014
331F33	9112	9110	8	0.004	0.001	20:00 hr	0.394	0.019	0.611	0.029	0.002	0.015
331F2A	9110	9114	8	0.004	0.002	20:15 hr	0.535	0.031	0.656	0.046	0.004	0.025
331F21	9114	9116	8	0.004	0.005	20:29 hr	0.683	0.045	0.693	0.067	0.009	0.037
331F18	9116	9118	8	0.004	0.007	20:30 hr	0.805	0.055	0.737	0.082	0.014	0.047
331F0F	9118	9120	8	0.006	0.008	20:29 hr	0.959	0.055	0.879	0.082	0.014	0.051
331F06	9120	9122	8	0.011	0.009	20:29 hr	1.197	0.050	1.152	0.074	0.011	0.053
331EFD	9106	9124	8	0.004	0.003	20:16 hr	0.597	0.036	0.673	0.054	0.006	0.030
331EF4	9124	9126	8	0.004	0.005	20:20 hr	0.699	0.046	0.696	0.070	0.010	0.039
331EEB	9126	9128	8	0.004	0.006	20:31 hr	0.764	0.053	0.709	0.080	0.013	0.045
331EE2	9128	9130	8	0.010	0.008	20:29 hr	1.126	0.049	1.090	0.073	0.011	0.051

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
32F498	9134	9132	8	0.008	0.002	06:01 hr	0.718	0.027	0.930	0.041	0.003	0.027
32F48D	9138	9136	8	0.010	0.002	20:00 hr	0.688	0.022	0.988	0.034	0.002	0.022
32F484	9136	9140	8	0.010	0.003	20:14 hr	0.864	0.032	1.042	0.048	0.004	0.032
32F47B	9140	9142	8	0.010	0.005	20:15 hr	0.984	0.039	1.072	0.058	0.007	0.040
32F472	9142	9132	8	0.010	0.006	20:24 hr	1.036	0.042	1.084	0.063	0.008	0.044
32F469	9132	9144	8	0.005	0.009	20:28 hr	0.883	0.061	0.763	0.092	0.017	0.053
32F460	9148	9146	8	0.004	0.002	20:01 hr	0.551	0.032	0.660	0.048	0.004	0.026
32F457	9146	9150	8	0.004	0.004	20:16 hr	0.677	0.042	0.710	0.063	0.008	0.035
32F444	9122	9152	8	0.015	0.010	20:35 hr	1.379	0.047	1.366	0.070	0.010	0.055
32F441	9150	9130	8	0.004	0.006	20:30 hr	0.741	0.051	0.703	0.076	0.012	0.043
32F436	9130	9152	8	0.005	0.016	20:35 hr	1.075	0.077	0.824	0.116	0.028	0.070
32F42F	9152	8928	8	0.002	0.026	20:45 hr	0.918	0.121	0.557	0.182	0.072	0.090
32F3DF	9154	9156	6	0.008	0.002	20:00 hr	0.747	0.030	0.929	0.060	0.007	0.029
32F3C3	9156	9144	8	0.004	0.002	08:13 hr	0.563	0.033	0.665	0.050	0.005	0.027
32F3BA	9144	9158	8	0.004	0.011	20:30 hr	0.910	0.070	0.734	0.105	0.023	0.060
32F3B1	9158	9160	8	0.004	0.012	08:43 hr	0.922	0.071	0.736	0.107	0.024	0.061
32F3A8	9160	9026	8	0.001	0.012	08:30 hr	0.603	0.097	0.411	0.146	0.046	0.062
32F31E	9026	9060	8	0.002	0.020	20:45 hr	0.819	0.112	0.519	0.168	0.061	0.080
32F314	9060	9162	8	0.012	0.052	20:45 hr	2.092	0.111	1.328	0.167	0.061	0.129
32F307	9162	9164	8	0.009	0.053	20:45 hr	1.895	0.121	1.152	0.181	0.072	0.130
32F2F4	9164	9166	8	0.004	0.055	20:45 hr	1.448	0.151	0.784	0.226	0.112	0.133
32F2EB	9166	9168	8	0.007	0.057	20:56 hr	1.788	0.132	1.036	0.199	0.086	0.135
32F2D7	8978	9168	8	0.023	0.015	20:29 hr	1.811	0.053	1.687	0.079	0.013	0.069
32F2D4	9168	9170	8	0.004	0.073	20:58 hr	1.570	0.173	0.789	0.259	0.147	0.153
32F2C9	9170	9172	8	0.004	0.075	21:00 hr	1.625	0.172	0.820	0.257	0.145	0.155
32A978	9208	2422	18	0.014	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
324C8F	9214	2044	6	0.015	0.015	07:15 hr	1.643	0.063	1.399	0.125	0.033	0.074
32021D	9222	9224	18	0.002	0.813	21:00 hr	2.256	0.529	0.640	0.353	0.267	0.420
32019B	9240	9238	15	0.004	1.058	36:30 hr	3.249	0.537	0.916	0.429	0.383	0.507
320194	9244	9242	24	0.005	4.293	33:00 hr	4.687	0.923	1.010	0.462	0.436	0.913
320182	9246	9248	54	0.001	7.064	09:01 hr	2.499	1.437	0.432	0.319	0.221	0.933
32017F	9248	9250	54	0.000	12.406	09:00 hr	2.435	2.235	0.339	0.497	0.494	1.245
320178	9250	9252	54	0.001	12.395	09:00 hr	2.695	2.064	0.388	0.459	0.431	1.245
320171	9252	9254	54	0.001	12.344	09:00 hr	2.653	2.083	0.381	0.463	0.438	1.242
320059	9256	9254	8	0.004	0.022	07:00 hr	1.098	0.095	0.757	0.142	0.044	0.082
320056	9258	9254	8	0.004	0.014	08:00 hr	0.971	0.078	0.742	0.117	0.029	0.067
32004C	9254	9260	54	0.001	12.338	33:00 hr	2.679	2.066	0.386	0.459	0.432	1.242
320039	9262	9260	8	0.004	0.018	07:00 hr	1.041	0.087	0.751	0.131	0.036	0.075
320036	9264	9260	8	0.004	0.012	08:00 hr	0.928	0.072	0.735	0.109	0.025	0.062
32002C	9260	9266	54	0.001	12.355	33:00 hr	2.660	2.080	0.382	0.462	0.437	1.243
320024	9266	9268	54	0.001	12.338	33:00 hr	2.672	2.070	0.384	0.460	0.433	1.242
32001C	9268	9270	54	0.001	12.354	33:00 hr	2.677	2.070	0.385	0.460	0.433	1.242
320014	9270	9272	54	0.001	12.349	33:00 hr	2.661	2.078	0.382	0.462	0.436	1.242
320002	9274	9272	8	0.004	0.019	07:00 hr	1.063	0.090	0.753	0.135	0.039	0.078
31FFFF	9276	9272	8	0.004	0.009	08:00 hr	0.833	0.061	0.720	0.092	0.017	0.052
31FFF5	9272	9278	54	0.001	12.362	33:00 hr	2.670	2.075	0.384	0.461	0.435	1.243
31FFEC	9278	9280	54	0.001	12.362	33:00 hr	2.670	2.075	0.384	0.461	0.435	1.243
31FFE9	9280	9282	54	0.001	12.366	33:00 hr	2.674	2.073	0.384	0.461	0.434	1.243
31FFDC	9282	9284	54	0.001	12.363	33:00 hr	2.663	2.079	0.382	0.462	0.436	1.243
31F8E4	9286	9284	8	0.004	0.021	07:00 hr	1.091	0.094	0.757	0.141	0.043	0.082
31F8DF	9288	9284	8	0.004	0.008	08:00 hr	0.798	0.057	0.714	0.086	0.015	0.048
31F8D3	9284	9290	54	0.001	12.376	33:00 hr	2.681	2.070	0.386	0.460	0.433	1.244
31F8CB	9290	9292	54	0.001	12.372	33:00 hr	2.667	2.078	0.383	0.462	0.436	1.243
31F8B0	9292	9294	54	0.001	12.369	33:00 hr	2.674	2.073	0.384	0.461	0.434	1.243
31F883	9294	9296	54	0.001	12.385	33:00 hr	2.638	2.097	0.377	0.466	0.443	1.244
31F87B	9296	9298	54	0.001	12.359	33:00 hr	2.687	2.064	0.387	0.459	0.431	1.243
31F873	9298	9300	54	0.001	12.337	33:00 hr	2.672	2.070	0.384	0.460	0.433	1.242
31F86B	9300	9302	54	0.001	12.316	33:01 hr	2.671	2.068	0.384	0.460	0.432	1.241
31F863	9302	9304	54	0.001	12.295	33:01 hr	2.670	2.066	0.384	0.459	0.431	1.239
31F85A	9304	9306	54	0.000	12.253	33:03 hr	2.203	2.395	0.298	0.532	0.555	1.237
3116AF	9306	9308	54	0.001	12.234	33:00 hr	2.771	2.000	0.405	0.445	0.408	1.236
31168E	9308	9310	54	0.001	12.224	33:05 hr	2.728	2.023	0.397	0.450	0.416	1.236
311680	9310	9312	54	0.000	12.220	33:15 hr	2.445	2.202	0.342	0.489	0.482	1.236

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
31166F	3060	9312	24	0.007	8.546	09:45 hr	6.455	1.241	1.238	0.621	0.707	1.309
311656	9312	9316	60	0.000	20.680	09:36 hr	2.708	2.901	0.336	0.580	0.638	1.572
31164C	9316	9318	60	0.001	20.678	09:45 hr	3.111	2.593	0.403	0.519	0.532	1.572
311643	9318	9320	60	0.001	20.689	09:45 hr	2.945	2.711	0.375	0.542	0.572	1.572
311636	9320	9322	60	0.001	20.688	09:45 hr	3.046	2.638	0.392	0.528	0.547	1.572
31162B	9322	9324	60	0.001	20.685	09:45 hr	3.036	2.645	0.390	0.529	0.549	1.572
311622	9324	9326	60	0.001	20.674	09:45 hr	3.093	2.605	0.400	0.521	0.536	1.572
311617	9326	4652	42	0.004	20.672	09:45 hr	6.655	1.749	1.047	0.500	0.499	1.750
311605	9238	9242	15	0.004	1.058	36:30 hr	3.261	0.535	0.920	0.428	0.382	0.508
3115FD	9224	9242	18	0.002	0.813	21:00 hr	2.214	0.537	0.624	0.358	0.274	0.420
3115F4	9242	9330	30	0.002	5.788	09:00 hr	3.860	1.196	0.732	0.479	0.464	0.997
3115EC	9330	9332	30	0.002	5.794	09:01 hr	3.864	1.196	0.733	0.479	0.464	0.998
3115E4	9332	9334	30	0.002	5.850	09:01 hr	3.868	1.204	0.731	0.482	0.469	1.003
3115DC	9334	9336	30	0.002	5.869	33:00 hr	3.868	1.207	0.731	0.483	0.471	1.005
3115D4	9336	9338	30	0.002	5.903	09:01 hr	3.836	1.221	0.721	0.488	0.480	1.008
3115CC	9338	9340	30	0.002	5.936	09:00 hr	3.901	1.210	0.736	0.484	0.473	1.011
3115C1	9340	9246	30	0.002	5.966	09:00 hr	3.914	1.212	0.738	0.485	0.474	1.013
305500	9342	3370	8	0.004	0.006	20:15 hr	0.738	0.052	0.694	0.078	0.012	0.043
3054FC	3368	9342	8	0.003	0.006	20:15 hr	0.673	0.054	0.623	0.080	0.013	0.042
300959	9344	9346	30	0.005	3.685	33:00 hr	4.724	0.736	1.144	0.295	0.189	0.789
300954	9346	9348	30	0.005	3.689	33:00 hr	4.435	0.771	1.047	0.308	0.207	0.790
30094C	9348	9350	30	0.004	3.691	33:00 hr	4.245	0.796	0.985	0.319	0.220	0.790
300944	9350	9352	30	0.004	3.741	33:00 hr	4.259	0.802	0.984	0.321	0.223	0.795
30092E	9352	9354	30	0.004	3.761	09:00 hr	4.269	0.804	0.986	0.322	0.224	0.798
300929	9354	9356	30	0.004	3.773	33:00 hr	4.255	0.808	0.980	0.323	0.226	0.799
300921	9356	9358	30	0.004	3.773	33:00 hr	4.274	0.805	0.986	0.322	0.224	0.799
300916	9358	9360	30	0.004	3.779	33:00 hr	4.276	0.806	0.986	0.322	0.225	0.800
30090E	9360	9362	30	0.004	3.783	33:00 hr	4.274	0.807	0.985	0.323	0.225	0.800
300906	9362	9364	30	0.004	3.785	33:00 hr	4.282	0.806	0.987	0.322	0.225	0.800
2FC553	9366	9368	8	0.010	0.006	07:01 hr	1.038	0.042	1.078	0.063	0.008	0.044
2FC534	9370	9372	8	0.009	0.019	07:02 hr	1.396	0.073	1.102	0.109	0.025	0.076
2FC52D	9372	9368	8	0.010	0.035	07:16 hr	1.750	0.095	1.204	0.143	0.044	0.105
2FC521	9368	880	8	0.012	0.047	07:29 hr	2.008	0.106	1.304	0.160	0.055	0.122
2FC44A	9378	9376	4	0.020	0.012	07:00 hr	1.776	0.060	1.540	0.178	0.069	0.074
2FC443	9376	9380	4	0.025	0.024	07:15 hr	2.325	0.079	1.740	0.236	0.122	0.105
2FC43A	9380	3774	8	0.003	0.025	07:29 hr	1.068	0.108	0.690	0.161	0.056	0.089
2F7CDD	9392	9394	8	0.004	0.013	08:00 hr	0.899	0.075	0.700	0.112	0.027	0.063
2F7CDA	9396	9394	6	0.004	0.004	08:00 hr	0.668	0.048	0.651	0.096	0.019	0.039
2F7CCC	9998	9400	8	0.004	0.008	07:00 hr	0.775	0.061	0.671	0.091	0.017	0.050
2F7CBD	9394	9400	8	0.004	0.017	08:15 hr	0.978	0.088	0.700	0.132	0.038	0.074
2F7CB6	9400	9406	8	0.004	0.028	08:24 hr	1.130	0.111	0.717	0.167	0.061	0.094
2F7CA8	9408	9406	8	0.004	0.008	07:00 hr	0.783	0.061	0.681	0.091	0.017	0.050
2F7CA2	9406	9410	8	0.004	0.038	08:28 hr	1.232	0.129	0.724	0.193	0.082	0.109
2F7C9B	9410	9412	8	0.004	0.040	07:45 hr	1.258	0.133	0.728	0.199	0.087	0.113
2F7C94	9412	1754	8	0.006	0.042	07:45 hr	1.524	0.120	0.931	0.180	0.070	0.116
2CDBEC	9566	2364	24	0.004	6.507	33:30 hr	4.907	1.243	0.941	0.622	0.709	1.136
2CDBE8	2330	9566	24	0.004	6.493	33:30 hr	4.890	1.244	0.937	0.622	0.710	1.134
2CDBE0	9568	9566	8	0.004	0.016	20:32 hr	1.009	0.083	0.747	0.124	0.033	0.071
2CDBD6	9570	9568	8	0.004	0.011	20:16 hr	0.898	0.069	0.731	0.103	0.022	0.059
2CDBCF	9572	9570	8	0.004	0.004	20:02 hr	0.645	0.041	0.682	0.062	0.008	0.034
2BE678	9818	9816	8	0.006	0.007	07:00 hr	0.879	0.051	0.833	0.076	0.012	0.047
2BE670	9816	9820	8	0.011	0.014	07:16 hr	1.378	0.061	1.194	0.091	0.017	0.067
2BE661	9822	9824	8	0.005	0.004	07:00 hr	0.705	0.038	0.772	0.058	0.007	0.034
2BE658	9824	9826	8	0.010	0.011	07:16 hr	1.247	0.055	1.140	0.082	0.014	0.059
2BE64F	9826	9820	8	0.010	0.015	07:29 hr	1.349	0.063	1.144	0.095	0.019	0.068
2BE64C	9820	9828	8	0.019	0.032	07:30 hr	2.114	0.079	1.607	0.118	0.029	0.100
2BE38C	9830	9832	8	0.003	0.004	08:01 hr	0.619	0.044	0.630	0.066	0.009	0.035
2BE389	9832	9834	8	0.003	0.005	08:10 hr	0.654	0.048	0.637	0.073	0.011	0.039
2BE386	9834	9836	8	0.003	0.005	08:13 hr	0.679	0.051	0.641	0.077	0.012	0.041
2BE370	9838	9840	8	0.003	0.002	20:02 hr	0.456	0.028	0.586	0.042	0.003	0.021
2BE364	9844	9842	8	0.003	0.003	20:02 hr	0.537	0.036	0.608	0.054	0.006	0.028
2BE361	9846	9842	8	0.003	0.005	07:00 hr	0.679	0.051	0.641	0.077	0.012	0.041
2BE358	9842	9848	8	0.003	0.009	08:15 hr	0.783	0.065	0.657	0.097	0.020	0.052

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2BE355	9848	9850	8	0.003	0.010	08:15 hr	0.808	0.068	0.664	0.101	0.021	0.055
2BE34A	9850	9852	8	0.003	0.011	08:24 hr	0.827	0.070	0.665	0.106	0.023	0.057
2BE331	9856	9854	8	0.003	0.001	20:01 hr	0.377	0.020	0.570	0.030	0.002	0.015
2BE32E	9854	9840	8	0.003	0.002	20:13 hr	0.510	0.033	0.601	0.050	0.005	0.026
2BE321	9840	9858	8	0.003	0.005	20:20 hr	0.655	0.048	0.642	0.072	0.010	0.038
2BE31E	9858	9860	8	0.003	0.006	20:30 hr	0.689	0.053	0.639	0.080	0.013	0.042
2BE31B	9860	9862	8	0.003	0.007	20:29 hr	0.716	0.057	0.645	0.085	0.015	0.045
2BE304	9864	9862	8	0.003	0.001	20:00 hr	0.330	0.017	0.545	0.026	0.001	0.013
2BE2FC	9862	9866	8	0.003	0.008	20:30 hr	0.764	0.062	0.657	0.093	0.018	0.050
2BE2F2	9868	9866	8	0.003	0.026	08:27 hr	1.079	0.110	0.690	0.164	0.059	0.091
2BE2EF	9852	9868	8	0.003	0.026	08:28 hr	1.081	0.108	0.699	0.161	0.056	0.090
2BE2E7	9836	9852	8	0.003	0.014	08:26 hr	0.897	0.080	0.674	0.121	0.031	0.066
2BE2E0	9870	9872	8	0.003	0.006	08:10 hr	0.716	0.055	0.654	0.083	0.014	0.044
2BE2DD	9872	9836	8	0.003	0.007	08:12 hr	0.744	0.059	0.654	0.089	0.016	0.048
2BE2C9	9874	9870	8	0.003	0.002	07:01 hr	0.481	0.030	0.592	0.046	0.004	0.023
2BE2B6	9866	9876	8	0.005	0.035	08:38 hr	1.335	0.115	0.832	0.173	0.065	0.105
2BE2A9	9876	9878	8	0.003	0.040	08:31 hr	1.218	0.134	0.701	0.201	0.089	0.112
2BE2A6	9878	9880	8	0.003	0.040	08:40 hr	1.183	0.139	0.669	0.208	0.095	0.113
2BE29E	9882	9876	8	0.006	0.004	20:26 hr	0.760	0.038	0.838	0.057	0.006	0.035
2BE296	9884	9882	8	0.003	0.003	20:15 hr	0.562	0.039	0.614	0.058	0.007	0.030
2BE28F	9886	9884	8	0.005	0.001	20:02 hr	0.491	0.024	0.677	0.036	0.002	0.020
2BE27B	9890	9888	8	0.003	0.001	20:00 hr	0.354	0.019	0.556	0.028	0.001	0.014
2BE273	9888	9892	8	0.003	0.002	20:13 hr	0.453	0.028	0.585	0.042	0.003	0.021
2BE26B	9892	9894	8	0.003	0.003	20:14 hr	0.545	0.037	0.608	0.055	0.006	0.029
2BE25B	9894	9896	8	0.003	0.005	20:17 hr	0.674	0.051	0.639	0.077	0.012	0.041
2BE246	9898	9900	8	0.003	0.054	20:44 hr	1.316	0.159	0.692	0.239	0.125	0.132
2BE23C	9902	9898	8	0.003	0.054	20:45 hr	1.330	0.158	0.702	0.237	0.123	0.132
2BE233	9904	9902	8	0.004	0.054	20:44 hr	1.375	0.153	0.738	0.230	0.116	0.131
2BE22C	9896	9904	8	0.003	0.008	20:27 hr	0.762	0.062	0.654	0.093	0.018	0.050
2BE21A	9880	9906	8	0.003	0.041	08:45 hr	1.241	0.135	0.710	0.203	0.090	0.114
2BE20F	9906	9904	8	0.003	0.046	08:45 hr	1.280	0.143	0.711	0.215	0.102	0.121
2BE1FA	9908	9906	8	0.011	0.004	20:27 hr	0.961	0.035	1.102	0.053	0.005	0.037
2BE1F2	9910	9908	8	0.007	0.004	20:15 hr	0.759	0.035	0.867	0.053	0.005	0.033
2BE1EA	9912	9910	8	0.003	0.002	20:02 hr	0.454	0.028	0.585	0.042	0.003	0.021
2B69CB	9930	9928	8	0.005	0.051	07:02 hr	1.544	0.136	0.881	0.205	0.092	0.128
2B69C4	9928	9932	8	0.022	0.059	07:15 hr	2.672	0.102	1.773	0.153	0.051	0.137
2B69BA	9932	9936	8	0.030	0.060	07:30 hr	3.021	0.095	2.082	0.143	0.044	0.138
2B69A9	9936	4864	12	0.003	0.065	07:42 hr	1.276	0.156	0.685	0.156	0.053	0.129
2B69A2	9938	9936	10	0.010	0.005	07:15 hr	0.933	0.037	1.045	0.044	0.004	0.038
2B699B	9940	9938	10	0.005	0.005	07:00 hr	0.733	0.044	0.749	0.053	0.005	0.038
2B697D	4868	9942	12	0.001	0.081	08:00 hr	0.833	0.245	0.352	0.245	0.132	0.144
2B696B	9946	9942	6	0.011	0.015	07:01 hr	1.442	0.068	1.178	0.135	0.039	0.073
2B57E3	9948	9244	24	0.005	4.293	08:59 hr	4.679	0.924	1.008	0.462	0.437	0.913
2B57BA	9952	9344	24	0.021	2.869	32:59 hr	7.301	0.496	2.169	0.248	0.135	0.740
2B57B3	9954	9344	15	0.004	0.036	07:00 hr	1.179	0.102	0.788	0.082	0.014	0.091
2B57A6	9956	9344	15	0.004	0.780	08:59 hr	2.877	0.468	0.867	0.375	0.298	0.433
2B5798	9958	9956	15	0.002	0.113	07:00 hr	1.174	0.223	0.526	0.178	0.069	0.161
2B5731	9364	9960	24	0.005	3.788	33:00 hr	4.530	0.861	1.008	0.431	0.385	0.856
2B5729	7636	9960	12	0.048	0.480	21:00 hr	6.269	0.208	2.893	0.208	0.095	0.360
2B5722	9960	9962	24	0.005	4.264	09:00 hr	4.668	0.921	1.007	0.461	0.434	0.910
2B571A	9962	9964	24	0.005	4.266	09:00 hr	4.672	0.921	1.007	0.460	0.434	0.910
2B5712	9964	9966	24	0.005	4.276	09:00 hr	4.674	0.922	1.007	0.461	0.435	0.912
2B570A	9966	9948	24	0.009	4.291	09:00 hr	6.041	0.762	1.427	0.381	0.308	0.913
1006	9382	9376	4	0.020	0.010	07:00 hr	1.681	0.054	1.529	0.163	0.058	0.067
1046	CH31	CH29	8	0.005	0.253	08:21 hr	2.476	0.309	0.923	0.463	0.438	0.291
1048	CH33	CH29	12	0.006	0.645	21:06 hr	3.160	0.423	1.003	0.423	0.373	0.419
1050	CH29	CH35	15	0.006	1.630	45:05 hr	4.000	0.638	1.043	0.511	0.518	0.636
1052	CH35	CH37	18	0.006	1.625	45:08 hr	3.975	0.581	1.075	0.387	0.318	0.601
1056	CH41	CH37	12	0.006	0.730	20:59 hr	3.344	0.445	1.036	0.445	0.408	0.447
1058	CH37	CH627	18	0.006	2.699	45:04 hr	4.492	0.781	1.061	0.520	0.535	0.783
1060	7490	CH43	24	0.004	2.790	45:00 hr	3.989	0.753	0.948	0.377	0.302	0.730
1062	CH43	CH45	24	0.001	2.788	45:22 hr	2.389	1.118	0.475	0.559	0.601	0.730
1064	CH45	CH47	24	0.002	2.791	45:29 hr	3.099	0.911	0.672	0.456	0.426	0.730

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
1066	CH47	CH49	24	0.002	2.791	45:30 hr	2.909	0.957	0.617	0.479	0.464	0.730
1070	CH51	CH53	12	0.003	0.118	07:16 hr	1.601	0.203	0.749	0.203	0.090	0.175
1072	CH53	CH55	12	0.003	0.386	07:48 hr	2.244	0.372	0.759	0.372	0.295	0.321
1076	CH57	3316	12	0.002	0.069	07:16 hr	1.102	0.181	0.548	0.181	0.071	0.133
1078	3334	CH59	36	0.003	6.535	09:21 hr	4.396	1.083	0.871	0.361	0.279	1.006
1082	CH61	CH63	36	0.003	8.127	09:46 hr	4.864	1.181	0.923	0.394	0.327	1.127
1084	CH63	3028	36	0.003	8.230	09:47 hr	4.841	1.197	0.913	0.399	0.335	1.134
1088	CH69	CH71	8	0.006	0.255	08:20 hr	2.580	0.301	0.972	0.452	0.420	0.293
1090	CH71	CH73	12	0.006	0.491	08:40 hr	3.024	0.357	1.045	0.357	0.273	0.364
1092	CH73	9956	12	0.006	0.668	08:54 hr	3.293	0.421	1.048	0.421	0.369	0.427
1094	CH75	CH77	8	0.004	0.143	20:37 hr	1.894	0.246	0.788	0.369	0.290	0.217
1096	CH77	CH79	8	0.002	0.183	21:09 hr	1.453	0.365	0.505	0.547	0.580	0.246
1100	CH79	CH83	15	0.002	0.619	45:03 hr	2.080	0.502	0.606	0.401	0.339	0.384
1102	CH83	CH85	18	0.002	0.701	21:04 hr	2.126	0.496	0.624	0.331	0.236	0.389
1104	CH85	CH87	18	0.002	0.761	21:03 hr	2.175	0.518	0.624	0.345	0.256	0.406
1106	CH87	9222	18	0.002	0.805	21:02 hr	2.172	0.541	0.610	0.360	0.278	0.417
1108	CH89	CH91	8	0.004	0.114	08:27 hr	1.819	0.214	0.814	0.321	0.223	0.192
1114	CH91	CH79	8	0.004	0.302	09:04 hr	2.258	0.383	0.771	0.574	0.627	0.320
1116	CH95	CH97	8	0.004	0.052	20:35 hr	1.455	0.145	0.805	0.217	0.103	0.129
1118	CH99	CH103	8	0.006	0.150	20:16 hr	2.208	0.227	0.958	0.340	0.249	0.222
1120	CH103	CH97	12	0.006	0.319	20:44 hr	2.645	0.287	1.026	0.287	0.180	0.291
1122	CH101	CH103	8	0.004	0.088	20:33 hr	1.656	0.191	0.789	0.286	0.179	0.169
1124	CH105	CH635	8	0.005	0.068	20:23 hr	1.657	0.158	0.873	0.238	0.124	0.148
1126	CH107	CH639	8	0.005	0.205	21:03 hr	2.271	0.281	0.884	0.422	0.371	0.261
1128	CH109	CH111	12	0.006	1.025	09:05 hr	3.665	0.540	1.044	0.540	0.568	0.534
1132	CH113	CH115	21	0.002	1.847	33:09 hr	2.898	0.751	0.690	0.429	0.383	0.613
1134	CH115	9952	24	0.003	2.862	33:01 hr	3.603	0.828	0.817	0.414	0.359	0.739
1136	CH97	CH113	12	0.002	0.453	21:05 hr	1.926	0.471	0.582	0.471	0.451	0.349
1138	CH117	CH119	8	0.004	0.065	08:22 hr	1.490	0.165	0.768	0.248	0.134	0.144
1140	CH119	CH109	8	0.004	0.185	08:57 hr	2.013	0.284	0.780	0.426	0.378	0.247
1142	CH121	CH123	12	0.006	0.782	08:10 hr	3.397	0.464	1.033	0.464	0.439	0.464
1144	CH123	CH115	12	0.006	0.959	32:27 hr	3.504	0.531	1.005	0.531	0.553	0.516
1146	CH125	CH129	8	0.003	0.106	20:22 hr	1.609	0.223	0.704	0.334	0.241	0.186
1150	CH129	CH127	12	0.001	0.232	21:00 hr	1.240	0.396	0.406	0.396	0.331	0.247
1152	CH131	CH133	8	0.002	0.127	20:24 hr	1.534	0.264	0.616	0.395	0.330	0.204
1154	CH133	CH135	8	0.005	0.198	20:38 hr	2.156	0.284	0.835	0.427	0.379	0.256
1156	CH135	CH137	8	0.006	0.272	20:54 hr	2.606	0.314	0.964	0.470	0.450	0.302
1160	CH141	CH147	8	0.000	0.078	20:57 hr	0.637	0.356	0.224	0.533	0.557	0.158
1162	CH143	CH233	8	0.002	0.189	21:00 hr	1.581	0.349	0.559	0.524	0.541	0.250
1164	CH147	CH143	8	0.001	0.145	20:58 hr	1.203	0.351	0.424	0.527	0.546	0.218
1176	CH161	CH163	8	0.005	0.173	07:23 hr	2.208	0.253	0.906	0.379	0.306	0.239
1178	CH163	CH165	12	0.002	0.479	08:02 hr	1.959	0.486	0.583	0.486	0.476	0.360
1180	CH153	CH167	12	0.002	0.779	08:36 hr	2.324	0.627	0.628	0.627	0.718	0.463
1182	CH167	LS23	18	0.002	1.567	32:50 hr	2.724	0.755	0.652	0.503	0.505	0.589
1184	CH165	CH167	12	0.002	0.629	08:31 hr	2.091	0.573	0.583	0.573	0.625	0.414
1186	CH171	LS25	12	0.002	0.405	20:40 hr	1.931	0.432	0.607	0.432	0.387	0.329
1190	CH177	CH179	8	0.008	0.430	20:09 hr	3.275	0.376	1.122	0.565	0.611	0.385
1192	CH179	LS25	12	0.008	0.785	20:16 hr	3.829	0.424	1.213	0.424	0.375	0.465
1200	CH181	CH183	12	0.006	0.398	08:06 hr	2.907	0.315	1.074	0.315	0.215	0.326
1206	CH187	CH189	15	0.004	1.024	09:01 hr	2.965	0.562	0.818	0.449	0.415	0.499
1208	CH189	CH191	15	0.004	1.039	09:02 hr	2.984	0.565	0.821	0.452	0.420	0.503
1210	CH191	CH193	15	0.004	1.112	09:08 hr	3.077	0.582	0.835	0.465	0.442	0.521
1212	CH193	CH195	15	0.004	1.233	09:20 hr	3.158	0.617	0.835	0.494	0.490	0.550
1214	CH195	CH197	15	0.004	1.318	09:31 hr	3.212	0.642	0.836	0.514	0.523	0.569
1222	CH201	CH659	24	0.001	3.532	10:03 hr	2.703	1.228	0.520	0.614	0.695	0.825
1224	CH203	CH205	30	0.001	6.179	34:01 hr	3.112	1.499	0.540	0.599	0.671	1.032
1226	CH205	BODYEAR W	30	0.001	6.213	34:02 hr	3.114	1.505	0.540	0.602	0.675	1.035
1228	CH197	CH207	15	0.004	1.375	09:38 hr	3.244	0.659	0.835	0.527	0.546	0.582
1230	CH207	CH209	18	0.001	1.448	09:56 hr	2.143	0.859	0.488	0.572	0.624	0.566
1232	CH209	CH201	24	0.001	2.659	09:59 hr	2.528	1.028	0.520	0.514	0.524	0.712
1236	CH215	LS21	12	0.002	0.325	07:52 hr	1.769	0.391	0.584	0.391	0.323	0.294
1252	CH175	CH1181	8	0.003	0.102	20:18 hr	1.600	0.216	0.712	0.324	0.228	0.181
1254	CH227	LS25	21	0.001	1.265	08:45 hr	2.051	0.733	0.494	0.419	0.366	0.504

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
1270	CH241	CH245	12	0.003	0.594	08:04 hr	2.382	0.493	0.705	0.493	0.488	0.402
1272	CH245	CH201	12	0.003	0.785	08:11 hr	2.624	0.570	0.733	0.570	0.621	0.465
1276	CH249	CH251	8	0.004	0.375	20:24 hr	2.465	0.426	0.808	0.639	0.738	0.358
1278	CH251	LS29	12	0.004	0.755	20:49 hr	2.878	0.513	0.838	0.513	0.522	0.455
1282	CH257	9332	12	0.005	0.047	20:02 hr	1.422	0.117	0.887	0.117	0.029	0.110
1286	CH261	CH153	12	0.002	0.642	08:02 hr	2.240	0.551	0.634	0.551	0.587	0.419
1288	CH263	CH261	8	0.002	0.184	07:46 hr	1.626	0.335	0.585	0.502	0.503	0.247
1290	CH247	CH261	12	0.002	0.272	07:50 hr	1.684	0.355	0.583	0.355	0.270	0.268
1294	8478	CH187	15	0.003	1.025	09:01 hr	2.932	0.567	0.806	0.453	0.422	0.499
1296	CH265	7946	8	0.005	0.128	07:15 hr	1.920	0.225	0.837	0.337	0.244	0.205
1298	7946	CH181	12	0.006	0.392	07:59 hr	2.862	0.315	1.056	0.315	0.215	0.324
1300	CH211	CH671	8	0.003	0.154	07:48 hr	1.795	0.270	0.712	0.405	0.345	0.225
1306	CH269	LS33	8	0.006	0.147	06:45 hr	11.030	0.073	8.734	0.109	0.025	0.219
1256	CH137	LS27	8	0.005	0.053	08:50 hr	1.546	0.139	0.874	0.208	0.095	0.130
1148	CH127	9246	18	0.001	1.102	19:46 hr	1.978	0.736	0.478	0.491	0.484	0.491
1644	CH619	CH621	8	0.001	0.169	09:09 hr	1.101	0.430	0.360	0.644	0.747	0.236
1646	CH621	CH33	8	0.005	0.241	09:05 hr	2.405	0.305	0.902	0.457	0.428	0.284
1648	CH623	CH625	8	0.005	0.198	20:21 hr	2.236	0.276	0.878	0.414	0.359	0.256
1650	CH625	CH41	8	0.006	0.352	20:42 hr	2.789	0.365	0.968	0.547	0.581	0.346
1652	CH627	7490	18	0.006	3.076	45:05 hr	4.681	0.839	1.074	0.559	0.602	0.838
1662	CH633	7078	12	0.005	0.901	07:12 hr	3.296	0.530	0.946	0.530	0.552	0.500
1664	CH635	CH107	8	0.005	0.147	20:34 hr	2.075	0.234	0.885	0.352	0.265	0.220
1666	CH637	CH635	8	0.005	0.032	08:07 hr	1.338	0.109	0.858	0.164	0.058	0.101
1668	CH639	CH109	10	0.006	0.576	09:03 hr	3.211	0.423	1.028	0.507	0.512	0.418
1670	CH641	CH639	8	0.008	0.125	08:09 hr	2.296	0.193	1.085	0.290	0.184	0.202
1672	CH643	CH645	8	0.006	0.130	07:13 hr	2.078	0.214	0.930	0.320	0.222	0.206
1674	CH645	CH647	12	0.006	0.457	07:25 hr	2.911	0.348	1.019	0.348	0.260	0.351
1676	CH647	CH121	12	0.006	0.628	32:00 hr	3.169	0.414	1.017	0.414	0.358	0.414
1678	CH649	1998	8	0.005	0.209	07:23 hr	2.232	0.288	0.858	0.432	0.388	0.263
1680	CH185	CH651	12	0.002	0.153	07:45 hr	1.433	0.264	0.582	0.264	0.152	0.200
1682	CH653	CH185	8	0.003	0.067	07:25 hr	1.431	0.074	0.717	0.261	0.149	0.147
1684	CH655	CH651	8	0.003	0.063	07:24 hr	1.404	0.168	0.716	0.252	0.139	0.142
1686	CH657	CH203	18	0.003	2.009	33:25 hr	3.110	0.828	0.718	0.552	0.589	0.671
1688	CH659	CH203	27	0.001	3.994	10:04 hr	2.797	1.223	0.530	0.544	0.575	0.849
1692	CH661	CH659	8	0.003	0.212	07:22 hr	1.967	0.322	0.719	0.483	0.471	0.266
1694	CH663	CH209	8	0.003	0.115	07:27 hr	1.669	0.230	0.719	0.345	0.256	0.194
1696	CH665	CH667	8	0.006	0.085	07:09 hr	1.893	0.168	0.966	0.252	0.140	0.165
1698	CH667	CH669	8	0.006	0.210	07:22 hr	2.442	0.271	0.968	0.406	0.346	0.264
1700	CH669	CH241	8	0.006	0.446	07:39 hr	2.939	0.425	0.968	0.638	0.736	0.392
1702	CH671	LS21	8	0.004	0.293	07:56 hr	2.349	0.361	0.819	0.542	0.572	0.315
1704	CH673	CH211	8	0.003	0.083	07:22 hr	1.523	0.194	0.718	0.291	0.185	0.164
1706	CH675	CH677	8	0.003	0.116	07:15 hr	1.671	0.231	0.718	0.346	0.257	0.194
1708	CH677	CH215	8	0.003	0.221	07:37 hr	1.984	0.330	0.718	0.494	0.490	0.271
1710	CH679	CH681	12	0.003	0.026	06:13 hr	0.927	0.104	0.611	0.104	0.023	0.081
1712	CH681	CH269	12	0.002	0.069	06:31 hr	1.212	0.169	0.623	0.169	0.062	0.133
1714	CH683	CH685	8	0.013	0.014	06:09 hr	1.434	0.059	1.252	0.088	0.016	0.066
1716	CH685	CH269	8	0.001	0.044	06:40 hr	0.733	0.206	0.335	0.309	0.208	0.118
1718	CH687	CH689	8	0.005	0.091	07:13 hr	1.793	0.184	0.870	0.276	0.167	0.172
1720	CH689	7212	12	0.005	0.220	07:22 hr	2.191	0.252	0.913	0.252	0.139	0.241
1722	CH691	874	8	0.005	0.203	07:22 hr	2.263	0.279	0.884	0.418	0.366	0.259
1724	CH693	CH691	8	0.005	0.082	07:11 hr	1.761	0.174	0.883	0.261	0.149	0.163
1726	CH695	CH697	8	0.005	0.035	07:04 hr	1.368	0.113	0.860	0.170	0.063	0.105
1728	CH697	4678	8	0.005	0.093	07:21 hr	1.823	0.185	0.884	0.277	0.168	0.173
1730	CH55	CH699	12	0.004	0.633	07:52 hr	2.766	0.461	0.843	0.461	0.435	0.416
1732	CH699	CH701	12	0.004	0.799	08:03 hr	2.931	0.529	0.842	0.529	0.550	0.469
1734	CH701	3334	12	0.004	0.897	08:04 hr	3.012	0.568	0.842	0.568	0.617	0.498
1736	CH703	CH705	8	0.004	0.104	07:21 hr	1.684	0.213	0.756	0.319	0.221	0.184
1740	CH707	CH709	15	0.008	1.146	09:01 hr	4.144	0.475	1.240	0.380	0.306	0.529
1748	CH715	CH55	8	0.005	0.123	07:08 hr	1.999	0.211	0.901	0.317	0.217	0.200
1750	CH717	CH719	12	0.003	0.486	32:54 hr	2.295	0.435	0.714	0.435	0.392	0.362
1752	CH719	CH721	12	0.003	0.611	33:03 hr	2.436	0.495	0.719	0.495	0.492	0.408
1754	CH721	CH707	12	0.003	0.680	33:09 hr	2.629	0.508	0.768	0.508	0.513	0.431
1756	CH243	CH241	8	0.003	0.113	07:17 hr	1.660	0.228	0.718	0.342	0.251	0.192

Pipeline Hydraulic Performance PWWF at Buildout													
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth	
2214	598	CH1175	36	0.001	10.342	09:47 hr	3.499	1.850	0.549	0.617	0.700	1.277	
2216	CH1169	ODYEAR_W	36	0.001	10.507	10:00 hr	3.487	1.880	0.545	0.627	0.717	1.288	
2218	CH1171	CH1169	36	0.001	10.468	10:00 hr	3.496	1.870	0.547	0.623	0.712	1.285	
2220	CH1173	CH1171	36	0.001	10.415	10:00 hr	3.398	1.908	0.528	0.636	0.733	1.282	
2222	CH1175	CH1173	36	0.001	10.365	09:47 hr	3.469	1.866	0.543	0.622	0.710	1.279	
2230	CH1181	CH227	15	0.002	1.144	32:44 hr	2.291	0.753	0.561	0.603	0.676	0.529	
2234	CH1185	ODYEAR_W	18	0.014	2.148	32:59 hr	6.004	0.527	1.705	0.351	0.265	0.695	
2236	CH183	CH1181	15	0.003	0.935	08:21 hr	2.577	0.583	0.699	0.467	0.444	0.476	
2242	6736	9006	15	0.764	0.333	08:14 hr	71.250	0.029	90.469	0.023	0.001	0.279	
2246	CH651	CH183	12	0.002	0.326	08:18 hr	1.770	0.391	0.583	0.391	0.324	0.294	
2248	2348	CH657	18	0.004	1.804	33:15 hr	3.503	0.692	0.872	0.461	0.435	0.634	
2260	8532	8530	18	0.001	0.051	07:11 hr	0.790	0.160	0.422	0.106	0.024	0.103	
2262	8530	8528	18	0.001	0.084	07:23 hr	0.913	0.203	0.431	0.135	0.039	0.133	
2264	8528	2348	18	0.001	0.095	07:35 hr	0.957	0.213	0.441	0.142	0.043	0.141	
2266	CH1191	CH1199	15	0.003	1.042	36:31 hr	2.675	0.616	0.708	0.493	0.488	0.504	
2268	CH1195	9240	15	0.003	1.058	36:30 hr	2.641	0.630	0.693	0.504	0.506	0.507	
2270	CH1197	CH1195	15	0.003	1.056	36:31 hr	2.645	0.628	0.694	0.503	0.504	0.507	
2272	CH1199	CH1197	15	0.003	1.049	36:31 hr	2.641	0.626	0.694	0.501	0.501	0.505	
2276	CH1203	CH1191	15	0.002	1.019	12:30 hr	2.256	0.693	0.569	0.555	0.594	0.498	
2278	CH1205	CH1203	15	0.246	0.002	20:00 hr	0.000	0.000	0.000	0.000	0.000	0.019	
2280	CH1207	CH1203	15	0.002	1.015	12:30 hr	2.459	0.645	0.639	0.516	0.527	0.497	
2282	CH1209	CH1211	15	0.007	1.008	12:30 hr	3.741	0.466	1.130	0.373	0.296	0.495	
2284	CH1211	CH1207	15	0.003	1.009	12:30 hr	2.619	0.611	0.696	0.489	0.481	0.495	
2286	CH1213	CH1209	15	0.002	0.995	12:30 hr	2.447	0.638	0.638	0.510	0.517	0.492	
2288	CH1215	CH1213	15	0.002	0.992	12:30 hr	2.445	0.636	0.638	0.509	0.515	0.491	
2290	CH1217	CH1219	15	0.002	0.987	36:15 hr	2.455	0.632	0.643	0.505	0.509	0.489	
2292	CH1219	CH1215	15	0.002	0.988	36:16 hr	2.436	0.636	0.636	0.509	0.515	0.490	
2294	CH1221	CH1217	15	0.002	0.983	36:15 hr	2.442	0.632	0.639	0.506	0.510	0.488	
2296	CH1223	CH1221	15	0.002	0.979	36:17 hr	2.438	0.631	0.639	0.505	0.508	0.487	
2298	CH1225	CH1223	15	0.002	0.972	36:15 hr	2.409	0.634	0.630	0.507	0.512	0.486	
2300	CH1227	CH1225	15	0.002	0.966	36:15 hr	2.428	0.627	0.638	0.501	0.502	0.484	
2302	CH1229	CH1227	15	0.067	0.965	36:15 hr	42.228	0.084	31.288	0.067	0.009	0.484	
2308	CH1235	CH1209	8	0.007	0.022	20:00 hr	6.601	0.028	8.447	0.042	0.003	0.083	
2310	CH1237	CH1217	8	0.003	0.007	20:00 hr	3.602	0.019	5.577	0.029	0.002	0.046	
2312	CH1239	CH1223	8	0.016	0.005	08:00 hr	5.722	0.012	11.291	0.018	0.001	0.040	
2314	CH1241	CH1229	8	0.015	0.016	20:00 hr	7.918	0.020	11.930	0.031	0.002	0.071	
2316	CH1243	CH1201	8	0.010	0.023	20:00 hr	1.537	0.078	1.173	0.117	0.029	0.085	
2318	CH1245	CH1231	8	0.020	0.013	20:14 hr	8.147	0.017	13.327	0.026	0.001	0.064	
2320	CH1247	CH1245	8	0.006	0.013	20:00 hr	5.340	0.023	7.659	0.034	0.002	0.063	
2324	CH1367	CH1253	12	0.006	0.560	08:00 hr	3.023	0.393	0.995	0.393	0.326	0.390	
2326	CH1249	CH1257	8	0.004	0.020	07:04 hr	1.050	0.094	0.729	0.140	0.042	0.080	
2328	CH1257	CH1259	8	0.004	0.071	07:18 hr	1.555	0.170	0.788	0.255	0.143	0.151	
2330	CH1259	CH1261	8	0.004	0.134	07:33 hr	1.864	0.237	0.791	0.355	0.270	0.209	
2332	CH1261	CH1255	8	0.003	0.155	07:48 hr	1.808	0.270	0.718	0.405	0.344	0.226	
2354	CH1255	CH1283	12	0.004	0.187	08:00 hr	1.989	0.241	0.850	0.241	0.127	0.221	
2356	CH1283	CH1285	12	0.006	0.196	08:00 hr	2.260	0.227	0.995	0.227	0.114	0.227	
2358	CH1285	CH1287	12	0.006	0.205	08:00 hr	2.289	0.233	0.996	0.233	0.119	0.232	
2364	CH1297	CH1299	12	0.004	0.111	07:03 hr	1.618	0.193	0.777	0.193	0.081	0.170	
2366	CH1299	CH1301	12	0.002	0.174	07:19 hr	1.507	0.279	0.595	0.279	0.170	0.213	
2368	CH1301	CH1303	12	0.002	0.220	07:33 hr	1.615	0.314	0.597	0.314	0.214	0.241	
2370	CH1303	CH1305	12	0.002	0.251	07:46 hr	1.683	0.335	0.601	0.335	0.242	0.257	
2372	CH1305	CH1307	12	0.000	0.278	07:58 hr	0.858	0.610	0.234	0.610	0.688	0.271	
2374	CH1307	CH1309	12	0.002	0.302	08:00 hr	1.760	0.372	0.596	0.372	0.294	0.283	
2376	CH1309	CH1311	12	0.002	0.322	08:00 hr	1.796	0.383	0.598	0.383	0.312	0.293	
2378	CH1311	CH1313	12	0.002	0.331	32:00 hr	1.819	0.388	0.603	0.388	0.318	0.297	
2380	CH1313	CH1315	12	0.002	0.335	32:02 hr	1.815	0.392	0.598	0.392	0.325	0.299	
2384	CH1319	CH1317	12	0.003	0.290	08:15 hr	1.999	0.328	0.722	0.328	0.233	0.277	
2386	CH1321	CH1319	12	0.002	0.290	08:15 hr	1.830	0.350	0.639	0.350	0.263	0.277	
2388	CH1323	CH1321	12	0.003	0.285	08:16 hr	1.991	0.325	0.723	0.325	0.228	0.275	
2390	CH1325	CH1323	12	0.003	0.274	08:01 hr	1.962	0.319	0.719	0.319	0.221	0.269	
2392	CH1327	CH1325	12	0.003	0.257	08:02 hr	1.825	0.321	0.667	0.321	0.223	0.260	
2394	CH1329	CH1327	12	0.003	0.239	08:00 hr	1.834	0.303	0.691	0.303	0.200	0.251	
2396	CH1331	CH1329	12	0.008	0.228	08:00 hr	2.638	0.227	1.163	0.227	0.113	0.245	

Pipeline Hydraulic Performance PWWF at Buildout												
ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time (hour)	Maximum Velocity (ft/s)	Maximum Water Depth (ft)	Maximum Froude Number	Maximum d/D	Maximum q/Q	Maximum Critical Depth
2398	CH1333	CH1331	12	0.009	0.219	08:00 hr	2.740	0.215	1.244	0.215	0.101	0.240
2400	CH1335	CH1333	12	0.002	0.198	08:00 hr	1.560	0.298	0.593	0.298	0.194	0.228
2402	CH1337	CH1335	12	0.002	0.187	08:00 hr	1.545	0.288	0.599	0.288	0.181	0.221
2404	CH1339	CH1337	12	0.002	0.173	08:00 hr	1.510	0.277	0.598	0.277	0.167	0.213
2406	CH1341	CH1339	12	0.002	0.163	08:00 hr	1.487	0.268	0.599	0.268	0.157	0.206
2408	CH1343	CH1341	12	0.002	0.149	08:00 hr	1.452	0.256	0.600	0.256	0.144	0.197
2410	CH1345	CH1343	12	0.002	0.143	07:58 hr	1.429	0.251	0.597	0.251	0.138	0.193
2412	CH1347	CH1345	12	0.002	0.137	07:55 hr	1.407	0.247	0.593	0.247	0.133	0.189
2414	CH1349	CH1347	12	0.004	0.131	07:45 hr	1.719	0.207	0.795	0.207	0.094	0.184
2416	CH1351	CH1349	12	0.002	0.048	07:44 hr	1.039	0.147	0.575	0.147	0.047	0.111
2418	CH1353	CH1349	8	0.012	0.081	07:57 hr	2.386	0.138	1.353	0.207	0.094	0.161
2420	CH1317	CH1355	15	0.003	1.499	08:16 hr	3.027	0.748	0.743	0.599	0.669	0.609
2430	CH1287	CH1367	12	0.006	0.224	08:00 hr	2.348	0.243	0.997	0.243	0.130	0.243
2432	CH1251	CH1363	8	0.003	0.151	07:11 hr	1.797	0.266	0.718	0.400	0.336	0.223
2434	CH1363	CH1263	8	0.004	0.184	07:20 hr	2.024	0.282	0.787	0.423	0.373	0.247
2436	CH1263	CH1265	8	0.004	0.207	07:32 hr	2.089	0.301	0.787	0.452	0.420	0.262
2438	CH1265	CH1365	8	0.004	0.231	07:48 hr	2.148	0.321	0.787	0.481	0.468	0.278
2440	CH1365	CH1367	8	0.004	0.319	08:00 hr	2.323	0.390	0.787	0.586	0.647	0.329
2442	CH1369	CH1257	6	0.004	0.029	07:04 hr	1.259	0.120	0.763	0.239	0.126	0.104
2444	CH1371	CH1259	8	0.003	0.042	07:07 hr	1.142	0.147	0.626	0.220	0.107	0.116
2446	CH1373	CH1375	12	0.008	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
2448	CH1375	CH1377	12	0.010	0.016	07:01 hr	1.325	0.059	1.167	0.059	0.007	0.064
2450	CH1377	CH1379	12	0.010	0.021	07:15 hr	1.433	0.067	1.191	0.067	0.009	0.073
2452	CH1379	CH1381	12	0.010	0.026	07:30 hr	1.530	0.074	1.209	0.074	0.011	0.081
2454	CH1381	CH1383	12	0.010	0.032	07:30 hr	1.640	0.082	1.225	0.082	0.014	0.091
2456	CH1383	CH1351	12	0.010	0.041	07:46 hr	1.764	0.092	1.244	0.092	0.018	0.103
2458	CH1385	CH1393	8	0.009	0.035	07:01 hr	1.710	0.098	1.156	0.147	0.047	0.106
2460	CH1387	CH1389	8	0.010	0.044	07:30 hr	1.849	0.109	1.187	0.163	0.058	0.119
2462	CH1389	CH1391	8	0.010	0.051	07:42 hr	1.921	0.116	1.192	0.174	0.066	0.127
2464	CH1391	CH1353	8	0.010	0.078	07:46 hr	2.180	0.144	1.209	0.216	0.102	0.158
2466	CH1393	CH1387	8	0.005	0.040	07:15 hr	1.430	0.122	0.866	0.183	0.073	0.113
2468	CH1253	CH1395	12	0.006	0.574	32:01 hr	3.056	0.397	1.000	0.397	0.332	0.395
2472	548	CH1397	15	0.037	0.924	08:59 hr	33.916	0.094	23.652	0.075	0.012	0.473
2474	CH1397	CH1399	15	0.000	0.924	10:22 hr	1.805	0.769	0.439	0.615	0.698	0.473
2476	CH1399	CH1401	15	0.000	0.924	11:07 hr	1.805	0.769	0.439	0.615	0.698	0.473
2478	CH1401	CH1201	15	0.000	0.924	12:15 hr	1.805	0.769	0.439	0.615	0.698	0.473
2480	CH1403	CH1405	8	0.005	0.173	20:24 hr	2.170	0.256	0.884	0.384	0.313	0.239
2482	CH1405	766	12	0.007	0.410	20:47 hr	3.008	0.314	1.112	0.314	0.214	0.332
2488	CH1409	CH1411	8	0.005	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
2490	CH1411	CH1395	12	0.007	0.000	00:00 hr	0.000	0.000	0.000	0.000	0.000	0.000
1746	CH713	CH59	15	0.002	1.368	09:43 hr	2.633	0.779	0.638	0.623	0.711	0.580
2494	CH1413	CH61	36	0.003	8.038	09:31 hr	4.848	1.174	0.922	0.392	0.324	1.120
2498	CH59	CH1413	36	0.003	8.042	09:31 hr	4.848	1.175	0.922	0.392	0.324	1.120
2500	8516	8518	15	0.003	0.096	09:02 hr	1.356	0.181	0.677	0.145	0.045	0.149
2502	8516	8518	15	0.002	0.389	09:02 hr	1.903	0.381	0.639	0.305	0.202	0.303
2504	8516	8518	15	0.002	0.389	09:02 hr	1.903	0.381	0.639	0.305	0.202	0.303
2506	8516	8518	15	0.002	0.389	09:02 hr	1.903	0.381	0.639	0.305	0.202	0.303
2508	4656	CH1415	48	0.001	22.319	09:54 hr	4.538	2.333	0.628	0.583	0.643	1.748
2510	CH1415	ODYEAR_W	48	0.001	22.308	10:00 hr	4.390	2.398	0.602	0.599	0.671	1.748
1744	CH711	CH713	15	0.003	1.221	09:37 hr	2.754	0.683	0.699	0.546	0.579	0.547

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
64	975.20	959.16	45:00 hr	0.0000	5.511
68	974.79	963.19	21:00 hr	0.0008	0.430
70	975.29	964.07	21:00 hr	0.0007	0.514
72	976.00	967.27	21:00 hr	0.0025	0.375
74	977.44	968.16	21:00 hr	0.0056	0.668
76	978.85	968.56	21:00 hr	0.0027	0.663
78	979.10	968.99	21:00 hr	0.0021	0.660
80	979.76	969.30	21:00 hr	0.0012	0.659
82	975.68	969.30	21:00 hr	0.0030	0.529
84	981.50	970.32	21:00 hr	0.0036	0.654
86	980.00	971.16	45:00 hr	0.0011	0.486
88	980.00	972.17	20:45 hr	0.0049	0.367
90	981.62	972.17	20:45 hr	0.0045	0.487
92	980.00	971.63	45:00 hr	0.0004	0.483
96	981.89	972.66	20:45 hr	0.0096	0.473
98	981.44	973.07	20:45 hr	0.0097	0.469
100	983.00	973.51	20:45 hr	0.0046	0.469
104	986.50	974.38	20:45 hr	0.0000	0.457
778	996.10	983.11	21:00 hr	0.0016	0.310
780	992.51	990.83	21:00 hr	0.0027	0.118
782	979.90	963.09	21:00 hr	0.0000	0.507
784	981.51	963.42	07:00 hr	0.0000	0.010
918	985.80	977.09	20:45 hr	0.0000	0.331
920	987.59	977.17	20:45 hr	0.0007	0.243
922	985.10	976.40	20:45 hr	0.0005	0.332
924	986.60	974.79	20:45 hr	0.0006	0.310
926	986.50	976.47	20:45 hr	0.0033	0.151
928	982.50	976.53	20:45 hr	0.0006	0.148
974	1006.15	998.57	45:00 hr	0.0002	0.882
1000	1001.02	988.00	20:45 hr	0.0005	0.141
1002	1000.51	988.14	20:45 hr	0.0017	0.136
1004	1001.52	988.41	20:45 hr	0.0004	0.134
1054	1016.09	1007.33	20:15 hr	0.0017	0.030
1056	1019.36	1011.02	20:00 hr	0.0022	0.023
1058	1013.64	1005.32	20:30 hr	0.0019	0.035
1060	1011.30	1003.05	20:30 hr	0.0018	0.047
1062	1010.15	1002.00	20:45 hr	0.0017	0.052
1064	1009.52	1000.85	20:45 hr	0.0023	0.054
1066	1011.32	1003.48	20:15 hr	0.0023	0.049
1068	1011.41	1004.14	20:00 hr	0.0061	0.042
1070	1002.10	993.79	20:45 hr	0.0022	0.057
1072	999.67	988.68	20:45 hr	0.0022	0.135
1074	1008.05	995.96	20:15 hr	0.0018	0.049
1076	1009.62	995.53	20:30 hr	0.0025	0.060
1078	1003.27	996.54	20:00 hr	0.0031	0.040
1080	1006.07	994.90	20:45 hr	0.0023	0.068
1082	1003.60	994.48	20:45 hr	0.0021	0.075
1084	1002.47	993.93	20:45 hr	0.0038	0.057
1086	1001.11	993.44	20:30 hr	0.0013	0.141
1088	1002.50	994.13	20:00 hr	0.0495	0.149
1090	999.49	990.60	20:15 hr	0.0024	0.038
1092	1000.42	992.13	20:00 hr	0.0034	0.030
1094	996.92	988.09	20:30 hr	0.0017	0.054
1096	996.22	987.83	20:30 hr	0.0014	0.058
1098	995.03	986.88	20:45 hr	0.0022	0.060
1100	995.94	988.02	20:00 hr	0.0012	0.020
1102	992.78	984.61	20:45 hr	0.0016	0.048
1104	992.47	982.74	20:45 hr	0.0034	0.286
1106	994.86	986.77	20:15 hr	0.0019	0.037
1108	996.51	988.53	20:15 hr	0.0024	0.028
1110	994.00	986.04	20:15 hr	0.0022	0.056
1112	994.87	985.64	20:30 hr	0.0014	0.061
1114	995.24	985.33	20:30 hr	0.0029	0.071
1116	997.40	984.20	20:45 hr	0.0026	0.048
1118	1000.05	981.79	20:45 hr	0.0011	0.301
1120	1018.30	1010.49	20:00 hr	0.0044	0.029
1122	1010.78	1000.51	20:15 hr	0.0115	0.053
1124	1003.79	996.04	20:30 hr	0.0020	0.056

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
1126	1001.57	992.32	20:30 hr	0.0038	0.145
1128	997.77	989.27	45:00 hr	0.0085	0.157
1130	994.86	986.88	20:45 hr	0.0347	0.168
1132	993.61	985.14	21:00 hr	0.0148	0.183
1134	991.66	983.01	45:00 hr	0.0109	0.272
1136	998.05	982.09	20:45 hr	0.0017	0.290
1138	1001.47	981.29	20:45 hr	0.0105	0.310
1140	999.43	980.96	20:45 hr	0.0104	0.243
1142	989.74	979.18	20:45 hr	0.0027	0.246
1144	989.07	978.67	20:45 hr	0.0011	0.280
1146	1000.83	987.89	20:45 hr	0.0024	0.142
1148	997.83	986.90	20:45 hr	0.0044	0.123
1150	992.30	984.74	20:45 hr	0.0027	0.126
1152	991.88	984.01	20:45 hr	0.0027	0.157
1154	993.07	982.98	20:45 hr	0.0034	0.162
1156	990.88	982.38	20:45 hr	0.0016	0.099
1158	989.75	980.35	20:45 hr	0.0004	0.097
1160	998.47	989.52	20:15 hr	0.0020	0.023
1162	997.78	988.33	20:15 hr	0.0030	0.043
1164	995.50	986.81	20:30 hr	0.0042	0.057
1166	993.45	985.22	20:45 hr	0.0033	0.062
1168	992.53	984.26	20:45 hr	0.0017	0.063
1170	990.41	982.85	20:45 hr	0.0033	0.148
1172	998.11	989.03	20:15 hr	0.0027	0.033
1174	997.18	987.92	20:15 hr	0.0038	0.051
1176	996.16	986.92	20:30 hr	0.0033	0.056
1178	995.32	985.60	20:45 hr	0.0017	0.057
1180	994.85	984.77	20:45 hr	0.0012	0.111
1182	997.54	987.66	20:45 hr	0.0007	0.060
1184	996.77	986.98	20:45 hr	0.0028	0.075
1186	998.54	988.13	20:30 hr	0.0025	0.070
1188	996.80	989.43	20:15 hr	0.0046	0.061
1190	998.07	990.61	20:00 hr	0.0020	0.040
1192	998.43	990.93	20:00 hr	0.0012	0.025
1194	997.07	988.47	20:15 hr	0.0025	0.043
1196	998.53	990.02	20:15 hr	0.0020	0.025
1198	994.97	987.33	20:30 hr	0.0033	0.055
1200	993.48	986.22	20:45 hr	0.0026	0.070
1202	994.13	985.68	20:45 hr	0.0026	0.078
1204	991.42	981.76	20:45 hr	0.0014	0.099
1206	990.17	980.16	20:45 hr	0.0003	0.159
1208	990.76	982.42	20:45 hr	0.0024	0.152
1210	992.54	984.07	21:00 hr	0.0028	0.098
1212	994.72	984.92	21:00 hr	0.0010	0.082
1214	991.07	980.94	20:45 hr	0.0015	0.097
1216	989.03	979.74	20:45 hr	0.0025	0.164
1218	987.20	978.12	20:45 hr	0.0025	0.196
1220	986.73	977.79	20:45 hr	0.0014	0.148
1222	999.42	987.55	20:00 hr	0.0052	0.048
1224	993.98	984.09	20:45 hr	0.0052	0.088
1226	991.59	981.66	20:45 hr	0.0034	0.094
1372	1020.32	1010.87	07:15 hr	0.0042	0.065
1374	1016.52	1007.57	21:00 hr	0.0022	0.233
1376	1020.53	1015.38	07:15 hr	0.0051	0.035
1378	1021.18	1014.77	07:15 hr	0.0066	0.039
1388	974.45	965.88	07:00 hr	0.0000	0.013
1390	974.20	967.84	07:00 hr	0.0004	0.011
1392	975.15	964.93	07:00 hr	0.0000	0.013
1394	977.04	964.21	07:00 hr	0.0000	0.013
1506	995.25	991.07	20:15 hr	0.0104	0.072
1708	1014.00	1010.26	20:00 hr	0.0099	0.061
1710	1015.00	1011.03	20:00 hr	0.0039	0.034
1712	1012.00	1006.63	20:15 hr	0.0047	0.071
1714	1008.50	1003.72	20:30 hr	0.0097	0.087
1716	1008.50	1001.32	20:30 hr	0.0067	0.097
1718	1008.50	1000.02	20:45 hr	0.0069	0.122
1720	939.00	928.91	20:15 hr	0.0030	0.046
1722	944.50	931.15	20:00 hr	0.0038	0.030

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
1724	937.50	928.84	20:15 hr	0.0000	0.035
1940	935.63	926.92	20:15 hr	0.0026	0.052
1942	933.82	927.45	20:15 hr	0.0042	0.045
1944	936.81	929.84	20:00 hr	0.0017	0.018
1946	932.51	925.00	20:30 hr	0.0035	0.061
1948	932.09	923.90	20:45 hr	0.0035	0.097
1950	931.26	924.71	20:15 hr	0.0049	0.046
1952	931.34	922.76	20:45 hr	0.0035	0.082
1954	930.53	923.56	20:00 hr	0.0047	0.041
1956	931.52	920.21	20:45 hr	0.0029	0.080
1958	931.07	918.83	20:45 hr	0.0023	0.085
1960	930.31	916.75	20:45 hr	0.0024	0.115
1962	926.70	916.37	20:45 hr	0.0015	0.146
1964	930.00	915.85	20:45 hr	0.0024	0.126
2120	972.00	969.02	21:00 hr	0.0000	12.115
2122	964.27	964.27	01:15 hr	0.0048	7.113
2124	969.50	968.61	21:00 hr	0.0025	12.470
2126	966.38	966.38	01:15 hr	0.0004	9.985
2128	968.00	968.00	20:45 hr	0.0533	13.850
2130	963.16	963.16	01:15 hr	0.0113	7.678
2132	979.70	970.67	21:00 hr	0.0016	3.060
2134	980.90	970.67	21:00 hr	0.0013	2.870
2136	984.70	971.11	21:00 hr	0.0012	2.633
2138	982.63	971.11	21:00 hr	0.0023	2.373
2140	988.00	971.59	21:00 hr	0.0016	2.173
2142	982.97	971.59	21:00 hr	0.0006	1.913
2144	969.47	968.35	07:00 hr	0.0117	0.054
2148	1006.34	993.12	19:30 hr	0.0000	1.778
2150	1007.18	993.17	19:30 hr	0.0000	1.366
2300	978.40	970.72	20:15 hr	0.0000	0.023
2302	978.40	970.23	20:15 hr	0.0004	0.026
2376	987.80	980.13	20:30 hr	0.0041	0.059
2378	984.10	973.56	20:30 hr	0.0043	0.055
2380	1036.73	1024.85	21:00 hr	0.0016	0.086
2382	1033.38	1026.84	20:15 hr	0.0056	0.041
3068	935.50	927.75	20:30 hr	0.0033	0.053
3070	931.92	927.21	20:30 hr	0.0005	0.051
3072	939.70	932.55	20:15 hr	0.0070	0.045
3074	948.40	941.35	20:00 hr	0.0035	0.025
3076	940.40	932.27	20:15 hr	0.0024	0.030
3078	945.80	938.76	20:15 hr	0.0023	0.021
3080	938.40	930.77	20:15 hr	0.0021	0.035
3082	931.40	924.47	20:30 hr	0.0023	0.066
3084	931.60	924.21	20:30 hr	0.0027	0.073
3086	932.40	923.16	20:45 hr	0.0017	0.071
3088	953.40	945.25	20:15 hr	0.0071	0.113
3090	957.70	950.69	20:00 hr	0.0225	0.069
3092	951.30	944.23	20:30 hr	0.0035	0.082
3094	948.20	940.29	20:45 hr	0.0039	0.088
3096	944.80	936.14	45:00 hr	0.0017	0.084
3098	943.20	934.60	20:45 hr	0.0025	0.076
3100	939.10	927.91	45:00 hr	0.0013	0.106
3102	939.40	927.14	20:45 hr	0.0023	0.123
3104	941.80	925.73	20:45 hr	0.0018	0.107
3106	931.90	922.98	20:45 hr	0.0008	0.158
3108	931.20	922.64	20:45 hr	0.0008	0.127
3110	941.20	925.23	20:45 hr	0.0016	0.123
3112	930.02	921.36	20:45 hr	0.0010	0.124
3114	936.90	929.17	20:45 hr	0.0024	0.109
3116	936.20	929.73	20:45 hr	0.0064	0.111
3118	936.50	928.69	20:45 hr	0.0011	0.111
3120	935.90	928.26	20:45 hr	0.0032	0.121
3122	934.00	926.52	20:45 hr	0.0056	0.132
3124	931.30	924.78	20:45 hr	0.0036	0.143
3126	931.30	924.54	20:45 hr	0.0011	0.108
3128	931.60	923.52	20:45 hr	0.0035	0.150
3130	924.92	922.41	20:45 hr	0.0034	0.132
3132	947.10	938.80	20:00 hr	0.0059	0.050

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
3134	945.90	939.24	20:00 hr	0.0027	0.036
3136	942.50	935.51	20:15 hr	0.0059	0.062
3138	940.90	934.03	20:30 hr	0.0033	0.070
3140	939.60	932.63	20:45 hr	0.0055	0.079
3142	934.50	927.62	20:15 hr	0.0025	0.050
3144	934.90	928.24	20:15 hr	0.0039	0.042
3146	934.20	927.10	20:30 hr	0.0052	0.065
3148	932.90	925.04	20:45 hr	0.0031	0.116
3150	930.90	923.93	20:00 hr	0.0043	0.035
3152	929.90	922.38	20:45 hr	0.0019	0.122
3154	933.10	924.53	20:45 hr	0.0021	0.124
3156	930.40	923.47	20:45 hr	0.0036	0.125
3158	929.60	921.71	20:45 hr	0.0015	0.127
3160	926.98	920.91	20:45 hr	0.0011	0.123
3162	934.10	927.45	20:45 hr	0.0027	0.080
3164	934.80	928.21	20:30 hr	0.0030	0.083
3166	933.60	926.45	20:45 hr	0.0029	0.091
3168	933.20	925.64	20:45 hr	0.0027	0.099
3170	937.10	930.51	20:15 hr	0.0050	0.049
3172	943.20	937.78	20:00 hr	0.0027	0.022
3174	935.20	928.69	20:15 hr	0.0023	0.059
3176	935.70	929.16	20:15 hr	0.0022	0.049
3178	936.50	929.86	20:00 hr	0.0034	0.034
3400	922.50	907.27	45:00 hr	0.0034	0.366
3402	922.20	906.25	45:00 hr	0.0031	0.421
3404	929.00	922.26	20:00 hr	0.0027	0.038
3406	928.50	921.46	20:15 hr	0.0042	0.050
3408	928.30	920.97	20:15 hr	0.0044	0.068
3410	928.80	915.28	20:45 hr	0.0051	0.154
3412	930.00	922.65	20:00 hr	0.0033	0.040
3414	929.20	922.24	20:15 hr	0.0028	0.034
3416	922.80	916.07	20:30 hr	0.0033	0.062
3418	923.60	905.26	21:00 hr	0.0045	0.408
3420	923.20	904.79	45:00 hr	0.0023	0.377
3422	923.10	904.51	45:00 hr	0.0027	0.402
3424	922.70	903.71	45:00 hr	0.0034	0.451
3426	920.70	913.64	20:15 hr	0.0013	0.040
3428	920.80	914.14	20:15 hr	0.0028	0.036
3430	920.60	913.37	20:15 hr	0.0011	0.049
3432	920.10	903.01	45:00 hr	0.0023	0.480
3434	917.20	901.54	45:00 hr	0.0019	0.453
3436	914.70	901.00	45:00 hr	0.0034	0.459
3438	918.30	902.07	45:00 hr	0.0018	0.471
3440	918.90	902.41	45:00 hr	0.0026	0.448
3442	921.40	903.36	45:00 hr	0.0022	0.472
3444	936.76	923.80	44:45 hr	0.0042	0.189
3446	927.33	919.66	44:45 hr	0.0103	0.197
3448	923.20	916.04	44:45 hr	0.0030	0.251
3450	926.13	917.00	20:15 hr	0.0024	0.053
3452	935.11	923.87	20:00 hr	0.0096	0.039
3454	926.07	915.36	44:45 hr	0.0046	0.244
3456	924.66	913.50	44:45 hr	0.0038	0.265
3458	924.40	913.21	44:45 hr	0.0054	0.307
3460	922.36	911.78	45:00 hr	0.0037	0.284
3462	922.65	911.72	44:45 hr	0.0042	0.334
3464	926.58	917.51	20:45 hr	0.0058	0.079
3466	927.84	921.29	20:15 hr	0.0077	0.047
3468	924.92	920.96	20:45 hr	0.0025	0.060
3470	922.24	910.25	44:45 hr	0.0074	0.352
3472	922.55	908.30	45:00 hr	0.0042	0.370
3474	925.33	917.39	20:45 hr	0.0043	0.129
3476	923.15	915.31	20:45 hr	0.0067	0.055
3478	922.93	909.34	45:00 hr	0.0047	0.367
3480	923.28	913.96	20:45 hr	0.0077	0.115
3482	927.46	920.24	20:45 hr	0.0019	0.114
3484	929.10	919.40	20:45 hr	0.0020	0.151
3486	929.50	920.01	20:45 hr	0.0017	0.149
3488	927.80	919.02	20:45 hr	0.0029	0.168

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
3490	925.70	918.40	20:45 hr	0.0049	0.137
3492	923.30	916.35	20:45 hr	0.0069	0.140
3494	928.80	920.67	20:45 hr	0.0012	0.137
3496	926.02	921.17	20:45 hr	0.0007	0.148
3498	928.10	920.24	20:45 hr	0.0012	0.145
3500	926.60	918.92	20:45 hr	0.0038	0.120
3502	927.60	919.74	20:45 hr	0.0023	0.165
3504	929.00	922.03	20:15 hr	0.0029	0.023
3506	922.40	915.24	20:45 hr	0.0044	0.098
3508	917.80	909.36	20:45 hr	0.0036	0.137
3510	914.60	898.15	45:00 hr	0.0026	0.277
3512	927.70	920.44	20:15 hr	0.0024	0.042
3514	928.60	921.63	20:00 hr	0.0036	0.034
3516	926.90	919.68	20:15 hr	0.0029	0.049
3518	924.60	917.49	20:30 hr	0.0047	0.056
3520	921.00	913.92	20:45 hr	0.0032	0.067
3522	920.40	913.27	20:45 hr	0.0025	0.155
3524	918.60	911.59	20:45 hr	0.0039	0.137
3526	915.20	900.26	45:00 hr	0.0013	0.513
3528	916.40	909.45	20:45 hr	0.0021	0.142
3530	913.40	899.94	45:00 hr	0.0010	0.491
3532	913.80	900.72	20:15 hr	0.0028	0.061
3534	909.40	902.64	20:15 hr	0.0119	0.056
3536	910.00	893.61	45:00 hr	0.0113	1.114
3538	913.60	899.50	45:00 hr	0.0025	0.385
3540	942.10	925.97	44:45 hr	0.0038	0.266
3542	942.70	926.38	44:45 hr	0.0024	0.207
3544	944.70	927.11	44:45 hr	0.0007	0.214
3546	947.12	927.54	44:45 hr	0.0011	0.192
3548	937.68	933.49	20:45 hr	0.0010	0.077
3550	942.50	924.68	44:45 hr	0.0023	0.191
3552	934.30	926.17	20:30 hr	0.0015	0.061
3554	929.80	922.46	20:45 hr	0.0020	0.058
3556	938.70	929.87	20:45 hr	0.0026	0.191
3558	938.75	930.65	20:45 hr	0.0039	0.185
3560	945.20	937.26	20:15 hr	0.0070	0.035
3562	937.50	929.60	44:45 hr	0.0039	0.187
3564	943.20	927.78	44:45 hr	0.0026	0.398
3566	937.70	928.05	44:45 hr	0.0087	0.233
3602	1015.18	1008.51	20:15 hr	0.0133	0.109
3604	1018.82	1009.37	20:15 hr	0.0281	0.079
3606	1014.46	1007.89	20:15 hr	0.0077	0.090
3608	1007.62	996.26	20:45 hr	0.0100	0.162
3610	1007.62	994.63	20:45 hr	0.0064	0.164
3612	1007.00	991.36	20:45 hr	0.0037	0.168
3614	1007.00	991.13	21:00 hr	0.0000	0.618
3616	1000.99	991.20	45:00 hr	0.0000	0.544
3618	1005.80	990.91	21:00 hr	0.0005	0.633
3954	992.58	985.67	20:00 hr	0.0031	0.023
3956	996.10	985.27	21:00 hr	0.0000	0.443
3958	979.50	958.98	21:00 hr	0.0007	0.712
3960	981.47	967.67	44:45 hr	0.0017	0.164
3962	963.48	950.43	20:15 hr	0.0031	0.020
3964	965.20	941.70	21:00 hr	0.0000	0.691
3966	951.25	947.66	20:15 hr	0.0004	0.012
3968	957.20	938.02	21:00 hr	0.0000	0.689
3970	946.30	942.90	44:45 hr	0.0000	0.250
3972	953.16	934.38	21:00 hr	0.0003	0.715
3974	974.80	961.62	21:00 hr	0.0000	0.525
3976	979.02	962.41	07:15 hr	0.0147	0.060
3978	973.20	964.10	44:15 hr	0.0000	0.878
3980	973.30	963.14	44:15 hr	0.0000	0.462
3982	955.07	945.44	44:30 hr	0.0000	0.291
3984	961.28	952.08	44:30 hr	0.0098	0.268
3986	953.86	944.26	44:30 hr	0.0006	0.255
3988	1046.27	1029.31	20:15 hr	0.0029	0.038
3990	1040.70	1028.91	21:00 hr	0.0000	0.195
3992	1049.39	1029.77	21:00 hr	0.0080	0.314

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
3994	1034.40	1022.76	21:00 hr	0.0022	0.327
3996	1042.41	1022.93	20:00 hr	0.0117	0.074
3998	1033.20	1021.47	21:00 hr	0.0022	0.341
4000	1040.16	1021.69	20:00 hr	0.0192	0.094
4002	1029.32	1019.07	20:00 hr	0.0011	0.025
4004	1038.50	1018.92	21:00 hr	0.0000	0.204
4006	1034.30	1019.36	20:15 hr	0.0028	0.038
4008	1037.25	1015.49	21:00 hr	0.0000	0.434
4010	1038.70	1016.55	21:00 hr	0.0000	0.424
4012	1037.20	1017.23	21:00 hr	0.0000	0.334
4014	1043.05	1021.99	20:00 hr	0.0006	0.019
4016	1038.80	1020.20	32:00 hr	0.0000	0.159
4018	1030.78	1025.42	20:15 hr	0.0004	0.015
4020	1038.55	1024.95	20:00 hr	0.0017	0.030
4022	1039.80	1024.75	32:00 hr	0.0000	0.169
4024	1042.50	1025.19	00:00 hr	0.0000	0.000
4026	1039.30	1026.75	08:00 hr	0.0003	0.209
4028	1040.78	1026.93	20:00 hr	0.0022	0.034
4030	1036.00	1020.31	21:00 hr	0.0046	0.335
4032	1039.91	1027.69	32:00 hr	0.0004	0.168
4034	958.04	947.21	45:00 hr	0.0004	0.419
4036	961.30	948.65	45:00 hr	0.0000	0.571
4038	996.30	982.30	21:00 hr	0.0034	0.302
4040	998.89	982.78	21:00 hr	0.0007	0.208
4042	984.50	973.35	21:00 hr	0.0022	0.617
4044	985.50	974.45	21:00 hr	0.0000	0.846
4046	978.00	971.51	21:00 hr	0.0037	1.287
4048	976.30	970.49	21:00 hr	0.0000	0.651
4050	976.30	969.89	21:00 hr	0.0003	0.887
4070	986.70	974.12	20:45 hr	0.0737	0.315
4072	1039.60	1015.72	20:30 hr	0.0115	0.207
4074	1034.30	1015.30	20:45 hr	0.0165	0.156
4076	1020.70	1012.09	20:45 hr	0.0236	0.124
4078	1006.80	998.32	20:45 hr	0.0182	0.142
4080	998.20	984.25	20:45 hr	0.0108	0.194
4082	996.40	981.25	21:00 hr	0.0031	0.258
4084	994.20	979.50	20:45 hr	0.0040	0.302
4086	996.50	979.83	21:00 hr	0.0010	0.168
4088	991.40	972.09	21:00 hr	0.0000	1.824
4090	992.00	971.90	21:00 hr	0.0006	1.837
4092	992.27	977.31	20:00 hr	0.0026	0.036
4094	992.10	972.39	21:00 hr	0.0014	0.918
4096	992.00	972.39	21:00 hr	0.0008	0.491
4098	996.76	973.03	20:45 hr	0.0033	0.332
4100	988.40	973.38	20:45 hr	0.0000	0.356
4102	996.78	973.59	20:00 hr	0.0023	0.034
4104	992.45	973.44	20:00 hr	0.0106	0.070
4106	987.00	974.58	20:45 hr	0.0010	0.216
4108	1044.24	1016.23	20:30 hr	0.0030	0.123
4110	996.07	982.67	21:00 hr	0.0010	0.227
4112	994.67	980.83	21:00 hr	0.0046	0.233
4114	993.59	978.94	20:45 hr	0.0000	0.243
4116	992.46	979.16	20:00 hr	0.0199	0.105
4118	987.81	978.96	07:00 hr	0.0113	0.092
4120	984.84	972.31	20:45 hr	0.0000	0.410
4122	984.80	973.37	20:45 hr	0.0070	0.228
4124	983.25	972.31	20:45 hr	0.0185	0.161
4126	986.52	969.54	44:45 hr	0.0070	0.342
4128	982.50	969.60	07:00 hr	0.0026	0.038
4130	986.98	967.05	20:45 hr	0.0005	0.296
4132	984.22	967.32	07:15 hr	0.0032	0.038
4134	982.71	965.50	21:00 hr	0.0000	0.344
4136	983.54	964.38	21:00 hr	0.0012	0.563
4138	1013.30	992.00	31:30 hr	0.0023	0.324
4140	1007.50	993.38	31:45 hr	0.0020	0.224
4142	1003.70	989.98	31:45 hr	0.0000	0.278
4144	1005.54	990.63	07:00 hr	0.0147	0.083
4146	996.67	990.47	07:00 hr	0.0201	0.096

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
4148	995.30	972.37	31:45 hr	0.0000	0.386
4150	995.45	976.15	07:15 hr	0.0068	0.034
4152	991.74	972.99	07:00 hr	0.0177	0.090
4154	990.40	970.79	32:00 hr	0.0018	0.265
4156	991.90	966.91	32:00 hr	0.0008	0.509
4158	989.55	967.11	07:00 hr	0.0269	0.110
4160	992.38	970.63	20:00 hr	0.0282	0.067
4162	988.00	966.38	32:15 hr	0.0000	0.373
4164	996.33	970.01	20:00 hr	0.0287	0.067
4166	992.52	966.44	07:15 hr	0.0186	0.093
4168	985.80	965.08	32:15 hr	0.0000	0.472
4170	999.91	965.73	07:15 hr	0.0144	0.082
4172	986.11	969.30	20:00 hr	0.0215	0.059
4174	967.40	945.38	21:00 hr	0.0000	0.692
4176	963.25	950.72	20:15 hr	0.0297	0.078
4178	970.80	949.03	21:00 hr	0.0000	0.687
4180	968.30	957.06	21:00 hr	0.0000	3.475
4182	966.20	957.06	21:00 hr	0.0000	3.411
4184	982.53	969.89	21:00 hr	0.0015	0.207
4186	982.40	970.49	21:00 hr	0.0012	0.341
4188	982.50	974.68	20:15 hr	0.0050	0.026
4190	982.55	975.72	44:45 hr	0.0000	0.152
4192	990.20	977.31	21:00 hr	0.0046	0.499
4194	994.00	983.23	21:00 hr	0.0005	0.464
4196	989.26	983.69	20:00 hr	0.0034	0.042
4198	997.70	988.22	21:00 hr	0.0003	0.480
4200	997.88	988.73	20:15 hr	0.0049	0.028
4202	1000.50	989.54	21:00 hr	0.0000	0.636
4204	999.39	989.73	20:15 hr	0.0053	0.033
4206	1010.17	992.76	20:45 hr	0.0000	0.314
4208	1002.50	992.83	07:15 hr	0.0062	0.050
4210	1020.00	1000.35	20:45 hr	0.0032	0.305
4212	1019.41	1000.51	07:15 hr	0.0082	0.058
4214	1026.15	1010.23	20:45 hr	0.0027	0.224
4216	1022.04	1014.70	20:45 hr	0.0028	0.256
4218	1025.44	1010.42	20:15 hr	0.0005	0.073
4220	1022.50	1011.57	20:15 hr	0.0083	0.060
4222	1030.70	1015.59	20:15 hr	0.0101	0.099
4224	1023.93	1016.09	20:15 hr	0.0161	0.086
4226	950.60	932.06	45:00 hr	0.0012	0.831
4228	1008.59	998.04	20:00 hr	0.0006	0.038
4230	1008.59	998.40	20:00 hr	0.0059	0.221
4232	1008.52	992.84	20:15 hr	0.0006	0.043
4234	1008.52	993.05	20:00 hr	0.0013	0.032
4236	999.89	987.97	20:30 hr	0.0005	0.059
4238	998.93	988.26	20:15 hr	0.0000	0.042
4240	996.41	983.56	20:30 hr	0.0007	0.059
4242	996.56	983.64	20:00 hr	0.0011	0.024
4244	990.85	978.03	20:45 hr	0.0003	0.131
4246	989.51	978.38	20:45 hr	0.0008	0.093
4248	988.85	977.00	20:45 hr	0.0003	0.102
4250	987.18	977.14	20:00 hr	0.0011	0.021
4252	983.56	972.90	20:45 hr	0.0000	0.099
4254	980.84	973.05	20:00 hr	0.0024	0.031
4256	979.87	970.09	20:45 hr	0.0000	0.188
4258	981.21	970.22	20:45 hr	0.0009	0.125
4260	979.14	969.09	44:45 hr	0.0000	0.192
4262	979.00	969.13	20:00 hr	0.0042	0.046
4264	974.31	964.11	44:15 hr	0.0000	0.313
4266	975.36	964.28	20:15 hr	0.0024	0.027
4268	978.50	963.14	44:15 hr	0.0012	0.062
4270	979.95	962.09	44:15 hr	0.0184	0.431
4272	986.15	962.09	44:15 hr	0.0009	0.311
4274	981.37	961.16	44:15 hr	0.0290	0.456
4276	972.04	960.26	44:15 hr	0.0017	0.427
4278	968.80	959.25	44:30 hr	0.0031	0.272
4280	956.63	945.44	44:30 hr	0.0048	0.091
4282	953.94	945.55	07:15 hr	0.0062	0.047

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
4284	947.18	934.17	44:30 hr	0.0000	0.282
4286	944.78	934.39	20:15 hr	0.0019	0.026
4288	942.25	934.46	20:00 hr	0.0014	0.023
4290	942.58	928.41	44:30 hr	0.0000	0.299
4292	942.21	928.41	44:30 hr	0.0018	0.039
4294	942.82	928.41	44:30 hr	0.0016	0.039
4296	940.81	925.88	44:30 hr	0.0000	0.382
4298	941.71	926.40	21:00 hr	0.0004	0.682
4300	942.50	925.88	44:30 hr	0.0008	0.032
4302	935.58	922.70	44:30 hr	0.0115	0.341
4304	927.30	922.79	20:15 hr	0.0022	0.032
4306	928.60	910.29	44:30 hr	0.0034	0.460
4308	927.10	908.98	21:00 hr	0.0007	0.946
4312	910.50	904.53	21:15 hr	0.0110	0.782
4314	916.00	906.00	21:00 hr	0.0066	1.133
4316	922.20	907.91	21:00 hr	0.0124	0.888
4318	925.00	908.40	21:00 hr	0.0046	1.206
4320	925.80	915.25	21:15 hr	0.0013	0.559
4322	931.10	917.07	21:15 hr	0.0011	0.712
4324	927.80	918.40	45:00 hr	0.0017	0.929
4326	932.20	922.38	45:00 hr	0.0014	0.917
4328	934.60	923.07	45:00 hr	0.0007	0.852
4330	938.90	926.39	45:00 hr	0.0000	0.783
4332	943.23	927.27	20:15 hr	0.0078	0.044
4334	939.70	928.44	45:00 hr	0.0000	0.833
4336	944.70	930.04	45:00 hr	0.0000	0.810
4338	942.50	930.52	20:00 hr	0.0027	0.037
4340	951.80	934.92	45:00 hr	0.0000	0.414
4342	943.44	936.79	20:00 hr	0.0003	0.008
4344	951.50	947.79	20:45 hr	0.0012	0.094
4346	953.19	949.02	20:15 hr	0.0015	0.031
4348	957.71	949.21	20:00 hr	0.0190	0.098
4350	963.80	950.01	44:45 hr	0.0066	0.554
4352	954.97	950.50	20:00 hr	0.0020	0.038
4354	968.10	951.38	44:45 hr	0.0005	0.550
4356	958.54	951.79	20:00 hr	0.0169	0.084
4358	970.90	952.88	44:45 hr	0.0030	0.517
4360	961.26	953.05	20:00 hr	0.0224	0.101
4362	971.70	959.50	44:45 hr	0.0000	0.558
4364	962.50	960.55	20:00 hr	0.0193	0.066
4366	967.22	960.55	07:15 hr	0.0111	0.071
4368	973.40	960.53	21:00 hr	0.0000	0.548
4370	967.98	961.16	20:00 hr	0.0064	0.035
4372	970.19	961.36	07:00 hr	0.0003	0.081
4374	982.20	965.30	20:45 hr	0.0055	0.223
4376	981.26	963.46	00:00 hr	0.0000	0.000
4378	982.97	963.61	07:15 hr	0.0167	0.063
4380	940.60	926.43	21:00 hr	0.0033	0.685
4382	938.21	928.80	20:45 hr	0.0095	0.230
4384	964.68	955.42	20:15 hr	0.0045	0.039
4386	962.25	956.40	20:00 hr	0.0022	0.027
4388	960.26	949.85	20:30 hr	0.0094	0.067
4390	953.79	945.71	20:45 hr	0.0065	0.066
4392	954.57	948.03	20:15 hr	0.0029	0.038
4394	955.41	949.42	20:00 hr	0.0022	0.024
4396	952.17	946.17	20:30 hr	0.0057	0.050
4398	947.92	940.30	20:45 hr	0.0053	0.085
4400	964.25	956.18	20:15 hr	0.0054	0.083
4402	963.93	956.95	20:00 hr	0.0055	0.049
4404	962.38	955.72	20:30 hr	0.0029	0.062
4406	960.39	954.49	20:45 hr	0.0016	0.053
4408	958.30	951.48	20:45 hr	0.0025	0.065
4410	953.13	947.12	20:45 hr	0.0027	0.068
4412	951.66	945.64	20:45 hr	0.0025	0.070
4414	949.13	942.98	20:45 hr	0.0055	0.074
4416	942.93	934.73	20:45 hr	0.0061	0.117
4418	953.08	946.70	20:15 hr	0.0094	0.058
4420	961.73	955.45	20:00 hr	0.0074	0.037

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
4422	947.49	941.39	20:30 hr	0.0086	0.115
4424	954.44	940.26	20:45 hr	0.0038	0.113
4426	955.13	939.95	20:45 hr	0.0009	0.076
4428	955.84	943.09	20:15 hr	0.0011	0.012
4430	945.00	938.86	20:15 hr	0.0049	0.060
4432	951.82	945.63	20:00 hr	0.0032	0.024
4434	946.91	940.42	20:15 hr	0.0047	0.038
4436	942.27	935.89	20:30 hr	0.0081	0.098
4438	947.44	934.25	20:45 hr	0.0054	0.152
4440	945.28	933.51	21:00 hr	0.0024	0.167
4442	944.40	933.18	21:00 hr	0.0021	0.165
4444	943.01	932.51	21:00 hr	0.0070	0.242
4446	949.76	943.04	20:15 hr	0.0226	0.091
4448	952.52	947.32	20:00 hr	0.0196	0.062
4450	946.14	931.17	21:00 hr	0.0020	0.246
4452	958.07	948.69	20:15 hr	0.0042	0.045
4454	956.54	950.48	20:00 hr	0.0024	0.027
4456	951.64	945.71	20:30 hr	0.0037	0.055
4458	949.52	944.56	20:30 hr	0.0024	0.047
4460	944.40	930.78	20:45 hr	0.0033	0.256
4462	942.70	930.35	20:45 hr	0.0115	0.250
4464	1037.35	1029.35	20:15 hr	0.0029	0.036
4466	1036.61	1028.44	20:30 hr	0.0031	0.049
4468	1038.18	1030.39	20:00 hr	0.0029	0.023
4470	1036.05	1028.41	20:15 hr	0.0030	0.037
4472	1034.42	1026.67	20:30 hr	0.0030	0.055
4474	1032.95	1025.29	20:30 hr	0.0046	0.062
4476	1031.04	1022.66	20:45 hr	0.0047	0.088
4478	1032.16	1024.46	20:15 hr	0.0028	0.040
4480	1030.94	1022.79	20:30 hr	0.0024	0.042
4482	1031.05	1025.69	20:00 hr	0.0013	0.020
4484	1028.27	1019.64	20:45 hr	0.0203	0.147
4486	1027.58	1020.76	20:30 hr	0.0031	0.056
4488	1025.99	1018.95	20:30 hr	0.0024	0.078
4490	1028.86	1021.77	20:15 hr	0.0057	0.054
4492	1030.52	1022.67	20:00 hr	0.0037	0.029
4494	1029.63	1020.93	20:15 hr	0.0045	0.054
4496	1028.48	1020.24	20:45 hr	0.0038	0.084
4498	1029.83	1022.60	20:45 hr	0.0087	0.066
4500	1033.05	1025.08	20:45 hr	0.0083	0.072
4502	1036.73	1027.89	20:30 hr	0.0030	0.054
4504	1037.88	1029.03	20:30 hr	0.0021	0.046
4506	1038.77	1030.23	20:15 hr	0.0030	0.039
4508	1038.98	1031.97	20:00 hr	0.0051	0.029
4510	1023.78	1012.32	20:45 hr	0.0044	0.098
4512	1023.13	1010.34	20:45 hr	0.0015	0.258
4514	1009.25	993.79	44:45 hr	0.0007	0.235
4516	1009.07	993.48	21:00 hr	0.0005	0.363
4518	1035.10	1022.92	20:45 hr	0.0012	0.146
4520	1025.72	1023.13	20:45 hr	0.0011	0.139
4522	1032.91	1021.90	20:45 hr	0.0020	0.103
4524	1027.65	1017.48	44:45 hr	0.0018	0.096
4526	1022.69	1011.13	44:45 hr	0.0006	0.188
4528	1020.02	1011.60	45:00 hr	0.0006	0.085
4530	1025.19	1009.43	44:45 hr	0.0043	0.241
4532	1020.96	1008.21	44:45 hr	0.0004	0.251
4534	1023.16	1008.83	20:15 hr	0.0042	0.027
4536	1017.56	1007.06	44:45 hr	0.0021	0.260
4538	1014.62	1005.81	45:00 hr	0.0011	0.243
4540	1011.41	1004.14	21:00 hr	0.0011	0.166
4542	1007.94	997.70	21:00 hr	0.0003	0.197
4548	1008.07	993.29	19:30 hr	0.0004	0.884
4550	1007.73	998.03	20:45 hr	0.0008	0.062
4552	1010.19	1002.01	20:45 hr	0.0023	0.068
4554	1024.18	1014.52	20:15 hr	0.0026	0.037
4556	1023.46	1016.45	20:00 hr	0.0044	0.036
4558	1018.20	1009.82	20:30 hr	0.0020	0.055
4560	1014.55	1006.70	20:45 hr	0.0024	0.070

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
4562	1011.17	1004.39	20:00 hr	0.0025	0.024
4564	1020.13	1013.30	20:00 hr	0.0042	0.030
4566	1014.13	1007.86	20:15 hr	0.0032	0.027
4568	1013.06	1005.19	20:45 hr	0.0026	0.078
4570	969.94	967.62	07:00 hr	0.0018	0.051
4572	975.50	965.70	07:00 hr	0.0028	0.051
4574	972.89	967.20	07:00 hr	0.0132	0.055
4580	977.50	970.21	21:00 hr	0.0004	3.499
4582	980.50	970.05	21:00 hr	0.0018	3.716
4584	975.00	969.42	21:00 hr	0.0050	11.416
4588	1017.20	1003.10	31:30 hr	0.0092	0.209
4590	1017.60	1004.32	31:15 hr	0.0629	0.381
4592	1023.30	1005.34	20:15 hr	0.0047	21.007
4596	993.20	984.68	20:45 hr	0.0178	0.133
4598	1000.00	990.53	20:30 hr	0.0242	0.136
4600	1004.00	995.61	20:15 hr	0.0053	0.040
4602	1001.60	994.23	20:15 hr	0.0171	0.066
4604	999.70	991.56	20:30 hr	0.0093	0.095
4606	997.40	990.23	20:30 hr	0.0093	0.093
4608	996.30	987.48	20:45 hr	0.0067	0.154
4610	1000.50	993.35	20:15 hr	0.0098	0.050
4612	1002.70	996.27	20:15 hr	0.0026	0.022
4614	992.60	984.82	20:45 hr	0.0046	0.179
4616	993.00	985.15	20:45 hr	0.0069	0.182
4618	1000.80	991.95	20:15 hr	0.0072	0.085
4620	1002.40	995.12	20:15 hr	0.0177	0.061
4622	994.00	986.12	20:45 hr	0.0144	0.167
4624	996.60	988.68	20:00 hr	0.0089	0.042
4626	998.40	990.54	20:30 hr	0.0124	0.114
4628	1004.00	996.33	20:00 hr	0.0059	0.044
4630	995.48	988.42	20:45 hr	0.0244	0.132
4632	991.60	983.82	20:45 hr	0.0074	0.151
4634	990.66	981.49	20:45 hr	0.0048	0.213
4636	991.50	984.27	20:45 hr	0.0131	0.103
4638	1000.70	991.45	20:45 hr	0.0126	0.692
4640	1001.50	991.50	20:45 hr	0.0104	0.207
4642	1003.72	996.44	20:15 hr	0.0180	0.089
4644	1002.86	995.03	20:15 hr	0.0153	0.093
4646	1005.20	998.40	20:00 hr	0.0112	0.046
4648	1000.14	992.70	20:30 hr	0.0272	0.144
4650	1005.00	997.52	20:00 hr	0.0229	0.081
4750	954.12	943.18	20:45 hr	0.0046	0.190
4752	957.27	949.52	20:45 hr	0.0025	0.162
4754	960.91	950.78	20:45 hr	0.0018	0.155
4756	957.31	947.30	20:45 hr	0.0097	0.221
4758	955.89	947.65	20:45 hr	0.0034	0.209
4760	955.89	948.56	20:45 hr	0.0024	0.170
4762	967.76	960.52	20:00 hr	0.0008	0.011
4764	963.07	955.40	20:30 hr	0.0022	0.049
4766	969.00	961.44	20:15 hr	0.0038	0.030
4768	969.90	962.88	20:00 hr	0.0012	0.020
4770	963.04	951.46	20:30 hr	0.0015	0.154
4772	968.17	960.31	20:15 hr	0.0052	0.048
4774	960.27	950.29	20:45 hr	0.0018	0.042
4776	959.18	944.87	20:45 hr	0.0027	0.231
4778	970.51	963.65	20:15 hr	0.0165	0.075
4780	971.42	964.73	20:15 hr	0.0048	0.036
4782	971.58	964.53	20:15 hr	0.0052	0.029
4784	968.21	961.33	20:30 hr	0.0237	0.104
4786	965.51	958.25	20:30 hr	0.0092	0.077
4788	963.04	946.15	20:45 hr	0.0073	0.230
4790	963.24	952.65	20:15 hr	0.0026	0.112
4792	967.77	960.51	20:00 hr	0.0258	0.058
4794	969.11	958.89	20:15 hr	0.0008	0.011
4796	961.13	954.15	20:00 hr	0.0013	0.025
4798	962.21	948.20	20:45 hr	0.0008	0.136
4800	967.48	960.56	20:30 hr	0.0019	0.055
4802	972.60	966.56	20:15 hr	0.0048	0.047

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
4804	963.11	954.81	20:45 hr	0.0023	0.064
4806	968.03	960.28	20:45 hr	0.0022	0.058
4808	970.85	964.69	20:15 hr	0.0010	0.022
4810	972.48	964.20	20:15 hr	0.0021	0.038
4812	971.44	964.07	20:00 hr	0.0016	0.027
4814	973.90	963.26	20:30 hr	0.0018	0.053
4816	969.50	962.72	20:00 hr	0.0013	0.026
4818	971.76	964.56	20:00 hr	0.0022	0.021
4820	975.65	962.29	20:45 hr	0.0013	0.065
4822	975.25	967.75	20:15 hr	0.0014	0.017
4824	975.99	969.03	20:15 hr	0.0051	0.039
4826	975.93	962.72	20:45 hr	0.0013	0.060
4828	975.28	961.82	20:45 hr	0.0013	0.071
4830	972.30	961.26	20:45 hr	0.0015	0.072
4832	970.23	960.84	20:45 hr	0.0011	0.071
4834	928.99	919.25	20:45 hr	0.0028	0.158
4836	931.61	920.25	20:45 hr	0.0048	0.156
4838	938.47	930.35	20:30 hr	0.0080	0.091
4840	944.19	935.82	20:15 hr	0.0125	0.065
4842	951.21	943.94	20:00 hr	0.0079	0.039
4844	934.89	925.87	20:30 hr	0.0075	0.110
4846	933.36	922.07	20:45 hr	0.0064	0.134
4848	942.25	937.61	20:00 hr	0.0045	0.027
4850	940.06	931.64	20:15 hr	0.0053	0.049
4852	940.50	932.57	20:15 hr	0.0015	0.014
4854	935.49	925.41	20:15 hr	0.0034	0.028
4856	942.82	933.97	20:15 hr	0.0039	0.025
4858	934.70	928.04	20:15 hr	0.0042	0.038
4906	1036.84	1019.91	21:00 hr	0.0085	0.289
4908	1011.34	1004.18	20:00 hr	0.0044	0.046
4910	1011.95	1005.65	20:00 hr	0.0054	0.035
4912	1008.70	1000.94	20:15 hr	0.0038	0.073
4914	1009.55	1002.72	20:00 hr	0.0096	0.048
4916	1007.38	998.86	20:30 hr	0.0048	0.079
4918	1006.00	996.65	20:45 hr	0.0045	0.089
4920	1001.38	991.98	20:45 hr	0.0067	0.115
4922	1004.07	994.66	20:45 hr	0.0043	0.101
4924	998.65	991.42	20:45 hr	0.0042	0.092
4926	1001.87	993.84	20:30 hr	0.0091	0.085
4928	1008.83	1001.77	20:00 hr	0.0075	0.041
4930	1006.55	999.51	20:15 hr	0.0166	0.071
4932	997.49	989.96	21:00 hr	0.0025	0.216
4934	997.32	987.99	20:45 hr	0.0044	0.232
4936	998.46	988.93	20:15 hr	0.0054	0.037
4938	1008.59	1000.57	20:00 hr	0.0070	0.041
4940	1003.35	995.64	20:00 hr	0.0088	0.043
4942	1009.86	1002.06	20:45 hr	0.0132	0.127
4944	1023.54	1005.14	20:30 hr	0.0143	0.138
4946	1004.13	996.01	20:45 hr	0.0080	0.138
4948	999.98	991.92	21:00 hr	0.0055	0.149
4950	998.46	988.82	20:45 hr	0.0041	0.227
4952	995.98	987.20	21:00 hr	0.0046	0.260
4954	993.91	986.08	20:45 hr	0.0077	0.182
4956	990.10	981.08	20:45 hr	0.0080	0.235
4958	1006.15	999.55	20:00 hr	0.0056	0.029
4960	998.33	990.48	20:15 hr	0.0074	0.058
4962	991.78	984.17	20:30 hr	0.0077	0.121
4964	991.33	983.22	20:45 hr	0.0076	0.130
4966	989.40	982.58	20:45 hr	0.0041	0.089
4968	983.40	976.01	20:45 hr	0.0039	0.113
4970	987.13	979.73	20:45 hr	0.0051	0.118
4972	990.37	983.39	20:30 hr	0.0040	0.059
4974	993.13	985.74	20:30 hr	0.0044	0.060
4976	995.12	988.10	20:15 hr	0.0063	0.053
4978	997.60	989.76	20:00 hr	0.0040	0.036
4980	996.15	989.06	20:00 hr	0.0038	0.050
4982	1000.73	993.71	20:00 hr	0.0050	0.032
4984	1008.00	1001.03	20:00 hr	0.0039	0.031

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
4986	1007.15	999.50	20:15 hr	0.0041	0.044
4988	1004.98	997.50	20:30 hr	0.0045	0.054
4990	1003.73	995.81	20:30 hr	0.0064	0.066
4992	1004.17	997.70	20:15 hr	0.0056	0.032
4994	1002.70	995.84	20:15 hr	0.0034	0.040
4996	994.96	987.27	20:15 hr	0.0076	0.041
4998	1002.10	994.75	20:00 hr	0.0102	0.046
5000	1000.45	992.86	20:30 hr	0.0031	0.119
5002	1000.21	992.47	20:45 hr	0.0034	0.120
5004	999.39	992.01	20:45 hr	0.0042	0.107
5006	995.73	989.14	20:45 hr	0.0043	0.138
5008	998.80	991.74	20:15 hr	0.0063	0.042
5010	997.03	990.15	20:15 hr	0.0066	0.099
5012	1000.33	991.58	20:15 hr	0.0068	0.053
5014	996.23	989.65	20:30 hr	0.0056	0.103
5016	994.60	990.19	20:00 hr	0.0092	0.046
5018	994.60	986.15	20:15 hr	0.0053	0.079
5020	991.80	985.06	20:45 hr	0.0057	0.145
5022	990.10	983.88	20:00 hr	0.0070	0.044
5024	988.50	982.67	20:45 hr	0.0038	0.153
5026	990.10	983.52	20:15 hr	0.0070	0.060
5028	983.30	977.02	20:45 hr	0.0048	0.267
5030	996.26	989.29	20:00 hr	0.0134	0.045
5032	990.80	982.81	20:15 hr	0.0078	0.032
5034	984.90	975.94	20:45 hr	0.0042	0.273
5036	993.90	987.52	20:00 hr	0.0098	0.036
5038	987.20	980.10	20:15 hr	0.0040	0.043
5040	982.50	974.89	44:45 hr	0.0029	0.236
5042	993.60	987.43	20:45 hr	0.0068	0.145
5044	986.60	979.72	20:45 hr	0.0043	0.179
5046	985.60	978.51	44:45 hr	0.0043	0.186
5048	984.50	977.55	20:45 hr	0.0055	0.258
5050	983.50	976.60	44:45 hr	0.0051	0.282
5052	985.10	975.41	44:45 hr	0.0043	0.323
5054	981.20	973.81	44:45 hr	0.0037	0.210
5056	980.30	971.89	21:00 hr	0.0028	0.224
5058	980.10	972.66	20:00 hr	0.0066	0.053
5060	995.70	988.88	20:00 hr	0.0096	0.038
5062	992.23	985.31	20:00 hr	0.0037	0.045
5064	989.00	981.17	20:15 hr	0.0030	0.068
5066	981.90	970.05	21:00 hr	0.0015	0.226
5068	982.70	969.10	44:45 hr	0.0016	0.263
5070	1025.90	1018.39	20:15 hr	0.0030	0.050
5072	1026.20	1020.04	20:00 hr	0.0070	0.044
5074	1021.80	1016.33	20:30 hr	0.0059	0.053
5076	1010.50	1004.78	20:45 hr	0.0063	0.061
5078	1005.30	997.80	20:45 hr	0.0024	0.083
5080	1010.05	995.30	20:15 hr	0.0018	0.038
5082	1013.10	1006.52	20:00 hr	0.0051	0.024
5084	1008.30	993.30	21:00 hr	0.0007	0.172
5086	990.10	976.66	20:15 hr	0.0057	0.215
5088	989.70	978.09	20:00 hr	0.1020	0.212
5090	989.16	975.91	20:30 hr	0.0019	0.259
5092	1001.70	993.05	20:00 hr	0.0053	0.050
5094	1001.20	993.11	20:00 hr	0.0038	0.076
5096	993.20	987.24	20:15 hr	0.0072	0.061
5098	991.50	985.02	20:30 hr	0.0029	0.079
5100	989.00	975.28	20:45 hr	0.0026	0.233
5102	996.10	989.18	21:00 hr	0.0015	0.077
5104	1001.30	990.33	20:15 hr	0.0041	0.044
5106	1005.40	995.52	20:45 hr	0.0023	0.104
5108	1003.40	993.07	20:45 hr	0.0035	0.093
5110	1012.30	1002.57	44:45 hr	0.0037	0.107
5112	1010.62	1003.98	20:15 hr	0.0062	0.053
5114	1001.58	989.48	21:00 hr	0.0010	0.129
5116	1001.36	990.04	20:00 hr	0.0046	0.045
5118	1002.16	996.06	20:00 hr	0.0050	0.026
5120	1010.39	999.04	21:00 hr	0.0033	0.106

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
5122	1015.54	1005.72	45:00 hr	0.0027	0.095
5124	1017.72	1007.18	20:15 hr	0.0020	0.050
5126	1015.95	1007.83	20:15 hr	0.0065	0.055
5128	1023.74	1012.34	20:45 hr	0.0050	0.093
5130	1032.35	1018.70	20:45 hr	0.0044	0.088
5132	1028.88	1019.18	20:00 hr	0.0049	0.053
5134	1036.25	1024.38	20:45 hr	0.0054	0.068
5136	1042.53	1032.16	20:45 hr	0.0025	0.063
5138	1049.09	1038.08	20:00 hr	0.0040	0.028
5140	1045.15	1033.87	20:45 hr	0.0019	0.062
5142	1048.81	1039.91	20:45 hr	0.0035	0.046
5144	1051.52	1042.51	20:30 hr	0.0031	0.049
5146	1057.00	1049.86	20:30 hr	0.0032	0.038
5148	1063.53	1055.01	20:15 hr	0.0026	0.032
5150	1070.63	1063.42	20:15 hr	0.0037	0.021
5152	1094.84	1087.14	20:15 hr	0.0028	0.023
5154	1107.14	1100.10	20:15 hr	0.0015	0.014
5156	1087.54	1075.06	20:30 hr	0.0018	0.032
5158	1081.57	1072.08	20:30 hr	0.0014	0.058
5160	1085.84	1071.48	20:30 hr	0.0021	0.064
5162	1082.60	1070.76	20:45 hr	0.0033	0.041
5164	1065.90	1055.85	20:45 hr	0.0046	0.049
5166	1053.90	1045.84	20:45 hr	0.0027	0.075
5168	1058.25	1044.22	20:45 hr	0.0019	0.097
5170	1059.25	1043.65	20:45 hr	0.0012	0.139
5172	1055.46	1043.41	44:45 hr	0.0005	0.081
5174	1075.00	1064.47	20:15 hr	0.0035	0.020
5176	1065.10	1055.02	20:15 hr	0.0019	0.023
5178	1050.77	1041.81	21:00 hr	0.0021	0.062
5180	1027.75	1020.89	21:00 hr	0.0026	0.091
5182	1024.88	1016.19	44:45 hr	0.0052	0.092
5184	1007.90	998.40	44:45 hr	0.0020	0.134
5186	1015.69	1006.16	20:00 hr	0.0124	0.051
5188	1005.90	999.83	20:15 hr	0.0040	0.080
5190	1006.58	999.11	20:30 hr	0.0022	0.093
5192	1003.70	992.98	44:45 hr	0.0039	0.140
5194	1047.90	1030.86	20:00 hr	0.0103	0.040
5288	1011.38	1002.15	20:45 hr	0.0019	0.173
5290	1008.29	1000.74	20:45 hr	0.0020	0.170
5292	1005.77	999.41	20:45 hr	0.0021	0.238
5294	1009.76	998.63	20:45 hr	0.0038	0.214
5296	1007.93	997.77	20:45 hr	0.0013	0.273
5298	1009.33	997.08	44:45 hr	0.0024	0.248
5300	1009.61	996.60	20:45 hr	0.0012	0.238
5302	1026.46	1019.35	20:30 hr	0.0020	0.040
5304	1024.62	1017.20	20:45 hr	0.0020	0.111
5306	1027.96	1019.68	20:15 hr	0.0016	0.048
5308	1028.49	1020.00	20:15 hr	0.0016	0.035
5310	1027.40	1020.33	20:00 hr	0.0011	0.025
5312	1024.21	1017.23	20:15 hr	0.0045	0.042
5314	1027.03	1019.90	20:00 hr	0.0024	0.026
5316	1019.94	1012.90	20:30 hr	0.0029	0.048
5318	1018.90	1011.90	20:30 hr	0.0004	0.051
5320	1018.47	1011.22	20:45 hr	0.0012	0.100
5322	1028.47	1021.05	20:30 hr	0.0045	0.058
5324	1026.99	1018.55	20:45 hr	0.0017	0.115
5326	1029.23	1022.03	20:15 hr	0.0026	0.047
5328	1029.71	1022.48	20:15 hr	0.0025	0.042
5330	1030.33	1023.33	20:00 hr	0.0018	0.025
5332	1031.45	1022.95	20:15 hr	0.0029	0.047
5334	1030.54	1023.51	20:15 hr	0.0020	0.031
5336	1031.97	1022.63	20:15 hr	0.0014	0.054
5338	1032.62	1022.29	20:15 hr	0.0033	0.068
5340	1028.57	1021.03	20:30 hr	0.0051	0.058
5342	1022.00	1015.00	20:45 hr	0.0036	0.067
5344	1020.55	1013.32	20:45 hr	0.0022	0.071
5346	1019.31	1012.18	20:45 hr	0.0007	0.072
5348	1017.36	1010.36	20:45 hr	0.0016	0.098

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
5350	1016.61	1009.59	20:45 hr	0.0014	0.100
5352	1015.93	1008.85	20:45 hr	0.0020	0.120
5354	1014.97	1008.37	20:45 hr	0.0011	0.091
5356	1014.59	1007.01	20:45 hr	0.0008	0.148
5358	1026.74	1018.91	20:15 hr	0.0025	0.086
5360	1025.70	1019.64	20:15 hr	0.0156	0.084
5362	1026.00	1017.86	20:45 hr	0.0026	0.128
5364	1023.09	1015.82	20:45 hr	0.0028	0.114
5366	1021.46	1014.11	20:45 hr	0.0028	0.114
5368	1020.22	1012.79	20:45 hr	0.0023	0.121
5370	1019.05	1011.77	20:45 hr	0.0023	0.121
5372	1017.97	1010.55	20:45 hr	0.0034	0.125
5374	1016.28	1008.78	20:45 hr	0.0022	0.121
5376	1015.72	1007.98	20:45 hr	0.0013	0.137
5378	1014.13	1006.13	20:45 hr	0.0008	0.150
5380	1013.22	1004.77	20:45 hr	0.0024	0.154
5382	1011.41	1002.61	20:45 hr	0.0013	0.171
5384	1027.22	1020.42	20:15 hr	0.0016	0.051
5386	1026.06	1019.12	20:45 hr	0.0044	0.090
5388	1027.95	1021.08	20:15 hr	0.0012	0.047
5390	1028.71	1021.93	20:15 hr	0.0020	0.041
5392	1030.58	1023.43	20:00 hr	0.0037	0.035
5394	1032.60	1025.58	20:15 hr	0.0024	0.036
5396	1034.80	1027.82	20:15 hr	0.0024	0.025
5398	1030.80	1023.71	20:45 hr	0.0037	0.073
5400	1027.80	1020.53	45:00 hr	0.0025	0.100
5402	1027.59	1019.95	21:00 hr	0.0018	0.106
5404	1026.92	1019.27	21:00 hr	0.0016	0.092
5406	1025.68	1018.37	20:45 hr	0.0018	0.090
5408	1024.40	1017.25	20:45 hr	0.0022	0.096
5410	1023.01	1015.79	21:00 hr	0.0031	0.178
5412	1033.40	1025.93	20:15 hr	0.0030	0.050
5414	1032.10	1024.99	20:30 hr	0.0023	0.067
5416	1033.90	1027.06	20:00 hr	0.0029	0.034
5418	1032.50	1025.67	20:00 hr	0.0019	0.027
5420	1016.14	1008.15	20:45 hr	0.0273	0.146
5422	1015.09	1004.53	21:00 hr	0.0000	0.209
5424	1023.20	1011.96	20:45 hr	0.0026	0.127
5426	1020.53	1013.29	20:45 hr	0.0192	0.199
5428	1021.90	1015.33	20:45 hr	0.0039	0.130
5430	1027.91	1020.98	20:45 hr	0.0059	0.074
5432	1031.57	1024.28	20:30 hr	0.0054	0.063
5434	1032.98	1025.73	20:15 hr	0.0043	0.055
5436	1034.29	1027.49	20:15 hr	0.0048	0.041
5438	1001.98	995.92	20:15 hr	0.0014	0.025
5440	1005.60	998.62	20:00 hr	0.0015	0.019
5442	1006.25	999.28	20:00 hr	0.0024	0.021
5444	996.00	989.02	20:15 hr	0.0042	0.038
5446	988.79	982.03	20:45 hr	0.0021	0.129
5448	1005.69	996.59	20:15 hr	0.0055	0.063
5450	1004.23	997.81	20:15 hr	0.0040	0.044
5452	1007.07	995.89	20:30 hr	0.0011	0.074
5454	1008.30	1002.11	20:00 hr	0.0021	0.018
5456	1003.83	995.21	20:45 hr	0.0021	0.054
5458	999.03	992.09	20:45 hr	0.0017	0.053
5460	995.86	988.95	20:45 hr	0.0021	0.070
5462	994.13	987.22	20:45 hr	0.0028	0.086
5464	999.36	992.56	20:00 hr	0.0021	0.022
5466	997.06	990.05	20:15 hr	0.0021	0.045
5468	999.18	992.31	20:15 hr	0.0027	0.026
5470	991.07	984.41	20:45 hr	0.0029	0.082
5472	988.04	982.63	20:15 hr	0.0021	0.028
5474	988.04	981.06	20:45 hr	0.0021	0.149
5476	982.86	980.74	20:45 hr	0.0007	0.139
5478	1002.00	994.83	20:15 hr	0.0007	0.033
5480	1002.70	995.73	20:15 hr	0.0026	0.028
5482	991.80	984.69	20:30 hr	0.0027	0.066
5484	990.17	984.92	20:00 hr	0.0003	0.024

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
5486	992.50	985.55	20:00 hr	0.0021	0.024
5488	991.40	984.26	20:30 hr	0.0005	0.070
5490	991.20	983.83	20:45 hr	0.0018	0.078
5492	990.30	983.06	20:45 hr	0.0015	0.071
5494	988.85	986.25	20:45 hr	0.0013	0.051
5496	986.60	979.51	20:45 hr	0.0017	0.092
5498	983.90	978.39	20:45 hr	0.0012	0.123
5500	987.80	980.69	20:45 hr	0.0007	0.131
5502	987.20	977.68	44:45 hr	0.0026	0.182
5504	986.00	975.90	44:45 hr	0.0004	0.165
5506	985.00	976.15	44:45 hr	0.0005	0.218
5508	986.20	976.75	44:45 hr	0.0022	0.192
5510	980.40	973.38	20:15 hr	0.0034	0.048
5512	982.00	974.97	20:15 hr	0.0027	0.037
5514	981.90	974.92	20:00 hr	0.0018	0.024
5516	978.00	970.81	20:30 hr	0.0019	0.064
5518	979.00	971.86	20:00 hr	0.0028	0.029
5520	976.60	969.53	20:45 hr	0.0025	0.063
5522	974.70	963.29	20:45 hr	0.0023	0.208
5524	973.00	964.26	20:45 hr	0.0004	0.162
5526	977.32	964.06	20:45 hr	0.0003	0.159
5528	973.90	963.89	20:45 hr	0.0011	0.177
5530	975.30	962.20	20:45 hr	0.0021	0.200
5532	976.10	969.08	20:00 hr	0.0028	0.032
5534	974.30	961.66	20:45 hr	0.0020	0.206
5536	972.70	960.88	44:45 hr	0.0014	0.244
5538	980.90	973.92	20:15 hr	0.0038	0.035
5540	977.50	970.47	20:15 hr	0.0032	0.047
5542	978.60	971.59	20:00 hr	0.0028	0.032
5544	973.60	966.62	20:30 hr	0.0028	0.073
5546	973.20	965.68	20:45 hr	0.0020	0.076
5548	971.70	964.65	20:00 hr	0.0017	0.028
5550	969.00	957.06	21:00 hr	0.0003	3.154
5552	975.00	960.32	44:45 hr	0.0005	0.207
5554	981.92	972.77	20:15 hr	0.0015	0.018
5556	976.60	968.53	20:15 hr	0.0008	0.028
5558	974.90	966.36	20:45 hr	0.0006	0.104
5560	981.70	974.77	20:00 hr	0.0015	0.019
5562	977.80	971.34	20:15 hr	0.0016	0.040
5564	980.23	973.17	20:15 hr	0.0019	0.022
5566	976.90	970.30	20:30 hr	0.0015	0.046
5568	975.50	969.20	20:45 hr	0.0018	0.080
5570	986.60	977.40	20:15 hr	0.0015	0.028
5572	986.90	978.89	20:00 hr	0.0013	0.019
5574	982.00	974.58	20:30 hr	0.0019	0.036
5576	978.60	972.01	20:45 hr	0.0019	0.050
5578	978.90	972.36	20:00 hr	0.0012	0.021
5580	975.00	968.69	45:00 hr	0.0006	0.085
5582	975.20	968.36	20:45 hr	0.0006	0.087
5584	975.50	967.97	20:45 hr	0.0019	0.093
5586	975.10	966.72	20:45 hr	0.0019	0.093
5588	975.15	965.92	20:45 hr	0.0013	0.121
5590	1003.00	989.85	20:15 hr	0.0013	0.026
5592	1013.30	1002.32	20:15 hr	0.0045	0.024
5594	1018.50	1006.33	20:00 hr	0.0042	0.026
5596	1011.10	998.14	20:15 hr	0.0031	0.042
5598	1014.00	1003.12	20:00 hr	0.0015	0.019
5600	1002.80	991.31	20:30 hr	0.0025	0.048
5602	1005.90	995.84	20:00 hr	0.0023	0.020
5604	997.70	986.28	20:45 hr	0.0013	0.062
5606	998.20	986.90	20:00 hr	0.0018	0.029
5608	994.00	984.47	20:45 hr	0.0012	0.088
5610	1001.10	989.45	20:15 hr	0.0028	0.026
5612	1020.80	1012.80	20:15 hr	0.0021	0.017
5614	1015.10	1001.72	20:15 hr	0.0026	0.039
5616	1007.90	998.44	20:30 hr	0.0030	0.078
5618	1025.10	1014.25	20:00 hr	0.0019	0.024
5620	1030.20	1017.60	20:00 hr	0.0027	0.021

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
5622	1007.00	998.04	20:45 hr	0.0015	0.072
5624	1005.10	994.23	20:45 hr	0.0037	0.058
5626	1009.30	996.55	20:15 hr	0.0019	0.038
5628	1017.40	1007.03	20:00 hr	0.0024	0.017
5630	994.90	983.98	20:45 hr	0.0074	0.073
5632	986.80	970.91	20:45 hr	0.0022	0.120
5634	987.00	979.74	20:15 hr	0.0034	0.022
5706	1003.80	994.13	20:15 hr	0.0015	0.033
5708	1007.00	997.75	20:00 hr	0.0034	0.024
5710	1003.10	989.94	20:15 hr	0.0022	0.032
5712	994.00	983.03	20:30 hr	0.0022	0.037
5714	986.50	977.84	20:30 hr	0.0021	0.039
5716	982.20	970.43	20:45 hr	0.0011	0.048
5718	980.50	968.38	20:45 hr	0.0008	0.086
5720	1005.60	993.94	20:15 hr	0.0022	0.019
5722	997.80	988.07	20:15 hr	0.0025	0.028
5724	993.70	981.56	20:30 hr	0.0028	0.039
5726	990.10	975.67	20:00 hr	0.0045	0.036
5728	986.00	974.19	20:15 hr	0.0019	0.040
5730	982.40	970.09	20:30 hr	0.0019	0.052
5732	982.20	969.50	20:30 hr	0.0018	0.062
5734	982.30	968.48	20:45 hr	0.0005	0.066
5736	990.30	978.35	20:30 hr	0.0014	0.043
5738	987.20	976.19	20:45 hr	0.0012	0.047
5740	983.80	971.43	20:15 hr	0.0018	0.019
5742	978.40	966.51	20:45 hr	0.0013	0.421
5744	975.50	966.51	20:45 hr	0.0013	4.070
5746	972.20	966.51	20:45 hr	0.0036	3.290
5748	971.50	966.51	20:45 hr	0.0010	4.907
5750	971.40	966.51	20:45 hr	0.0009	5.216
5752	988.70	979.28	20:15 hr	0.0025	0.034
5754	994.90	986.64	20:15 hr	0.0040	0.024
5756	988.40	977.46	20:15 hr	0.0008	0.039
5758	988.10	974.49	20:15 hr	0.0015	0.061
5760	985.20	973.64	20:30 hr	0.0014	0.059
5762	984.10	973.01	20:30 hr	0.0005	0.065
5764	977.40	966.55	20:15 hr	0.0012	0.029
5766	980.30	968.97	20:15 hr	0.0032	0.025
5768	975.90	966.50	20:45 hr	0.0019	2.607
5770	972.80	966.50	20:45 hr	0.0015	4.677
5772	968.60	966.50	20:45 hr	0.0008	7.056
5774	995.20	983.44	20:15 hr	0.0034	0.025
5776	990.80	979.92	20:30 hr	0.0008	0.042
5778	1006.70	992.70	20:15 hr	0.0035	0.031
5780	1009.90	999.83	20:00 hr	0.0025	0.020
5782	994.50	982.54	20:30 hr	0.0019	0.038
5784	981.80	970.43	20:45 hr	0.0010	0.071
5786	977.50	966.51	20:45 hr	0.0015	0.263
5788	974.60	966.51	20:45 hr	0.0016	2.670
5790	969.30	966.49	20:45 hr	0.0016	6.008
5792	969.40	966.49	20:45 hr	0.0037	3.678
5794	967.30	966.49	20:45 hr	0.0013	8.238
5796	982.10	969.12	20:00 hr	0.0041	0.027
5798	972.60	964.49	20:15 hr	0.0015	0.029
5800	970.80	961.50	17:30 hr	0.0004	0.387
5802	965.60	961.50	17:30 hr	0.0009	7.016
5806	968.70	961.50	17:30 hr	0.0015	6.516
5808	970.10	961.50	17:30 hr	0.0016	2.826
5810	971.70	961.50	17:30 hr	0.0019	1.616
5812	980.80	969.79	20:15 hr	0.0014	0.026
5814	982.80	971.07	20:00 hr	0.0009	0.017
5816	978.60	968.38	20:30 hr	0.0032	0.038
5818	977.60	964.56	20:30 hr	0.0032	0.048
5820	974.40	963.30	20:45 hr	0.0017	0.065
5822	969.80	962.72	21:00 hr	0.0009	0.066
5824	998.70	989.61	20:15 hr	0.0019	0.036
5826	1005.50	990.72	20:15 hr	0.0028	0.033
5828	996.10	988.22	20:30 hr	0.0041	0.040

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
5830	994.70	982.74	20:15 hr	0.0033	0.035
5832	990.70	981.45	20:30 hr	0.0035	0.057
5834	987.80	975.72	44:15 hr	0.0021	0.435
5836	977.70	966.91	44:15 hr	0.0022	0.303
5838	986.30	975.05	20:00 hr	0.0050	0.032
5840	978.90	969.95	44:15 hr	0.0041	0.321
5842	995.90	983.92	20:00 hr	0.0060	0.030
5844	981.20	972.48	44:15 hr	0.0056	0.353
5846	995.60	982.83	20:15 hr	0.0048	0.030
5848	987.50	977.09	20:30 hr	0.0023	0.083
5850	1001.50	987.62	20:15 hr	0.0042	0.026
5852	1002.60	990.53	20:15 hr	0.0029	0.025
5854	997.80	987.24	20:15 hr	0.0024	0.040
5856	1005.70	996.27	20:00 hr	0.0043	0.026
5858	986.90	976.62	20:45 hr	0.0014	0.087
5860	986.20	984.71	22:45 hr	0.0006	8.815
5862	981.60	974.74	44:15 hr	0.0031	0.296
5864	978.60	968.72	44:15 hr	0.0020	0.309
5866	973.60	964.24	44:15 hr	0.0004	0.240
5868	981.70	974.17	20:00 hr	0.0011	0.015
5870	1000.64	993.00	20:15 hr	0.0018	0.026
5872	995.17	988.92	20:30 hr	0.0023	0.033
5874	988.19	980.18	20:30 hr	0.0031	0.041
5876	985.36	978.11	20:45 hr	0.0017	0.044
5878	980.60	973.21	44:45 hr	0.0014	0.084
5880	994.90	987.61	20:15 hr	0.0016	0.029
5882	996.70	989.69	20:00 hr	0.0017	0.021
5884	993.70	986.35	20:15 hr	0.0023	0.037
5886	988.50	980.15	20:30 hr	0.0031	0.048
5888	983.40	976.73	20:45 hr	0.0026	0.053
5890	981.80	974.66	20:45 hr	0.0017	0.077
5892	988.00	979.45	20:00 hr	0.0033	0.025
5894	980.31	973.78	20:45 hr	0.0016	0.084
5896	979.90	971.27	20:45 hr	0.0014	0.066
5898	979.20	966.63	20:45 hr	0.0019	0.119
5900	1004.34	997.46	20:15 hr	0.0018	0.020
5902	1004.20	997.19	20:00 hr	0.0035	0.039
5904	1003.48	996.00	20:15 hr	0.0036	0.040
5906	998.85	991.08	20:30 hr	0.0022	0.045
5908	999.60	992.29	20:00 hr	0.0022	0.024
5910	996.24	987.54	20:45 hr	0.0015	0.051
5912	1001.35	991.64	20:00 hr	0.0018	0.018
5914	995.45	985.18	20:15 hr	0.0041	0.036
5916	986.65	976.83	20:30 hr	0.0031	0.041
5918	983.60	973.83	20:45 hr	0.0021	0.043
5920	980.80	967.42	20:45 hr	0.0017	0.065
5922	973.22	964.59	20:45 hr	0.0008	0.168
5924	975.07	965.59	20:45 hr	0.0023	0.118
5926	974.08	965.02	20:45 hr	0.0020	0.110
5928	1013.44	1003.27	21:00 hr	0.0000	0.183
5930	1016.14	1002.20	45:00 hr	0.0003	0.452
5972	1030.89	1014.26	21:00 hr	0.0017	0.448
5974	1027.67	1013.08	21:00 hr	0.0020	0.576
5976	1024.01	1012.08	21:00 hr	0.0020	0.410
5978	1018.96	1009.35	21:00 hr	0.0016	0.385
5980	1007.37	991.49	45:00 hr	0.0011	0.585
5982	997.33	992.34	00:00 hr	0.0000	0.000
5984	1012.06	998.66	45:00 hr	0.0000	0.356
5986	1006.49	998.80	00:00 hr	0.0000	0.000
5988	1039.65	1029.97	07:45 hr	0.0003	0.172
5990	1040.92	1032.59	07:15 hr	0.0087	0.040
5992	1041.13	1032.11	07:30 hr	0.0050	0.182
5994	1042.24	1033.87	07:15 hr	0.0006	0.171
5996	1042.76	1036.44	07:15 hr	0.0875	0.338
5998	1015.66	1005.45	45:00 hr	0.0052	0.392
6000	1024.80	1017.71	20:15 hr	0.0045	0.056
6002	1027.85	1020.92	20:00 hr	0.0085	0.042
6004	1023.16	1016.58	20:15 hr	0.0082	0.064

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
6006	1017.28	1009.55	20:45 hr	0.0072	0.167
6008	1037.60	1030.58	20:15 hr	0.0044	0.060
6010	1038.67	1032.42	20:00 hr	0.0046	0.035
6012	1040.81	1034.15	20:00 hr	0.0070	0.038
6014	1035.16	1028.33	20:30 hr	0.0064	0.067
6016	1031.80	1024.53	20:45 hr	0.0083	0.079
6018	1026.87	1020.01	20:45 hr	0.0072	0.088
6020	1023.97	1017.16	20:45 hr	0.0065	0.095
6022	1021.26	1013.83	20:45 hr	0.0077	0.174
6024	1038.10	1031.79	20:00 hr	0.0037	0.025
6026	1036.29	1029.29	20:00 hr	0.0094	0.052
6028	1035.27	1028.25	20:00 hr	0.0012	0.059
6030	1034.38	1027.45	20:00 hr	0.0040	0.066
6032	1032.08	1025.10	20:15 hr	0.0049	0.073
6034	1030.98	1023.93	20:15 hr	0.0057	0.084
6036	1028.69	1021.92	20:30 hr	0.0041	0.098
6038	1028.00	1021.45	20:30 hr	0.0039	0.076
6040	1024.67	1016.50	20:45 hr	0.0068	0.160
6042	1036.86	1029.94	20:15 hr	0.0071	0.066
6044	1037.00	1031.54	20:00 hr	0.0139	0.059
6046	1035.43	1028.56	20:15 hr	0.0129	0.078
6048	1027.02	1019.63	20:30 hr	0.0119	0.101
6050	1025.54	1018.57	20:30 hr	0.0054	0.119
6052	1017.81	1007.75	21:00 hr	0.0046	0.388
6054	1025.05	1014.40	20:45 hr	0.0073	0.150
6056	1024.25	1015.85	20:30 hr	0.0055	0.110
6058	1022.47	1016.52	20:15 hr	0.0069	0.051
6060	1026.94	1019.85	20:30 hr	0.0093	0.062
6062	1032.01	1024.55	20:15 hr	0.0069	0.051
6064	1032.19	1024.94	20:15 hr	0.0011	0.035
6066	1032.96	1025.99	20:15 hr	0.0042	0.032
6068	1032.03	1024.84	20:15 hr	0.0022	0.037
6070	1032.99	1025.87	20:00 hr	0.0039	0.030
6072	1030.06	1023.04	20:15 hr	0.0040	0.058
6074	1032.99	1025.99	20:00 hr	0.0032	0.029
6076	1027.17	1020.08	20:30 hr	0.0074	0.063
6078	1022.28	1013.11	20:45 hr	0.0078	0.134
6080	1019.94	1010.87	20:45 hr	0.0073	0.131
6082	929.10	920.37	20:45 hr	0.0005	0.164
6084	929.30	921.92	20:45 hr	0.0008	0.115
6086	929.04	921.32	20:45 hr	0.0000	0.147
6088	1030.22	1022.96	20:00 hr	0.0020	0.022
6090	1025.32	1018.31	20:45 hr	0.0025	0.075
6092	1024.62	1017.23	20:45 hr	0.0020	0.071
6094	1023.73	1015.88	20:45 hr	0.0112	0.170
6096	1025.93	1017.97	20:45 hr	0.0149	0.169
6098	1025.19	1017.61	20:45 hr	0.0033	0.165
6100	1024.27	1017.02	20:45 hr	0.0065	0.181
6102	1021.84	1014.26	44:45 hr	0.0029	0.182
6104	1020.74	1013.44	20:45 hr	0.0020	0.174
6106	1019.40	1012.35	20:45 hr	0.0063	0.181
6108	1014.97	1008.69	44:45 hr	0.0091	0.249
6110	1016.30	1007.15	21:00 hr	0.0023	0.222
6112	1012.78	1005.19	21:00 hr	0.0044	0.203
6114	1009.36	1002.19	21:00 hr	0.0055	0.270
6116	1010.04	1001.05	21:00 hr	0.0018	0.252
6118	1012.52	1005.00	20:15 hr	0.0038	0.044
6120	1014.46	1007.64	20:15 hr	0.0039	0.034
6122	1008.04	1000.33	21:00 hr	0.0012	0.238
6124	1007.96	999.35	21:00 hr	0.0015	0.258
6126	1008.64	998.51	45:00 hr	0.0043	0.271
6128	1023.58	1014.24	20:45 hr	0.0015	0.090
6130	1036.64	1028.49	20:00 hr	0.0012	0.023
6132	1037.43	1029.31	20:00 hr	0.0004	0.012
6134	1035.59	1027.52	20:15 hr	0.0016	0.037
6136	1035.84	1026.96	20:30 hr	0.0016	0.050
6138	1036.78	1026.41	20:45 hr	0.0017	0.059
6140	1038.70	1028.95	20:30 hr	0.0014	0.047

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
6142	1038.24	1029.19	20:15 hr	0.0014	0.045
6144	1037.86	1028.41	20:45 hr	0.0019	0.042
6146	1035.71	1024.87	20:45 hr	0.0017	0.063
6148	1035.21	1023.53	20:45 hr	0.0015	0.144
6150	1036.04	1025.93	20:45 hr	0.0034	0.060
6152	1034.50	1026.06	20:45 hr	0.0025	0.061
6154	1034.73	1026.67	20:45 hr	0.0021	0.072
6156	1035.54	1027.23	20:45 hr	0.0022	0.067
6158	1036.74	1027.90	20:45 hr	0.0015	0.061
6160	1037.33	1028.75	20:15 hr	0.0013	0.021
6162	1037.45	1028.47	20:45 hr	0.0020	0.050
6164	1037.90	1028.89	20:30 hr	0.0006	0.039
6166	1037.52	1029.33	20:15 hr	0.0008	0.035
6168	1036.64	1029.73	20:15 hr	0.0017	0.031
6170	1037.47	1031.70	20:00 hr	0.0006	0.011
6172	1039.75	1032.68	20:15 hr	0.0008	0.017
6174	1040.04	1031.49	20:15 hr	0.0021	0.031
6176	1038.48	1030.22	20:30 hr	0.0023	0.040
6178	1037.60	1028.75	20:30 hr	0.0033	0.051
6180	1039.13	1030.50	20:15 hr	0.0031	0.039
6182	1041.09	1032.23	20:15 hr	0.0027	0.029
6184	1036.16	1027.64	20:30 hr	0.0030	0.048
6186	1033.74	1025.41	20:45 hr	0.0040	0.054
6188	1029.95	1020.03	20:45 hr	0.0037	0.067
6190	1039.50	1031.41	20:15 hr	0.0034	0.042
6192	1042.95	1033.72	20:00 hr	0.0044	0.034
6194	1034.43	1027.06	20:30 hr	0.0039	0.052
6196	1030.05	1023.48	20:45 hr	0.0043	0.060
6198	1023.66	1017.51	20:45 hr	0.0029	0.071
8920	1039.92	1032.68	20:15 hr	0.0014	0.020
8924	973.68	958.75	45:00 hr	0.0003	8.362
8926	967.87	958.75	45:00 hr	0.0000	8.244
9574	987.77	982.93	21:00 hr	0.0004	0.340
9576	990.73	983.65	44:45 hr	0.0020	0.334
9578	1005.01	993.75	44:45 hr	0.0004	0.163
9580	1002.48	992.30	44:45 hr	0.0009	0.173
9582	997.06	989.10	20:30 hr	0.0019	0.040
9584	994.33	986.19	20:45 hr	0.0019	0.230
9586	998.99	991.02	20:30 hr	0.0017	0.033
9588	1001.28	993.31	20:15 hr	0.0019	0.026
9590	1002.31	994.20	20:15 hr	0.0010	0.020
9592	1002.43	994.44	20:00 hr	0.0004	0.009
9594	1000.48	991.05	44:45 hr	0.0016	0.174
9596	997.19	989.35	44:45 hr	0.0025	0.159
9598	993.36	985.60	20:15 hr	0.0014	0.043
9600	993.30	985.45	44:45 hr	0.0000	0.154
9602	995.93	988.07	20:00 hr	0.0024	0.029
9604	991.66	984.11	21:00 hr	0.0047	0.240
9606	991.38	984.03	44:45 hr	0.0011	0.233
9608	992.37	984.60	44:45 hr	0.0009	0.225
9610	994.49	986.65	44:45 hr	0.0014	0.156
9612	998.22	990.03	20:45 hr	0.0015	0.149
9614	999.57	990.89	20:45 hr	0.0018	0.201
9616	996.31	988.48	20:45 hr	0.0017	0.167
9618	992.90	985.19	20:45 hr	0.0027	0.233
9620	1000.79	992.37	20:15 hr	0.0021	0.073
9622	1002.13	993.88	20:00 hr	0.0114	0.058
9624	1000.26	991.72	20:30 hr	0.0017	0.071
9626	1002.97	994.56	20:45 hr	0.0019	0.124
9628	1006.35	997.34	20:45 hr	0.0019	0.118
9630	1006.61	999.47	20:45 hr	0.0015	0.133
9632	965.50	953.97	20:15 hr	0.0033	0.043
9634	973.40	961.93	20:00 hr	0.0057	0.028
9636	959.00	951.22	20:30 hr	0.0021	0.047
9638	956.30	948.42	20:30 hr	0.0028	0.048
9640	953.50	943.54	20:45 hr	0.0021	0.045
9642	951.60	938.29	20:45 hr	0.0043	0.076
9644	952.50	941.67	20:15 hr	0.0043	0.059

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
9646	956.50	946.36	20:15 hr	0.0105	0.035
9648	990.31	982.71	20:45 hr	0.0000	0.182
9650	990.86	982.42	20:45 hr	0.0049	0.188
9652	995.33	983.73	20:45 hr	0.0022	0.190
9654	1001.18	984.21	20:45 hr	0.0010	0.184
9662	973.88	958.28	45:00 hr	0.0220	8.564
9664	966.83	958.96	45:00 hr	0.0000	8.469
9666	990.00	982.85	21:00 hr	0.0000	0.290
9668	990.94	981.95	44:45 hr	0.0028	0.299
9670	988.45	980.92	44:45 hr	0.0011	0.404
9672	987.73	980.64	44:45 hr	0.0007	0.406
9674	989.29	981.12	20:45 hr	0.0013	0.193
9676	990.29	981.49	20:45 hr	0.0041	0.193
9678	981.79	972.68	21:00 hr	0.0031	0.275
9680	983.92	974.45	21:00 hr	0.0046	0.350
9682	984.43	975.94	21:00 hr	0.0031	0.347
9684	983.42	975.94	21:00 hr	0.0048	0.217
9686	988.58	978.75	44:45 hr	0.0059	0.342
9688	985.01	978.75	44:45 hr	0.0043	0.212
9690	987.87	980.34	44:45 hr	0.0092	0.336
9692	996.92	989.01	20:45 hr	0.0005	0.088
9694	995.93	987.17	20:45 hr	0.0005	0.175
9696	999.29	991.42	20:45 hr	0.0028	0.088
9698	1006.57	998.56	20:45 hr	0.0034	0.089
9700	1007.61	999.59	20:45 hr	0.0016	0.114
9702	1008.46	1000.58	20:45 hr	0.0023	0.109
9704	1001.01	985.10	20:45 hr	0.0034	0.185
9706	1004.06	984.94	20:45 hr	0.0000	0.184
9708	997.60	986.36	20:45 hr	0.0029	0.181
9710	996.53	986.92	20:45 hr	0.0015	0.177
9712	996.48	987.38	20:45 hr	0.0016	0.094
9714	995.45	987.97	20:30 hr	0.0041	0.089
9716	1002.58	994.63	20:15 hr	0.0059	0.054
9718	1003.79	995.83	20:15 hr	0.0018	0.040
9720	1005.44	997.37	20:15 hr	0.0029	0.036
9722	1009.50	1001.16	20:00 hr	0.0030	0.027
9724	1013.15	1005.38	20:00 hr	0.0033	0.039
9726	1011.93	1004.40	20:15 hr	0.0020	0.040
9728	1011.50	1003.54	20:45 hr	0.0008	0.082
9730	1015.93	1008.16	20:00 hr	0.0164	0.064
9732	1014.13	1006.36	20:15 hr	0.0029	0.069
9734	1012.95	1005.14	20:30 hr	0.0016	0.071
9736	1010.09	1002.23	20:45 hr	0.0015	0.085
9738	1009.84	1001.90	20:15 hr	0.0104	0.063
9740	1010.17	1002.13	20:30 hr	0.0031	0.123
9742	1007.99	1000.04	20:45 hr	0.0031	0.191
9744	1012.89	1004.69	20:15 hr	0.0017	0.114
9746	1014.53	1006.24	20:15 hr	0.0021	0.115
9748	1017.32	1009.65	20:00 hr	0.0723	0.113
9750	1019.52	1009.16	20:15 hr	0.0649	0.166
9752	1017.75	1009.13	20:15 hr	0.0013	0.169
9754	1016.74	999.91	20:30 hr	0.0020	0.181
9756	1012.19	1000.51	20:00 hr	0.0018	0.051
9758	1010.38	1000.72	20:00 hr	0.0008	0.042
9760	1008.73	1000.94	20:00 hr	0.0029	0.038
9762	1016.26	1008.31	20:00 hr	0.0072	0.055
9764	1016.47	1007.24	20:15 hr	0.0019	0.065
9766	1016.04	998.75	44:45 hr	0.0023	0.146
9768	1017.40	999.54	20:45 hr	0.0019	0.184
9770	1012.81	1004.73	20:15 hr	0.0010	0.036
9772	1013.97	1006.03	20:00 hr	0.0032	0.031
9774	1012.23	1003.73	20:15 hr	0.0007	0.032
9776	1006.57	998.40	20:30 hr	0.0008	0.037
9778	1004.83	996.28	20:30 hr	0.0016	0.081
9780	1009.52	1000.98	20:30 hr	0.0012	0.035
9782	1014.53	1006.29	20:00 hr	0.0008	0.013
9784	1006.52	995.69	20:45 hr	0.0016	0.085
9786	1007.43	995.28	44:45 hr	0.0013	0.180

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
9788	1003.01	996.85	20:00 hr	0.0050	0.049
9790	1005.26	994.28	44:45 hr	0.0010	0.219
9792	1009.91	996.58	44:45 hr	0.0020	0.148
9804	1008.63	999.60	20:45 hr	0.0009	0.130
9806	1005.70	993.84	44:45 hr	0.0000	0.167
9808	1001.13	984.70	20:45 hr	0.0018	0.188
9810	997.95	984.24	20:45 hr	0.0008	0.171
9812	947.00	940.03	20:15 hr	0.0054	0.028
9814	946.00	934.72	20:45 hr	0.0010	0.119
9968	968.80	958.64	20:15 hr	0.0155	0.042
9970	963.70	952.06	20:15 hr	0.0048	0.061
9972	951.90	944.91	20:45 hr	0.0053	0.105
9974	942.20	931.13	20:45 hr	0.0030	0.181
9976	945.60	935.65	44:45 hr	0.0026	0.113
9978	947.40	940.43	20:45 hr	0.0046	0.111
9980	960.70	948.56	20:45 hr	0.0062	0.101
9982	962.20	949.11	20:45 hr	0.0032	0.103
9984	969.60	950.41	20:30 hr	0.0015	0.098
9986	975.10	965.14	20:15 hr	0.0115	0.036
9988	970.40	951.19	20:30 hr	0.0024	0.069
9990	964.40	952.17	20:15 hr	0.0043	0.066
9992	962.80	954.07	20:15 hr	0.0077	0.047
CH281	1047.74	1034.79	20:15 hr	0.1117	1.001
CH287	1019.66	1006.08	21:00 hr	0.0328	1.420
CH289	989.99	973.38	21:30 hr	0.1360	1.388
CH291	976.77	963.28	45:30 hr	0.0282	1.383
CH293	962.80	946.27	45:30 hr	0.0905	1.604
CH295	969.64	956.06	45:15 hr	0.0460	1.598
CH297	1015.80	995.81	21:15 hr	0.0611	1.245
CH305	1002.48	984.00	21:15 hr	0.1279	1.347
CH307	982.68	967.42	21:30 hr	0.0663	1.435
CH315	1138.74	1121.56	20:15 hr	0.1262	1.147
CH317	1127.28	1108.22	20:30 hr	0.0245	0.654
CH319	1134.59	1117.97	20:15 hr	0.1337	1.160
CH323	1047.00	1036.48	20:00 hr	0.0416	1.540
CH325	1068.50	1054.49	21:15 hr	0.0847	1.058
CH327	1074.37	1060.44	21:15 hr	0.0980	1.057
CH329	1083.71	1071.21	19:15 hr	0.0763	0.588
CH331	1091.33	1077.51	19:00 hr	0.1063	0.553
CH333	1101.93	1086.57	43:00 hr	0.1499	0.439
CH335	1109.78	1098.55	18:30 hr	0.2378	0.375
CH337	1121.32	1109.49	18:00 hr	0.1329	0.237
CH339	1122.00	1104.33	20:45 hr	0.1648	0.688
CH341	1126.40	1107.12	20:30 hr	0.0038	0.654
CH343	1195.16	1184.16	19:00 hr	0.2560	0.691
CH345	1183.40	1173.60	19:00 hr	0.5581	0.869
CH347	1171.00	1161.17	19:15 hr	0.6020	0.983
CH349	1162.99	1153.05	19:30 hr	0.5290	0.967
CH351	1146.30	1136.76	19:45 hr	0.2018	1.039
CH353	1142.22	1126.38	20:00 hr	0.1103	1.133
CH355	1139.67	1129.53	18:30 hr	0.0079	0.429
CH357	1176.23	1164.94	18:00 hr	0.5838	0.492
CH359	1156.03	1144.05	18:30 hr	0.4794	0.618
CH361	1193.68	1182.40	18:15 hr	0.1985	0.436
CH363	1183.91	1177.48	18:45 hr	0.1734	0.535
CH365	1172.56	1161.13	18:00 hr	0.2427	0.340
CH367	1162.59	1153.35	18:30 hr	0.1727	0.411
CH369	1154.68	1143.25	43:00 hr	0.1282	0.573
CH371	1149.18	1140.12	19:00 hr	0.2039	0.650
CH373	1150.78	1139.10	18:00 hr	0.2111	0.321
CH375	1139.77	1133.86	18:15 hr	0.1607	0.424
CH377	1119.68	1105.07	18:00 hr	0.3223	0.389
CH379	1107.19	1095.89	18:30 hr	0.2439	0.471
CH381	1099.99	1089.57	18:45 hr	0.2145	0.513
CH383	1089.15	1082.13	19:00 hr	0.1271	0.575
CH385	1089.98	1074.78	19:00 hr	0.1401	0.628
CH387	1082.42	1068.55	19:00 hr	0.0960	0.650
CH389	1077.27	1062.90	43:00 hr	0.0846	0.589

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
CH391	1070.26	1055.86	19:00 hr	0.1270	0.603
CH393	1061.94	1045.73	19:45 hr	0.0594	1.064
CH395	1061.66	1043.17	19:45 hr	0.1028	1.079
CH397	1059.79	1040.52	20:00 hr	0.2462	1.142
CH399	1103.17	1088.46	18:30 hr	0.3164	0.568
CH403	1095.06	1080.68	18:45 hr	0.2458	0.618
CH405	1084.08	1069.74	19:00 hr	0.2585	0.665
CH407	1079.58	1066.26	43:00 hr	0.2490	0.645
CH409	1073.96	1061.63	19:15 hr	0.1359	0.673
CH411	1070.40	1057.68	19:15 hr	0.0903	0.692
CH413	1068.44	1054.02	19:30 hr	0.0834	0.833
CH415	1062.58	1049.48	19:45 hr	0.0711	0.844
CH419	1042.03	1023.75	20:45 hr	0.0266	2.623
CH423	1099.97	1082.85	19:00 hr	0.1213	0.662
CH425	1089.30	1075.03	43:00 hr	0.1732	0.729
CH427	1084.46	1070.07	19:30 hr	0.0950	0.613
CH429	1075.95	1061.09	19:30 hr	0.1283	0.628
CH431	1061.25	1046.71	19:30 hr	0.1495	0.652
CH433	1047.07	1032.95	19:45 hr	0.0508	0.883
CH435	1045.02	1027.47	20:00 hr	0.0509	0.890
CH437	1132.65	1123.81	19:00 hr	0.1370	0.637
CH439	1120.28	1116.31	19:00 hr	0.1103	0.656
CH441	1112.19	1110.40	19:00 hr	0.2190	0.609
CH443	1108.39	1102.44	19:00 hr	0.1044	0.635
CH457	1185.28	1174.97	18:00 hr	0.4603	0.445
CH459	1028.64	1015.19	19:00 hr	0.1397	0.746
CH461	1018.68	1005.24	19:00 hr	0.0985	0.767
CH463	1010.29	996.13	19:00 hr	0.2282	0.844
CH465	992.91	977.64	19:15 hr	0.3454	0.791
CH467	973.87	959.76	19:30 hr	0.1522	0.892
CH469	960.75	946.90	19:45 hr	0.0559	0.897
CH471	955.60	941.50	19:45 hr	0.0564	0.895
CH475	1119.47	1104.26	43:00 hr	0.0901	0.625
CH477	1115.10	1100.56	19:00 hr	0.2607	0.671
CH479	1109.13	1094.61	19:00 hr	0.3641	0.736
CH481	1100.31	1086.92	43:00 hr	0.2319	0.720
CH483	1090.12	1079.49	19:00 hr	0.1758	0.744
CH485	1083.59	1072.53	19:15 hr	0.1670	0.767
CH487	1080.43	1068.92	19:15 hr	0.0403	0.772
CH489	1070.89	1059.26	19:15 hr	0.0425	0.776
CH491	1067.48	1054.67	19:15 hr	0.0545	0.781
CH493	1063.58	1049.90	19:30 hr	0.0665	1.114
CH503	1063.83	1048.54	07:15 hr	0.5900	0.390
CH505	1056.80	1041.03	32:00 hr	0.0797	0.428
CH507	1051.18	1036.40	07:30 hr	0.0947	0.406
CH509	1046.37	1031.52	08:15 hr	0.0538	0.421
CH511	1041.10	1026.64	08:15 hr	0.0530	0.438
CH513	1036.52	1021.38	20:45 hr	0.0887	0.530
CH515	1030.93	1016.16	09:00 hr	0.1735	0.659
CH517	1024.61	1010.34	21:00 hr	0.0473	0.729
CH523	1166.98	1152.30	18:15 hr	0.2995	0.321
CH525	1151.17	1139.14	18:15 hr	0.2456	0.467
CH527	1141.93	1129.73	18:30 hr	0.2024	0.482
CH529	1137.33	1123.42	18:45 hr	0.1763	0.489
CH531	1131.72	1117.41	19:00 hr	0.1755	0.543
CH533	1127.15	1112.20	19:00 hr	0.2416	0.618
CH535	1117.13	1103.12	19:00 hr	0.2267	0.697
CH537	1108.34	1093.90	19:00 hr	0.2210	0.640
CH539	1102.72	1088.49	19:00 hr	0.1383	0.772
CH541	1090.00	1073.07	21:15 hr	0.0538	1.067
CH543	1153.81	1142.21	18:15 hr	0.4045	0.398
CH545	1140.44	1128.51	18:15 hr	0.2318	0.455
CH547	1136.24	1121.94	18:30 hr	0.1204	0.508
CH549	1132.08	1116.40	18:45 hr	0.0694	0.477
CH551	1129.87	1113.40	19:00 hr	0.0448	0.498
CH553	1120.04	1106.35	43:00 hr	0.0539	0.525
CH555	1121.00	1106.21	18:15 hr	0.1828	0.214
CH557	1110.01	1097.03	18:15 hr	0.0900	0.261

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
CH563	1106.53	1091.81	18:30 hr	0.0641	0.266
CH565	1096.68	1083.06	21:15 hr	0.0661	0.824
CH567	1121.40	1106.74	18:15 hr	0.2688	0.339
CH569	1114.44	1098.53	18:15 hr	0.1141	0.422
CH571	1110.07	1092.81	18:30 hr	0.0799	0.422
CH573	1105.18	1088.34	19:15 hr	0.0375	0.794
CH575	1100.13	1084.80	19:15 hr	0.0620	0.675
CH577	1094.37	1077.94	19:30 hr	0.1413	0.813
CH579	1083.41	1069.61	19:30 hr	0.1376	0.822
CH581	1075.78	1062.82	19:30 hr	0.0429	0.827
CH583	1070.09	1056.96	19:45 hr	0.0358	0.830
CH585	1211.02	1137.22	18:00 hr	0.3429	0.501
CH587	1182.04	1130.67	18:30 hr	0.3245	0.560
CH589	1158.89	1125.28	43:00 hr	0.1924	0.706
CH591	1136.71	1117.94	19:15 hr	0.2100	0.672
CH593	1122.37	1113.69	19:15 hr	0.1186	0.797
CH595	1113.17	1105.29	19:15 hr	0.0831	0.813
CH597	1188.77	1178.17	18:00 hr	0.3373	0.348
CH599	1168.80	1165.13	18:15 hr	0.3738	0.460
CH601	1146.57	1146.56	18:30 hr	0.2934	0.559
CH603	1138.41	1137.40	18:45 hr	0.1868	0.584
CH605	1132.71	1128.83	43:00 hr	0.0671	0.613
CH607	1130.29	1125.19	19:00 hr	0.0558	0.635
CH609	1056.65	1043.04	19:45 hr	0.0176	1.537
CH723	1196.90	1185.17	18:15 hr	0.2120	0.332
CH725	1221.86	1208.74	18:00 hr	0.5321	0.424
CH727	1208.08	1196.61	18:30 hr	0.3190	0.557
CH729	1206.57	1194.56	18:00 hr	0.3791	0.437
CH731	1168.55	1154.36	18:00 hr	0.1570	0.272
CH733	1136.12	1114.28	20:15 hr	0.0900	1.169
CH735	1130.47	1111.46	20:30 hr	0.0590	1.638
CH753	1124.90	1110.40	18:00 hr	0.5228	0.502
CH755	1160.99	1153.55	18:30 hr	0.3393	0.537
CH757	1088.63	1072.55	19:00 hr	0.4996	0.651
CH759	1111.86	1097.43	43:00 hr	0.2331	0.569
CH761	1067.74	1054.93	19:00 hr	0.2905	0.698
CH763	1049.39	1034.58	19:00 hr	0.1857	0.735
CH765	1203.66	1188.98	18:00 hr	0.3583	0.324
CH767	1158.38	1142.43	18:30 hr	0.3227	0.425
CH769	1145.89	1138.96	18:45 hr	0.2809	0.572
CH771	1134.65	1120.13	18:45 hr	0.2170	0.498
CH773	973.99	962.54	20:00 hr	0.0701	0.889
CH775	1000.89	986.81	19:30 hr	0.1674	0.794
CH777	991.90	976.87	19:45 hr	0.1736	0.867
CH779	981.49	969.02	19:45 hr	0.1301	0.881
CH781	1027.32	1013.13	19:00 hr	0.1527	0.813
CH783	1018.00	1002.47	19:30 hr	0.1537	0.825
CH785	1010.17	994.10	19:30 hr	0.1202	0.849
CH787	1045.87	1033.40	19:00 hr	0.1861	0.826
CH789	1037.64	1023.50	43:00 hr	0.1669	0.745
CH791	1063.75	1051.68	19:00 hr	0.3233	0.790
CH793	1083.24	1070.95	19:00 hr	0.3201	0.728
CH795	1103.98	1089.65	19:00 hr	0.2730	0.668
CH797	1159.87	1145.40	18:45 hr	0.5113	0.531
CH799	1130.60	1115.67	19:00 hr	0.2671	0.630
CH801	1199.70	1183.29	18:15 hr	0.4892	0.458
CH803	1220.33	1205.61	18:00 hr	0.2532	0.279
CH805	1072.24	1055.96	19:30 hr	0.0889	0.819
CH807	1064.90	1049.57	19:30 hr	0.0709	0.837
CH809	1061.10	1046.79	19:30 hr	0.1313	0.693
CH811	1047.64	1024.87	20:30 hr	0.1465	2.436
CH813	1093.99	1075.37	19:15 hr	0.4508	0.728
CH815	1087.95	1068.73	19:15 hr	0.1786	0.773
CH817	1081.04	1062.76	19:15 hr	0.1137	0.798
CH819	1119.99	1101.88	18:45 hr	0.2309	0.612
CH821	1113.18	1095.26	19:00 hr	0.1536	0.606
CH823	1101.93	1082.22	43:00 hr	0.4062	0.625
CH825	1140.65	1125.05	18:00 hr	0.3394	0.399

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
CH827	1129.76	1114.44	18:30 hr	0.3144	0.491
CH831	1041.81	1027.17	18:15 hr	0.3788	0.373
CH833	1020.00	1005.14	18:30 hr	0.2262	0.441
CH835	1010.35	997.10	18:45 hr	0.2164	0.469
CH837	996.57	980.85	19:00 hr	0.1701	0.543
CH839	985.98	971.51	19:00 hr	0.1414	0.560
CH841	979.65	962.02	43:00 hr	0.1742	0.601
CH843	970.04	952.10	43:00 hr	0.2024	0.666
CH845	977.95	964.79	42:45 hr	0.1888	0.837
CH847	976.41	950.69	19:15 hr	0.1065	0.869
CH849	956.14	942.67	43:30 hr	0.0432	0.871
CH851	993.36	981.54	18:00 hr	0.0838	0.184
CH853	980.50	972.20	18:30 hr	0.0933	0.272
CH855	1024.13	1009.32	43:15 hr	0.0411	0.606
CH857	1002.64	986.49	08:15 hr	0.1503	0.629
CH859	1019.47	1004.63	07:15 hr	0.0735	0.157
CH861	1011.54	994.86	18:15 hr	0.2066	0.292
CH863	986.22	972.06	09:15 hr	0.0754	0.841
CH865	1024.50	1016.85	20:15 hr	0.0852	0.150
CH867	1014.50	994.92	22:45 hr	0.0288	1.516
CH869	1041.03	1031.22	20:15 hr	0.1311	0.185
CH871	1019.50	1008.91	20:15 hr	0.0881	0.412
CH873	1065.00	1057.41	19:30 hr	0.0099	67.952
CH875	1038.00	1029.37	22:30 hr	0.0027	0.968
CH877	1006.46	993.77	44:30 hr	0.0794	1.570
CH879	1000.32	991.63	23:00 hr	0.0122	0.627
CH883	1020.00	1012.46	20:15 hr	0.0948	0.164
CH885	1007.35	1000.43	21:00 hr	0.0340	0.432
CH887	998.90	998.42	21:30 hr	0.0435	0.422
CH889	1003.11	992.81	23:00 hr	0.0027	2.806
CH891	1010.21	998.15	45:15 hr	0.0065	12.151
CH893	1002.46	989.56	45:30 hr	0.0029	18.958
CH901	1054.44	1047.42	45:00 hr	0.2172	20.746
CH903	1037.23	1027.43	44:45 hr	0.3544	0.863
CH905	1022.47	1013.23	45:00 hr	0.1013	1.226
CH907	1018.83	1006.75	45:15 hr	0.1847	1.023
CH909	1020.05	1001.49	45:15 hr	0.1683	1.145
CH911	1015.48	1001.37	45:15 hr	0.1469	9.073
CH913	1085.79	1076.80	21:00 hr	0.1968	0.627
CH915	1073.91	1066.00	45:00 hr	0.0842	0.656
CH917	1063.41	1056.23	45:00 hr	0.1251	0.684
CH919	1105.20	1092.90	21:00 hr	0.1426	0.704
CH921	1099.40	1084.61	21:00 hr	0.1186	0.633
CH923	1073.00	1069.25	21:00 hr	0.0994	0.645
CH925	1069.46	1058.09	21:00 hr	0.0087	0.626
CH927	1048.60	1030.23	20:15 hr	0.1351	64.430
CH929	1028.48	1012.80	21:00 hr	0.0478	0.797
CH931	1104.50	1090.29	20:15 hr	0.3775	0.289
CH933	1078.75	1068.36	20:15 hr	0.1824	0.357
CH935	1072.34	1060.46	20:30 hr	0.1586	0.457
CH937	1066.28	1054.45	20:45 hr	0.1384	0.450
CH939	1058.17	1048.48	20:45 hr	0.1887	0.480
CH941	1048.95	1038.56	45:00 hr	0.1652	0.558
CH943	1040.54	1031.49	21:00 hr	0.0757	0.589
CH945	1041.75	1028.28	21:00 hr	0.0686	0.534
CH947	1032.58	1016.87	21:00 hr	0.1577	0.802
CH949	1019.97	1010.87	21:00 hr	0.1367	0.897
CH951	1012.10	1003.43	45:00 hr	0.0862	0.564
CH953	1009.00	999.18	45:15 hr	0.0140	9.184
CH955	1019.20	999.47	45:15 hr	0.0124	5.657
CH957	1100.16	1088.40	20:00 hr	0.2067	0.238
CH959	1071.65	1063.22	20:15 hr	0.1352	0.314
CH961	1059.22	1049.77	20:30 hr	0.0841	0.318
CH963	1047.46	1039.72	20:45 hr	0.1337	0.341
CH965	1038.65	1029.13	21:00 hr	0.1330	0.484
CH967	1042.63	1023.85	21:00 hr	0.0547	0.876
CH969	993.96	982.22	18:00 hr	0.2370	0.255
CH971	962.01	950.44	18:30 hr	0.4168	0.432

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
CH973	942.30	930.78	18:45 hr	0.2867	0.477
CH975	940.44	918.40	19:00 hr	0.1261	0.530
CH977	932.33	907.89	19:00 hr	0.0845	0.559
CH979	930.17	901.95	19:00 hr	0.1169	0.590
CH981	920.26	889.69	43:00 hr	0.2600	0.705
CH989	1088.62	1082.88	20:15 hr	0.0945	0.225
CH991	1064.90	1058.56	20:30 hr	0.0874	0.253
CH993	1041.42	1036.54	20:45 hr	0.0852	0.252
CH997	1009.61	988.57	21:15 hr	0.0536	1.251
CH999	1021.71	1008.03	21:00 hr	0.2035	1.531
CH1001	1037.42	1022.22	08:15 hr	0.2561	0.596
CH1003	1019.46	1005.09	08:30 hr	0.0325	0.634
CH1005	1018.73	1001.62	08:45 hr	0.2932	0.740
CH1007	1010.23	996.01	09:00 hr	0.2925	0.781
CH1009	997.47	983.74	09:00 hr	0.1834	0.842
CH1011	991.61	977.44	33:00 hr	0.0716	0.863
CH1013	1054.10	1042.50	18:00 hr	0.5791	0.496
CH1015	1028.83	1015.13	18:30 hr	0.3277	0.534
CH1017	1020.93	1005.53	18:45 hr	0.2035	0.559
CH1023	1190.31	1179.70	18:15 hr	0.4821	0.479
CH1025	1153.44	1142.74	18:30 hr	0.4620	0.552
CH1027	1139.66	1127.14	18:45 hr	0.3380	0.554
CH1029	1123.02	1107.67	19:00 hr	0.0884	0.655
CH1031	1221.72	1207.07	18:00 hr	0.4111	0.346
CH1033	1252.90	1238.09	20:15 hr	0.1716	0.195
CH1035	1211.00	1196.82	20:15 hr	0.1941	0.322
CH1037	1176.03	1161.91	20:45 hr	0.2675	0.458
CH1039	1139.48	1127.00	21:00 hr	0.3298	0.593
CH1041	1101.69	1090.30	20:45 hr	0.3361	0.606
CH1043	1093.45	1082.90	21:00 hr	0.1224	0.693
CH1045	1125.10	1123.37	21:00 hr	0.1830	0.606
CH1047	1290.06	1275.27	20:00 hr	0.2560	0.214
CH1049	1240.70	1212.81	20:15 hr	0.2978	0.414
CH1051	1187.35	1175.82	20:45 hr	0.3034	0.473
CH1053	1150.76	1147.08	45:00 hr	0.2135	0.610
CH1055	1059.30	1042.50	07:15 hr	0.2372	0.501
CH1057	1048.94	1034.15	08:00 hr	0.2199	0.545
CH1059	1048.09	1029.71	08:00 hr	0.0532	0.501
CH1061	1060.01	1045.40	07:15 hr	0.2851	0.386
CH1063	1062.00	1047.90	21:30 hr	0.0262	1.063
CH1065	1090.88	1081.12	18:00 hr	0.1774	0.289
CH1067	1092.34	1075.58	18:15 hr	0.2906	0.481
CH1069	1080.35	1067.35	19:30 hr	0.0226	0.590
CH1071	1077.66	1064.58	19:30 hr	0.1069	0.637
CH1073	1071.16	1059.99	19:45 hr	0.0562	0.664
CH1075	1078.49	1062.63	07:15 hr	0.0471	0.140
CH1077	1074.04	1059.69	07:15 hr	0.2231	0.339
CH1079	1066.92	1051.83	08:00 hr	0.1228	0.437
CH1081	1060.80	1046.23	18:45 hr	0.1289	0.427
CH1083	1053.42	1038.87	19:00 hr	0.1007	0.451
CH1085	1035.85	1023.25	20:45 hr	0.2314	0.659
CH1087	1039.26	1024.82	20:15 hr	0.2268	0.568
CH1089	1041.82	1028.38	20:00 hr	0.1590	0.258
CH1091	1046.80	1032.25	18:45 hr	0.1324	0.694
CH1093	1051.00	1040.24	20:00 hr	0.0180	1.537
CH1095	1045.58	1030.99	20:15 hr	0.0464	1.006
CH1097	1042.26	1027.83	20:15 hr	0.0162	2.228
CH1099	1042.94	1026.81	20:30 hr	0.1455	2.239
CH1101	1057.53	1045.67	20:15 hr	0.0477	0.136
CH1103	1040.05	1039.79	07:15 hr	0.1122	0.232
CH1105	1042.63	1032.83	08:00 hr	0.0585	0.197
CH1107	1036.42	1019.94	20:45 hr	0.2618	0.286
CH1109	1021.89	1007.54	21:00 hr	0.1146	0.330
CH1111	1006.29	997.56	21:00 hr	0.1318	1.559
CH1113	1000.87	995.49	21:15 hr	0.0551	1.128
CH1115	1111.46	1099.62	20:15 hr	0.0915	0.157
CH1117	1099.46	1087.38	20:15 hr	0.0606	0.200
CH1119	1081.16	1072.06	20:30 hr	0.0555	0.216

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
CH1121	1064.44	1056.37	20:45 hr	0.1089	0.269
CH1123	1059.99	1049.64	21:00 hr	0.0253	0.346
CH1125	1055.26	1043.86	20:45 hr	0.1078	0.378
CH1127	1040.60	1029.08	21:00 hr	0.1250	0.424
CH1129	1031.02	1020.53	20:45 hr	0.1324	0.456
CH1131	1025.88	1014.46	20:45 hr	0.1518	0.444
CH1133	1020.73	1006.54	20:45 hr	0.1768	0.542
CH1135	1090.10	1078.31	20:15 hr	0.1350	0.211
CH1137	1072.36	1064.72	20:15 hr	0.0999	0.257
CH1139	1075.21	1063.19	20:00 hr	0.1559	0.189
CH1141	1068.74	1057.04	20:15 hr	0.2772	0.298
CH1143	1039.73	1033.82	20:45 hr	0.0309	0.263
CH1145	1025.41	1022.20	20:45 hr	0.1756	0.316
CH1147	1019.67	1013.23	21:00 hr	0.0425	0.333
CH1149	1009.74	1004.64	21:00 hr	0.0217	0.341
CH1151	1002.82	993.56	21:00 hr	0.0032	1.047
CH1153	1001.68	994.13	21:15 hr	0.0055	1.122
CH1189	1005.00	990.49	45:30 hr	0.0048	16.688
CH1191	1055.00	1025.74	20:00 hr	0.0367	0.098
CH1193	1045.00	1021.48	20:15 hr	0.0069	0.107
CH1195	1040.00	1025.09	20:00 hr	0.0522	0.089
CH1197	1009.00	1000.12	20:15 hr	0.0326	0.119
CH1199	1015.00	1009.12	20:00 hr	0.0347	0.124
CH1201	1024.00	1007.65	20:15 hr	0.0220	0.153
CH1203	1080.00	1067.09	20:00 hr	0.0618	0.092
CH1205	1078.00	1056.06	20:15 hr	0.0234	0.125
CH1207	1058.00	1045.87	20:30 hr	0.0213	0.140
CH1209	1047.00	1033.05	20:45 hr	0.0187	0.151
CH1211	1043.00	1024.96	20:45 hr	0.0296	0.168
CH1221	1125.00	1113.89	20:00 hr	0.1367	0.159
CH1223	1103.00	1090.42	20:15 hr	0.0605	0.191
CH1225	1065.00	1054.58	20:30 hr	0.0460	0.213
CH1227	1060.00	1047.69	20:45 hr	0.0126	0.219
CH1229	1045.00	1032.90	20:45 hr	0.0310	0.232
CH1231	1147.00	1035.57	20:00 hr	0.0513	0.181
CH1233	1094.00	1034.02	20:15 hr	0.0469	0.254
CH1235	1085.00	1033.05	20:30 hr	0.0316	0.296
CH1237	1072.00	1031.80	20:45 hr	0.0354	0.341
CH1239	1075.00	1030.78	20:45 hr	0.0300	0.375
CH1241	1103.00	1091.17	20:00 hr	0.0876	0.169
CH1243	1035.00	985.15	20:15 hr	0.0976	0.151
CH1245	993.00	970.22	20:15 hr	0.0748	0.219
CH1247	980.00	963.22	20:30 hr	0.0093	0.217
CH1249	975.00	961.62	20:45 hr	0.0000	0.116
CH1253	1006.00	1006.00	00:00 hr	0.0129	8.700
CH1255	1007.50	1006.24	20:30 hr	0.0035	40.442
CH1257	1048.00	1006.27	20:30 hr	0.0213	27.913
CH1259	1019.00	1006.26	20:30 hr	0.0123	40.458
CH1261	1019.00	1006.26	20:30 hr	0.0117	27.898
CH1263	1009.00	1005.21	20:45 hr	0.0060	5.208
CH1265	1000.01	989.85	45:30 hr	0.0073	18.392
CH1273	1001.08	990.12	45:30 hr	0.0039	18.118
CH1275	1005.49	993.06	45:30 hr	0.0072	15.502
CH1277	1008.00	995.71	45:30 hr	0.0053	13.553
CH1279	1010.75	998.31	45:15 hr	0.0066	11.157
CH1281	1007.39	998.60	45:15 hr	0.0060	10.169
CH1283	1007.23	998.90	45:15 hr	0.0062	9.664
CH1285	1010.01	999.21	45:15 hr	0.0034	8.205
CH1287	1011.26	999.23	45:15 hr	0.0040	7.571
CH1289	1012.46	999.26	45:15 hr	0.0021	7.027
CH1291	1012.76	999.26	45:15 hr	0.0065	6.893
CH1293	1014.37	999.36	45:15 hr	0.0027	6.174
CH1295	1014.44	999.37	45:15 hr	0.0021	6.125
CH1297	1014.40	999.48	45:15 hr	0.0022	5.481
CH1299	1015.07	1012.19	21:00 hr	0.0032	18.032
CH1301	1016.17	1012.24	21:00 hr	0.0043	17.821
CH1303	1017.38	1012.29	21:00 hr	0.0083	17.593
CH1305	1017.63	1012.34	21:00 hr	0.0007	17.273

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
CH1307	1017.76	1012.37	21:00 hr	0.0007	17.157
CH1309	1017.87	1012.39	21:00 hr	0.0059	16.941
CH1311	1018.27	1012.41	21:00 hr	0.0069	16.434
CH1313	1018.38	1012.43	21:00 hr	0.0011	16.244
CH1315	1018.64	1012.49	21:00 hr	0.0038	15.985
CH1317	1019.62	1012.54	21:00 hr	0.0022	15.610
CH1319	1019.91	1012.56	21:00 hr	0.0094	15.526
CH1321	1020.42	1012.58	21:00 hr	0.0177	15.283
CH1323	1020.98	1012.61	21:00 hr	0.0028	15.030
CH1325	1022.84	1012.70	21:00 hr	0.0151	14.488
CH1327	1023.99	1012.71	21:00 hr	0.0008	6.614
CH1329	1024.48	1012.72	21:00 hr	0.0084	13.789
CH1331	1026.42	1012.79	21:00 hr	0.0072	6.688
CH1333	1032.00	1025.21	20:15 hr	0.0363	0.214
CH1335	1069.60	1059.24	21:00 hr	0.0104	0.652
CH1339	1068.20	1059.05	00:00 hr	0.0333	0.109
CH1347	1120.00	1102.17	20:45 hr	0.0095	0.690
CH1349	1115.00	1098.77	21:00 hr	0.0141	0.693
CH1351	1109.17	1096.23	21:00 hr	0.0189	0.696
CH1353	1103.24	1092.03	21:00 hr	0.0145	0.835
CH1355	1102.00	1087.79	21:00 hr	0.0124	0.835
CH1357	1106.00	1085.49	18:45 hr	0.0490	0.489
CH1359	1080.00	1066.57	21:15 hr	0.0348	1.072
CH1361	1081.40	1069.55	00:00 hr	0.0668	0.156
CH1363	1079.47	1062.95	00:15 hr	0.0889	0.242
CH1365	1070.00	1059.39	00:30 hr	0.0796	0.257
CH1367	1065.00	1056.91	00:45 hr	0.0552	0.307
CH1369	1063.48	1049.95	01:00 hr	0.0809	0.351
CH1371	1057.60	1045.18	01:15 hr	0.0564	0.380
CH1373	1052.49	1040.41	01:30 hr	0.0629	0.376
CH1375	1044.00	1033.23	20:00 hr	0.0151	1.539
CH1377	1042.00	1028.74	20:15 hr	0.0141	1.864
CH1379	1065.00	1030.24	20:15 hr	0.0432	51.883
CH1381	1047.00	1030.24	20:15 hr	0.0542	64.439
CH1383	1057.00	1047.68	21:00 hr	0.0235	0.626
CH1385	1054.00	1042.66	21:00 hr	0.0520	0.662
CH1387	1039.00	1024.93	21:15 hr	0.0849	0.669
CH1389	1027.50	1011.56	21:15 hr	0.0666	0.681
CH1391	1023.50	1015.78	22:30 hr	0.0063	1.082
CH1393	1038.00	1023.62	22:30 hr	0.0050	1.120
CH1395	1022.00	1011.30	22:30 hr	0.0047	1.100
CH1397	1001.00	993.04	23:00 hr	0.0121	1.542
CH1399	1011.00	998.54	20:30 hr	0.0161	0.237
CH1401	1010.00	1001.51	20:15 hr	0.0141	0.211
CH1403	1018.00	1010.36	00:00 hr	0.0102	0.063
CH1405	1033.00	1025.35	00:15 hr	0.0028	0.050
CH1407	1038.00	1030.36	00:00 hr	0.0112	0.060
CH1409	1018.00	1007.63	20:30 hr	0.0256	0.330
CH1411	1043.00	1026.14	00:30 hr	0.0074	0.144
CH1413	1046.50	1029.53	00:15 hr	0.0160	0.133
CH1415	1041.50	1033.00	00:30 hr	0.0024	0.100
CH1417	1042.00	1034.40	00:15 hr	0.0175	0.105
CH1419	1085.50	1077.84	00:00 hr	0.0070	0.038
CH1421	1052.00	1040.67	00:15 hr	0.0076	0.075
CH1423	1054.50	1046.85	00:00 hr	0.0046	0.047
CH1425	1055.00	1045.08	00:00 hr	0.0239	0.083
106	971.00	966.77	08:15 hr	0.0008	0.020
108	970.60	965.78	32:00 hr	0.0009	0.052
110	971.10	966.68	07:15 hr	0.0017	0.045
112	971.60	967.42	07:15 hr	0.0024	0.035
114	970.10	965.02	08:00 hr	0.0018	0.059
116	969.90	964.74	07:45 hr	0.0015	0.065
118	969.70	964.47	08:00 hr	0.0014	0.070
120	969.20	963.85	08:00 hr	0.0004	0.077
122	970.30	963.96	06:15 hr	0.0002	0.014
124	971.20	964.58	06:15 hr	0.0001	0.010
126	969.80	963.66	06:30 hr	0.0001	0.016
128	969.10	963.28	06:45 hr	0.0000	0.016

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
130	968.80	963.10	06:45 hr	0.0000	0.016
132	968.20	962.79	06:45 hr	0.0002	0.018
134	967.10	961.83	08:15 hr	0.0006	0.088
136	971.44	961.48	08:15 hr	0.0001	0.090
138	968.60	962.92	08:15 hr	0.0015	0.084
140	969.00	963.48	08:00 hr	0.0009	0.079
142	969.40	964.13	07:15 hr	0.0021	0.033
144	968.90	961.35	08:30 hr	0.0000	0.067
146	970.40	961.16	08:45 hr	0.0000	0.067
148	968.90	961.49	08:30 hr	0.0005	0.066
150	969.80	962.79	08:15 hr	0.0013	0.046
152	970.10	963.36	08:00 hr	0.0031	0.039
154	969.40	962.05	08:15 hr	0.0013	0.052
156	968.40	962.41	20:15 hr	0.0027	0.041
158	967.70	963.44	20:00 hr	0.0016	0.019
160	967.40	962.84	20:15 hr	0.0023	0.040
162	966.60	962.20	20:15 hr	0.0055	0.083
164	967.70	963.39	20:15 hr	0.0064	0.055
166	965.90	961.28	20:30 hr	0.0042	0.076
168	965.70	960.64	20:45 hr	0.0043	0.104
170	966.53	959.97	20:45 hr	0.0011	0.068
172	967.80	962.60	20:45 hr	0.0013	0.108
174	969.99	962.95	20:45 hr	0.0005	0.106
176	966.30	961.51	20:45 hr	0.0008	0.122
178	968.40	959.48	20:45 hr	0.0012	0.049
180	969.30	958.53	08:30 hr	0.0008	0.106
182	968.00	960.16	20:45 hr	0.0005	0.040
184	967.90	960.32	20:30 hr	0.0000	0.039
186	967.70	960.50	20:30 hr	0.0003	0.039
188	967.70	960.71	20:30 hr	0.0007	0.037
190	967.10	961.21	20:15 hr	0.0008	0.032
192	967.20	961.62	20:15 hr	0.0007	0.026
194	965.80	960.81	20:45 hr	0.0006	0.126
196	966.90	961.93	20:00 hr	0.0005	0.017
198	966.90	961.83	20:00 hr	0.0009	0.022
200	967.40	961.74	20:00 hr	0.0007	0.014
202	967.60	961.47	20:15 hr	0.0012	0.028
204	968.00	960.68	20:30 hr	0.0020	0.042
206	970.10	959.53	08:15 hr	0.0085	0.087
208	970.50	960.61	07:00 hr	0.0043	0.045
210	969.30	958.73	08:30 hr	0.0027	0.095
212	970.30	964.11	08:00 hr	0.0017	0.029
214	977.00	963.47	08:15 hr	0.0018	0.041
216	966.90	962.21	08:30 hr	0.0015	0.049
218	966.50	961.88	08:30 hr	0.0006	0.055
220	966.00	960.97	20:45 hr	0.0008	0.124
222	966.80	960.62	20:45 hr	0.0004	0.120
224	968.48	960.58	20:45 hr	0.0000	0.130
226	971.20	965.72	20:15 hr	0.0012	0.042
228	975.99	965.00	20:45 hr	0.0007	0.045
230	971.40	964.81	20:45 hr	0.0008	0.093
232	971.30	965.94	20:15 hr	0.0014	0.035
234	972.30	967.71	20:00 hr	0.0017	0.020
236	973.50	966.95	20:15 hr	0.0033	0.044
238	972.30	965.93	20:30 hr	0.0062	0.069
240	970.20	965.09	20:30 hr	0.0023	0.076
242	968.00	963.63	20:45 hr	0.0027	0.083
244	968.10	962.45	20:45 hr	0.0018	0.114
246	972.00	965.88	08:15 hr	0.0123	0.075
248	971.00	965.46	08:15 hr	0.0013	0.082
250	969.00	964.53	08:30 hr	0.0021	0.088
252	968.10	963.42	08:30 hr	0.0014	0.091
254	967.90	963.15	08:45 hr	0.0004	0.104
256	968.80	964.15	20:45 hr	0.0012	0.054
258	969.70	964.46	20:30 hr	0.0012	0.049
260	969.80	965.49	20:15 hr	0.0023	0.043
262	972.10	966.71	20:00 hr	0.0014	0.027
264	972.00	966.46	20:00 hr	0.0028	0.025

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
266	973.70	964.77	20:15 hr	0.0067	0.062
268	970.00	963.45	20:30 hr	0.0024	0.070
270	972.54	961.87	20:45 hr	0.0012	0.117
272	977.50	969.31	21:00 hr	0.0005	0.261
274	980.80	970.66	21:00 hr	0.0012	0.260
276	977.40	968.50	21:00 hr	0.0000	0.274
278	977.00	968.14	21:00 hr	0.0003	0.399
280	977.00	967.84	21:00 hr	0.0011	0.306
282	976.10	966.45	21:00 hr	0.0025	0.427
284	975.10	968.61	20:00 hr	0.0043	0.030
286	974.40	967.85	20:15 hr	0.0048	0.056
288	973.80	966.81	20:30 hr	0.0030	0.068
290	973.60	967.32	20:00 hr	0.0010	0.016
292	972.90	966.66	20:15 hr	0.0010	0.076
294	975.10	967.10	20:00 hr	0.0109	0.071
296	971.90	965.91	20:30 hr	0.0018	0.080
298	971.10	964.43	20:45 hr	0.0006	0.095
300	971.20	964.02	20:45 hr	0.0005	0.096
302	971.50	963.92	20:45 hr	0.0011	0.122
304	976.10	966.90	20:00 hr	0.0014	0.027
306	976.00	966.53	20:15 hr	0.0007	0.033
308	975.60	966.05	20:30 hr	0.0004	0.035
310	975.30	965.74	20:30 hr	0.0003	0.049
312	975.40	965.94	20:15 hr	0.0011	0.035
314	974.70	967.08	20:00 hr	0.0013	0.026
316	975.00	965.48	20:30 hr	0.0008	0.053
318	973.70	964.48	21:00 hr	0.0009	0.440
320	975.50	965.79	21:00 hr	0.0014	0.431
322	975.20	965.53	21:00 hr	0.0007	0.427
324	974.80	965.23	21:00 hr	0.0007	0.432
326	974.40	964.92	21:00 hr	0.0009	0.409
328	973.20	964.24	21:00 hr	0.0008	0.445
330	972.80	964.06	21:00 hr	0.0008	0.439
332	972.30	963.81	45:00 hr	0.0012	0.444
334	971.50	963.20	21:15 hr	0.0008	0.338
336	971.30	963.14	21:15 hr	0.0006	0.442
338	970.30	962.68	21:00 hr	0.0013	0.457
340	973.50	965.90	20:30 hr	0.0020	0.074
342	972.60	964.84	20:45 hr	0.0019	0.080
344	970.60	962.50	21:00 hr	0.0008	0.466
346	974.95	962.38	21:00 hr	0.0003	0.463
348	981.10	973.95	20:30 hr	0.0006	0.048
350	983.91	973.59	20:45 hr	0.0000	0.048
352	982.70	976.32	20:15 hr	0.0009	0.029
354	983.30	975.71	20:30 hr	0.0006	0.034
356	982.20	976.84	20:00 hr	0.0014	0.020
358	981.60	975.99	20:15 hr	0.0022	0.038
360	980.40	974.68	20:30 hr	0.0011	0.045
362	979.50	973.97	08:15 hr	0.0012	0.034
364	980.10	974.82	20:00 hr	0.0011	0.024
366	979.70	972.63	20:30 hr	0.0031	0.050
368	980.40	971.68	20:45 hr	0.0014	0.047
370	983.13	970.99	20:45 hr	0.0005	0.048
372	978.89	965.50	44:45 hr	0.0000	0.354
374	977.00	965.70	20:45 hr	0.0008	0.365
376	974.20	966.21	20:45 hr	0.0006	0.354
378	978.90	969.03	20:45 hr	0.0006	0.258
380	979.20	968.44	20:45 hr	0.0010	0.259
382	978.60	967.84	44:45 hr	0.0015	0.259
384	977.90	967.32	20:45 hr	0.0010	0.266
386	979.00	968.02	20:30 hr	0.0018	0.048
388	979.90	968.83	20:15 hr	0.0015	0.040
390	979.20	969.64	20:15 hr	0.0011	0.027
392	978.50	970.45	20:00 hr	0.0011	0.017
394	977.60	969.88	20:15 hr	0.0010	0.027
396	977.40	969.56	08:30 hr	0.0027	0.212
398	974.00	966.55	08:45 hr	0.0007	0.219
400	975.60	966.65	20:45 hr	0.0010	0.268

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
402	974.00	967.06	08:45 hr	0.0008	0.219
404	974.40	967.54	08:45 hr	0.0003	0.218
406	974.90	967.76	08:45 hr	0.0005	0.218
408	977.50	968.22	20:15 hr	0.0016	0.029
410	976.20	968.71	08:45 hr	0.0030	0.215
412	978.20	970.39	08:45 hr	0.0010	0.207
414	978.10	970.68	08:30 hr	0.0217	0.205
416	980.80	971.83	20:00 hr	0.0020	0.026
418	979.60	969.41	20:45 hr	0.0015	0.066
420	977.90	969.42	20:45 hr	0.0007	0.289
422	978.30	969.94	20:45 hr	0.0012	0.299
424	981.00	970.47	20:30 hr	0.0021	0.051
426	981.10	971.47	20:15 hr	0.0016	0.042
428	980.90	971.96	20:15 hr	0.0013	0.032
430	980.30	972.99	20:00 hr	0.0013	0.019
432	980.00	972.45	20:15 hr	0.0012	0.030
434	979.60	971.96	20:45 hr	0.0009	0.072
436	978.70	971.00	08:00 hr	0.0625	0.167
438	980.20	973.01	20:45 hr	0.0008	0.064
440	981.20	973.47	20:45 hr	0.0006	0.062
442	981.10	973.70	20:45 hr	0.0013	0.058
444	981.50	974.68	20:45 hr	0.0013	0.054
446	981.30	974.91	20:30 hr	0.0015	0.048
448	982.80	976.37	20:15 hr	0.0018	0.040
450	983.10	976.93	20:00 hr	0.0014	0.027
452	983.50	977.90	20:30 hr	0.0013	0.151
454	988.90	978.45	20:00 hr	0.0186	0.092
456	984.60	975.74	20:45 hr	0.0025	0.198
458	983.90	977.01	20:30 hr	0.0040	0.157
460	983.10	978.44	32:00 hr	0.0166	0.124
462	982.80	978.72	20:00 hr	0.0440	0.097
464	982.50	977.95	20:15 hr	0.0008	0.104
466	982.00	977.46	20:30 hr	0.0006	0.105
468	981.50	977.01	20:30 hr	0.0000	0.106
470	981.30	976.79	20:45 hr	0.0004	0.105
472	981.00	976.58	20:30 hr	0.0010	0.108
474	981.30	975.70	20:45 hr	0.0008	0.111
476	981.70	976.00	20:15 hr	0.0011	0.023
478	981.50	975.42	20:45 hr	0.0005	0.112
480	981.60	975.13	20:45 hr	0.0013	0.116
482	982.40	974.27	20:45 hr	0.0020	0.119
484	983.50	972.93	20:45 hr	0.0011	0.237
486	981.60	972.12	20:45 hr	0.0006	0.239
488	982.60	972.61	20:45 hr	0.0008	0.253
490	983.30	972.81	20:45 hr	0.0004	0.239
492	982.80	973.94	20:45 hr	0.0019	0.202
494	983.40	974.89	20:45 hr	0.0019	0.200
496	985.70	976.70	20:45 hr	0.0019	0.115
498	985.40	977.28	20:45 hr	0.0016	0.092
500	986.70	978.64	20:00 hr	0.0111	0.072
502	989.25	976.88	20:00 hr	0.0091	0.065
504	985.40	977.69	20:45 hr	0.0012	0.053
506	984.70	978.39	20:45 hr	0.0008	0.047
508	986.20	979.10	20:15 hr	0.0007	0.034
510	986.30	979.31	20:15 hr	0.0016	0.029
512	985.40	978.72	20:30 hr	0.0005	0.038
514	984.20	978.89	20:00 hr	0.0009	0.022
516	980.50	970.69	20:45 hr	0.0005	0.247
518	969.60	957.63	08:45 hr	0.0001	0.110
520	974.20	965.28	20:45 hr	0.0000	0.355
522	974.20	964.47	44:45 hr	0.0005	0.326
524	974.50	963.00	08:45 hr	0.0052	0.344
526	974.60	964.27	07:15 hr	0.0016	0.072
528	978.19	964.51	07:00 hr	0.0094	0.066
530	971.70	962.47	08:45 hr	0.0007	0.345
532	970.70	962.16	21:00 hr	0.0000	0.575
534	969.50	961.86	21:00 hr	0.0009	0.576
536	968.20	961.55	21:00 hr	0.0000	0.586

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
538	967.50	961.21	21:00 hr	0.0006	0.591
540	968.00	960.91	21:00 hr	0.0006	0.594
542	966.80	960.46	21:00 hr	0.0000	0.607
544	966.00	960.20	21:00 hr	0.0000	0.608
546	964.60	959.94	21:00 hr	0.0005	0.621
548	963.30	931.09	09:00 hr	0.0860	0.094
550	962.80	958.44	00:00 hr	0.0000	0.000
552	964.00	958.00	06:15 hr	0.0002	0.017
554	971.20	957.41	08:45 hr	0.0002	0.109
556	972.60	957.19	08:45 hr	0.0007	0.110
558	973.80	956.80	08:45 hr	0.0053	0.121
560	974.30	956.42	08:45 hr	0.0085	0.135
562	974.50	956.04	33:30 hr	0.0003	0.261
564	973.20	956.04	33:30 hr	0.0038	0.421
566	972.90	956.04	33:30 hr	0.0002	0.601
568	971.70	956.04	33:30 hr	0.0007	1.241
570	971.00	955.54	33:30 hr	0.0023	1.344
572	995.90	995.90	00:00 hr	0.0033	0.000
574	1002.00	995.57	07:15 hr	0.0020	0.066
576	1002.40	994.71	07:30 hr	0.0031	0.075
578	1003.00	993.78	07:45 hr	0.0086	0.095
580	1003.00	992.59	07:45 hr	0.0079	0.119
582	994.00	994.00	00:00 hr	0.0040	0.000
584	1001.80	990.66	07:45 hr	0.0049	0.169
586	1002.60	992.78	07:00 hr	0.0144	0.068
588	1001.82	992.58	07:15 hr	0.0095	0.080
590	1001.00	989.91	07:45 hr	0.0011	0.170
592	1001.79	990.12	07:00 hr	0.0023	0.029
594	1001.52	989.49	07:45 hr	0.0014	0.174
598	909.00	901.28	09:45 hr	0.0288	1.850
602	1001.09	992.40	07:00 hr	0.0077	0.052
604	1000.76	991.98	07:15 hr	0.0221	0.089
606	1000.83	991.26	07:00 hr	0.0018	0.028
608	1000.38	990.86	07:30 hr	0.0016	0.075
610	999.08	986.69	08:00 hr	0.0166	0.275
612	1001.11	989.29	07:45 hr	0.0421	0.206
614	1000.72	987.97	08:00 hr	0.0237	0.228
616	998.74	986.46	08:00 hr	0.0042	0.283
618	997.84	985.59	08:00 hr	0.0178	0.274
620	996.74	984.69	32:00 hr	0.0137	0.302
622	996.21	984.10	08:00 hr	0.0081	0.340
644	981.36	977.17	07:15 hr	0.0084	0.060
646	981.28	975.85	07:15 hr	0.0121	0.095
648	980.53	974.83	07:30 hr	0.0000	0.106
650	981.00	975.68	07:15 hr	0.0031	0.045
712	984.19	974.37	07:00 hr	0.0018	0.024
714	982.30	974.35	07:15 hr	0.0024	0.053
716	982.30	977.13	07:00 hr	0.0042	0.032
718	981.80	971.69	07:30 hr	0.0023	0.091
720	981.50	972.15	08:15 hr	0.0023	0.042
742	982.50	976.50	07:15 hr	0.0106	0.090
744	982.50	977.48	07:15 hr	0.0072	0.058
746	981.20	975.40	07:30 hr	0.0040	0.099
748	981.05	974.89	07:45 hr	0.0015	0.116
758	990.40	984.19	20:45 hr	0.0005	0.086
760	991.20	984.95	20:45 hr	0.0015	0.085
762	990.20	984.02	20:45 hr	0.0009	0.091
764	1028.60	1017.98	20:30 hr	0.0032	0.133
766	1030.80	1013.38	20:45 hr	0.0271	0.611
768	984.50	971.46	08:45 hr	0.0022	0.841
770	985.20	972.13	08:45 hr	0.0034	0.390
772	966.00	960.32	08:15 hr	0.0007	0.048
774	965.75	960.49	08:15 hr	0.0003	0.044
786	1000.33	986.34	08:15 hr	0.0100	0.069
788	999.40	986.20	33:15 hr	0.0006	1.291
790	1001.11	986.81	20:45 hr	0.0007	0.234
792	996.20	987.16	20:45 hr	0.0006	0.242
794	1007.55	992.53	20:30 hr	0.0007	0.031

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
796	1004.00	994.96	20:15 hr	0.0008	0.029
798	1003.60	996.36	20:00 hr	0.0030	0.038
800	995.80	988.02	20:30 hr	0.0035	0.123
802	1001.48	987.58	33:15 hr	0.0298	1.286
842	964.00	959.58	07:00 hr	0.0075	0.059
844	964.10	959.56	07:45 hr	0.0085	0.116
860	980.40	967.28	09:00 hr	0.0036	0.471
862	981.00	976.70	07:00 hr	0.0009	0.022
864	980.20	967.03	08:00 hr	0.0007	0.147
866	996.90	988.09	07:15 hr	0.0012	0.087
868	996.87	988.22	07:00 hr	0.0149	0.067
870	993.00	978.21	08:45 hr	0.0007	0.252
872	993.16	977.59	07:45 hr	0.0098	0.315
874	993.20	977.78	07:30 hr	0.0383	0.318
876	987.50	976.01	07:45 hr	0.0178	0.327
878	990.66	974.45	08:00 hr	0.0120	0.370
880	990.66	974.75	07:45 hr	0.0010	0.115
882	989.63	972.37	08:00 hr	0.0102	0.377
884	987.69	970.65	32:15 hr	0.0102	0.762
886	991.50	981.28	20:15 hr	0.0004	0.082
888	994.43	981.28	20:15 hr	0.0014	0.072
890	994.46	981.63	20:15 hr	0.0123	0.073
892	994.00	980.72	20:30 hr	0.0007	0.096
894	994.66	982.00	08:00 hr	0.0046	0.033
896	996.00	980.04	08:45 hr	0.0025	0.101
898	994.00	979.49	08:45 hr	0.0006	0.102
900	994.00	979.41	08:45 hr	0.0000	0.062
902	992.00	979.23	08:45 hr	0.0005	0.230
904	950.33	937.02	07:15 hr	0.0010	0.060
906	948.00	935.08	08:15 hr	0.0046	0.346
908	947.00	934.92	08:15 hr	0.0057	0.351
910	952.54	937.13	07:15 hr	0.0119	0.052
912	952.43	937.45	07:15 hr	0.0041	0.030
914	950.51	935.97	07:00 hr	0.0081	0.045
916	946.00	933.99	08:15 hr	0.0088	0.363
976	976.22	969.91	07:15 hr	0.0049	0.173
978	979.05	971.40	07:15 hr	0.0092	0.046
980	978.90	974.41	07:15 hr	0.1082	0.159
982	977.58	968.15	07:30 hr	0.0046	0.259
984	976.70	969.07	07:15 hr	0.0214	0.100
986	975.58	967.03	07:45 hr	0.0118	0.279
988	977.56	966.03	07:45 hr	0.0148	0.280
990	977.92	964.55	32:00 hr	0.0015	0.292
992	978.72	964.55	32:00 hr	0.0023	0.262
994	977.45	963.97	08:00 hr	0.0042	0.282
996	976.96	963.66	32:00 hr	0.0095	0.840
998	977.21	963.65	32:15 hr	0.0003	0.834
1006	1036.79	1029.04	20:15 hr	0.0276	0.276
1008	1037.13	1029.20	20:15 hr	0.1504	0.253
1010	1035.08	1027.47	20:30 hr	0.0440	0.313
1012	1033.15	1025.90	20:45 hr	0.0383	0.343
1014	1031.70	1024.33	45:00 hr	0.0300	0.370
1016	961.13	949.75	20:45 hr	0.0007	0.053
1018	960.52	949.06	20:45 hr	0.0013	0.067
1020	961.63	950.35	20:45 hr	0.0012	0.048
1022	963.49	951.64	20:30 hr	0.0013	0.046
1024	964.04	952.02	20:30 hr	0.0012	0.042
1026	963.24	953.46	20:15 hr	0.0019	0.034
1028	962.05	954.73	08:00 hr	0.0010	0.017
1030	961.29	953.99	08:15 hr	0.0002	0.016
1032	960.70	953.54	08:15 hr	0.0007	0.028
1034	961.14	952.76	08:15 hr	0.0021	0.041
1036	961.13	951.82	08:30 hr	0.0013	0.054
1038	960.10	951.62	20:15 hr	0.0015	0.021
1040	960.15	950.76	20:45 hr	0.0010	0.063
1042	961.93	954.21	20:00 hr	0.0010	0.018
1044	961.90	953.06	20:15 hr	0.0007	0.023
1046	958.88	950.20	20:45 hr	0.0018	0.067

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
1048	964.39	947.57	20:45 hr	0.0004	0.068
1050	959.41	946.84	21:00 hr	0.0004	0.151
1052	960.10	947.29	21:00 hr	0.0006	0.118
1228	992.50	977.09	08:45 hr	0.0003	0.406
1230	992.50	976.76	08:45 hr	0.0005	0.420
1232	992.50	977.38	08:45 hr	0.0011	0.427
1234	992.50	977.98	08:45 hr	0.0005	1.015
1236	991.71	980.56	08:30 hr	0.0008	0.222
1238	991.71	980.38	08:30 hr	0.0000	0.442
1240	991.64	980.36	08:30 hr	0.0158	0.574
1242	950.95	942.68	08:15 hr	0.0007	0.025
1244	949.77	943.38	08:00 hr	0.0007	0.020
1246	953.75	944.93	06:00 hr	0.0002	0.011
1248	954.23	944.15	08:00 hr	0.0012	0.027
1250	954.88	943.40	08:15 hr	0.0013	0.036
1252	953.97	942.73	08:30 hr	0.0006	0.035
1254	958.68	942.62	08:30 hr	0.0000	0.041
1256	952.91	944.50	06:15 hr	0.0002	0.010
1258	952.17	943.40	06:15 hr	0.0003	0.016
1260	952.39	942.78	08:15 hr	0.0006	0.022
1262	951.80	942.50	08:15 hr	0.0003	0.026
1264	951.24	941.91	08:15 hr	0.0004	0.036
1266	955.57	941.29	08:30 hr	0.0004	0.047
1268	952.00	938.51	08:00 hr	0.0068	1.121
1270	956.25	938.61	08:00 hr	0.0179	0.285
1274	995.39	982.56	08:15 hr	0.0003	0.363
1276	994.07	982.92	08:15 hr	0.0019	0.706
1284	964.00	958.03	07:15 hr	0.0042	0.063
1286	965.50	959.07	07:00 hr	0.0041	0.050
1288	964.00	958.03	08:45 hr	0.0003	0.505
1290	963.00	961.66	07:00 hr	0.0019	0.016
1292	964.00	958.48	07:15 hr	0.0030	0.046
1294	962.80	956.97	09:00 hr	0.0076	0.598
1380	998.13	984.20	07:00 hr	0.0181	0.093
1382	995.45	983.54	32:00 hr	0.0171	0.361
1384	994.57	983.01	08:00 hr	0.0035	0.353
1386	996.28	983.82	07:15 hr	0.0063	0.052
1396	980.50	974.21	07:00 hr	0.0181	0.063
1398	980.50	971.08	08:00 hr	0.0005	0.257
1400	992.50	983.49	07:15 hr	0.0016	0.065
1402	995.26	984.78	07:15 hr	0.0054	0.050
1404	984.10	982.91	07:30 hr	0.0022	0.106
1406	993.00	984.06	07:15 hr	0.0152	0.078
1408	995.38	982.65	07:45 hr	0.0005	0.108
1410	992.80	985.25	07:15 hr	0.0006	0.015
1412	991.50	983.80	07:15 hr	0.0026	0.039
1414	992.50	982.60	08:30 hr	0.0007	0.174
1416	992.31	984.57	08:15 hr	0.0235	0.149
1418	993.11	985.38	08:00 hr	0.0260	0.109
1420	991.77	983.53	08:30 hr	0.0078	0.159
1422	994.42	982.42	08:30 hr	0.0000	0.166
1424	978.78	964.93	09:00 hr	0.0000	0.826
1426	978.70	965.74	09:00 hr	0.0000	0.487
1428	978.00	965.94	09:00 hr	0.0002	0.673
1430	976.93	964.92	09:00 hr	0.0000	1.171
1432	983.51	965.95	20:00 hr	0.0147	0.369
1434	976.22	964.36	09:00 hr	0.0010	0.937
1436	983.95	965.15	20:00 hr	0.0046	0.194
1438	981.96	963.77	09:00 hr	0.0034	1.077
1440	969.55	957.19	09:00 hr	0.0003	0.523
1442	972.30	958.43	20:00 hr	0.0510	0.087
1444	969.65	956.89	09:00 hr	0.0127	1.038
1446	972.51	958.50	09:00 hr	0.0048	1.156
1448	974.93	959.53	09:00 hr	0.0026	1.103
1450	975.55	960.24	20:00 hr	0.0249	0.403
1452	976.98	960.48	09:00 hr	0.0023	1.151
1454	977.26	961.26	20:00 hr	0.0508	0.614
1456	978.26	961.39	09:00 hr	0.0021	1.133

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
1458	978.45	961.95	20:00 hr	0.0447	0.566
1460	979.23	962.21	09:00 hr	0.0019	1.201
1462	979.77	962.83	20:00 hr	0.0300	0.447
1464	980.33	963.01	09:00 hr	0.0021	1.157
1466	981.69	963.36	20:15 hr	0.0139	0.096
1468	979.74	969.19	08:45 hr	0.0008	0.169
1470	982.02	969.19	08:45 hr	0.0011	0.139
1472	982.51	971.84	08:45 hr	0.0015	0.569
1474	984.67	972.72	08:45 hr	0.0015	0.406
1476	988.21	975.13	08:45 hr	0.0018	0.385
1478	988.89	978.10	08:45 hr	0.0041	0.733
1480	989.31	978.10	08:45 hr	0.0063	0.163
1482	989.55	978.70	08:45 hr	0.0164	0.518
1484	989.50	979.83	08:30 hr	0.0146	0.437
1486	991.45	979.92	07:15 hr	0.0022	0.033
1488	992.21	981.05	08:45 hr	0.0006	0.237
1490	993.43	981.43	07:00 hr	0.0175	0.088
1492	992.53	981.57	08:30 hr	0.0095	0.223
1494	992.86	982.45	08:30 hr	0.0006	0.127
1496	994.49	982.76	07:15 hr	0.0181	0.091
1498	993.54	983.27	20:30 hr	0.0004	0.131
1500	995.17	983.84	20:15 hr	0.0101	0.069
1502	995.40	984.00	20:00 hr	0.0058	0.053
1504	995.76	984.60	20:15 hr	0.0063	0.094
1508	975.00	966.89	07:45 hr	0.0000	0.124
1510	974.35	967.62	07:45 hr	0.0096	0.137
1512	985.93	983.42	07:15 hr	0.0028	0.025
1514	985.93	981.44	07:15 hr	0.0034	0.039
1516	985.93	979.65	07:30 hr	0.0028	0.046
1518	985.93	978.53	07:45 hr	0.0006	0.029
1520	985.90	974.94	07:30 hr	0.0048	0.103
1522	984.50	980.57	07:15 hr	0.0106	0.068
1524	984.50	979.59	07:15 hr	0.0084	0.093
1526	984.50	978.51	07:30 hr	0.0111	0.114
1528	983.67	976.62	07:45 hr	0.0062	0.116
1530	981.81	974.41	07:45 hr	0.0050	0.113
1532	981.80	972.49	08:00 hr	0.0015	0.086
1534	979.00	965.97	09:00 hr	0.0031	0.669
1536	985.01	980.78	08:15 hr	0.0015	0.023
1538	985.01	979.79	08:15 hr	0.0011	0.030
1540	985.01	978.87	08:30 hr	0.0010	0.036
1542	985.01	978.18	08:30 hr	0.0026	0.043
1544	985.01	977.17	08:30 hr	0.0046	0.077
1546	984.47	976.47	08:45 hr	0.0069	0.098
1548	985.90	981.09	08:15 hr	0.0009	0.040
1550	986.00	981.68	08:15 hr	0.0039	0.037
1552	985.90	980.09	08:30 hr	0.0009	0.044
1554	986.10	979.10	08:30 hr	0.0007	0.038
1556	983.51	977.61	08:30 hr	0.0012	0.059
1558	984.02	977.04	08:30 hr	0.0020	0.082
1560	984.70	974.28	08:45 hr	0.0040	0.117
1562	984.00	973.93	08:45 hr	0.0014	0.094
1564	985.10	973.85	07:45 hr	0.0049	0.183
1566	953.81	944.60	09:15 hr	0.0095	1.064
1568	953.48	945.05	09:15 hr	0.0184	1.303
1570	949.43	939.55	09:00 hr	0.0034	0.295
1572	952.59	937.81	33:45 hr	0.0012	1.366
1574	946.73	940.31	09:00 hr	0.0053	0.291
1576	965.60	958.56	08:15 hr	0.0020	0.042
1578	969.56	963.22	08:15 hr	0.0015	0.018
1580	964.05	957.83	08:30 hr	0.0021	0.053
1582	962.25	957.10	08:30 hr	0.0018	0.060
1584	962.65	956.24	08:45 hr	0.0008	0.063
1586	961.30	955.47	08:45 hr	0.0016	0.069
1588	959.67	954.56	09:00 hr	0.0034	0.080
1590	960.79	953.81	08:45 hr	0.0057	0.095
1592	961.51	953.03	08:45 hr	0.0040	0.104
1594	962.55	952.17	08:45 hr	0.0037	0.112

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
1596	962.67	951.42	33:00 hr	0.0035	0.119
1598	962.01	950.65	09:00 hr	0.0054	0.129
1600	960.95	949.81	09:00 hr	0.0068	0.142
1602	962.01	949.10	09:00 hr	0.0048	0.149
1604	959.59	948.39	09:00 hr	0.0036	0.155
1606	958.80	947.49	09:00 hr	0.0038	0.190
1608	956.66	948.36	08:15 hr	0.0088	0.103
1610	955.04	949.30	08:15 hr	0.0140	0.082
1612	957.47	946.47	08:45 hr	0.0023	0.193
1614	955.20	945.60	08:45 hr	0.0041	0.198
1616	954.22	944.70	09:00 hr	0.0056	0.205
1618	953.17	943.79	09:00 hr	0.0089	0.215
1620	951.45	942.84	09:00 hr	0.0107	0.227
1622	952.42	941.83	09:00 hr	0.0527	0.280
1624	949.39	941.07	09:00 hr	0.0072	0.287
1628	912.48	904.36	10:00 hr	0.0050	0.671
1642	950.39	942.33	06:15 hr	0.0001	0.008
1644	950.07	941.83	08:00 hr	0.0002	0.008
1646	949.74	940.67	09:00 hr	0.0007	0.388
1648	949.51	940.15	21:00 hr	0.0012	0.205
1650	949.55	939.42	21:00 hr	0.0004	0.208
1652	950.36	941.14	21:00 hr	0.0019	0.215
1654	951.51	942.47	44:45 hr	0.0012	0.212
1656	948.73	940.54	20:45 hr	0.0043	0.111
1658	949.67	942.01	20:30 hr	0.0104	0.101
1660	950.54	943.22	20:15 hr	0.0115	0.077
1662	951.32	944.02	20:15 hr	0.0011	0.024
1664	952.11	945.13	20:15 hr	0.0014	0.023
1666	951.63	942.08	20:15 hr	0.0018	0.035
1668	952.31	941.31	09:00 hr	0.0016	0.456
1670	952.53	945.40	20:00 hr	0.0010	0.017
1672	942.25	932.48	08:45 hr	0.0003	0.097
1674	944.85	932.78	08:45 hr	0.0003	0.103
1676	945.24	936.31	20:15 hr	0.0012	0.034
1678	944.17	937.44	20:15 hr	0.0012	0.024
1680	945.51	935.97	20:30 hr	0.0009	0.037
1682	943.43	935.14	08:30 hr	0.0017	0.068
1684	941.28	934.17	08:30 hr	0.0007	0.088
1686	940.96	934.09	08:45 hr	0.0010	0.071
1688	945.51	936.92	08:15 hr	0.0006	0.040
1690	943.43	937.24	08:00 hr	0.0014	0.025
1692	946.30	937.25	08:15 hr	0.0007	0.036
1694	945.99	937.55	08:15 hr	0.0018	0.033
1696	945.29	937.72	07:00 hr	0.0024	0.032
1698	944.32	936.67	08:00 hr	0.0012	0.038
1700	943.96	935.05	08:15 hr	0.0015	0.095
1702	944.39	934.86	08:30 hr	0.0019	0.052
1704	945.32	933.23	08:30 hr	0.0010	0.058
1706	943.71	933.18	20:45 hr	0.0011	0.069
1726	968.50	963.10	07:15 hr	0.0019	0.047
1728	968.50	963.43	07:15 hr	0.0073	0.043
1730	966.83	961.38	07:30 hr	0.0054	0.088
1732	962.70	958.68	07:45 hr	0.0116	0.137
1734	972.50	969.58	07:15 hr	0.0021	0.032
1736	974.48	969.42	07:15 hr	0.0003	0.063
1738	974.80	969.81	07:00 hr	0.0058	0.052
1740	972.50	969.55	07:15 hr	0.0007	0.020
1742	974.52	968.86	07:30 hr	0.0008	0.083
1744	974.87	969.28	07:15 hr	0.0058	0.051
1746	974.16	968.42	07:45 hr	0.0032	0.090
1748	992.60	981.24	08:30 hr	0.0040	0.406
1750	993.60	981.85	08:15 hr	0.0056	0.381
1752	994.56	982.50	08:15 hr	0.0014	0.377
1754	992.84	981.83	07:45 hr	0.0014	0.670
1756	994.98	983.04	20:45 hr	0.0003	0.293
1758	997.10	983.53	07:15 hr	0.0047	0.078
1760	957.24	946.74	08:45 hr	0.0002	0.174
1762	960.09	946.38	08:45 hr	0.0005	0.180

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
1764	999.00	988.95	07:00 hr	0.0189	0.077
1766	1005.20	999.21	08:15 hr	0.0021	0.031
1768	1005.70	998.42	20:15 hr	0.0008	0.043
1770	1005.00	998.03	08:15 hr	0.0020	0.032
1772	1005.10	997.56	20:45 hr	0.0012	0.059
1774	1003.80	996.48	20:45 hr	0.0010	0.066
1776	1003.40	997.04	08:15 hr	0.0021	0.030
1778	1004.90	998.76	07:00 hr	0.0070	0.058
1780	1005.30	997.89	08:00 hr	0.0007	0.056
1782	1005.40	997.72	08:15 hr	0.0003	0.062
1784	1005.70	997.50	08:15 hr	0.0004	0.063
1786	1005.90	997.11	08:15 hr	0.0002	0.061
1788	1005.90	999.04	20:15 hr	0.0006	0.018
1790	1005.40	998.08	20:30 hr	0.0009	0.046
1792	1004.60	996.03	20:45 hr	0.0004	0.067
1794	1004.20	995.85	20:45 hr	0.0009	0.073
1796	1006.10	996.71	08:30 hr	0.0007	0.065
1798	1003.41	996.05	08:30 hr	0.0004	0.074
1800	1003.50	997.43	08:15 hr	0.0015	0.028
1802	1004.30	996.48	20:15 hr	0.0012	0.034
1804	1004.80	995.68	08:30 hr	0.0006	0.078
1806	1005.20	995.32	08:30 hr	0.0007	0.078
1808	1005.00	994.88	08:45 hr	0.0010	0.079
1810	1004.20	993.99	08:45 hr	0.0012	0.113
1812	1003.90	994.98	20:45 hr	0.0008	0.068
1814	1003.80	994.74	20:45 hr	0.0006	0.076
1816	1006.40	993.38	08:45 hr	0.0011	0.161
1818	1002.80	996.95	07:15 hr	0.0242	0.104
1820	1003.46	996.03	32:00 hr	0.0017	0.109
1822	1003.06	995.56	08:15 hr	0.0007	0.109
1824	1003.60	995.59	20:15 hr	0.0005	0.034
1826	1002.87	996.11	20:00 hr	0.0021	0.032
1828	1003.79	995.25	20:30 hr	0.0004	0.039
1830	1003.51	994.88	20:30 hr	0.0010	0.043
1832	1003.34	993.86	20:45 hr	0.0016	0.052
1834	1002.31	993.14	20:45 hr	0.0014	0.240
1836	1005.47	992.53	20:45 hr	0.0012	0.295
1838	1001.82	994.12	20:30 hr	0.0011	0.224
1840	1001.85	994.29	20:30 hr	0.0234	0.220
1842	1002.47	996.81	20:00 hr	0.0618	0.164
1844	1002.90	995.58	20:15 hr	0.0351	0.209
1846	1005.13	994.92	08:15 hr	0.0008	0.111
1848	1005.18	994.28	08:15 hr	0.0009	0.112
1966	980.29	966.78	07:45 hr	0.0022	0.085
1968	987.65	965.27	07:45 hr	0.0022	0.085
1970	990.21	967.31	07:15 hr	0.0030	0.034
1972	979.93	969.60	07:30 hr	0.0027	0.072
1974	979.28	972.53	07:15 hr	0.0035	0.055
1976	992.14	972.66	07:15 hr	0.0057	0.032
1978	984.43	974.12	07:00 hr	0.0048	0.031
1980	978.60	969.85	07:45 hr	0.0047	0.080
1982	986.49	966.19	07:45 hr	0.0036	0.084
1984	985.39	972.79	07:15 hr	0.0032	0.028
1986	978.88	971.44	07:30 hr	0.0024	0.062
1988	978.60	974.22	07:15 hr	0.0033	0.051
1990	984.80	972.52	07:00 hr	0.0021	0.022
1992	984.76	971.83	07:15 hr	0.0003	0.026
1994	983.95	974.48	07:00 hr	0.0042	0.033
1996	908.00	899.94	07:45 hr	0.0204	0.444
1998	908.00	900.79	07:30 hr	0.2047	0.429
2000	910.00	898.71	08:00 hr	0.0168	0.412
2002	912.39	896.67	32:00 hr	0.0166	1.037
2004	989.50	981.39	07:15 hr	0.0144	0.109
2006	991.25	981.84	07:15 hr	0.0236	0.086
2008	989.00	978.35	07:30 hr	0.0359	0.174
2010	985.00	976.78	07:45 hr	0.0215	0.198
2012	984.50	975.19	07:45 hr	0.0114	0.209
2014	989.37	973.97	08:30 hr	0.0002	0.347

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
2016	989.30	979.04	07:15 hr	0.0075	0.060
2018	988.53	982.01	07:15 hr	0.0154	0.055
2020	989.60	974.87	07:30 hr	0.0209	0.143
2022	985.47	974.11	07:45 hr	0.0239	0.176
2024	981.03	973.17	07:45 hr	0.0161	0.194
2026	982.50	972.78	08:00 hr	0.0041	0.201
2028	985.00	972.13	08:45 hr	0.0001	0.340
2044	984.35	975.50	07:30 hr	0.0011	0.106
2046	985.00	977.14	07:15 hr	0.0140	0.063
2058	938.50	932.13	07:45 hr	0.0018	0.144
2060	939.38	931.88	09:00 hr	0.0038	0.407
2070	940.80	933.76	07:30 hr	0.0061	0.121
2072	938.48	935.07	07:15 hr	0.0025	0.135
2074	937.88	935.45	07:15 hr	0.0361	0.131
2080	957.77	948.34	07:45 hr	0.0043	0.079
2082	958.82	952.25	07:00 hr	0.0038	0.034
2084	958.88	950.12	08:00 hr	0.0013	0.043
2086	959.71	953.14	07:00 hr	0.0028	0.029
2088	958.61	949.66	08:00 hr	0.0008	0.049
2090	960.12	952.51	20:15 hr	0.0005	0.011
2092	956.47	947.32	07:45 hr	0.0023	0.081
2094	956.39	947.05	07:45 hr	0.0017	0.085
2096	955.95	946.38	08:00 hr	0.0024	0.091
2098	955.70	945.92	08:00 hr	0.0014	0.094
2100	955.53	945.47	31:45 hr	0.0019	0.098
2102	954.62	944.37	32:00 hr	0.0039	0.106
2104	955.23	942.81	08:00 hr	0.0027	0.112
2106	955.48	947.59	07:00 hr	0.0009	0.018
2108	954.96	942.01	08:00 hr	0.0037	0.119
2110	954.89	940.91	08:00 hr	0.0018	0.122
2112	954.99	940.67	08:00 hr	0.0011	0.124
2114	955.44	939.89	08:00 hr	0.0022	0.104
2116	955.72	947.75	07:15 hr	0.0023	0.027
2118	955.15	935.13	32:00 hr	0.0008	0.136
2184	1028.71	1012.05	45:00 hr	0.0373	0.785
2188	1024.69	1010.33	32:45 hr	0.1003	0.910
2192	1023.02	1009.50	32:45 hr	0.0615	0.963
2218	962.70	957.44	08:00 hr	0.0103	0.301
2220	962.67	958.25	32:00 hr	0.0088	0.249
2222	967.50	959.99	08:15 hr	0.0052	0.567
2224	966.15	959.60	08:45 hr	0.0017	0.427
2226	965.20	958.92	08:45 hr	0.0010	0.488
2228	964.50	958.39	08:45 hr	0.0033	0.489
2230	963.80	957.77	08:45 hr	0.0041	0.510
2232	963.00	956.09	09:00 hr	0.0131	0.615
2234	963.30	955.22	09:00 hr	0.0285	0.631
2236	962.80	954.05	09:00 hr	0.0286	0.481
2238	963.00	953.07	09:00 hr	0.0065	0.686
2242	958.80	953.53	07:15 hr	0.0391	0.128
2244	994.60	977.14	33:30 hr	0.0001	2.021
2246	994.73	976.37	33:30 hr	0.0000	1.308
2248	1015.95	1004.81	33:00 hr	0.0000	1.285
2250	1017.77	1006.70	33:00 hr	0.0023	1.286
2252	1015.07	1003.24	33:00 hr	0.0000	1.285
2254	1011.95	1001.10	33:00 hr	0.0000	1.285
2256	1010.61	999.25	33:00 hr	0.0000	1.284
2258	1009.32	997.62	33:00 hr	0.0000	1.286
2260	1007.75	995.96	33:15 hr	0.0000	1.273
2262	1008.61	994.82	33:15 hr	0.0000	1.268
2264	1007.29	993.63	33:15 hr	0.0000	1.284
2266	999.47	985.77	33:15 hr	0.0125	1.295
2268	997.70	984.19	33:15 hr	0.0063	1.310
2270	997.38	984.00	33:15 hr	0.0000	1.332
2272	995.70	982.44	33:15 hr	0.0015	1.331
2274	996.30	982.15	33:15 hr	0.0006	1.339
2276	993.90	981.18	33:15 hr	0.0006	1.374
2278	996.10	981.05	33:15 hr	0.0003	1.354
2280	993.44	979.47	33:15 hr	0.0022	1.188

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
2282	993.60	979.42	33:15 hr	0.0026	1.367
2284	981.82	966.21	33:30 hr	0.0000	1.281
2286	982.11	966.21	33:30 hr	0.0048	1.281
2288	982.14	964.93	00:00 hr	0.0000	0.000
2290	981.82	966.21	33:30 hr	0.0011	1.281
2292	957.90	945.50	33:45 hr	0.0010	1.100
2294	958.35	945.47	33:45 hr	0.0016	1.354
2296	952.60	942.92	33:45 hr	0.0016	1.331
2298	956.82	943.10	33:45 hr	0.0016	1.458
2304	907.80	897.94	08:00 hr	0.0460	0.371
2306	908.00	897.85	08:00 hr	0.0081	0.326
2308	995.37	984.62	20:15 hr	0.0197	0.102
2310	981.00	968.49	09:00 hr	0.0049	0.404
2312	982.00	969.38	09:00 hr	0.0033	0.417
2314	982.00	969.94	09:00 hr	0.0030	0.784
2316	982.00	970.00	09:00 hr	0.0031	0.453
2318	982.00	970.65	09:00 hr	0.0021	0.416
2320	983.00	970.82	09:00 hr	0.0023	0.403
2322	979.86	971.35	07:45 hr	0.0066	0.199
2324	979.63	972.29	32:00 hr	0.0041	0.101
2326	981.00	969.64	08:00 hr	0.0115	0.222
2328	982.08	969.72	08:00 hr	0.0158	0.292
2330	987.48	971.15	33:30 hr	0.0000	1.244
2332	988.31	971.82	33:30 hr	0.0005	1.535
2334	952.94	939.49	33:45 hr	0.0017	1.243
2336	955.24	940.56	33:45 hr	0.0010	1.631
2338	953.60	936.96	33:45 hr	0.0021	1.382
2340	948.72	934.36	33:45 hr	0.0012	1.220
2342	947.89	934.06	33:45 hr	0.0031	1.426
2344	922.40	915.50	09:00 hr	0.0024	0.723
2346	922.00	915.69	33:00 hr	0.0040	0.670
2348	915.06	906.67	09:15 hr	0.0025	0.692
2350	914.75	906.92	09:30 hr	0.0026	0.826
2352	912.97	904.36	10:00 hr	0.0007	0.758
2354	912.52	904.36	10:00 hr	0.0007	0.708
2356	971.45	957.52	33:30 hr	0.0036	1.129
2358	970.79	956.59	33:30 hr	0.0007	1.396
2360	989.13	973.65	33:30 hr	0.0009	1.190
2362	990.34	974.33	33:30 hr	0.0010	1.244
2364	986.36	970.03	33:30 hr	0.0019	1.270
2366	983.06	966.88	33:30 hr	0.0003	1.340
2368	982.37	966.90	33:30 hr	0.0005	0.834
2370	916.53	903.42	07:30 hr	0.0083	0.082
2372	914.27	903.43	07:30 hr	0.0026	0.044
2384	965.10	962.37	07:00 hr	0.0022	0.033
2386	982.30	977.50	20:30 hr	0.0006	0.071
2388	982.87	978.56	08:15 hr	0.0015	0.026
2390	963.01	949.24	20:45 hr	0.0005	0.115
2392	963.71	955.92	08:15 hr	0.0004	0.023
2394	938.26	921.85	34:00 hr	0.0033	1.660
2396	937.89	921.07	34:00 hr	0.0031	1.660
2398	937.46	927.38	20:45 hr	0.0013	0.123
2400	936.74	926.61	20:45 hr	0.0012	0.110
2402	938.50	930.12	20:15 hr	0.0023	0.024
2404	974.50	963.84	08:15 hr	0.0062	0.036
2406	974.20	960.13	33:30 hr	0.0003	1.285
2408	975.12	964.57	20:15 hr	0.0047	0.044
2410	993.40	978.39	33:30 hr	0.0083	1.392
2412	992.56	977.31	33:30 hr	0.0060	1.759
2414	993.47	980.31	33:15 hr	0.0031	1.343
2416	996.29	983.53	33:15 hr	0.0024	1.336
2418	1001.71	988.91	33:15 hr	0.0000	1.284
2420	1003.59	990.26	33:15 hr	0.0000	1.281
2422	1009.29	991.71	33:15 hr	0.0000	1.283
2424	1018.63	1006.83	32:00 hr	0.0170	0.544
2426	1021.58	1008.03	32:00 hr	0.0211	0.680
2428	1019.20	1009.26	07:45 hr	0.0433	0.702
2430	1020.60	1010.66	07:45 hr	0.0331	0.662

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
2432	963.43	945.30	08:45 hr	0.0004	0.156
2434	962.56	945.17	08:00 hr	0.0002	0.320
2436	962.12	945.75	08:45 hr	0.0007	0.159
2438	963.01	955.66	20:00 hr	0.0016	0.022
2440	961.70	945.99	08:45 hr	0.0010	0.276
2442	962.52	954.65	20:15 hr	0.0010	0.027
2444	960.55	946.86	08:45 hr	0.0019	0.147
2446	961.96	955.88	20:00 hr	0.0011	0.014
2448	960.51	952.00	20:15 hr	0.0009	0.023
2450	960.38	951.66	08:15 hr	0.0021	0.040
2452	959.54	950.54	08:30 hr	0.0048	0.066
2454	962.50	947.74	08:45 hr	0.0014	0.132
2456	962.50	948.00	20:45 hr	0.0006	0.121
2458	960.07	952.71	08:00 hr	0.0045	0.036
2460	964.35	956.65	08:15 hr	0.0003	0.019
2462	964.56	956.94	07:00 hr	0.0016	0.026
2464	964.87	958.10	20:00 hr	0.0005	0.013
2466	963.78	949.98	20:45 hr	0.0006	0.117
2468	964.35	957.41	20:15 hr	0.0000	0.015
2470	964.90	958.10	20:00 hr	0.0006	0.015
2472	964.12	956.56	20:30 hr	0.0000	0.012
2474	964.66	957.77	20:00 hr	0.0004	0.012
2476	963.90	956.93	08:15 hr	0.0003	0.026
2478	964.37	957.40	07:00 hr	0.0020	0.027
2480	964.28	957.27	20:15 hr	0.0008	0.017
2482	962.66	948.83	20:45 hr	0.0003	0.126
2484	962.77	950.01	20:30 hr	0.0000	0.011
2486	963.05	953.05	20:15 hr	0.0000	0.009
2488	963.29	956.29	00:00 hr	0.0000	0.000
2490	963.15	956.36	20:00 hr	0.0006	0.012
2492	961.58	948.78	20:15 hr	0.0006	0.026
2494	961.99	948.51	20:45 hr	0.0000	0.110
2496	959.95	953.02	20:00 hr	0.0013	0.018
2498	962.70	955.76	20:15 hr	0.0009	0.013
2500	963.26	949.63	20:45 hr	0.0006	0.118
2502	962.98	950.70	20:45 hr	0.0006	0.097
2504	964.23	956.44	20:00 hr	0.0009	0.012
2506	963.32	954.27	20:15 hr	0.0006	0.016
2508	963.23	951.24	20:45 hr	0.0000	0.094
2510	962.02	955.49	20:00 hr	0.0012	0.022
2512	963.75	954.13	20:15 hr	0.0003	0.013
2514	964.18	957.67	20:00 hr	0.0006	0.011
2516	963.56	952.92	20:30 hr	0.0000	0.012
2518	963.73	951.35	20:45 hr	0.0000	0.102
2520	962.45	950.87	20:45 hr	0.0006	0.120
2522	964.21	951.51	20:45 hr	0.0000	0.094
2524	967.80	951.69	20:45 hr	0.0000	0.093
2526	962.51	948.31	20:45 hr	0.0003	0.126
2528	962.49	955.15	20:45 hr	0.0006	0.031
2530	963.77	956.78	20:30 hr	0.0007	0.027
2532	962.65	954.60	20:45 hr	0.0003	0.047
2534	964.22	957.85	20:15 hr	0.0009	0.023
2536	964.40	957.67	20:15 hr	0.0007	0.022
2538	961.79	955.30	20:15 hr	0.0006	0.024
2540	961.11	955.76	20:15 hr	0.0004	0.016
2542	962.42	954.77	20:30 hr	0.0003	0.030
2544	962.07	955.04	20:30 hr	0.0004	0.028
2546	964.02	953.51	20:45 hr	0.0015	0.058
2548	963.49	952.51	20:45 hr	0.0009	0.087
2550	962.94	954.32	20:45 hr	0.0007	0.051
2552	962.94	954.51	20:30 hr	0.0013	0.034
2554	962.15	953.40	08:30 hr	0.0017	0.068
2556	961.96	954.82	20:30 hr	0.0004	0.021
2558	961.36	954.99	20:15 hr	0.0003	0.020
2560	960.72	955.36	20:00 hr	0.0003	0.013
2562	960.55	955.60	20:00 hr	0.0006	0.018
2564	960.84	955.09	08:15 hr	0.0023	0.037
2566	959.75	954.00	08:30 hr	0.0039	0.059

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
2568	962.76	952.71	08:30 hr	0.0008	0.066
2570	964.22	952.01	20:45 hr	0.0006	0.075
2576	976.80	961.53	07:15 hr	0.0025	0.033
2578	974.00	968.58	07:15 hr	0.0071	0.029
2580	976.20	960.24	07:30 hr	0.0026	0.466
2582	976.59	962.02	07:15 hr	0.0350	0.105
2584	973.70	961.52	07:15 hr	0.0342	0.395
2586	976.29	961.90	07:00 hr	0.2675	0.673
2588	977.06	959.53	07:45 hr	0.0117	0.293
2602	924.35	917.94	07:15 hr	0.0011	0.192
2604	926.38	918.52	07:00 hr	0.0727	0.667
2606	926.49	918.33	07:00 hr	0.0114	0.405
2608	923.70	916.79	07:30 hr	0.0124	0.207
2610	979.48	971.50	20:45 hr	0.0015	0.078
2612	978.43	969.49	20:45 hr	0.0019	0.260
2614	980.06	972.66	20:15 hr	0.0032	0.045
2616	981.32	974.29	20:00 hr	0.0034	0.037
2618	981.33	973.39	20:15 hr	0.0020	0.042
2620	980.65	972.76	20:45 hr	0.0008	0.070
2622	982.29	975.39	20:15 hr	0.0016	0.023
2624	980.99	973.45	20:45 hr	0.0013	0.054
2626	981.24	973.71	20:45 hr	0.0010	0.057
2628	980.46	972.59	20:45 hr	0.0005	0.078
2630	980.25	972.34	20:45 hr	0.0009	0.074
2632	979.87	971.85	20:45 hr	0.0007	0.071
2634	981.48	974.19	20:45 hr	0.0010	0.044
2636	981.80	974.63	20:30 hr	0.0010	0.040
2638	982.16	975.06	20:15 hr	0.0013	0.034
2640	982.47	975.61	20:00 hr	0.0010	0.023
2642	982.26	973.66	08:45 hr	0.0017	0.106
2644	982.81	974.83	08:45 hr	0.0006	0.089
2646	982.95	975.16	08:30 hr	0.0011	0.092
2648	983.47	975.68	08:30 hr	0.0015	0.093
2650	983.83	976.29	08:15 hr	0.0021	0.083
2652	984.19	976.92	08:15 hr	0.0062	0.080
2654	985.04	978.04	08:15 hr	0.0076	0.060
2656	981.78	973.63	20:45 hr	0.0015	0.054
2658	981.06	972.82	20:45 hr	0.0016	0.119
2660	982.19	974.49	20:30 hr	0.0018	0.048
2662	982.84	975.72	20:15 hr	0.0028	0.041
2664	983.92	976.88	20:15 hr	0.0017	0.029
2666	983.29	976.08	20:00 hr	0.0023	0.028
2668	981.94	973.36	08:30 hr	0.0012	0.105
2670	980.55	971.87	20:45 hr	0.0013	0.116
2672	980.39	971.84	20:30 hr	0.0017	0.048
2674	979.46	970.80	20:45 hr	0.0016	0.143
2676	981.35	973.50	20:15 hr	0.0028	0.043
2678	982.85	975.98	20:00 hr	0.0031	0.033
2680	981.35	973.45	20:15 hr	0.0021	0.033
2682	982.28	975.53	20:00 hr	0.0014	0.021
2684	980.09	971.47	20:45 hr	0.0014	0.130
2686	978.74	969.84	20:45 hr	0.0023	0.168
2688	980.12	972.40	20:15 hr	0.0035	0.048
2690	981.37	974.47	20:00 hr	0.0037	0.036
2692	979.68	971.52	20:30 hr	0.0025	0.056
2694	978.39	969.57	20:45 hr	0.0013	0.154
2696	977.83	968.98	20:45 hr	0.0011	0.342
2698	983.80	976.36	20:15 hr	0.0211	0.173
2700	984.74	977.73	20:15 hr	0.0671	0.145
2702	983.11	975.18	20:30 hr	0.0303	0.196
2704	981.73	972.63	20:45 hr	0.0623	0.240
2706	978.78	969.96	20:45 hr	0.0032	0.243
2708	978.23	967.53	20:30 hr	0.0092	0.084
2710	976.41	963.66	45:00 hr	0.0046	0.431
2712	979.06	969.56	20:15 hr	0.0070	0.070
2714	980.50	972.56	20:15 hr	0.0104	0.054
2716	978.51	970.43	20:45 hr	0.0042	0.068
2718	976.93	969.10	20:45 hr	0.0047	0.058

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
2720	978.95	970.91	20:30 hr	0.0022	0.053
2722	979.32	971.31	20:15 hr	0.0020	0.042
2724	979.54	971.68	20:00 hr	0.0016	0.028
2726	978.55	967.92	20:45 hr	0.0075	0.846
2728	979.13	971.16	20:00 hr	0.0030	0.027
2730	976.41	965.35	21:00 hr	0.0104	0.390
2732	970.09	960.26	21:00 hr	0.0032	0.248
2734	967.84	955.64	09:00 hr	0.0287	1.122
2736	972.31	963.51	20:45 hr	0.0082	0.086
2738	970.51	962.27	21:00 hr	0.0047	0.191
2740	974.02	964.49	20:30 hr	0.0027	0.064
2742	974.66	964.86	20:30 hr	0.0016	0.054
2744	975.31	965.24	20:15 hr	0.0015	0.049
2746	975.83	965.55	20:00 hr	0.0037	0.041
2748	979.37	972.71	20:00 hr	0.0007	0.020
2750	979.15	972.41	20:15 hr	0.0012	0.031
2752	978.70	971.87	20:30 hr	0.0030	0.048
2754	978.18	971.32	20:30 hr	0.0037	0.064
2756	977.82	970.78	20:45 hr	0.0031	0.074
2758	976.74	969.43	20:45 hr	0.0053	0.088
2760	975.67	968.07	20:45 hr	0.0030	0.095
2762	975.04	967.77	20:45 hr	0.0018	0.109
2764	975.73	968.09	20:00 hr	0.0063	0.055
2766	974.71	966.91	21:00 hr	0.0027	0.239
2768	980.88	973.82	20:45 hr	0.0043	0.116
2770	982.62	975.67	20:30 hr	0.0049	0.057
2772	984.53	977.58	20:15 hr	0.0029	0.043
2774	986.21	979.16	20:00 hr	0.0019	0.029
2776	985.10	976.82	20:30 hr	0.0032	0.075
2778	985.87	979.15	20:15 hr	0.0017	0.023
2780	986.28	978.21	20:15 hr	0.0033	0.055
2782	988.20	981.37	20:00 hr	0.0025	0.029
2784	983.04	975.51	20:45 hr	0.0036	0.079
2786	985.78	978.97	20:00 hr	0.0017	0.030
2788	981.78	974.58	20:30 hr	0.0026	0.066
2790	980.18	973.15	20:45 hr	0.0064	0.148
2792	983.17	975.90	20:15 hr	0.0035	0.056
2794	984.40	977.43	20:00 hr	0.0030	0.037
2796	980.42	973.33	20:30 hr	0.0028	0.056
2798	979.26	972.44	20:45 hr	0.0026	0.147
2800	981.27	974.14	20:30 hr	0.0012	0.044
2802	981.35	974.38	20:15 hr	0.0010	0.033
2804	982.23	975.14	20:00 hr	0.0019	0.031
2806	985.44	978.29	07:15 hr	0.0098	0.071
2808	986.77	979.85	08:15 hr	0.0030	0.036
2810	983.75	976.36	07:30 hr	0.0055	0.085
2812	983.29	975.92	32:00 hr	0.0011	0.084
2814	982.97	974.94	08:00 hr	0.0012	0.104
2816	978.59	971.69	20:45 hr	0.0014	0.235
2818	978.76	971.84	20:00 hr	0.0141	0.083
2820	978.85	972.01	20:45 hr	0.0016	0.148
2822	978.51	971.58	20:45 hr	0.0006	0.192
2824	978.92	971.41	20:45 hr	0.0010	0.174
2826	980.18	970.54	20:45 hr	0.0012	0.208
2828	975.48	964.89	21:00 hr	0.0460	0.401
2830	977.95	966.31	20:45 hr	0.0126	0.386
2832	978.50	966.72	20:45 hr	0.0088	0.377
2834	979.08	967.35	20:45 hr	0.0076	0.317
2836	977.70	967.95	20:45 hr	0.0072	0.633
2838	976.80	967.97	20:45 hr	0.0036	0.495
2840	978.82	968.24	20:45 hr	0.0058	0.348
2842	976.70	968.70	20:45 hr	0.0011	0.347
2844	977.59	968.46	20:45 hr	0.0022	0.360
2846	976.17	964.32	45:00 hr	0.0051	0.495
2848	972.42	962.21	45:00 hr	0.0158	0.473
2850	970.06	961.32	21:00 hr	0.0109	0.481
2852	973.59	962.61	45:00 hr	0.0103	0.464
2854	974.15	962.80	45:00 hr	0.0106	0.452

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
2856	974.90	963.03	45:00 hr	0.0044	0.455
2858	975.38	963.23	45:00 hr	0.0027	0.442
2860	971.72	963.34	45:00 hr	0.0071	0.255
2862	974.17	964.91	21:00 hr	0.0034	0.250
2864	974.69	965.22	21:00 hr	0.0011	0.247
2866	975.11	965.46	21:00 hr	0.0011	0.245
2868	975.36	965.90	21:00 hr	0.0040	0.240
2870	975.10	966.42	20:45 hr	0.0033	0.234
2872	979.13	969.88	20:45 hr	0.0012	0.210
2874	979.63	970.19	44:45 hr	0.0010	0.209
2876	976.71	968.87	20:45 hr	0.0061	0.211
2878	975.17	967.36	21:00 hr	0.0067	0.217
2880	983.45	976.32	08:00 hr	0.0012	0.066
2882	985.93	976.45	07:15 hr	0.0130	0.078
2884	980.71	971.37	08:15 hr	0.0017	0.109
2886	981.30	972.48	08:15 hr	0.0014	0.110
2888	981.84	973.55	32:00 hr	0.0017	0.109
2890	982.42	974.18	08:00 hr	0.0016	0.110
2892	961.55	948.61	45:00 hr	0.0010	0.116
2894	967.55	949.38	20:45 hr	0.0008	0.114
2896	960.45	947.76	20:45 hr	0.0008	0.117
2898	959.05	946.49	20:45 hr	0.0007	0.151
2900	962.78	945.82	21:00 hr	0.0017	0.144
2902	958.57	944.20	08:45 hr	0.0085	0.186
2904	967.86	949.78	45:00 hr	0.0009	0.112
2906	955.56	943.20	08:45 hr	0.0054	0.193
2908	960.81	943.11	08:45 hr	0.0013	0.194
2910	962.42	944.52	08:45 hr	0.0008	0.084
2912	962.29	950.15	08:00 hr	0.0007	0.013
2914	959.65	948.75	08:15 hr	0.0002	0.018
2916	957.37	949.12	08:15 hr	0.0002	0.019
2918	960.33	948.52	08:15 hr	0.0001	0.020
2920	960.98	948.01	08:30 hr	0.0015	0.034
2922	962.14	947.17	08:30 hr	0.0021	0.046
2924	959.78	946.10	08:30 hr	0.0012	0.067
2926	956.32	947.83	08:15 hr	0.0015	0.031
2928	955.54	948.66	06:15 hr	0.0004	0.015
2930	956.89	947.08	08:15 hr	0.0018	0.043
2932	957.84	946.25	08:30 hr	0.0017	0.051
2934	958.24	945.06	08:45 hr	0.0017	0.082
2936	956.90	949.43	06:00 hr	0.0002	0.011
2938	959.17	948.29	08:15 hr	0.0017	0.030
2940	959.03	946.70	08:15 hr	0.0013	0.043
2942	959.60	946.18	08:30 hr	0.0006	0.046
2944	949.31	939.49	09:00 hr	0.0000	0.211
2946	949.69	940.55	08:15 hr	0.0007	0.037
2948	947.83	941.64	20:15 hr	0.0035	0.041
2950	946.78	937.58	08:30 hr	0.0005	0.070
2952	948.15	938.53	08:15 hr	0.0013	0.078
2954	946.77	937.31	08:30 hr	0.0006	0.082
2956	946.34	939.79	08:15 hr	0.0123	0.073
2958	944.89	936.31	08:45 hr	0.0035	0.092
2960	947.19	938.31	00:00 hr	0.0000	0.000
2962	947.35	940.53	00:00 hr	0.0000	0.000
2964	943.55	935.40	08:30 hr	0.0233	0.130
2966	944.39	932.57	09:00 hr	0.0009	0.252
2968	944.70	934.32	08:45 hr	0.0014	0.117
2970	946.03	938.03	08:15 hr	0.0008	0.015
2972	955.73	947.62	32:00 hr	0.0037	0.078
2974	956.90	950.48	07:00 hr	0.0096	0.051
2976	955.40	946.72	08:15 hr	0.0033	0.087
2978	953.80	945.87	08:15 hr	0.0019	0.063
2980	955.90	947.38	20:15 hr	0.0023	0.045
2982	954.90	948.46	20:00 hr	0.0018	0.031
2984	957.50	946.25	08:30 hr	0.0047	0.064
2986	958.71	945.21	08:30 hr	0.0036	0.075
2988	959.32	946.22	20:45 hr	0.0000	0.136
2990	956.53	946.02	20:45 hr	0.0008	0.109

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
2992	956.82	946.27	20:45 hr	0.0008	0.138
2994	958.04	944.55	20:45 hr	0.0010	0.156
2996	957.83	944.19	20:45 hr	0.0016	0.159
2998	956.00	943.08	20:45 hr	0.0019	0.161
3000	953.30	933.14	08:30 hr	0.0011	1.742
3002	952.72	933.18	08:30 hr	0.0015	1.647
3004	952.34	927.80	08:30 hr	0.0343	0.869
3006	949.60	927.08	08:30 hr	0.0008	0.880
3008	951.64	930.29	07:15 hr	0.0246	0.101
3010	945.18	926.00	08:30 hr	0.0008	0.856
3012	948.13	929.19	07:15 hr	0.0248	0.102
3014	941.54	924.83	08:45 hr	0.0006	0.886
3016	944.78	926.16	07:15 hr	0.0218	0.099
3018	937.03	923.88	08:45 hr	0.0013	0.854
3020	941.91	925.47	07:15 hr	0.0188	0.092
3022	937.21	922.82	08:45 hr	0.0014	0.852
3024	938.83	924.22	07:15 hr	0.0151	0.083
3026	934.05	922.38	09:45 hr	0.0006	1.532
3028	935.00	922.38	09:45 hr	0.0181	0.983
3030	933.07	921.55	09:45 hr	0.0000	1.565
3032	934.19	924.47	07:15 hr	0.0065	0.054
3034	934.03	924.47	07:15 hr	0.0065	0.053
3036	933.60	920.55	09:45 hr	0.0000	1.564
3038	934.15	921.50	07:00 hr	0.0192	0.084
3040	933.99	921.50	07:00 hr	0.0196	0.084
3042	934.05	919.59	09:45 hr	0.0000	1.653
3044	935.75	920.69	07:15 hr	0.0263	0.110
3046	935.67	920.67	07:00 hr	0.0202	0.086
3048	937.89	918.82	09:45 hr	0.0000	1.456
3050	935.87	920.44	07:15 hr	0.0204	0.096
3052	936.24	920.42	07:15 hr	0.0127	0.076
3054	935.62	918.02	09:45 hr	0.0000	1.586
3056	934.65	919.34	07:15 hr	0.0135	0.079
3058	934.58	919.27	07:15 hr	0.0065	0.056
3060	933.03	917.58	10:00 hr	0.0000	1.927
3062	933.06	918.37	07:00 hr	0.0066	0.051
3064	932.99	917.58	10:00 hr	0.0004	1.690
3066	933.00	917.57	10:00 hr	0.0008	1.924
3180	955.18	943.24	20:45 hr	0.0013	0.208
3182	958.50	951.04	20:15 hr	0.0004	0.072
3184	955.53	950.55	20:30 hr	0.0003	0.103
3186	956.89	951.36	20:15 hr	0.0209	0.101
3188	954.19	949.76	20:30 hr	0.0017	0.088
3190	951.47	948.02	20:45 hr	0.0005	0.095
3192	951.28	947.91	20:45 hr	0.0014	0.170
3194	951.29	947.22	20:45 hr	0.0054	0.163
3196	953.10	946.31	20:45 hr	0.0065	0.177
3198	951.52	948.20	20:15 hr	0.0029	0.110
3200	954.67	948.55	20:00 hr	0.0318	0.119
3202	952.67	947.23	20:30 hr	0.0022	0.050
3204	954.43	948.49	20:15 hr	0.0013	0.023
3206	953.21	949.31	20:15 hr	0.0014	0.028
3208	949.18	943.67	20:45 hr	0.0010	0.211
3210	954.95	949.78	20:00 hr	0.0006	0.018
3212	951.08	944.19	20:45 hr	0.0006	0.049
3214	953.53	944.52	20:45 hr	0.0008	0.050
3216	952.01	944.75	20:45 hr	0.0008	0.050
3218	952.00	945.19	20:45 hr	0.0011	0.041
3220	953.42	947.92	20:30 hr	0.0011	0.028
3222	955.18	949.84	20:15 hr	0.0015	0.030
3224	956.16	950.54	20:00 hr	0.0006	0.016
3226	947.74	944.38	44:45 hr	0.0011	0.189
3228	949.38	944.82	44:45 hr	0.0020	0.177
3230	948.32	945.12	20:45 hr	0.0076	0.210
3232	964.38	956.94	20:15 hr	0.0004	0.070
3234	963.73	956.64	20:30 hr	0.0003	0.083
3236	964.98	957.27	20:00 hr	0.0145	0.082
3238	962.61	954.94	08:15 hr	0.0154	0.082

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
3240	961.46	954.38	08:30 hr	0.0008	0.102
3242	959.58	951.70	08:15 hr	0.0003	0.104
3244	958.80	951.66	08:30 hr	0.0005	0.130
3246	959.78	952.22	08:00 hr	0.0115	0.064
3248	956.39	949.52	08:45 hr	0.0014	0.129
3250	954.70	947.80	08:45 hr	0.0017	0.148
3252	957.68	950.65	08:45 hr	0.0011	0.134
3254	958.93	951.72	08:45 hr	0.0001	0.140
3256	962.89	955.84	20:45 hr	0.0018	0.076
3258	959.86	952.56	06:15 hr	0.0000	0.008
3260	959.22	952.23	08:30 hr	0.0000	0.026
3262	960.06	952.78	06:00 hr	0.0001	0.009
3264	958.61	951.36	08:30 hr	0.0000	0.023
3266	958.37	951.04	20:45 hr	0.0000	0.042
3268	958.86	951.82	08:30 hr	0.0000	0.022
3270	959.30	952.42	20:30 hr	0.0000	0.020
3272	959.97	953.22	20:15 hr	0.0007	0.024
3274	959.39	953.39	20:00 hr	0.0003	0.014
3276	960.70	953.43	20:15 hr	0.0010	0.025
3278	962.73	954.69	20:15 hr	0.0008	0.017
3280	959.37	952.25	20:30 hr	0.0005	0.034
3282	957.91	950.59	08:45 hr	0.0002	0.028
3284	958.90	951.78	20:30 hr	0.0005	0.033
3286	959.22	951.43	20:45 hr	0.0019	0.046
3288	959.87	952.68	20:45 hr	0.0009	0.057
3290	961.06	953.79	20:30 hr	0.0023	0.040
3292	959.38	952.49	20:45 hr	0.0007	0.046
3294	958.92	951.94	20:45 hr	0.0007	0.054
3296	962.51	955.51	20:15 hr	0.0011	0.028
3298	963.55	956.72	20:00 hr	0.0010	0.021
3300	963.64	951.14	09:00 hr	0.0000	1.076
3302	963.66	951.64	09:00 hr	0.0389	1.231
3304	965.29	953.69	09:00 hr	0.0536	0.997
3306	966.36	954.69	09:00 hr	0.0411	1.508
3308	967.62	951.14	09:00 hr	0.0023	0.276
3310	967.58	951.14	09:00 hr	0.0195	1.036
3312	963.38	950.74	09:00 hr	0.0007	0.987
3314	967.39	951.14	07:15 hr	0.0178	0.091
3316	961.40	950.15	09:00 hr	0.0188	1.047
3318	959.55	948.97	09:00 hr	0.0537	1.184
3320	958.62	948.06	09:15 hr	0.0425	1.131
3322	956.42	947.18	09:15 hr	0.0173	1.072
3324	956.16	946.83	09:15 hr	0.0066	1.120
3326	955.34	946.61	09:15 hr	0.0032	1.247
3328	955.21	946.19	09:15 hr	0.0149	1.089
3330	954.03	945.27	09:15 hr	0.0337	1.122
3332	951.99	944.31	09:15 hr	0.0082	1.178
3334	951.51	943.52	09:15 hr	0.0092	1.083
3336	953.53	944.03	07:15 hr	0.0393	0.133
3338	963.15	952.18	20:15 hr	0.0016	0.034
3340	963.98	952.74	20:15 hr	0.0008	0.021
3342	961.74	951.37	20:30 hr	0.0015	0.043
3344	960.80	950.81	20:45 hr	0.0015	0.084
3346	959.87	951.85	20:45 hr	0.0016	0.069
3348	957.55	949.96	20:45 hr	0.0019	0.089
3350	965.28	952.25	20:15 hr	0.0004	0.012
3352	965.69	951.30	20:45 hr	0.0007	0.061
3354	959.10	952.38	20:15 hr	0.0017	0.039
3356	960.34	953.63	20:00 hr	0.0013	0.026
3358	960.55	952.97	20:30 hr	0.0023	0.052
3360	961.45	953.96	20:15 hr	0.0017	0.041
3362	961.41	954.44	20:15 hr	0.0018	0.030
3364	963.30	954.57	20:00 hr	0.0025	0.035
3366	965.63	953.48	20:15 hr	0.0022	0.048
3368	963.30	952.17	20:30 hr	0.0010	0.054
3370	962.10	952.14	20:30 hr	0.0008	0.317
3372	964.90	950.78	20:45 hr	0.0008	0.064
3374	963.33	949.81	20:45 hr	0.0008	0.066

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
3376	962.89	949.31	20:45 hr	0.0007	0.077
3378	960.14	950.70	08:00 hr	0.0021	0.026
3380	962.21	948.71	08:15 hr	0.0007	0.044
3382	962.32	948.56	20:45 hr	0.0009	0.087
3384	957.66	951.02	08:15 hr	0.0031	0.030
3386	958.21	947.08	20:45 hr	0.0011	0.136
3388	960.58	947.49	20:45 hr	0.0008	0.134
3390	960.87	947.74	20:45 hr	0.0009	0.089
3392	957.03	948.58	20:45 hr	0.0012	0.100
3394	956.29	948.87	20:45 hr	0.0005	0.098
3396	956.32	949.00	20:45 hr	0.0012	0.091
3398	957.06	949.50	20:15 hr	0.0019	0.030
3568	969.17	962.78	07:30 hr	0.0086	0.160
3570	972.98	962.79	07:30 hr	0.0098	0.149
3572	966.46	961.35	07:45 hr	0.0127	0.183
3574	964.29	960.12	08:00 hr	0.0091	0.194
3576	953.80	942.30	08:45 hr	0.0007	0.198
3578	952.04	941.68	08:45 hr	0.0010	0.200
3580	950.94	941.05	09:00 hr	0.0006	0.205
3582	949.26	940.15	09:00 hr	0.0010	0.206
3584	948.15	938.55	09:00 hr	0.0001	0.187
3586	951.13	938.93	08:00 hr	0.0004	0.015
3588	947.17	937.61	09:00 hr	0.0004	0.188
3590	945.49	935.92	09:00 hr	0.0000	0.220
3594	944.44	935.35	09:00 hr	0.0009	0.222
3596	943.96	931.89	09:00 hr	0.0011	0.229
3598	945.41	933.90	09:00 hr	0.0008	0.222
3600	945.22	934.79	09:00 hr	0.0001	0.221
3620	982.70	973.98	20:45 hr	0.0016	0.099
3622	983.70	974.95	20:45 hr	0.0011	0.060
3624	984.60	975.45	20:45 hr	0.0009	0.054
3626	985.40	976.29	20:30 hr	0.0008	0.048
3628	986.30	976.88	20:30 hr	0.0013	0.048
3630	986.20	978.09	20:15 hr	0.0018	0.042
3632	988.50	979.27	20:15 hr	0.0015	0.031
3634	989.60	982.04	20:00 hr	0.0017	0.017
3636	988.60	980.05	20:15 hr	0.0019	0.030
3638	986.80	977.03	20:15 hr	0.0015	0.044
3640	985.90	976.65	20:30 hr	0.0007	0.054
3642	986.80	979.22	20:00 hr	0.0020	0.022
3644	985.30	975.96	20:30 hr	0.0008	0.058
3646	984.90	975.56	20:45 hr	0.0008	0.061
3648	984.40	974.92	20:45 hr	0.0011	0.074
3650	985.10	977.22	08:00 hr	0.0019	0.023
3652	982.92	973.47	20:45 hr	0.0007	0.493
3654	980.90	971.42	21:00 hr	0.0009	0.380
3656	981.60	971.64	21:00 hr	0.0005	0.394
3658	982.30	971.71	21:00 hr	0.0002	0.407
3660	983.96	971.83	33:30 hr	0.0002	0.489
3662	987.10	978.49	20:15 hr	0.0014	0.031
3664	987.70	980.28	20:00 hr	0.0025	0.021
3666	988.30	981.94	20:15 hr	0.0009	0.014
3668	984.80	975.32	20:30 hr	0.0011	0.046
3670	985.60	977.94	20:00 hr	0.0015	0.019
3672	983.70	974.13	20:30 hr	0.0011	0.049
3674	981.80	972.06	21:00 hr	0.0004	0.507
3676	985.60	975.66	20:15 hr	0.0016	0.033
3678	984.90	974.56	20:30 hr	0.0012	0.039
3680	982.90	973.38	20:30 hr	0.0009	0.043
3682	982.50	972.91	20:30 hr	0.0005	0.045
3684	983.97	972.62	20:30 hr	0.0000	0.220
3686	984.06	973.48	20:45 hr	0.0000	0.046
3688	985.38	974.73	20:45 hr	0.0008	0.330
3690	983.70	975.35	20:45 hr	0.0024	0.073
3692	984.40	976.65	20:00 hr	0.0020	0.032
3694	982.80	976.36	20:30 hr	0.0021	0.060
3696	983.40	977.32	20:15 hr	0.0030	0.048
3698	985.10	978.69	20:00 hr	0.0019	0.031

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
3700	985.20	978.31	20:00 hr	0.0020	0.033
3702	985.30	976.95	20:15 hr	0.0024	0.045
3704	987.02	975.58	20:30 hr	0.0005	0.201
3706	983.40	975.53	20:30 hr	0.0004	0.035
3708	986.30	975.35	20:30 hr	0.0000	0.145
3710	997.90	988.94	20:45 hr	0.0015	0.136
3712	999.40	989.96	20:30 hr	0.0195	0.101
3714	1001.30	993.84	08:15 hr	0.0036	0.043
3716	1001.90	994.94	08:15 hr	0.0024	0.028
3718	1000.50	992.51	08:15 hr	0.0057	0.067
3720	1001.70	994.80	08:15 hr	0.0091	0.050
3722	1004.15	992.14	20:00 hr	0.0048	0.062
3724	999.40	990.04	08:30 hr	0.0020	0.087
3726	997.30	988.41	20:45 hr	0.0022	0.135
3728	996.60	987.64	20:45 hr	0.0022	0.140
3730	995.00	988.83	20:15 hr	0.0039	0.112
3732	995.70	989.35	20:15 hr	0.0264	0.109
3734	1006.90	994.23	20:45 hr	0.0007	0.076
3736	1007.30	999.57	20:15 hr	0.0007	0.019
3738	1007.60	1000.32	20:00 hr	0.0032	0.023
3740	1007.30	996.84	20:15 hr	0.0275	0.115
3742	1005.90	995.65	20:30 hr	0.0053	0.105
3744	1005.50	994.95	20:30 hr	0.0004	0.072
3746	1005.20	992.32	20:45 hr	0.0009	0.168
3748	1003.20	990.80	20:45 hr	0.0012	0.299
3750	1002.20	991.06	20:45 hr	0.0004	0.340
3752	1004.00	990.37	21:00 hr	0.0012	0.272
3754	1003.90	989.83	21:00 hr	0.0010	0.313
3756	1003.70	989.60	21:00 hr	0.0007	0.298
3758	1004.30	989.32	20:45 hr	0.0031	0.323
3760	1007.22	991.43	20:45 hr	0.0005	0.287
3762	1001.80	993.89	20:15 hr	0.0044	0.050
3764	1002.10	994.74	20:00 hr	0.0008	0.020
3766	1002.60	993.03	20:30 hr	0.0050	0.051
3768	1003.40	989.14	21:00 hr	0.0017	0.309
3770	1003.80	988.77	21:00 hr	0.0007	0.272
3772	1006.91	988.62	21:00 hr	0.0003	0.320
3774	997.58	982.20	07:30 hr	0.0000	0.099
3776	996.68	981.09	08:00 hr	0.0018	0.031
3778	992.50	978.54	08:15 hr	0.0075	0.058
3780	989.30	977.35	08:30 hr	0.0009	0.104
3782	1004.30	991.61	20:45 hr	0.0004	0.259
3784	1002.60	988.10	21:00 hr	0.0010	0.327
3786	1003.50	988.46	21:00 hr	0.0008	0.326
3788	1003.10	987.78	21:00 hr	0.0004	0.326
3790	1003.40	987.56	21:00 hr	0.0013	0.258
3792	1002.90	987.01	21:00 hr	0.0007	0.289
3794	1006.02	987.27	21:00 hr	0.0004	0.326
3796	1005.30	995.93	20:15 hr	0.0009	0.048
3798	1004.20	996.88	20:00 hr	0.0013	0.026
3800	1004.50	997.02	20:00 hr	0.0024	0.026
3802	1006.20	995.11	20:30 hr	0.0008	0.066
3804	1005.50	998.07	20:15 hr	0.0029	0.025
3806	1005.90	995.58	20:30 hr	0.0007	0.050
3808	1006.60	994.59	20:45 hr	0.0007	0.065
3810	1006.50	993.62	20:45 hr	0.0009	0.080
3812	1006.10	993.28	20:45 hr	0.0008	0.082
3814	1006.50	997.63	20:15 hr	0.0011	0.013
3816	1004.60	992.15	20:45 hr	0.0005	0.152
3818	1003.80	991.87	20:45 hr	0.0008	0.147
3820	1002.30	991.22	20:45 hr	0.0040	0.140
3822	1000.90	989.52	20:45 hr	0.0113	0.130
3824	1000.70	985.88	21:00 hr	0.0038	0.357
3826	999.80	990.35	20:15 hr	0.0062	0.065
3828	998.50	991.27	20:00 hr	0.0035	0.040
3830	1005.20	996.09	20:15 hr	0.0019	0.038
3832	1004.40	997.14	20:00 hr	0.0010	0.023
3834	1005.00	995.34	20:30 hr	0.0015	0.045

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
3836	1004.60	994.67	20:30 hr	0.0013	0.053
3838	1004.10	994.08	20:45 hr	0.0018	0.057
3840	1003.10	992.50	20:45 hr	0.0012	0.036
3842	1001.50	986.36	21:00 hr	0.0027	0.330
3844	1000.20	985.36	21:00 hr	0.0015	0.364
3846	999.30	984.87	21:00 hr	0.0013	0.382
3848	999.64	984.60	21:00 hr	0.0004	0.309
3850	998.70	984.37	21:00 hr	0.0028	0.443
3852	997.61	984.20	33:15 hr	0.0003	0.455
3854	997.10	984.35	20:00 hr	0.0005	0.017
3856	992.40	986.66	20:30 hr	0.0003	0.066
3858	997.46	987.13	20:15 hr	0.0000	0.068
3860	992.20	986.91	08:15 hr	0.0005	0.016
3862	992.60	986.45	20:45 hr	0.0014	0.071
3864	993.70	985.26	20:45 hr	0.0072	0.087
3866	993.00	984.90	20:45 hr	0.0028	0.097
3868	993.70	984.50	20:45 hr	0.0010	0.098
3870	992.90	983.51	20:45 hr	0.0008	0.110
3872	991.20	985.79	08:15 hr	0.0008	0.020
3874	991.40	985.33	08:15 hr	0.0015	0.034
3876	992.20	984.00	20:30 hr	0.0017	0.044
3878	992.60	983.68	20:45 hr	0.0004	0.045
3880	992.50	982.82	20:45 hr	0.0006	0.123
3882	997.53	982.46	20:45 hr	0.0005	0.111
3884	992.20	985.21	20:00 hr	0.0004	0.009
3886	992.00	985.68	20:15 hr	0.0007	0.020
3888	991.70	985.32	20:15 hr	0.0016	0.034
3890	991.10	984.19	20:30 hr	0.0014	0.047
3892	990.70	984.79	08:15 hr	0.0002	0.020
3894	991.60	985.46	08:00 hr	0.0005	0.017
3896	990.90	984.53	08:15 hr	0.0004	0.024
3898	991.40	983.11	08:30 hr	0.0011	0.059
3900	992.30	981.75	20:45 hr	0.0013	0.070
3902	996.37	981.27	20:45 hr	0.0007	0.060
3904	991.80	982.46	20:45 hr	0.0014	0.060
3906	991.10	983.45	08:15 hr	0.0007	0.029
3908	990.80	983.75	08:00 hr	0.0007	0.023
3910	990.50	984.13	06:00 hr	0.0003	0.013
3912	989.90	983.61	08:15 hr	0.0006	0.026
3914	990.70	984.43	08:15 hr	0.0004	0.015
3916	989.70	983.49	20:30 hr	0.0027	0.041
3918	990.10	982.96	20:45 hr	0.0006	0.061
3920	992.30	985.36	20:15 hr	0.0009	0.027
3922	992.70	985.72	20:00 hr	0.0007	0.019
3924	991.60	984.76	20:30 hr	0.0015	0.037
3926	990.50	983.74	20:45 hr	0.0015	0.043
3928	990.60	982.66	20:45 hr	0.0013	0.068
3930	991.00	981.98	20:45 hr	0.0089	0.077
3932	991.10	981.76	20:45 hr	0.0095	0.111
3934	993.20	979.84	20:45 hr	0.0011	0.122
3936	995.21	979.49	20:45 hr	0.0005	0.157
3938	992.30	980.30	20:45 hr	0.0024	0.128
3940	991.20	981.34	20:45 hr	0.0044	0.120
3942	997.73	987.40	20:15 hr	0.0085	0.063
3944	1001.78	987.50	20:00 hr	0.0421	0.137
3946	993.10	977.45	07:15 hr	0.0067	0.049
3948	991.04	978.45	20:15 hr	0.0170	0.086
3950	987.50	978.34	20:15 hr	0.0005	0.090
3952	1000.61	986.50	20:15 hr	0.0177	0.089
4652	912.73	904.35	09:45 hr	0.0000	2.268
4654	910.30	903.29	09:45 hr	0.0055	2.232
4656	909.70	901.99	09:45 hr	0.0164	2.334
4666	988.17	979.17	12:45 hr	0.0000	1.107
4668	990.92	978.79	12:45 hr	0.0137	0.557
4670	991.02	978.50	32:15 hr	0.0015	0.444
4678	986.57	962.43	08:30 hr	0.0448	0.838
4680	984.44	962.88	08:15 hr	0.0006	0.463
4682	987.74	969.55	07:15 hr	0.0085	0.049

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
4684	987.86	969.55	07:00 hr	0.0086	0.049
4686	982.56	963.49	08:15 hr	0.0046	0.514
4688	986.79	969.59	07:15 hr	0.0249	0.086
4690	982.50	964.28	08:15 hr	0.0058	0.433
4692	981.83	964.34	08:15 hr	0.0076	0.481
4694	979.80	974.61	07:45 hr	0.0017	0.134
4696	982.50	974.61	07:45 hr	0.0014	0.084
4710	982.12	976.02	07:15 hr	0.0070	0.110
4712	982.25	977.54	07:15 hr	0.0067	0.051
4730	982.22	977.08	07:15 hr	0.0148	0.083
4732	980.55	975.44	07:30 hr	0.0057	0.134
4746	981.95	977.42	07:15 hr	0.0049	0.044
4748	982.50	974.72	07:45 hr	0.0034	0.121
4860	960.07	947.50	07:45 hr	0.0000	0.142
4862	960.19	949.21	07:15 hr	0.0015	0.016
4864	960.23	947.70	07:45 hr	0.0001	0.131
4866	961.08	946.81	08:00 hr	0.0000	0.173
4868	957.48	946.14	08:00 hr	0.0000	1.856
4870	957.46	946.14	08:00 hr	0.0013	1.716
4872	961.02	950.02	00:00 hr	0.0001	0.000
4874	961.19	946.65	08:00 hr	0.0022	0.175
4876	960.26	946.14	08:00 hr	0.0079	0.591
4878	957.59	946.14	08:00 hr	0.0026	1.716
4880	957.28	943.29	08:00 hr	0.0095	0.215
4882	957.50	942.32	08:00 hr	0.0083	0.224
4884	956.52	941.34	08:15 hr	0.0087	0.220
4886	955.97	940.21	08:15 hr	0.0084	0.240
4888	952.06	939.38	08:15 hr	0.0040	0.244
4890	951.75	938.55	08:30 hr	0.0059	0.249
4892	950.75	937.72	08:30 hr	0.0080	0.255
4894	947.57	936.85	08:30 hr	0.0106	0.265
4896	945.69	935.86	08:45 hr	0.0108	0.275
4898	942.41	934.87	08:45 hr	0.0098	0.282
4900	942.09	933.87	09:00 hr	0.0086	0.279
4902	939.31	932.75	09:00 hr	0.0057	0.293
4904	947.50	931.85	09:00 hr	0.0039	1.001
5196	931.00	916.71	08:45 hr	0.0314	0.201
5198	935.00	920.07	08:45 hr	0.0015	0.177
5200	927.00	912.89	08:45 hr	0.0609	0.234
5202	922.00	908.89	08:45 hr	0.0489	0.327
5204	917.50	908.52	08:45 hr	0.0172	0.337
5206	916.80	908.28	08:45 hr	0.0217	0.349
5208	916.00	907.49	08:45 hr	0.0185	0.335
5210	955.84	945.30	06:15 hr	0.0000	0.011
5212	956.14	945.57	06:00 hr	0.0002	0.012
5214	958.01	945.30	45:00 hr	0.0000	0.200
5216	951.32	943.01	45:00 hr	0.0003	0.070
5218	951.77	943.42	06:00 hr	0.0001	0.009
5220	953.60	943.01	45:00 hr	0.0000	0.130
5222	953.32	943.29	08:45 hr	0.0002	0.044
5224	954.49	942.44	45:00 hr	0.0000	0.098
5226	953.26	944.17	08:30 hr	0.0001	0.029
5228	953.54	945.52	20:30 hr	0.0004	0.030
5230	953.13	945.09	20:30 hr	0.0000	0.050
5232	952.96	945.01	20:45 hr	0.0007	0.041
5234	953.00	945.72	06:45 hr	0.0001	0.015
5236	953.05	945.86	06:45 hr	0.0000	0.017
5238	953.81	946.52	06:45 hr	0.0000	0.012
5240	955.27	947.87	20:15 hr	0.0008	0.022
5242	955.52	948.29	20:00 hr	0.0005	0.016
5244	954.36	947.24	20:30 hr	0.0006	0.021
5246	954.09	945.96	20:15 hr	0.0006	0.024
5248	953.73	946.42	20:00 hr	0.0003	0.013
5250	954.22	946.89	06:30 hr	0.0001	0.018
5252	954.61	947.44	06:15 hr	0.0002	0.013
5254	955.12	947.99	06:15 hr	0.0001	0.009
5256	955.87	946.77	20:15 hr	0.0012	0.036
5258	958.85	945.96	45:00 hr	0.0005	0.219

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
5260	955.94	949.12	20:15 hr	0.0013	0.022
5262	956.49	948.57	20:15 hr	0.0006	0.024
5264	956.04	948.93	20:00 hr	0.0004	0.014
5266	957.14	948.35	20:30 hr	0.0006	0.028
5268	957.50	948.06	20:30 hr	0.0007	0.034
5270	957.54	947.65	20:30 hr	0.0012	0.043
5272	956.78	946.80	20:45 hr	0.0012	0.059
5274	952.44	943.56	08:45 hr	0.0015	0.169
5276	954.65	942.21	09:00 hr	0.0007	0.188
5278	953.96	944.63	08:45 hr	0.0011	0.180
5280	954.08	944.78	08:45 hr	0.0008	0.152
5282	956.82	948.51	20:15 hr	0.0012	0.031
5284	956.31	949.21	20:00 hr	0.0021	0.033
5286	955.42	945.80	08:45 hr	0.0002	0.173
6200	972.02	958.35	08:30 hr	0.0020	0.049
6202	972.00	960.98	08:30 hr	0.0019	0.043
6204	972.00	963.15	08:15 hr	0.0017	0.033
6206	971.46	964.95	08:00 hr	0.0017	0.025
6208	969.42	955.29	08:30 hr	0.0024	0.074
6210	969.69	953.33	33:45 hr	0.0016	1.420
6212	968.76	956.16	08:30 hr	0.0033	0.074
6214	968.00	957.41	08:15 hr	0.0040	0.062
6216	966.96	958.68	08:15 hr	0.0050	0.049
6218	965.59	953.07	08:30 hr	0.0042	0.081
6220	965.65	950.85	33:45 hr	0.0020	1.389
6222	964.43	954.15	08:15 hr	0.0045	0.070
6224	963.73	955.11	08:15 hr	0.0051	0.053
6226	961.42	950.13	08:30 hr	0.0044	0.084
6228	961.70	948.45	33:45 hr	0.0019	1.443
6230	960.89	951.11	08:15 hr	0.0046	0.071
6232	960.01	952.01	08:00 hr	0.0051	0.053
6234	958.19	948.62	08:15 hr	0.0047	0.061
6236	959.88	947.51	08:30 hr	0.0045	0.075
6238	957.21	949.65	08:00 hr	0.0027	0.039
6240	954.57	944.70	08:30 hr	0.0046	0.073
6242	954.26	945.69	08:15 hr	0.0045	0.060
6244	953.50	946.79	08:00 hr	0.0022	0.035
6246	955.16	941.20	08:30 hr	0.0018	0.041
6248	953.66	942.33	08:30 hr	0.0041	0.071
6250	953.07	943.17	08:15 hr	0.0044	0.061
6252	952.22	944.25	08:00 hr	0.0021	0.034
6254	967.14	955.37	07:45 hr	0.0020	0.345
6256	972.52	955.70	07:00 hr	0.1128	0.668
6258	965.51	952.64	08:00 hr	0.0009	0.431
6260	969.11	952.64	08:00 hr	0.0161	0.431
6262	966.01	951.13	08:00 hr	0.0056	0.490
6264	968.25	951.31	07:00 hr	0.0400	0.667
6266	965.58	950.42	32:00 hr	0.0056	0.757
6268	967.91	950.42	32:00 hr	0.0101	0.757
6270	983.96	977.47	07:15 hr	0.0019	0.174
6272	987.67	977.72	07:00 hr	0.0508	0.149
6274	987.52	977.64	07:00 hr	0.0154	0.082
6276	984.67	976.97	07:30 hr	0.0006	0.194
6278	987.74	977.20	07:00 hr	0.0063	0.054
6280	992.50	977.08	07:15 hr	0.0094	0.066
6282	983.72	975.75	07:45 hr	0.0006	0.216
6284	987.93	975.85	07:15 hr	0.0054	0.050
6286	988.08	975.94	07:15 hr	0.0135	0.078
6288	984.63	975.05	07:45 hr	0.0006	0.224
6290	987.99	975.15	07:15 hr	0.0046	0.047
6292	988.14	975.23	07:15 hr	0.0103	0.068
6294	985.00	973.55	07:45 hr	0.0083	0.255
6296	982.67	971.55	08:00 hr	0.0142	0.263
6298	981.72	969.51	08:00 hr	0.0153	0.275
6300	981.04	967.47	08:00 hr	0.0045	0.404
6302	980.61	966.76	08:00 hr	0.0006	0.427
6304	987.50	966.85	07:00 hr	0.0042	0.036
6306	987.50	966.92	07:15 hr	0.0056	0.045

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
6308	979.72	966.11	08:00 hr	0.0007	0.442
6310	986.79	966.22	07:00 hr	0.0095	0.054
6312	981.01	965.26	08:00 hr	0.0008	0.472
6314	988.13	965.36	07:15 hr	0.0106	0.066
6316	981.50	968.18	08:00 hr	0.0004	0.175
6318	985.98	968.90	07:15 hr	0.0020	0.030
6320	986.26	968.95	07:15 hr	0.0036	0.040
6322	981.40	968.95	08:00 hr	0.0004	0.160
6324	985.69	969.61	07:15 hr	0.0024	0.035
6326	986.00	969.76	07:15 hr	0.0053	0.045
6328	981.50	969.65	08:00 hr	0.0003	0.152
6330	985.51	970.35	07:15 hr	0.0043	0.046
6332	985.76	970.43	07:00 hr	0.0021	0.030
6334	981.70	970.24	32:00 hr	0.0003	0.138
6336	985.33	970.92	07:00 hr	0.0037	0.048
6338	985.62	971.93	07:00 hr	0.0016	0.018
6340	982.10	970.83	32:00 hr	0.0004	0.135
6342	985.45	971.63	07:00 hr	0.0051	0.031
6344	985.70	971.61	07:15 hr	0.0020	0.021
6346	982.21	971.62	07:45 hr	0.0005	0.120
6348	986.02	972.63	07:15 hr	0.0036	0.034
6350	986.14	972.43	07:15 hr	0.0027	0.032
6352	982.70	972.41	07:45 hr	0.0035	0.105
6354	982.45	973.10	07:30 hr	0.0004	0.101
6356	986.66	973.91	07:15 hr	0.0034	0.027
6358	986.58	973.87	07:00 hr	0.0034	0.026
6368	983.62	975.45	07:15 hr	0.0075	0.093
6370	987.78	976.20	07:15 hr	0.0029	0.047
6372	984.30	974.75	07:30 hr	0.0004	0.129
6374	988.02	975.43	07:00 hr	0.0018	0.036
6376	984.80	974.13	07:45 hr	0.0004	0.135
6378	987.98	974.77	07:00 hr	0.0023	0.033
6380	988.16	974.82	07:00 hr	0.0043	0.044
6382	984.70	973.89	07:15 hr	0.0064	0.081
6384	985.05	974.73	07:15 hr	0.0080	0.061
6390	983.08	976.54	07:00 hr	0.0080	0.059
6392	982.52	977.49	20:15 hr	0.0005	0.022
6394	982.71	977.75	20:15 hr	0.0004	0.015
6396	981.50	976.20	08:00 hr	0.0042	0.156
6398	981.67	976.69	20:15 hr	0.0014	0.034
6400	982.17	977.25	20:15 hr	0.0008	0.021
6402	980.76	975.78	08:00 hr	0.0028	0.139
6404	980.05	974.89	08:15 hr	0.0008	0.140
6406	980.30	974.48	08:15 hr	0.0006	0.131
6408	980.30	974.91	20:15 hr	0.0007	0.020
6410	980.50	974.20	08:15 hr	0.0013	0.141
6412	982.75	977.39	20:15 hr	0.0018	0.036
6414	983.35	977.93	20:00 hr	0.0009	0.021
6416	981.11	975.80	20:45 hr	0.0014	0.109
6418	980.85	975.27	20:45 hr	0.0005	0.105
6420	981.00	975.04	20:45 hr	0.0013	0.108
6422	942.10	933.33	08:30 hr	0.0012	0.064
6424	941.36	932.14	08:30 hr	0.0008	0.064
6426	942.96	936.71	08:00 hr	0.0012	0.025
6428	944.09	935.98	08:15 hr	0.0006	0.030
6430	942.44	935.91	08:00 hr	0.0014	0.027
6432	944.50	934.96	08:15 hr	0.0007	0.035
6434	944.07	934.78	08:15 hr	0.0008	0.040
6436	942.87	934.04	08:30 hr	0.0012	0.045
6438	942.79	934.07	08:30 hr	0.0012	0.044
6440	943.51	934.86	08:15 hr	0.0008	0.035
6442	944.02	935.18	08:15 hr	0.0006	0.032
6444	941.40	930.40	09:00 hr	0.0064	0.267
6446	939.13	929.15	08:45 hr	0.0016	0.253
6448	940.24	931.40	08:30 hr	0.0012	0.062
6450	940.68	932.98	20:00 hr	0.0012	0.021
6452	939.86	932.38	20:00 hr	0.0016	0.029
6454	938.70	931.59	08:15 hr	0.0012	0.036

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
6456	937.79	927.54	09:00 hr	0.0243	0.285
6458	938.24	927.00	09:00 hr	0.0045	0.268
6460	938.71	925.09	09:00 hr	0.0032	0.255
6462	937.28	927.82	08:45 hr	0.0037	0.054
6464	936.80	929.04	08:30 hr	0.0028	0.054
6466	937.49	930.30	08:30 hr	0.0011	0.045
6468	937.64	930.61	08:30 hr	0.0008	0.042
6470	936.23	922.64	33:00 hr	0.0082	0.262
6472	935.14	919.36	34:00 hr	0.0027	1.017
6474	992.07	977.85	20:45 hr	0.0004	0.197
6476	989.04	977.56	20:45 hr	0.0003	0.290
6478	996.51	981.84	45:00 hr	0.0002	0.263
6480	991.63	981.95	45:00 hr	0.0003	0.264
6482	999.80	985.10	20:45 hr	0.0005	0.198
6484	995.16	984.85	20:45 hr	0.0000	0.247
6486	996.05	984.43	20:45 hr	0.0006	0.238
6488	996.32	983.71	20:45 hr	0.0002	0.259
6490	993.34	982.50	20:45 hr	0.0016	0.270
6492	991.70	981.58	45:00 hr	0.0005	0.264
6494	990.00	978.20	20:45 hr	0.0000	0.267
6496	988.47	977.24	20:45 hr	0.0004	0.221
6498	988.00	976.75	45:00 hr	0.0000	0.442
6500	988.29	976.79	45:00 hr	0.0002	0.282
6502	987.10	976.16	45:00 hr	0.0008	0.461
6504	986.13	975.61	45:00 hr	0.0006	0.424
6506	983.90	975.29	45:00 hr	0.0004	0.460
6508	983.70	974.99	45:00 hr	0.0003	0.485
6510	985.05	974.70	45:00 hr	0.0016	0.488
6512	983.75	974.40	45:00 hr	0.0007	0.472
6514	983.58	974.07	45:00 hr	0.0017	0.438
6516	983.26	973.52	45:00 hr	0.0006	0.444
6518	983.33	973.31	21:00 hr	0.0000	0.462
6520	983.47	973.23	21:00 hr	0.0003	0.453
6522	984.06	972.94	21:00 hr	0.0008	0.458
6524	985.62	972.53	21:00 hr	0.0007	0.439
6526	986.24	971.83	33:30 hr	0.0010	0.588
6528	986.96	971.83	33:30 hr	0.0010	0.957
6530	992.80	985.94	20:15 hr	0.0014	0.095
6532	992.50	986.55	20:00 hr	0.0151	0.076
6534	993.60	985.46	20:45 hr	0.0011	0.151
6536	993.40	984.87	20:45 hr	0.0011	0.174
6538	994.10	984.39	20:45 hr	0.0018	0.162
6540	994.20	983.19	20:45 hr	0.0023	0.182
6542	995.50	988.34	08:15 hr	0.0032	0.045
6544	996.20	989.33	08:00 hr	0.0037	0.028
6546	995.20	987.47	08:15 hr	0.0171	0.099
6548	994.30	986.58	20:30 hr	0.0192	0.132
6550	994.20	986.26	20:30 hr	0.0026	0.137
6552	993.42	986.40	08:15 hr	0.0020	0.044
6554	993.96	985.46	08:15 hr	0.0009	0.042
6556	993.00	985.16	08:15 hr	0.0015	0.051
6558	992.90	982.19	20:45 hr	0.0017	0.194
6560	990.60	983.32	20:30 hr	0.0073	0.113
6562	991.70	984.42	08:15 hr	0.0194	0.101
6564	990.60	981.97	20:30 hr	0.0017	0.119
6566	990.90	981.68	20:45 hr	0.0015	0.122
6568	991.60	980.67	20:45 hr	0.0014	0.113
6570	991.30	980.16	20:45 hr	0.0008	0.136
6572	991.20	979.94	20:45 hr	0.0014	0.241
6574	992.10	985.71	08:00 hr	0.0069	0.039
6576	993.00	984.69	08:15 hr	0.0020	0.055
6578	993.50	983.87	20:30 hr	0.0015	0.048
6580	993.40	983.14	20:30 hr	0.0014	0.062
6582	992.40	981.67	20:45 hr	0.0016	0.191
6584	991.50	980.82	20:45 hr	0.0012	0.196
6586	990.00	981.43	20:15 hr	0.0013	0.038
6588	989.40	982.34	20:00 hr	0.0031	0.039
6590	990.40	980.39	20:30 hr	0.0005	0.027

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
6592	990.80	979.07	20:45 hr	0.0008	0.224
6594	992.00	985.11	20:15 hr	0.0013	0.014
6596	990.20	978.53	20:45 hr	0.0003	0.204
6598	988.70	980.18	20:15 hr	0.0021	0.087
6600	992.52	980.40	20:00 hr	0.0125	0.076
6602	990.20	979.00	20:30 hr	0.0014	0.078
6604	989.70	978.53	20:45 hr	0.0006	0.070
6606	993.70	987.35	08:15 hr	0.0008	0.028
6608	993.90	987.73	20:00 hr	0.0008	0.020
6610	997.40	990.43	20:30 hr	0.0017	0.093
6612	998.00	992.04	20:15 hr	0.0124	0.085
6614	996.00	989.22	20:45 hr	0.0015	0.089
6616	995.60	988.43	20:45 hr	0.0005	0.052
6618	995.80	986.24	20:45 hr	0.0008	0.238
6620	995.20	988.99	20:15 hr	0.0042	0.079
6622	998.89	989.42	20:00 hr	0.0096	0.067
6624	994.60	988.37	20:30 hr	0.0011	0.082
6626	994.50	987.51	20:45 hr	0.0014	0.086
6628	994.80	986.82	08:30 hr	0.0013	0.037
6630	995.60	985.42	20:45 hr	0.0008	0.237
6632	995.90	989.78	20:15 hr	0.0009	0.032
6634	997.10	990.12	20:00 hr	0.0011	0.024
6636	995.60	988.77	20:30 hr	0.0010	0.032
6638	994.90	988.02	20:45 hr	0.0004	0.022
6640	994.20	988.08	20:15 hr	0.0012	0.031
6642	995.60	989.76	20:00 hr	0.0012	0.015
6644	995.00	988.50	20:15 hr	0.0010	0.029
6646	993.80	987.82	20:15 hr	0.0017	0.042
6648	993.20	987.08	20:30 hr	0.0018	0.047
6650	992.10	986.16	20:45 hr	0.0011	0.056
6652	991.90	985.92	20:45 hr	0.0013	0.059
6654	993.50	987.68	20:30 hr	0.0018	0.041
6656	992.10	986.31	20:30 hr	0.0017	0.050
6658	991.60	985.89	20:45 hr	0.0015	0.056
6660	990.90	984.18	20:15 hr	0.0012	0.032
6662	990.90	985.10	20:00 hr	0.0014	0.017
6664	991.30	983.50	20:15 hr	0.0013	0.040
6666	991.20	983.05	20:30 hr	0.0009	0.046
6668	991.70	982.71	20:45 hr	0.0000	0.037
6670	992.10	982.44	20:30 hr	0.0004	0.047
6672	992.20	985.54	20:00 hr	0.0008	0.011
6674	991.10	981.34	45:00 hr	0.0005	0.311
6676	990.70	981.03	45:00 hr	0.0008	0.263
6678	990.40	980.86	45:00 hr	0.0007	0.268
6680	989.90	980.51	45:00 hr	0.0010	0.286
6682	989.80	980.25	45:00 hr	0.0007	0.272
6684	991.40	981.95	20:30 hr	0.0005	0.038
6686	990.70	982.18	20:30 hr	0.0010	0.044
6688	990.60	982.88	20:15 hr	0.0012	0.032
6690	990.10	983.98	20:00 hr	0.0015	0.019
6692	989.00	983.14	20:45 hr	0.0020	0.090
6694	988.90	981.96	20:45 hr	0.0013	0.098
6696	989.20	980.90	20:45 hr	0.0015	0.102
6698	990.00	979.58	45:00 hr	0.0025	0.342
6700	986.90	979.71	20:45 hr	0.0039	0.100
6702	986.80	980.24	20:30 hr	0.0074	0.092
6704	988.20	979.05	20:45 hr	0.0047	0.104
6706	988.50	977.74	45:00 hr	0.0024	0.301
6708	988.90	980.70	20:15 hr	0.0031	0.046
6710	988.70	981.68	20:00 hr	0.0019	0.029
6712	988.80	979.88	20:30 hr	0.0039	0.061
6714	989.20	978.15	45:00 hr	0.0035	0.347
6716	987.30	981.07	20:15 hr	0.0049	0.057
6718	988.50	982.29	20:00 hr	0.0024	0.031
6720	988.80	980.25	20:15 hr	0.0028	0.083
6722	987.60	981.32	20:00 hr	0.0110	0.071
6724	989.40	979.73	20:30 hr	0.0038	0.090
6726	990.10	978.66	45:00 hr	0.0034	0.302

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
6728	988.90	982.12	20:15 hr	0.0052	0.041
6730	989.80	979.47	45:00 hr	0.0024	0.309
6732	990.40	978.94	45:00 hr	0.0032	0.376
6734	987.50	977.26	21:00 hr	0.0024	0.343
6736	912.14	892.55	08:15 hr	0.0104	0.029
6738	912.23	893.04	32:00 hr	0.0044	0.187
6740	912.65	894.60	08:00 hr	0.0037	0.171
6742	915.05	900.07	07:45 hr	0.0026	0.169
6744	988.30	977.57	45:00 hr	0.0015	0.353
6746	966.84	951.71	08:00 hr	0.0124	0.456
6748	966.70	951.45	08:00 hr	0.0194	0.467
6750	965.82	950.66	32:00 hr	0.0311	0.514
6752	967.85	953.80	20:45 hr	0.0004	0.114
6754	963.01	953.35	20:45 hr	0.0008	0.116
6756	964.14	952.89	20:45 hr	0.0013	0.127
6758	972.46	957.06	07:45 hr	0.0008	0.175
6760	966.56	954.64	07:45 hr	0.0392	0.418
6762	965.99	954.07	07:45 hr	0.0370	0.428
6764	965.43	953.44	08:00 hr	0.0143	0.437
6766	965.64	952.49	08:00 hr	0.0063	0.433
6768	965.31	952.23	08:00 hr	0.0118	0.441
6770	965.78	951.97	08:00 hr	0.0120	0.447
6772	960.30	948.53	20:15 hr	0.0003	0.013
6774	961.44	938.20	08:15 hr	0.0098	1.570
6778	985.87	976.21	07:30 hr	0.0020	0.099
6780	986.00	976.27	07:15 hr	0.0037	0.073
6794	962.18	948.81	08:45 hr	0.0006	0.084
6796	955.00	948.76	08:45 hr	0.0003	0.130
6802	963.15	945.17	08:00 hr	0.0030	0.930
6804	964.26	945.17	32:00 hr	0.0467	0.210
6806	962.38	944.22	08:00 hr	0.0151	0.933
6808	964.29	946.62	08:00 hr	0.0642	0.908
6810	965.00	957.45	07:45 hr	0.0069	0.084
6812	967.49	958.82	07:15 hr	0.0019	0.032
6814	964.21	958.62	07:30 hr	0.0003	0.037
6816	964.94	958.23	07:30 hr	0.0062	0.065
6818	977.00	968.29	08:00 hr	0.0223	0.238
6820	978.50	966.91	08:00 hr	0.0256	0.254
6822	976.00	965.17	08:00 hr	0.0276	0.270
6824	971.50	963.38	08:15 hr	0.0201	0.282
6826	969.00	961.60	08:15 hr	0.0119	0.289
6828	973.00	968.01	07:30 hr	0.0047	0.106
6830	974.00	969.61	20:00 hr	0.0026	0.036
6832	972.00	968.77	08:15 hr	0.0020	0.062
6834	975.50	971.03	08:15 hr	0.0049	0.049
6836	972.00	966.96	08:15 hr	0.0017	0.122
6838	973.75	968.80	07:15 hr	0.0085	0.099
6840	975.00	970.86	07:00 hr	0.0117	0.070
6842	972.00	965.87	08:30 hr	0.0017	0.234
6844	976.00	970.60	20:15 hr	0.0022	0.045
6846	977.00	972.10	20:00 hr	0.0016	0.030
6848	975.75	968.97	20:30 hr	0.0021	0.054
6850	973.75	967.94	20:45 hr	0.0019	0.060
6852	972.50	966.80	20:45 hr	0.0014	0.057
6854	975.00	969.73	08:15 hr	0.0022	0.052
6856	977.00	971.79	08:15 hr	0.0027	0.034
6858	973.50	968.60	08:30 hr	0.0023	0.056
6860	973.00	966.84	08:15 hr	0.0016	0.176
6862	972.25	967.13	08:15 hr	0.0010	0.161
6864	972.00	966.32	08:30 hr	0.0019	0.180
6866	971.00	965.35	08:45 hr	0.0018	0.237
6868	971.75	964.80	08:30 hr	0.0018	0.239
6870	972.00	963.98	08:45 hr	0.0010	0.243
6872	972.25	967.14	20:15 hr	0.0024	0.051
6874	975.25	969.51	20:00 hr	0.0022	0.033
6876	971.75	966.11	20:30 hr	0.0020	0.061
6878	971.50	965.08	20:45 hr	0.0015	0.066
6880	972.00	964.51	20:45 hr	0.0008	0.095

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
6882	974.25	969.34	20:15 hr	0.0012	0.031
6884	978.02	969.50	20:00 hr	0.0008	0.022
6886	973.25	968.29	20:30 hr	0.0020	0.045
6888	970.00	963.15	08:45 hr	0.0019	0.360
6890	972.00	967.16	08:15 hr	0.0013	0.042
6892	972.25	968.33	08:15 hr	0.0018	0.033
6894	972.00	966.70	08:15 hr	0.0061	0.071
6896	974.25	965.89	08:00 hr	0.0028	0.145
6898	975.25	965.16	08:00 hr	0.0004	0.138
6900	972.25	964.96	08:00 hr	0.0023	0.149
6902	972.25	965.73	20:15 hr	0.0018	0.042
6904	976.00	969.25	20:15 hr	0.0027	0.031
6906	969.25	963.08	32:45 hr	0.0031	0.532
6908	969.00	963.05	32:45 hr	0.0013	0.654
6910	971.00	963.97	20:00 hr	0.0023	0.032
6912	968.00	962.49	08:45 hr	0.0011	0.387
6914	967.25	961.57	08:45 hr	0.0010	0.298
6916	967.25	961.80	20:15 hr	0.0029	0.040
6918	967.00	961.57	08:45 hr	0.0036	0.068
6920	969.25	963.03	20:15 hr	0.0061	0.053
6922	967.25	962.06	08:45 hr	0.0025	0.330
6924	969.00	963.01	20:00 hr	0.0075	0.064
6926	966.50	961.11	08:45 hr	0.0026	0.320
6928	969.32	960.42	08:45 hr	0.0025	0.304
6930	965.00	959.74	20:45 hr	0.0006	0.060
6932	969.18	959.89	20:00 hr	0.0009	0.022
6934	969.00	964.24	20:15 hr	0.0004	0.040
6936	967.50	964.47	20:00 hr	0.0013	0.025
6938	967.86	964.45	20:15 hr	0.0016	0.027
6940	966.25	961.98	20:30 hr	0.0028	0.055
6942	965.50	959.53	20:45 hr	0.0007	0.062
6944	967.50	962.81	20:15 hr	0.0006	0.055
6946	972.50	963.20	20:15 hr	0.0039	0.049
6948	972.50	963.22	20:15 hr	0.0016	0.028
6950	966.50	960.97	20:45 hr	0.0009	0.067
6952	966.94	961.63	20:00 hr	0.0016	0.028
6954	968.25	962.99	20:15 hr	0.0004	0.037
6956	967.50	963.17	20:00 hr	0.0012	0.025
6958	967.50	963.17	20:00 hr	0.0012	0.025
6960	966.00	961.29	20:30 hr	0.0023	0.052
6962	964.50	959.91	20:45 hr	0.0016	0.064
6964	966.06	960.51	20:00 hr	0.0006	0.017
6966	964.25	959.06	20:45 hr	0.0006	0.064
6968	964.25	958.88	20:45 hr	0.0005	0.062
6970	967.00	961.95	20:30 hr	0.0015	0.060
6972	966.00	960.47	20:45 hr	0.0006	0.070
6974	965.00	959.96	20:45 hr	0.0005	0.073
6976	968.84	960.88	20:00 hr	0.0013	0.029
6978	964.75	959.24	08:15 hr	0.0025	0.059
6980	964.00	958.28	08:30 hr	0.0014	0.065
6982	964.50	959.43	20:45 hr	0.0007	0.079
6984	965.75	958.74	20:45 hr	0.0007	0.072
6996	967.50	962.83	20:15 hr	0.0032	0.064
6998	969.00	964.51	20:15 hr	0.0053	0.051
7000	972.02	964.38	07:15 hr	0.0099	0.135
7002	975.42	964.39	07:15 hr	0.0341	0.117
7004	983.83	971.08	32:00 hr	0.0026	0.255
7006	912.69	900.31	07:45 hr	0.0013	0.167
7008	912.56	902.20	07:30 hr	0.0081	0.135
7010	913.10	901.46	07:15 hr	0.0003	0.112
7012	922.41	901.52	07:15 hr	0.0220	0.073
7014	913.10	900.91	07:45 hr	0.0052	0.164
7016	915.40	904.52	07:15 hr	0.0014	0.044
7018	917.31	904.61	07:00 hr	0.0022	0.028
7020	913.95	902.18	07:45 hr	0.0126	0.114
7022	912.05	903.56	07:15 hr	0.0188	0.173
7024	912.15	904.85	07:00 hr	0.0447	0.145
7026	999.00	990.01	20:30 hr	0.0136	0.168

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
7028	997.00	992.13	20:00 hr	0.0394	0.131
7030	1002.00	991.91	08:15 hr	0.0141	0.087
7032	1003.00	993.84	20:15 hr	0.0045	0.045
7034	995.00	986.66	08:45 hr	0.0223	0.190
7036	993.50	984.95	08:45 hr	0.0154	0.207
7038	993.00	977.73	08:45 hr	0.0024	0.256
7040	996.39	976.37	33:30 hr	0.0003	0.308
7042	993.25	975.85	33:30 hr	0.0008	1.239
7044	987.31	971.15	33:30 hr	0.0007	1.244
7046	984.44	968.83	33:30 hr	0.0003	1.385
7048	984.56	968.83	33:30 hr	0.0042	1.385
7050	981.86	966.90	33:30 hr	0.0059	0.734
7052	979.25	964.24	33:30 hr	0.0002	1.285
7054	978.43	963.67	33:30 hr	0.0057	1.285
7056	979.91	964.24	33:30 hr	0.0050	1.285
7058	976.59	961.12	33:30 hr	0.0035	1.285
7060	975.51	961.12	33:30 hr	0.0002	1.285
7062	974.44	959.08	33:30 hr	0.0059	1.290
7064	972.75	959.08	33:30 hr	0.0000	1.290
7066	972.60	958.84	33:30 hr	0.0069	1.556
7068	949.10	934.96	33:45 hr	0.0061	1.381
7070	945.08	932.49	33:45 hr	0.0085	1.510
7072	935.79	923.41	34:00 hr	0.0003	1.617
7074	936.00	922.63	34:00 hr	0.0032	1.660
7076	1024.00	1012.35	07:30 hr	0.0294	0.650
7078	1024.00	1012.47	07:15 hr	0.2102	0.540
7080	920.54	907.26	10:00 hr	0.0045	1.474
7082	921.00	907.75	10:00 hr	0.0027	1.498
7084	926.05	909.77	10:00 hr	0.0071	1.445
7086	929.40	914.68	10:00 hr	0.0049	1.304
7088	929.31	915.95	10:00 hr	0.0005	1.350
7090	936.33	920.41	34:00 hr	0.0041	1.784
7092	938.76	925.89	34:00 hr	0.0010	1.390
7094	940.37	928.05	34:00 hr	0.0153	1.389
7096	942.65	930.21	34:00 hr	0.0103	1.387
7098	983.90	979.03	20:15 hr	0.0013	0.038
7100	984.08	979.90	08:00 hr	0.0023	0.033
7102	983.86	979.15	08:15 hr	0.0016	0.055
7104	984.15	979.69	20:15 hr	0.0020	0.035
7106	982.62	978.10	20:30 hr	0.0021	0.066
7108	983.31	978.99	20:15 hr	0.0016	0.028
7110	984.02	979.56	08:00 hr	0.0031	0.038
7112	982.18	977.44	20:45 hr	0.0008	0.070
7114	982.86	977.91	20:30 hr	0.0030	0.060
7116	984.00	978.74	20:30 hr	0.0014	0.048
7118	981.66	976.54	20:45 hr	0.0018	0.101
7120	983.50	978.58	20:15 hr	0.0007	0.031
7122	983.36	978.99	20:00 hr	0.0012	0.024
7124	982.95	978.23	20:30 hr	0.0006	0.033
7126	979.80	973.62	08:00 hr	0.0050	0.120
7128	980.70	974.47	07:45 hr	0.0000	0.108
7130	982.00	971.72	08:15 hr	0.0025	0.162
7132	983.90	979.80	07:15 hr	0.0084	0.086
7134	984.65	981.43	07:00 hr	0.0085	0.061
7136	983.20	978.27	07:30 hr	0.0072	0.103
7138	981.90	977.03	32:00 hr	0.0011	0.113
7140	981.40	976.43	07:45 hr	0.0037	0.145
7142	984.81	974.52	07:00 hr	0.0033	0.165
7144	979.00	972.32	08:00 hr	0.0017	0.129
7146	979.60	972.53	07:00 hr	0.0050	0.077
7148	979.80	972.02	08:00 hr	0.0021	0.132
7150	981.20	970.59	08:00 hr	0.0022	0.136
7152	980.60	969.15	08:00 hr	0.0052	0.143
7154	983.85	974.84	00:00 hr	0.0000	0.000
7156	979.50	974.74	00:00 hr	0.0000	0.000
7158	981.00	975.66	00:00 hr	0.0000	0.000
7160	987.50	975.66	00:00 hr	0.0000	0.000
7162	988.85	975.12	07:00 hr	0.0069	0.030

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
7164	992.50	973.56	07:45 hr	0.0036	0.171
7166	981.00	972.75	08:15 hr	0.0025	0.158
7168	982.50	972.11	20:45 hr	0.0027	0.118
7170	982.00	973.57	20:45 hr	0.0027	0.113
7172	979.75	973.61	08:00 hr	0.0033	0.040
7174	982.00	970.75	07:45 hr	0.0057	0.097
7176	987.50	973.46	08:45 hr	0.0211	1.178
7178	987.90	973.65	08:30 hr	0.0290	1.164
7180	979.00	968.75	08:45 hr	0.0002	0.829
7182	979.50	969.21	08:45 hr	0.0006	0.795
7184	980.97	968.75	32:45 hr	0.0000	0.760
7186	989.40	973.98	08:30 hr	0.0188	0.877
7188	987.20	973.97	08:30 hr	0.0161	0.926
7190	986.00	973.18	08:45 hr	0.0143	1.186
7192	983.00	970.55	08:45 hr	0.0018	0.815
7194	980.64	966.88	09:00 hr	0.0002	0.831
7196	978.50	968.00	09:00 hr	0.0002	0.743
7198	980.20	969.62	08:45 hr	0.0014	0.811
7200	981.50	970.09	08:45 hr	0.0006	0.763
7202	981.40	966.88	09:00 hr	0.0005	0.241
7204	988.90	978.17	32:15 hr	0.0064	0.520
7206	988.90	978.17	32:15 hr	0.0051	0.588
7208	989.60	977.51	32:15 hr	0.0295	0.598
7210	987.60	976.83	32:15 hr	0.0344	0.612
7212	987.10	976.17	32:15 hr	0.0231	0.646
7214	986.50	975.25	32:15 hr	0.0283	0.656
7216	986.50	974.34	32:15 hr	0.0507	0.669
7218	987.80	973.36	32:15 hr	0.0562	0.624
7220	988.80	972.04	32:15 hr	0.0285	0.600
7222	985.10	969.88	32:15 hr	0.0201	0.764
7224	988.00	968.97	09:00 hr	0.0266	0.651
7226	987.00	968.09	09:00 hr	0.0242	0.639
7228	982.20	966.93	09:00 hr	0.0281	0.664
7230	981.90	970.67	08:00 hr	0.0293	0.239
7232	980.33	971.03	08:00 hr	0.0032	0.268
7234	978.33	972.11	07:15 hr	0.0000	0.062
7236	983.89	972.22	07:00 hr	0.0036	0.171
7238	983.81	972.49	07:00 hr	0.0042	0.034
7240	979.14	969.26	08:00 hr	0.0010	0.168
7242	984.79	969.26	08:00 hr	0.0069	0.108
7244	984.82	969.27	07:00 hr	0.0058	0.055
7246	978.75	970.79	07:45 hr	0.0090	0.149
7248	980.00	971.72	07:45 hr	0.0069	0.131
7250	980.30	976.52	07:15 hr	0.0004	0.021
7252	984.12	976.69	07:00 hr	0.0043	0.188
7254	984.00	971.69	09:00 hr	0.0036	0.388
7256	981.00	974.69	07:45 hr	0.0021	0.111
7258	981.00	973.65	07:45 hr	0.0058	0.122
7260	976.00	970.25	07:30 hr	0.0042	0.093
7262	977.00	972.07	32:00 hr	0.0012	0.047
7264	975.62	970.79	08:15 hr	0.0026	0.059
7266	975.90	967.89	08:15 hr	0.0013	0.148
7268	974.25	968.68	08:15 hr	0.0014	0.127
7270	975.20	969.47	32:00 hr	0.0014	0.112
7272	981.11	970.52	07:00 hr	0.0045	0.044
7274	973.75	970.45	08:00 hr	0.0015	0.064
7276	974.60	969.76	32:00 hr	0.0027	0.060
7278	976.00	971.81	08:15 hr	0.0040	0.046
7280	975.00	970.77	08:15 hr	0.0025	0.051
7282	982.81	972.12	07:00 hr	0.0031	0.038
7284	977.50	972.71	07:15 hr	0.0041	0.047
7286	976.50	971.62	07:15 hr	0.0099	0.082
7296	978.61	976.16	07:15 hr	0.0011	0.051
7298	978.61	977.01	07:00 hr	0.0050	0.046
7300	978.61	975.05	07:30 hr	0.0023	0.073
7302	978.38	973.88	07:45 hr	0.0046	0.085
7304	978.63	975.13	07:15 hr	0.0031	0.039
7306	983.31	980.31	08:45 hr	0.0025	0.486

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
7308	984.80	981.38	02:30 hr	0.0008	0.667
7310	982.54	978.32	08:45 hr	0.0005	0.443
7312	983.47	979.33	08:45 hr	0.0026	0.472
7314	984.50	973.35	47:45 hr	0.0022	0.383
7316	984.50	972.51	09:00 hr	0.0036	0.384
7318	983.00	974.09	20:15 hr	0.0027	0.047
7320	983.00	975.39	20:15 hr	0.0016	0.030
7322	984.00	972.78	20:30 hr	0.0027	0.059
7324	983.50	976.16	20:15 hr	0.0027	0.045
7326	983.00	977.63	20:00 hr	0.0016	0.029
7328	984.00	974.69	20:30 hr	0.0027	0.057
7330	983.50	977.09	47:45 hr	0.0020	0.380
7332	983.00	978.10	08:45 hr	0.0014	0.531
7334	984.00	975.59	47:45 hr	0.0020	0.357
7336	985.10	976.82	07:15 hr	0.0069	0.056
7338	985.99	980.44	07:00 hr	0.0169	0.066
7340	984.46	980.94	08:15 hr	0.0116	0.076
7342	984.41	980.30	08:15 hr	0.0026	0.080
7346	984.37	974.57	07:30 hr	0.0056	0.121
7362	974.37	956.12	07:00 hr	0.1299	0.220
7364	974.34	956.09	07:15 hr	0.0033	0.223
7366	976.22	957.34	07:45 hr	0.1559	0.473
7368	972.50	958.81	07:45 hr	0.0077	0.418
7370	977.96	958.86	07:45 hr	0.0029	0.415
7372	978.25	959.88	07:30 hr	0.0193	0.168
7374	978.59	960.58	07:00 hr	0.0552	0.136
7376	978.57	960.53	07:15 hr	0.0000	0.136
7378	958.80	938.32	08:00 hr	0.0043	0.462
7380	961.48	938.32	08:00 hr	0.0233	0.153
7382	955.90	939.86	08:00 hr	0.0045	0.352
7384	959.76	939.96	07:15 hr	0.1032	0.217
7386	954.50	940.40	07:45 hr	0.0018	0.438
7388	957.84	940.48	07:00 hr	0.0483	0.134
7390	955.51	941.12	07:30 hr	0.0009	0.230
7392	952.99	941.15	07:30 hr	0.0005	0.253
7394	955.86	941.29	07:00 hr	0.0149	0.085
7396	951.96	941.73	07:15 hr	0.0009	0.179
7398	954.66	941.93	07:00 hr	0.0101	0.072
7400	951.29	942.32	07:00 hr	0.0360	0.128
7402	954.04	941.92	07:00 hr	0.0251	0.057
7404	955.38	941.30	07:00 hr	0.0377	0.100
7406	957.42	940.44	07:15 hr	0.0327	0.087
7408	959.23	939.86	08:00 hr	0.0144	0.122
7410	956.70	939.01	08:00 hr	0.0040	0.424
7412	960.28	939.01	08:00 hr	0.0193	0.124
7414	960.63	939.02	07:00 hr	0.0392	0.129
7416	961.09	938.32	08:00 hr	0.0372	0.153
7418	960.68	937.66	08:15 hr	0.0064	1.129
7420	959.89	937.00	08:15 hr	0.0207	0.996
7422	958.87	936.84	08:15 hr	0.0135	1.838
7424	957.85	935.83	08:15 hr	0.0213	1.127
7426	956.25	934.75	08:30 hr	0.0202	0.753
7428	968.91	950.57	08:00 hr	0.0878	0.714
7430	967.04	949.51	08:00 hr	0.0069	0.878
7432	967.67	950.09	07:15 hr	0.2179	0.318
7434	965.49	948.05	08:00 hr	0.0705	0.898
7436	953.10	933.82	08:45 hr	0.0013	0.123
7438	970.59	951.85	08:00 hr	0.0056	0.693
7440	970.59	952.29	07:15 hr	0.0803	0.186
7442	970.46	952.57	07:00 hr	0.2528	0.350
7444	971.85	953.08	08:00 hr	0.1774	0.617
7446	973.11	954.33	08:00 hr	0.1656	0.575
7448	974.48	955.58	07:45 hr	0.0081	0.532
7450	979.69	960.14	07:30 hr	0.0000	0.150
7452	978.56	960.36	20:15 hr	0.0057	0.047
7454	982.50	960.63	20:15 hr	0.0174	0.078
7456	972.50	959.31	07:15 hr	0.1425	0.161
7458	974.24	956.28	07:15 hr	0.1970	0.272

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
7488	1030.23	1013.11	44:45 hr	0.0218	0.631
7490	1029.33	1012.85	45:00 hr	0.0172	0.793
7492	1028.55	1011.64	32:45 hr	0.0764	0.696
7494	1029.19	1012.39	45:00 hr	0.0221	0.831
7496	1026.19	1010.74	32:45 hr	0.0989	0.821
7498	1026.45	1011.15	32:45 hr	0.0904	0.873
7500	1025.09	1009.90	32:45 hr	0.0865	0.884
7502	1022.95	1009.19	32:45 hr	0.0478	1.015
7504	1022.33	1008.72	33:00 hr	0.0405	0.927
7506	1021.89	1008.23	33:00 hr	0.0350	0.969
7508	1020.64	1007.77	33:00 hr	0.0277	0.985
7510	1018.77	1007.32	33:00 hr	0.0165	1.018
7512	1017.77	1006.71	33:00 hr	0.0003	0.854
7514	1027.00	1019.17	20:15 hr	0.0136	0.118
7516	1027.51	1022.55	20:15 hr	0.0176	0.086
7518	1031.52	1017.98	20:30 hr	0.0038	0.043
7520	1031.98	1013.11	44:45 hr	0.0028	0.631
7522	954.30	945.78	07:45 hr	0.0376	0.177
7524	958.88	945.87	07:30 hr	0.0082	0.186
7528	940.90	934.12	07:15 hr	0.0162	0.141
7530	946.12	937.03	07:00 hr	0.1128	0.186
7602	946.35	940.50	07:15 hr	0.0095	0.088
7604	945.80	941.27	07:15 hr	0.0066	0.054
7606	951.05	939.24	08:00 hr	0.0144	0.240
7608	952.68	944.49	08:00 hr	0.0151	0.159
7610	946.03	938.29	32:00 hr	0.0132	0.233
7612	953.06	947.21	07:15 hr	0.0083	0.109
7614	952.40	947.75	07:15 hr	0.0232	0.101
7616	945.00	929.44	09:00 hr	0.0225	0.507
7618	940.79	923.62	07:30 hr	0.0044	0.669
7620	964.85	951.88	20:30 hr	0.0000	0.030
7622	961.10	951.07	45:00 hr	0.0003	0.334
7624	954.00	945.30	45:00 hr	0.0008	0.340
7626	949.86	943.01	45:00 hr	0.0005	0.370
7628	952.42	942.44	21:00 hr	0.0005	0.338
7630	965.28	951.57	45:00 hr	0.0005	0.334
7632	960.23	946.77	45:00 hr	0.0005	0.241
7634	956.34	946.77	45:00 hr	0.0004	0.331
7636	948.03	931.00	21:00 hr	0.0000	0.208
7638	954.60	947.70	08:45 hr	0.0010	0.089
7640	955.18	947.94	08:00 hr	0.0003	0.015
7642	956.08	948.47	06:00 hr	0.0003	0.014
7644	960.06	952.74	08:45 hr	0.0013	0.077
7646	960.70	953.00	07:15 hr	0.0006	0.046
7648	961.43	953.35	07:15 hr	0.0067	0.053
7650	968.49	955.55	08:00 hr	0.0006	0.078
7652	964.51	957.07	32:00 hr	0.0021	0.081
7654	965.06	958.11	32:00 hr	0.0007	0.060
7656	965.19	958.34	08:00 hr	0.0005	0.039
7658	966.84	959.84	07:15 hr	0.0068	0.044
7660	965.16	958.61	07:15 hr	0.0016	0.079
7662	966.20	959.45	07:15 hr	0.0161	0.079
7664	961.06	948.38	20:45 hr	0.0003	0.017
7666	957.66	947.59	45:00 hr	0.0009	0.381
7668	957.53	950.90	20:45 hr	0.0006	0.026
7670	958.02	951.33	20:30 hr	0.0006	0.037
7672	958.39	951.78	20:30 hr	0.0006	0.034
7674	959.03	952.39	20:30 hr	0.0006	0.028
7676	959.42	952.82	20:15 hr	0.0008	0.026
7678	960.23	953.37	20:15 hr	0.0008	0.021
7680	957.88	948.78	21:00 hr	0.0012	0.324
7682	962.23	954.89	20:15 hr	0.0006	0.016
7684	962.36	955.67	20:00 hr	0.0004	0.012
7686	959.70	949.99	45:00 hr	0.0013	0.326
7688	958.39	949.17	21:00 hr	0.0018	0.307
7690	961.17	954.40	20:30 hr	0.0017	0.040
7692	961.51	954.68	20:15 hr	0.0011	0.036
7694	962.07	955.36	20:00 hr	0.0008	0.021

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
7696	959.16	951.88	08:45 hr	0.0014	0.077
7698	960.13	954.26	20:00 hr	0.0011	0.019
7700	958.70	951.06	08:45 hr	0.0014	0.079
7702	956.50	949.65	08:30 hr	0.0015	0.076
7704	960.63	953.16	20:30 hr	0.0008	0.039
7706	959.88	952.89	20:45 hr	0.0005	0.037
7708	961.03	953.55	20:15 hr	0.0010	0.029
7710	961.39	954.26	20:00 hr	0.0007	0.019
7712	958.75	952.10	20:45 hr	0.0006	0.036
7714	958.26	951.54	20:45 hr	0.0008	0.050
7716	957.97	951.17	20:45 hr	0.0010	0.042
7718	956.62	950.09	20:45 hr	0.0009	0.032
7720	960.27	946.77	45:00 hr	0.0000	0.131
7722	955.95	945.96	45:00 hr	0.0005	0.359
7724	952.16	944.53	45:00 hr	0.0012	0.397
7726	951.70	943.98	45:00 hr	0.0002	0.329
7728	952.66	942.21	09:00 hr	0.0000	0.408
7730	949.59	940.30	09:00 hr	0.0006	0.403
7732	949.34	939.81	09:00 hr	0.0002	0.294
7742	965.11	958.62	20:15 hr	0.0005	0.026
7744	966.54	958.95	20:00 hr	0.0009	0.022
7746	965.17	958.41	20:30 hr	0.0003	0.029
7748	966.09	958.35	20:00 hr	0.0159	0.081
7750	965.05	957.84	20:15 hr	0.0004	0.069
7752	964.23	957.64	20:45 hr	0.0007	0.138
7754	967.73	959.99	20:00 hr	0.0153	0.084
7756	966.80	959.47	20:45 hr	0.0013	0.113
7758	969.28	961.47	20:15 hr	0.0114	0.071
7760	968.26	961.00	20:15 hr	0.0004	0.081
7762	967.55	960.93	20:30 hr	0.0006	0.074
7764	962.59	952.30	20:45 hr	0.0009	0.174
7766	965.77	951.84	20:45 hr	0.0006	0.180
7768	964.59	957.60	20:45 hr	0.0008	0.031
7770	964.53	957.05	20:30 hr	0.0005	0.048
7772	963.61	956.73	20:45 hr	0.0009	0.028
7774	965.09	957.49	20:15 hr	0.0007	0.024
7776	964.87	958.06	20:00 hr	0.0004	0.015
7778	964.98	958.04	20:15 hr	0.0006	0.022
7780	965.37	958.39	20:00 hr	0.0005	0.018
7782	964.01	957.69	20:30 hr	0.0003	0.036
7784	963.50	957.54	20:30 hr	0.0003	0.030
7786	964.08	957.12	20:45 hr	0.0012	0.037
7788	963.47	956.41	20:45 hr	0.0017	0.137
7790	969.25	958.92	20:45 hr	0.0005	0.096
7792	966.37	958.88	20:45 hr	0.0012	0.114
7794	964.67	957.77	44:45 hr	0.0006	0.096
7796	961.33	954.99	20:45 hr	0.0024	0.156
7798	962.31	953.92	20:45 hr	0.0007	0.157
7800	962.26	953.53	20:45 hr	0.0019	0.151
7802	962.83	954.15	20:45 hr	0.0007	0.174
7804	962.46	954.44	44:45 hr	0.0010	0.159
7806	964.55	957.65	20:45 hr	0.0016	0.047
7808	965.74	959.12	20:30 hr	0.0019	0.040
7810	967.24	960.68	20:15 hr	0.0012	0.028
7812	968.10	961.23	20:00 hr	0.0006	0.017
7814	969.54	962.23	20:15 hr	0.0003	0.064
7816	968.84	962.05	20:45 hr	0.0007	0.199
7818	970.13	962.73	20:00 hr	0.0121	0.072
7820	971.98	964.67	20:15 hr	0.0108	0.147
7822	970.95	964.48	20:30 hr	0.0004	0.181
7824	972.36	965.20	20:00 hr	0.0593	0.155
7826	970.18	963.31	20:15 hr	0.0007	0.017
7828	968.71	962.30	20:15 hr	0.0018	0.028
7830	966.73	958.63	20:30 hr	0.0024	0.119
7832	970.54	963.63	20:30 hr	0.0020	0.163
7834	969.11	962.31	20:45 hr	0.0005	0.124
7836	966.09	957.42	20:45 hr	0.0018	0.225
7838	969.37	959.29	20:30 hr	0.0127	0.134

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
7840	971.18	964.31	20:15 hr	0.0013	0.024
7842	970.21	963.59	20:15 hr	0.0162	0.067
7844	966.80	960.03	20:00 hr	0.0018	0.031
7846	967.78	961.05	20:45 hr	0.0021	0.144
7848	965.11	956.49	20:45 hr	0.0010	0.278
7850	965.65	956.31	45:00 hr	0.0004	0.256
7852	965.69	956.06	20:45 hr	0.0003	0.219
7854	966.66	956.10	20:00 hr	0.0005	0.016
7856	966.51	955.90	20:15 hr	0.0010	0.027
7858	965.76	955.76	20:45 hr	0.0005	0.225
7860	966.10	955.36	20:45 hr	0.0008	0.253
7862	969.00	954.92	45:00 hr	0.0004	0.202
7864	965.50	954.69	08:45 hr	0.0003	0.266
7866	964.80	954.12	20:45 hr	0.0005	0.223
7868	964.70	953.88	20:45 hr	0.0006	0.282
7870	964.00	953.25	45:00 hr	0.0007	0.248
7872	963.70	953.01	45:00 hr	0.0004	0.311
7874	963.40	952.80	45:00 hr	0.0004	0.285
7876	963.10	952.56	45:00 hr	0.0006	0.258
7878	992.15	951.81	45:00 hr	0.0003	0.311
7920	909.60	905.19	07:15 hr	0.0137	0.189
7922	910.41	905.67	07:00 hr	0.0665	0.667
7928	908.80	893.99	08:00 hr	0.0320	0.479
7932	907.90	896.66	32:00 hr	0.0397	1.127
7934	910.57	895.81	08:15 hr	0.0160	2.218
7936	908.34	895.89	08:15 hr	0.0241	1.324
7938	908.73	896.93	08:00 hr	0.0070	0.356
7940	908.23	895.93	08:00 hr	0.0027	0.357
7942	906.60	898.76	07:30 hr	0.0283	0.190
7944	906.10	899.37	07:15 hr	0.0255	0.154
7946	907.50	901.27	08:00 hr	0.0300	0.315
7948	906.20	899.97	07:00 hr	0.0279	0.113
7950	907.80	902.32	07:45 hr	0.0406	0.323
7952	908.20	903.29	07:45 hr	0.0512	0.293
7954	909.00	904.25	07:30 hr	0.0619	0.251
7956	988.61	981.61	20:15 hr	0.0027	0.091
7958	989.32	982.72	20:00 hr	0.0152	0.083
7960	987.78	980.51	20:45 hr	0.0029	0.218
7962	988.56	981.72	20:15 hr	0.0020	0.037
7964	989.06	982.04	20:15 hr	0.0007	0.019
7966	987.30	980.78	20:15 hr	0.0028	0.104
7968	988.25	981.99	20:15 hr	0.0213	0.097
7970	986.40	979.63	20:45 hr	0.0014	0.229
7972	987.12	980.84	20:15 hr	0.0019	0.037
7974	988.13	981.11	20:00 hr	0.0008	0.021
7976	984.61	976.49	20:30 hr	0.0035	0.144
7978	986.43	977.54	20:15 hr	0.0027	0.090
7980	987.74	978.63	20:00 hr	0.0144	0.084
7982	985.25	978.30	20:00 hr	0.0013	0.029
7984	986.28	977.45	45:00 hr	0.0018	0.253
7986	985.62	978.25	20:45 hr	0.0006	0.241
7988	984.49	976.61	21:00 hr	0.0010	0.249
7990	984.64	976.46	45:00 hr	0.0004	0.278
7992	982.71	977.51	08:15 hr	0.0248	0.110
7994	985.00	975.11	20:45 hr	0.0021	0.147
7996	984.16	976.59	20:00 hr	0.0016	0.028
7998	989.87	981.61	20:45 hr	0.0018	0.191
8000	985.87	979.50	20:45 hr	0.0014	0.247
8002	985.54	978.62	45:00 hr	0.0011	0.254
8004	984.23	974.27	45:00 hr	0.0012	0.154
8006	984.49	973.38	08:45 hr	0.0014	0.151
8008	987.50	972.59	09:00 hr	0.0007	0.172
8010	989.59	983.01	20:15 hr	0.0028	0.097
8012	990.03	984.09	20:00 hr	0.0191	0.094
8014	988.72	981.75	20:45 hr	0.0014	0.175
8016	989.57	983.10	20:15 hr	0.0020	0.036
8018	990.05	983.34	20:00 hr	0.0007	0.020
8020	990.85	983.80	20:15 hr	0.0027	0.077

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
8022	991.50	984.95	20:00 hr	0.0099	0.067
8024	989.30	982.70	20:45 hr	0.0017	0.150
8026	990.37	984.11	20:15 hr	0.0020	0.036
8028	990.42	984.25	20:00 hr	0.0006	0.022
8030	991.59	985.24	20:15 hr	0.0030	0.070
8032	992.57	986.58	20:00 hr	0.0076	0.059
8034	989.44	983.89	20:45 hr	0.0015	0.124
8036	989.67	985.37	20:00 hr	0.0024	0.034
8038	991.63	986.14	20:15 hr	0.0070	0.077
8040	993.08	987.36	20:00 hr	0.0062	0.054
8042	989.59	984.77	20:30 hr	0.0029	0.091
8044	990.74	986.28	20:00 hr	0.0019	0.031
8046	989.51	983.77	20:45 hr	0.0014	0.124
8048	989.22	982.98	20:45 hr	0.0017	0.131
8050	992.90	983.10	08:15 hr	0.0023	0.039
8052	992.11	984.50	08:00 hr	0.0009	0.022
8054	993.94	981.70	20:30 hr	0.0019	0.037
8056	987.51	979.46	20:30 hr	0.0005	0.061
8058	989.17	979.26	20:30 hr	0.0012	0.063
8060	987.56	979.63	20:30 hr	0.0016	0.043
8062	988.85	981.33	20:15 hr	0.0017	0.033
8064	984.52	981.60	20:00 hr	0.0007	0.019
8066	986.49	980.98	08:15 hr	0.0017	0.029
8068	991.57	981.68	20:30 hr	0.0013	0.053
8070	990.44	980.74	20:45 hr	0.0019	0.075
8072	990.17	984.23	08:15 hr	0.0006	0.012
8074	990.43	982.49	20:15 hr	0.0020	0.046
8076	990.39	983.97	20:00 hr	0.0018	0.028
8078	993.20	977.11	20:45 hr	0.0021	0.068
8080	991.53	978.35	20:45 hr	0.0027	0.086
8082	990.27	979.94	20:45 hr	0.0004	0.074
8084	988.40	981.73	20:15 hr	0.0024	0.046
8086	989.37	982.95	20:00 hr	0.0023	0.034
8088	994.17	984.57	20:00 hr	0.0010	0.015
8090	991.47	983.70	20:00 hr	0.0021	0.027
8092	990.24	980.87	20:15 hr	0.0020	0.054
8094	989.24	982.23	08:15 hr	0.0015	0.027
8096	990.11	980.54	20:30 hr	0.0015	0.057
8098	988.97	979.98	20:45 hr	0.0019	0.059
8100	988.09	981.03	08:15 hr	0.0016	0.030
8102	990.19	983.20	20:15 hr	0.0019	0.026
8104	986.52	977.18	20:45 hr	0.0022	0.084
8106	985.48	978.13	08:15 hr	0.0016	0.029
8108	987.31	975.97	20:45 hr	0.0016	0.079
8110	987.69	980.01	20:00 hr	0.0004	0.010
8112	986.16	974.10	20:45 hr	0.0018	0.068
8114	985.38	975.28	20:15 hr	0.0025	0.040
8116	983.88	976.85	08:15 hr	0.0009	0.022
8118	988.15	981.05	20:15 hr	0.0015	0.029
8120	988.23	981.17	20:00 hr	0.0005	0.017
8122	987.04	978.87	20:45 hr	0.0019	0.079
8124	986.13	979.89	20:00 hr	0.0019	0.031
8126	987.57	980.51	20:15 hr	0.0014	0.029
8128	987.64	980.64	20:00 hr	0.0008	0.020
8130	986.42	977.98	20:45 hr	0.0014	0.069
8132	985.01	979.16	08:15 hr	0.0017	0.030
8134	986.44	977.74	20:45 hr	0.0013	0.097
8136	984.94	976.98	20:45 hr	0.0018	0.104
8138	983.71	978.39	08:15 hr	0.0012	0.025
8140	985.83	979.58	20:15 hr	0.0017	0.029
8142	986.03	979.85	20:00 hr	0.0006	0.019
8144	985.67	976.50	20:45 hr	0.0014	0.105
8146	984.29	975.92	20:45 hr	0.0021	0.112
8148	985.40	978.54	20:15 hr	0.0020	0.030
8150	983.53	977.48	08:15 hr	0.0014	0.025
8152	984.53	976.25	45:00 hr	0.0015	0.252
8154	983.28	974.90	45:00 hr	0.0022	0.293
8156	982.75	973.89	21:00 hr	0.0014	0.291

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
8158	982.66	972.85	45:00 hr	0.0019	0.285
8160	983.33	971.66	21:00 hr	0.0025	0.294
8162	983.95	975.12	20:15 hr	0.0027	0.039
8164	982.29	976.57	08:15 hr	0.0011	0.023
8166	982.01	969.39	21:00 hr	0.0020	0.231
8168	981.70	970.49	21:00 hr	0.0038	0.292
8170	985.18	978.44	20:15 hr	0.0018	0.027
8172	984.44	977.43	20:15 hr	0.0024	0.025
8174	973.18	958.90	09:00 hr	0.0000	0.444
8176	971.67	958.91	09:00 hr	0.0005	0.346
8178	981.83	974.09	20:15 hr	0.0017	0.031
8180	983.08	976.03	20:15 hr	0.0016	0.027
8182	981.85	974.88	20:00 hr	0.0018	0.017
8184	980.86	973.85	08:15 hr	0.0022	0.033
8186	983.46	972.42	45:00 hr	0.0011	0.158
8188	977.86	971.82	08:15 hr	0.0022	0.049
8190	979.46	970.93	08:30 hr	0.0018	0.055
8192	978.45	971.37	08:15 hr	0.0013	0.026
8194	979.28	969.28	08:45 hr	0.0019	0.168
8196	981.03	971.23	45:00 hr	0.0014	0.257
8198	980.43	970.23	08:45 hr	0.0018	0.179
8200	982.65	975.71	08:15 hr	0.0020	0.024
8202	978.32	971.49	06:00 hr	0.0001	0.009
8204	982.90	975.94	08:00 hr	0.0026	0.026
8206	980.66	968.65	08:45 hr	0.0013	0.177
8208	976.72	969.91	08:15 hr	0.0013	0.024
8210	980.23	968.39	20:15 hr	0.0011	0.029
8212	978.06	968.87	07:00 hr	0.0033	0.042
8214	978.11	969.37	06:00 hr	0.0002	0.009
8216	981.43	974.35	20:00 hr	0.0029	0.037
8218	980.30	972.83	08:15 hr	0.0067	0.047
8220	980.48	973.04	20:00 hr	0.0018	0.023
8222	979.13	967.95	08:15 hr	0.0032	0.088
8224	977.89	966.94	08:30 hr	0.0019	0.102
8226	977.00	970.05	08:15 hr	0.0011	0.020
8228	979.18	972.08	20:00 hr	0.0020	0.024
8230	978.39	966.52	08:30 hr	0.0014	0.109
8232	979.24	966.90	08:15 hr	0.0012	0.032
8234	979.22	972.76	08:15 hr	0.0027	0.026
8236	975.11	967.21	08:45 hr	0.0018	0.200
8238	977.02	968.09	08:45 hr	0.0011	0.196
8240	980.11	973.42	08:00 hr	0.0028	0.027
8242	979.82	972.64	08:15 hr	0.0027	0.027
8244	974.39	968.46	08:15 hr	0.0013	0.026
8246	979.49	966.78	08:45 hr	0.0011	0.224
8248	976.01	966.14	08:30 hr	0.0020	0.117
8250	974.24	967.51	08:15 hr	0.0012	0.024
8252	977.65	970.94	20:15 hr	0.0043	0.035
8254	974.26	965.20	08:30 hr	0.0024	0.128
8256	973.70	966.86	08:00 hr	0.0014	0.025
8258	975.75	969.05	20:00 hr	0.0018	0.024
8260	973.58	964.29	08:45 hr	0.0023	0.140
8262	973.61	966.50	08:00 hr	0.0016	0.024
8264	974.66	967.75	20:00 hr	0.0017	0.024
8266	973.22	963.44	08:45 hr	0.0023	0.141
8268	972.82	966.27	08:15 hr	0.0015	0.022
8270	973.73	967.22	20:00 hr	0.0016	0.023
8272	972.53	962.37	08:45 hr	0.0014	0.142
8274	971.99	961.06	08:45 hr	0.0016	0.123
8276	973.21	958.96	08:45 hr	0.0009	0.094
8278	973.00	961.64	08:00 hr	0.0017	0.028
8280	972.96	962.78	20:00 hr	0.0017	0.029
8282	971.78	961.42	09:00 hr	0.0008	0.238
8284	974.94	966.43	08:45 hr	0.0009	0.191
8286	973.98	965.23	08:45 hr	0.0021	0.303
8288	973.71	967.40	08:00 hr	0.0015	0.028
8290	978.26	971.56	08:00 hr	0.0060	0.037
8292	973.52	966.54	20:00 hr	0.0017	0.027

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
8294	973.54	964.86	08:45 hr	0.0023	0.210
8296	977.58	970.60	20:00 hr	0.0018	0.022
8298	973.31	966.31	08:15 hr	0.0015	0.025
8300	972.82	963.60	08:45 hr	0.0021	0.247
8302	976.02	969.40	20:00 hr	0.0017	0.021
8304	972.38	962.92	09:00 hr	0.0015	0.206
8306	973.69	963.10	08:15 hr	0.0011	0.285
8308	972.25	962.03	08:15 hr	0.0018	0.304
8310	971.99	961.47	08:15 hr	0.0015	0.291
8312	971.52	960.74	09:00 hr	0.0012	0.423
8314	971.80	959.95	09:00 hr	0.0033	0.385
8316	934.49	925.04	20:45 hr	0.0009	0.111
8318	936.10	929.74	20:30 hr	0.0022	0.042
8320	942.21	932.29	20:45 hr	0.0007	0.097
8322	938.92	928.41	20:45 hr	0.0024	0.114
8324	939.04	931.56	08:15 hr	0.0015	0.032
8326	935.90	925.98	20:45 hr	0.0010	0.134
8328	942.55	930.73	20:45 hr	0.0015	0.106
8330	941.69	933.95	08:00 hr	0.0022	0.025
8332	944.24	931.58	20:45 hr	0.0012	0.096
8334	941.01	929.99	20:45 hr	0.0010	0.107
8336	940.46	929.42	20:45 hr	0.0014	0.113
8338	934.64	925.23	20:45 hr	0.0011	0.130
8340	940.69	933.82	20:00 hr	0.0012	0.020
8342	937.58	929.14	20:15 hr	0.0017	0.027
8344	938.50	933.35	08:00 hr	0.0012	0.019
8346	912.85	907.42	07:45 hr	0.0033	0.194
8348	920.71	907.18	07:00 hr	0.0156	0.087
8352	918.71	906.56	07:15 hr	0.0283	0.124
8354	912.56	904.59	07:30 hr	0.0229	0.167
8356	915.17	905.14	07:15 hr	0.0165	0.053
8358	910.17	900.52	07:45 hr	0.0147	0.210
8360	910.46	900.52	07:45 hr	0.0113	0.130
8362	911.42	902.36	07:45 hr	0.0281	0.188
8364	920.20	916.83	07:15 hr	0.0089	0.334
8366	920.17	916.60	07:30 hr	0.0264	0.101
8368	920.21	916.84	07:15 hr	0.0064	0.235
8370	913.33	908.45	07:45 hr	0.0037	0.190
8372	913.35	908.45	07:45 hr	0.0162	0.090
8374	917.39	911.77	07:45 hr	0.0240	0.168
8376	981.37	972.38	20:45 hr	0.0018	0.053
8378	981.96	973.06	20:45 hr	0.0018	0.090
8380	982.50	973.61	20:45 hr	0.0011	0.085
8382	982.02	973.83	20:45 hr	0.0010	0.083
8384	982.02	970.70	20:45 hr	0.0009	0.059
8386	981.35	969.03	20:45 hr	0.0006	0.226
8388	981.27	971.22	20:45 hr	0.0010	0.066
8390	981.93	971.99	20:30 hr	0.0021	0.063
8392	982.70	972.75	20:30 hr	0.0017	0.055
8394	983.04	973.03	20:15 hr	0.0018	0.047
8396	981.21	974.05	20:00 hr	0.0029	0.038
8398	981.24	968.90	20:45 hr	0.0003	0.157
8400	982.28	969.83	20:45 hr	0.0023	0.214
8402	983.35	970.85	20:45 hr	0.0022	0.210
8404	982.48	971.42	20:45 hr	0.0013	0.207
8406	981.16	973.22	20:45 hr	0.0023	0.095
8408	984.51	973.87	20:30 hr	0.0018	0.094
8410	982.08	974.12	20:15 hr	0.0014	0.035
8412	981.40	974.57	20:00 hr	0.0011	0.024
8414	983.64	973.18	20:30 hr	0.0022	0.048
8416	983.98	972.50	20:45 hr	0.0012	0.179
8418	985.07	976.71	20:45 hr	0.0024	0.100
8420	985.16	977.61	20:30 hr	0.0054	0.154
8422	986.47	979.40	20:15 hr	0.0165	0.126
8424	987.46	980.71	20:00 hr	0.0328	0.113
8426	985.28	973.90	20:15 hr	0.0102	0.068
8428	982.44	971.72	20:45 hr	0.0012	0.179
8430	981.44	974.32	20:45 hr	0.0012	0.080

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
8432	982.06	974.93	20:30 hr	0.0019	0.072
8434	983.48	976.35	20:30 hr	0.0031	0.066
8436	988.24	979.29	20:15 hr	0.0028	0.051
8438	987.34	980.19	20:00 hr	0.0076	0.053
8440	986.38	979.24	20:15 hr	0.0022	0.062
8442	985.31	978.16	20:30 hr	0.0021	0.048
8444	983.30	974.85	20:30 hr	0.0025	0.054
8446	985.08	977.92	20:15 hr	0.0018	0.028
8448	986.77	979.59	20:00 hr	0.0019	0.023
8450	988.06	980.28	20:00 hr	0.0045	0.047
8452	988.84	981.93	08:00 hr	0.0006	0.013
8454	964.00	944.07	07:15 hr	0.0046	0.064
8456	967.50	944.23	07:00 hr	0.0036	0.023
8458	942.00	931.26	09:00 hr	0.0025	0.406
8460	939.75	923.49	09:00 hr	0.0144	0.539
8462	924.50	918.95	09:00 hr	0.0187	0.561
8464	927.91	918.95	09:00 hr	0.0074	0.561
8466	959.00	950.06	09:00 hr	0.0255	0.691
8468	958.00	949.47	09:00 hr	0.0370	0.673
8470	960.00	948.80	09:00 hr	0.0522	0.698
8472	962.00	947.96	09:00 hr	0.0326	0.657
8474	962.00	947.59	09:00 hr	0.0261	0.792
8476	962.00	947.04	09:00 hr	0.0167	0.805
8478	964.25	945.97	09:00 hr	0.0092	0.567
8480	962.00	943.19	07:30 hr	0.0318	0.135
8482	960.00	942.27	07:45 hr	0.0360	0.184
8484	959.00	941.37	07:45 hr	0.0304	0.217
8486	958.00	940.46	07:45 hr	0.0372	0.252
8488	956.25	939.55	07:45 hr	0.0347	0.281
8490	954.00	937.70	08:00 hr	0.0075	0.307
8492	952.00	936.77	08:00 hr	0.0182	0.320
8494	949.75	935.84	08:00 hr	0.0179	0.333
8496	942.00	933.05	08:30 hr	0.0106	0.357
8498	942.00	930.75	09:00 hr	0.0114	0.449
8500	944.00	927.80	09:00 hr	0.0433	0.530
8502	943.75	926.22	09:00 hr	0.0412	0.545
8504	930.00	921.19	09:00 hr	0.0166	0.551
8506	922.50	916.41	33:00 hr	0.0159	0.703
8508	922.50	914.95	09:00 hr	0.0085	0.719
8510	923.00	914.16	09:00 hr	0.0219	0.731
8512	924.00	913.39	33:00 hr	0.0398	0.747
8514	921.75	912.62	09:00 hr	0.0470	0.767
8516	920.00	911.68	09:00 hr	0.0337	0.611
8518	919.00	911.07	09:15 hr	0.0223	0.789
8520	918.50	910.28	09:15 hr	0.0092	0.793
8522	918.00	909.51	09:15 hr	0.0454	0.812
8524	917.00	908.73	09:15 hr	0.0215	0.821
8526	917.00	907.94	09:15 hr	0.0108	0.824
8528	913.00	906.70	07:30 hr	0.0104	0.213
8530	912.50	907.24	07:15 hr	0.0330	0.203
8532	912.50	907.73	07:15 hr	0.0513	0.160
8536	952.70	946.31	08:45 hr	0.0022	0.175
8538	954.00	945.96	08:45 hr	0.0009	0.138
8540	962.26	955.22	20:15 hr	0.0004	0.022
8542	966.73	955.31	20:15 hr	0.0009	0.018
8544	961.22	954.98	20:30 hr	0.0015	0.035
8546	962.76	956.40	20:15 hr	0.0008	0.027
8548	960.20	953.38	20:45 hr	0.0008	0.033
8550	964.48	957.91	20:15 hr	0.0009	0.019
8552	960.08	953.19	20:45 hr	0.0013	0.048
8554	958.39	951.41	20:45 hr	0.0020	0.069
8556	956.41	949.49	08:45 hr	0.0023	0.110
8558	956.75	949.77	08:45 hr	0.0058	0.085
8560	958.10	951.00	08:45 hr	0.0036	0.069
8562	959.33	952.16	20:45 hr	0.0010	0.063
8564	960.25	953.40	20:45 hr	0.0008	0.061
8566	961.41	954.62	20:30 hr	0.0007	0.027
8568	957.55	950.17	20:45 hr	0.0006	0.080

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
8570	958.13	950.61	20:45 hr	0.0012	0.074
8572	964.80	957.87	20:15 hr	0.0016	0.031
8574	962.58	955.82	20:15 hr	0.0015	0.037
8576	961.88	955.07	20:30 hr	0.0008	0.041
8578	961.42	954.44	20:30 hr	0.0007	0.059
8580	962.98	956.15	20:00 hr	0.0010	0.023
8582	962.60	955.43	20:15 hr	0.0016	0.036
8584	960.95	954.04	20:45 hr	0.0005	0.051
8586	960.59	953.22	20:15 hr	0.0011	0.036
8588	961.20	953.98	20:00 hr	0.0009	0.018
8590	960.93	953.79	20:15 hr	0.0017	0.029
8592	959.51	952.39	20:15 hr	0.0007	0.025
8594	958.73	951.21	20:30 hr	0.0007	0.029
8596	960.05	953.06	20:00 hr	0.0010	0.019
8598	969.83	963.10	20:15 hr	0.0007	0.026
8600	969.70	962.96	20:30 hr	0.0007	0.034
8602	971.77	964.03	20:15 hr	0.0008	0.021
8604	967.94	960.60	20:45 hr	0.0012	0.055
8606	967.11	959.77	20:45 hr	0.0012	0.059
8608	968.47	961.06	20:45 hr	0.0016	0.054
8610	969.32	962.40	20:30 hr	0.0018	0.044
8612	972.89	965.33	20:00 hr	0.0005	0.016
8614	972.30	965.06	20:15 hr	0.0008	0.026
8616	971.69	964.17	20:30 hr	0.0009	0.036
8618	971.23	963.56	20:45 hr	0.0006	0.042
8620	971.95	964.57	20:30 hr	0.0010	0.033
8622	970.94	963.88	20:00 hr	0.0007	0.018
8624	971.21	963.37	20:45 hr	0.0000	0.050
8626	972.10	962.95	20:45 hr	0.0006	0.049
8628	971.04	962.60	20:45 hr	0.0010	0.049
8630	969.56	961.44	20:45 hr	0.0008	0.059
8632	969.39	962.54	07:45 hr	0.0420	0.229
8634	969.38	962.51	07:45 hr	0.0678	0.228
8636	969.61	962.61	08:30 hr	0.0019	0.101
8638	970.02	963.26	08:30 hr	0.0052	0.094
8640	970.65	964.08	08:15 hr	0.0047	0.081
8642	971.48	965.01	08:15 hr	0.0029	0.069
8644	971.66	965.24	08:15 hr	0.0019	0.058
8646	972.64	965.86	08:00 hr	0.0052	0.050
8648	969.45	961.28	07:45 hr	0.0010	0.179
8650	968.17	959.25	07:45 hr	0.0006	0.177
8652	963.25	957.48	20:00 hr	0.0014	0.027
8654	962.43	955.97	20:15 hr	0.0023	0.042
8656	963.34	954.95	20:45 hr	0.0018	0.075
8658	964.82	957.42	20:15 hr	0.0009	0.030
8660	965.95	958.36	20:15 hr	0.0008	0.021
8662	964.18	956.42	20:30 hr	0.0017	0.049
8664	963.42	957.32	20:00 hr	0.0010	0.023
8666	967.17	958.53	20:15 hr	0.0009	0.026
8668	967.31	958.23	20:30 hr	0.0013	0.036
8670	966.49	959.28	20:00 hr	0.0008	0.020
8672	966.47	956.88	20:30 hr	0.0010	0.047
8674	968.12	960.43	20:15 hr	0.0011	0.029
8676	968.66	961.23	20:00 hr	0.0009	0.019
8678	962.54	959.09	20:45 hr	0.0008	0.040
8680	967.09	958.59	20:45 hr	0.0010	0.042
8682	967.95	959.81	20:30 hr	0.0009	0.034
8684	967.69	957.66	20:45 hr	0.0010	0.048
8686	967.39	956.88	20:45 hr	0.0008	0.050
8688	966.53	956.26	20:45 hr	0.0007	0.049
8690	965.68	955.64	20:45 hr	0.0006	0.059
8692	965.55	954.97	20:45 hr	0.0012	0.095
8694	966.23	956.60	20:30 hr	0.0013	0.052
8696	965.55	957.14	20:15 hr	0.0009	0.027
8698	964.08	954.39	20:45 hr	0.0011	0.113
8700	963.78	954.04	20:45 hr	0.0007	0.112
8702	964.27	956.23	20:30 hr	0.0015	0.052
8704	960.90	948.09	20:30 hr	0.0004	0.028

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
8706	962.62	948.36	00:00 hr	0.0000	0.000
8708	962.48	948.98	20:00 hr	0.0006	0.018
8710	954.10	935.56	33:00 hr	0.0153	0.289
8712	952.90	934.82	08:45 hr	0.0050	0.317
8714	952.00	945.22	20:15 hr	0.0007	0.020
8716	952.40	945.43	20:00 hr	0.0010	0.024
8718	954.30	947.41	08:30 hr	0.0021	0.052
8720	955.14	947.88	07:15 hr	0.0013	0.026
8722	955.60	948.12	20:15 hr	0.0014	0.030
8724	956.80	950.45	20:00 hr	0.0014	0.022
8726	954.00	945.12	08:45 hr	0.0007	0.169
8728	954.00	946.46	20:15 hr	0.0008	0.024
8730	955.40	948.57	20:00 hr	0.0013	0.019
8732	953.00	944.19	08:45 hr	0.0004	0.174
8734	954.40	947.01	08:15 hr	0.0011	0.033
8736	955.00	948.29	07:15 hr	0.0024	0.028
8738	953.20	945.27	08:15 hr	0.0011	0.040
8740	952.30	943.68	08:45 hr	0.0013	0.157
8742	953.80	946.49	07:45 hr	0.0014	0.058
8744	953.40	946.22	07:45 hr	0.0010	0.061
8746	952.40	944.76	07:45 hr	0.0010	0.055
8748	951.40	938.55	08:45 hr	0.0011	0.210
8750	951.60	937.57	08:45 hr	0.0169	0.287
8752	953.50	936.75	33:00 hr	0.0042	0.217
8754	952.10	938.07	08:45 hr	0.0046	0.218
8756	951.60	939.06	08:45 hr	0.0099	0.222
8758	951.20	939.65	08:45 hr	0.0117	0.202
8760	950.20	940.30	20:45 hr	0.0043	0.219
8762	953.60	944.82	08:45 hr	0.0006	0.140
8764	952.80	943.96	08:45 hr	0.0006	0.179
8766	951.50	942.58	08:45 hr	0.0025	0.179
8768	951.90	941.74	08:45 hr	0.0011	0.169
8770	951.30	940.98	08:45 hr	0.0011	0.186
8772	950.60	940.82	20:45 hr	0.0015	0.112
8774	961.77	946.96	20:15 hr	0.0032	0.040
8776	957.40	946.60	20:45 hr	0.0010	0.064
8778	960.14	946.14	20:15 hr	0.0016	0.029
8780	962.63	947.73	20:15 hr	0.0011	0.025
8782	959.70	947.15	20:30 hr	0.0009	0.045
8784	962.85	949.15	20:15 hr	0.0006	0.018
8786	962.63	948.55	20:15 hr	0.0010	0.023
8790	957.40	950.65	20:00 hr	0.0006	0.016
8792	957.10	950.39	20:15 hr	0.0007	0.027
8794	956.00	948.98	08:30 hr	0.0018	0.039
8796	952.20	943.76	20:00 hr	0.0012	0.025
8798	953.00	946.21	07:15 hr	0.0024	0.034
8800	953.90	946.95	07:15 hr	0.0017	0.029
8802	953.50	942.53	07:15 hr	0.0019	0.021
8804	953.90	935.72	33:00 hr	0.0031	0.191
8806	955.10	949.28	20:00 hr	0.0021	0.022
8808	952.70	945.01	20:45 hr	0.0015	0.102
8810	952.50	944.72	20:45 hr	0.0020	0.097
8812	952.10	943.33	20:45 hr	0.0030	0.126
8814	951.60	942.69	20:45 hr	0.0011	0.127
8816	953.40	946.53	20:00 hr	0.0018	0.019
8818	952.50	942.39	20:45 hr	0.0010	0.125
8820	951.60	941.94	20:45 hr	0.0039	0.127
8822	953.80	946.94	20:15 hr	0.0018	0.026
8824	954.50	945.89	20:15 hr	0.0021	0.040
8826	954.10	946.64	20:15 hr	0.0011	0.024
8828	952.40	944.73	20:30 hr	0.0027	0.047
8830	953.50	945.88	20:45 hr	0.0019	0.092
8832	953.40	947.14	08:45 hr	0.0007	0.142
8834	959.68	949.80	20:00 hr	0.0011	0.023
8836	955.40	948.29	08:45 hr	0.0003	0.141
8838	961.51	948.52	08:00 hr	0.0020	0.033
8840	954.00	947.31	20:45 hr	0.0018	0.070
8842	953.20	946.66	20:45 hr	0.0012	0.086

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
8844	955.60	950.61	20:15 hr	0.0005	0.016
8846	955.50	950.01	20:15 hr	0.0008	0.026
8848	955.00	949.45	20:30 hr	0.0007	0.042
8850	954.00	947.56	20:45 hr	0.0026	0.058
8852	954.80	948.65	20:45 hr	0.0017	0.048
8854	954.30	947.83	08:45 hr	0.0009	0.144
8856	956.40	949.27	20:30 hr	0.0011	0.045
8858	957.10	950.10	20:15 hr	0.0020	0.041
8860	955.40	949.81	20:15 hr	0.0007	0.025
8862	955.60	950.26	20:00 hr	0.0006	0.018
8864	953.20	950.54	20:00 hr	0.0016	0.029
8866	955.60	949.89	20:15 hr	0.0010	0.036
8868	956.50	948.77	20:30 hr	0.0014	0.046
8870	956.00	948.36	20:45 hr	0.0012	0.062
8872	956.60	949.42	20:15 hr	0.0018	0.037
8874	957.30	951.06	20:00 hr	0.0013	0.027
8876	957.30	950.40	08:00 hr	0.0010	0.024
8878	935.60	920.89	08:45 hr	0.0000	1.000
8880	935.00	922.90	00:00 hr	0.0003	0.000
8882	935.00	922.91	07:00 hr	0.0021	0.012
8884	936.50	926.86	08:45 hr	0.0000	0.173
8886	938.99	926.91	07:15 hr	0.0013	0.018
8888	938.90	926.88	07:15 hr	0.0107	0.052
8890	939.30	928.43	08:45 hr	0.0000	0.203
8892	942.23	928.45	07:15 hr	0.0014	0.019
8894	942.20	928.43	08:45 hr	0.0187	0.093
8896	942.80	929.70	08:00 hr	0.0000	0.323
8898	944.76	929.70	08:00 hr	0.0010	0.113
8900	944.72	929.70	08:00 hr	0.0284	0.103
8902	946.40	931.06	09:00 hr	0.0000	0.163
8904	948.25	931.13	07:15 hr	0.0008	0.014
8906	948.23	931.20	07:15 hr	0.0227	0.065
8908	948.10	932.61	33:00 hr	0.0000	0.130
8910	951.38	932.85	07:00 hr	0.0015	0.016
8912	951.39	932.67	07:15 hr	0.0094	0.049
8914	967.60	958.70	00:00 hr	0.0000	0.000
8916	967.60	958.69	07:15 hr	0.0000	0.015
8918	967.57	958.75	07:00 hr	0.0004	0.015
8928	957.10	947.07	33:45 hr	0.0023	1.276
8930	967.20	952.21	33:45 hr	0.0020	1.296
8932	971.00	961.80	20:15 hr	0.0004	0.016
8934	971.20	962.43	20:00 hr	0.0003	0.010
8936	970.40	960.25	20:30 hr	0.0004	0.018
8938	970.30	959.81	20:30 hr	0.0007	0.031
8940	968.90	956.36	20:45 hr	0.0020	0.078
8942	969.90	957.66	20:15 hr	0.0052	0.063
8944	971.40	962.46	20:15 hr	0.0015	0.020
8946	969.00	961.48	20:00 hr	0.0033	0.031
8948	967.70	956.06	20:15 hr	0.0018	0.028
8950	966.70	959.19	20:00 hr	0.0012	0.021
8952	965.80	954.78	20:30 hr	0.0006	0.056
8954	966.70	957.80	20:15 hr	0.0008	0.025
8956	967.20	959.18	20:15 hr	0.0008	0.017
8958	965.70	957.23	20:30 hr	0.0014	0.031
8960	964.20	953.76	20:30 hr	0.0020	0.052
8962	964.50	957.03	20:00 hr	0.0020	0.026
8964	969.90	960.35	20:15 hr	0.0003	0.011
8966	969.20	961.06	00:00 hr	0.0000	0.000
8968	969.70	958.89	20:30 hr	0.0018	0.034
8970	966.90	954.99	20:45 hr	0.0014	0.067
8972	966.60	954.38	20:45 hr	0.0009	0.062
8974	966.10	955.07	20:15 hr	0.0014	0.036
8976	965.30	957.79	20:15 hr	0.0021	0.026
8978	966.84	950.77	21:00 hr	0.0008	0.173
8980	975.50	966.49	20:15 hr	0.0027	0.042
8982	975.40	967.43	20:00 hr	0.0013	0.021
8984	972.90	964.80	08:30 hr	0.0031	0.049
8986	972.00	963.63	20:15 hr	0.0010	0.031

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
8988	972.30	964.78	20:00 hr	0.0010	0.019
8990	971.40	963.05	20:30 hr	0.0010	0.036
8992	970.80	962.34	20:45 hr	0.0013	0.044
8994	969.60	961.14	20:45 hr	0.0011	0.057
8996	974.60	966.02	20:15 hr	0.0020	0.033
8998	976.30	967.87	20:15 hr	0.0013	0.021
9008	971.60	963.56	20:45 hr	0.0017	0.073
9010	972.40	964.57	20:30 hr	0.0007	0.057
9012	970.70	962.45	20:45 hr	0.0016	0.084
9014	972.10	963.70	20:15 hr	0.0019	0.039
9016	973.80	965.47	20:15 hr	0.0015	0.023
9018	967.18	961.39	20:45 hr	0.0008	0.081
9020	970.10	961.71	20:15 hr	0.0009	0.030
9022	970.30	962.56	20:00 hr	0.0010	0.019
9024	968.60	960.53	20:45 hr	0.0003	0.049
9026	969.20	959.11	20:45 hr	0.0006	0.112
9028	967.50	957.81	20:15 hr	0.0012	0.041
9030	967.20	959.29	20:00 hr	0.0025	0.033
9032	967.50	960.25	08:15 hr	0.0004	0.021
9034	967.80	960.98	08:15 hr	0.0005	0.015
9036	967.30	959.96	08:15 hr	0.0002	0.023
9038	966.20	959.26	08:30 hr	0.0011	0.032
9040	965.50	958.74	08:30 hr	0.0012	0.038
9042	964.60	958.63	20:45 hr	0.0013	0.733
9044	964.40	958.63	20:45 hr	0.0008	0.943
9046	966.60	958.63	20:45 hr	0.0008	2.133
9048	968.00	961.11	20:45 hr	0.0011	0.090
9050	968.80	960.07	20:45 hr	0.0021	0.095
9052	968.20	958.74	20:45 hr	0.0015	0.098
9054	967.80	958.64	20:45 hr	0.0007	0.427
9056	967.10	958.64	20:45 hr	0.0000	1.375
9058	966.80	958.63	20:45 hr	0.0006	1.754
9060	967.20	958.63	20:45 hr	0.0010	2.131
9062	963.80	956.68	08:30 hr	0.0011	0.045
9064	963.90	955.84	08:45 hr	0.0004	0.044
9066	964.30	955.43	08:45 hr	0.0005	0.057
9068	964.40	956.03	08:15 hr	0.0008	0.028
9070	963.80	956.85	08:00 hr	0.0009	0.021
9072	964.00	955.07	08:45 hr	0.0009	0.059
9074	963.40	954.26	08:45 hr	0.0016	0.063
9076	962.50	953.50	08:45 hr	0.0021	0.069
9078	963.90	952.31	20:45 hr	0.0014	0.097
9080	965.50	954.38	20:45 hr	0.0008	0.045
9082	964.80	956.41	20:15 hr	0.0009	0.012
9084	965.00	955.96	08:15 hr	0.0019	0.034
9086	964.50	956.91	08:15 hr	0.0006	0.017
9088	965.50	954.52	20:30 hr	0.0021	0.193
9090	965.50	956.59	08:15 hr	0.0015	0.031
9092	964.90	957.40	08:00 hr	0.0006	0.017
9094	965.30	955.62	08:30 hr	0.0014	0.040
9096	964.80	955.04	20:45 hr	0.0013	0.035
9098	962.90	951.44	20:45 hr	0.0017	0.107
9100	963.50	950.74	20:45 hr	0.0011	0.108
9104	964.40	956.12	20:15 hr	0.0003	0.017
9106	964.00	955.83	20:30 hr	0.0019	0.036
9108	964.30	956.37	20:15 hr	0.0007	0.018
9110	963.20	955.44	20:15 hr	0.0013	0.031
9112	963.90	955.85	20:15 hr	0.0007	0.019
9114	961.80	954.12	20:30 hr	0.0024	0.045
9116	960.50	952.80	20:45 hr	0.0026	0.055
9118	959.20	951.37	20:45 hr	0.0014	0.055
9120	958.90	951.07	20:45 hr	0.0007	0.050
9122	967.50	950.48	44:45 hr	0.0005	0.661
9124	962.80	954.43	20:30 hr	0.0020	0.046
9126	962.20	953.90	20:45 hr	0.0016	0.053
9128	960.90	952.75	20:45 hr	0.0020	0.049
9130	959.60	950.48	20:45 hr	0.0014	0.122
9132	970.30	961.61	20:30 hr	0.0010	0.061

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
9134	971.60	963.63	08:15 hr	0.0022	0.027
9136	973.50	965.73	20:15 hr	0.0018	0.032
9138	974.90	967.28	20:15 hr	0.0016	0.022
9140	972.00	964.15	20:30 hr	0.0018	0.039
9142	970.70	962.61	20:30 hr	0.0010	0.042
9144	970.30	960.67	20:45 hr	0.0000	0.070
9146	960.80	952.94	20:15 hr	0.0018	0.042
9148	961.60	953.88	20:15 hr	0.0022	0.032
9150	959.50	951.57	20:30 hr	0.0019	0.051
9152	959.20	950.48	20:45 hr	0.0005	0.661
9154	972.13	961.53	20:15 hr	0.0023	0.030
9156	970.70	961.21	08:15 hr	0.0001	0.033
9158	969.80	959.97	08:45 hr	0.0005	0.071
9160	959.72	959.30	08:45 hr	0.0003	0.097
9162	965.90	956.00	20:45 hr	0.0010	0.121
9164	963.70	954.23	20:45 hr	0.0024	0.151
9166	962.70	953.56	20:45 hr	0.0016	0.132
9168	963.60	950.77	21:00 hr	0.0010	1.403
9170	964.10	949.54	21:00 hr	0.0015	0.172
9172	962.40	949.34	33:45 hr	0.0022	1.304
9208	1008.01	992.17	00:00 hr	0.0000	0.000
9214	988.33	977.14	07:15 hr	0.0010	1.623
9222	939.13	916.83	21:00 hr	0.0087	0.529
9224	938.40	916.70	21:00 hr	0.0003	0.537
9238	937.90	919.29	12:30 hr	0.0005	0.535
9240	939.37	919.49	12:30 hr	0.0002	0.537
9242	939.10	916.51	09:00 hr	0.0002	1.196
9244	939.85	917.08	09:00 hr	0.0000	0.923
9246	924.50	910.26	09:00 hr	0.0903	2.020
9248	926.50	911.00	09:15 hr	0.0120	2.990
9250	923.20	909.91	09:00 hr	0.0266	2.066
9252	922.20	909.78	09:00 hr	0.0268	2.089
9254	921.70	909.55	09:00 hr	0.0009	2.069
9256	924.40	911.56	07:15 hr	0.0216	0.095
9258	925.04	911.55	08:15 hr	0.0143	0.078
9260	920.80	909.39	33:00 hr	0.0006	2.080
9262	924.27	911.39	07:15 hr	0.0180	0.087
9264	925.02	911.37	08:15 hr	0.0123	0.072
9266	920.60	909.30	33:00 hr	0.0180	2.073
9268	919.90	909.05	33:00 hr	0.0296	2.070
9270	919.40	908.96	33:00 hr	0.0106	2.079
9272	925.30	908.85	33:00 hr	0.0006	2.076
9274	926.71	910.85	07:15 hr	0.0193	0.090
9276	927.51	910.82	08:15 hr	0.0086	0.061
9278	926.60	908.73	33:00 hr	0.0148	2.076
9280	927.70	908.60	33:00 hr	0.0208	2.074
9282	928.70	908.46	33:00 hr	0.0174	2.081
9284	929.60	908.30	33:00 hr	0.0007	2.071
9286	931.85	910.31	07:15 hr	0.0211	0.094
9288	931.58	910.28	08:15 hr	0.0075	0.057
9290	928.00	908.18	33:00 hr	0.0185	2.079
9292	929.90	908.00	33:00 hr	0.0306	2.076
9294	933.10	907.77	33:00 hr	0.0433	2.099
9296	934.80	907.56	33:00 hr	0.0007	2.066
9298	933.70	907.39	33:00 hr	0.0154	2.073
9300	935.70	907.14	33:00 hr	0.0196	2.071
9302	939.90	907.02	33:00 hr	0.0189	2.197
9304	936.30	906.97	33:00 hr	0.0183	2.400
9306	934.60	906.35	09:30 hr	0.0061	2.031
9308	938.60	906.34	09:30 hr	0.0011	2.165
9310	934.90	906.31	09:30 hr	0.0029	2.422
9312	934.70	906.30	09:30 hr	0.0031	2.902
9316	927.60	905.87	09:45 hr	0.0052	2.593
9318	929.40	905.83	09:45 hr	0.0127	2.711
9320	927.80	905.57	09:45 hr	0.0048	2.639
9322	923.10	905.37	09:45 hr	0.0077	2.645
9324	917.10	905.12	09:45 hr	0.0038	2.606
9326	913.04	904.37	09:45 hr	0.0025	2.105

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
9330	934.40	915.77	09:00 hr	0.0076	1.196
9332	932.70	914.84	09:00 hr	0.0125	1.205
9334	930.80	913.75	33:00 hr	0.0207	1.207
9336	929.40	913.02	09:00 hr	0.0346	1.221
9338	927.10	912.02	09:00 hr	0.0345	1.210
9340	925.90	911.36	09:00 hr	0.0317	1.212
9342	962.10	952.14	20:45 hr	0.0003	0.117
9344	964.30	942.72	09:00 hr	0.0000	0.736
9346	962.90	940.93	09:00 hr	0.0044	0.771
9348	961.60	939.28	09:00 hr	0.0026	0.796
9350	961.10	938.05	09:00 hr	0.0490	0.802
9352	960.60	936.39	09:00 hr	0.0196	0.804
9354	959.80	935.76	09:00 hr	0.0112	0.808
9356	957.70	934.90	09:00 hr	0.0004	0.805
9358	954.60	932.90	09:00 hr	0.0060	0.806
9360	951.10	930.90	09:00 hr	0.0047	0.807
9362	948.90	929.61	09:00 hr	0.0019	0.806
9364	948.40	928.36	09:00 hr	0.0031	0.861
9366	989.56	980.01	07:00 hr	0.0058	0.041
9368	988.70	975.37	07:30 hr	0.0062	0.107
9370	989.14	983.81	07:15 hr	0.0175	0.071
9372	988.64	979.70	07:15 hr	0.0172	0.095
9376	997.88	990.02	07:15 hr	0.0014	0.079
9378	998.11	990.95	07:00 hr	0.0121	0.060
9380	995.03	984.34	07:30 hr	0.0016	0.108
9382	997.96	991.01	07:15 hr	0.0100	0.054
9392	993.71	986.53	08:15 hr	0.0125	0.075
9394	993.23	986.30	08:15 hr	0.0006	0.088
9396	994.08	986.57	08:15 hr	0.0042	0.048
9400	992.54	985.37	08:30 hr	0.0028	0.111
9406	992.12	984.40	08:45 hr	0.0018	0.129
9408	987.50	984.60	07:15 hr	0.0080	0.061
9410	992.25	983.69	07:45 hr	0.0024	0.133
9412	991.25	983.27	07:45 hr	0.0019	0.120
9566	987.14	970.64	33:30 hr	0.0008	1.243
9568	983.62	972.41	20:30 hr	0.0052	0.083
9570	981.23	974.00	20:15 hr	0.0074	0.069
9572	979.12	975.39	20:15 hr	0.0037	0.041
9816	947.70	939.26	07:15 hr	0.0073	0.061
9818	946.75	939.98	08:00 hr	0.0069	0.051
9820	945.22	934.21	07:30 hr	0.0027	0.079
9822	947.31	940.14	07:15 hr	0.0036	0.038
9824	946.70	939.34	07:15 hr	0.0074	0.055
9826	945.19	935.18	07:30 hr	0.0038	0.063
9828	943.94	931.71	34:00 hr	0.0058	1.334
9830	952.63	944.12	08:15 hr	0.0040	0.044
9832	953.22	943.65	08:15 hr	0.0008	0.048
9834	953.67	943.37	08:30 hr	0.0007	0.051
9836	952.95	942.87	08:30 hr	0.0011	0.080
9838	952.15	944.93	20:00 hr	0.0015	0.028
9840	950.85	943.53	20:30 hr	0.0011	0.048
9842	951.74	943.60	08:15 hr	0.0009	0.065
9844	953.57	945.00	20:00 hr	0.0025	0.036
9846	952.06	943.95	08:15 hr	0.0054	0.051
9848	952.14	943.29	08:30 hr	0.0009	0.068
9850	952.31	942.68	08:30 hr	0.0009	0.071
9852	950.25	942.00	08:30 hr	0.0011	0.108
9854	952.26	944.10	20:15 hr	0.0014	0.033
9856	953.82	944.89	20:00 hr	0.0008	0.020
9858	950.39	943.09	20:45 hr	0.0011	0.053
9860	949.75	942.58	20:45 hr	0.0008	0.057
9862	949.29	942.10	20:45 hr	0.0009	0.062
9864	949.34	942.45	20:00 hr	0.0005	0.017
9866	948.01	941.22	08:45 hr	0.0012	0.115
9868	948.82	941.54	08:30 hr	0.0007	0.110
9870	953.16	943.60	08:15 hr	0.0046	0.055
9872	953.52	943.34	08:15 hr	0.0010	0.059
9874	951.41	944.33	08:00 hr	0.0018	0.030

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
9876	947.74	939.85	08:45 hr	0.0011	0.134
9878	946.89	939.20	08:45 hr	0.0007	0.139
9880	946.27	939.01	08:45 hr	0.0005	0.135
9882	948.55	940.67	20:30 hr	0.0009	0.038
9884	949.22	941.07	20:15 hr	0.0017	0.039
9886	951.00	942.52	20:15 hr	0.0013	0.024
9888	948.30	939.65	20:15 hr	0.0008	0.028
9890	948.99	939.85	20:00 hr	0.0006	0.019
9892	946.44	938.93	20:30 hr	0.0012	0.037
9894	946.35	938.81	20:30 hr	0.0027	0.051
9896	944.16	937.46	20:45 hr	0.0027	0.062
9898	945.70	936.41	20:45 hr	0.0000	0.159
9900	945.90	936.26	20:45 hr	0.0000	0.144
9902	945.80	936.88	20:45 hr	0.0006	0.158
9904	944.66	937.07	20:45 hr	0.0005	0.153
9906	946.37	938.08	08:45 hr	0.0008	0.143
9908	946.45	938.55	20:30 hr	0.0009	0.035
9910	947.62	940.04	20:15 hr	0.0021	0.035
9912	949.34	941.45	20:00 hr	0.0014	0.028
9928	966.00	959.66	07:15 hr	0.0073	0.102
9930	964.00	961.25	07:15 hr	0.0512	0.136
9932	960.40	954.67	07:30 hr	0.0010	0.095
9936	960.25	950.82	07:45 hr	0.0000	0.156
9938	958.20	951.54	07:15 hr	0.0000	0.037
9940	958.00	952.49	07:00 hr	0.0051	0.044
9942	957.50	944.25	08:00 hr	0.0010	0.167
9946	957.70	949.57	07:15 hr	0.0142	0.066
9948	939.20	917.17	09:00 hr	0.0028	0.924
9952	967.23	943.40	09:00 hr	0.0074	0.496
9954	967.23	942.91	07:15 hr	0.0362	0.102
9956	963.80	944.48	09:00 hr	0.0004	0.468
9958	966.66	945.83	07:15 hr	0.1125	0.223
9960	948.00	926.83	09:00 hr	0.0018	0.921
9962	947.70	926.20	09:00 hr	0.0023	0.921
9964	944.80	923.95	09:00 hr	0.0099	0.922
9966	941.90	921.54	09:00 hr	0.0145	0.762
9998	993.03	985.56	07:00 hr	0.0080	0.061
CH29	1086.67	1072.49	45:00 hr	0.0000	1.299
CH31	1104.71	1093.02	08:00 hr	0.2528	0.309
CH33	1099.79	1089.25	20:45 hr	0.4103	0.421
CH35	1074.32	1060.58	45:00 hr	0.0000	0.581
CH37	1058.78	1042.56	21:00 hr	0.3059	0.780
CH41	1071.04	1059.95	20:45 hr	0.3775	0.445
CH43	1030.01	1012.48	45:00 hr	0.0140	1.122
CH45	1019.99	1007.87	45:30 hr	0.0118	1.580
CH47	1019.97	1007.82	45:30 hr	0.0002	1.918
CH49	1020.02	1007.80	45:30 hr	0.0000	2.001
CH51	986.70	976.20	07:00 hr	0.1182	0.203
CH53	981.16	969.19	07:30 hr	0.2676	0.372
CH55	976.85	961.03	07:45 hr	0.1249	0.461
CH57	973.12	952.78	07:00 hr	0.0688	0.181
CH59	947.39	936.06	09:30 hr	0.1587	1.235
CH61	942.93	931.66	09:45 hr	0.0928	1.181
CH63	940.27	926.95	09:45 hr	0.1042	1.197
CH69	1012.74	999.95	08:15 hr	0.2554	0.301
CH71	992.30	976.96	08:30 hr	0.2360	0.357
CH73	979.90	960.85	08:45 hr	0.1765	0.421
CH75	960.49	948.85	20:00 hr	0.1430	0.246
CH77	943.00	931.59	20:45 hr	0.0404	0.365
CH79	939.89	926.94	45:00 hr	0.1296	0.503
CH83	948.11	924.23	21:00 hr	0.0757	0.497
CH85	949.74	921.48	08:45 hr	0.0629	0.517
CH87	943.57	918.94	21:00 hr	0.0423	0.541
CH89	972.76	962.97	08:15 hr	0.1137	0.214
CH91	959.34	947.72	08:30 hr	0.1887	0.383
CH95	994.98	983.12	20:00 hr	0.0525	0.145
CH97	972.93	961.40	20:45 hr	0.0811	0.471
CH99	986.91	977.14	20:00 hr	0.1496	0.227

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
CH101	991.62	979.81	20:00 hr	0.0883	0.191
CH103	974.93	963.22	20:45 hr	0.0812	0.287
CH105	1042.06	1032.22	20:15 hr	0.0680	0.158
CH107	1020.97	1011.87	20:45 hr	0.0584	0.281
CH109	999.98	984.63	09:00 hr	0.2536	0.540
CH111	989.35	968.48	08:45 hr	0.2029	0.672
CH113	974.94	956.01	08:45 hr	0.1891	0.751
CH115	970.56	947.17	08:45 hr	0.0582	0.828
CH117	1020.00	1010.17	08:00 hr	0.0649	0.165
CH119	1011.03	999.24	08:30 hr	0.1197	0.284
CH121	995.82	981.75	08:00 hr	0.1546	0.464
CH123	984.04	966.83	08:15 hr	0.1775	0.531
CH125	938.59	923.38	20:00 hr	0.1064	0.223
CH127	929.59	917.28	19:30 hr	0.1016	3.087
CH129	927.00	917.40	20:30 hr	0.1257	0.396
CH131	930.40	919.59	20:15 hr	0.1273	0.264
CH133	921.86	916.01	20:30 hr	0.0705	0.284
CH135	921.53	910.94	20:45 hr	0.0740	0.314
CH137	911.14	901.88	08:45 hr	0.1587	1.709
CH141	912.71	901.06	20:00 hr	0.0780	0.356
CH143	908.11	899.35	21:00 hr	0.0383	0.349
CH147	906.23	900.65	20:45 hr	0.0674	0.352
CH153	892.36	880.76	32:00 hr	0.1370	0.627
CH161	911.66	898.25	07:00 hr	0.1733	0.253
CH163	895.01	881.93	07:30 hr	0.3059	0.486
CH165	889.53	877.64	08:15 hr	0.1499	0.573
CH167	890.82	870.85	08:45 hr	0.1599	0.755
CH171	894.21	884.64	20:00 hr	0.4050	0.432
CH175	900.11	886.22	20:00 hr	0.1015	0.216
CH177	905.18	895.56	20:00 hr	0.4294	0.376
CH179	896.22	878.35	20:15 hr	0.3555	0.424
CH181	908.15	899.87	08:00 hr	0.0053	0.315
CH183	900.27	885.48	08:15 hr	0.2130	0.583
CH185	908.06	892.92	07:30 hr	0.0864	0.264
CH187	962.68	944.20	09:00 hr	0.0000	0.562
CH189	962.41	943.02	09:00 hr	0.0151	0.565
CH191	962.03	940.29	09:00 hr	0.0734	0.581
CH193	957.82	931.66	09:15 hr	0.1211	0.617
CH195	948.20	926.48	09:15 hr	0.0864	0.642
CH197	932.39	921.27	09:30 hr	0.0566	0.659
CH201	921.28	905.97	09:45 hr	0.1065	1.228
CH203	915.48	899.42	10:00 hr	0.1511	1.499
CH205	914.14	899.34	10:00 hr	0.0320	3.074
CH207	923.13	912.50	09:45 hr	0.0742	0.859
CH209	922.16	910.67	10:45 hr	0.1798	2.817
CH211	919.84	908.63	07:30 hr	0.0706	0.270
CH215	917.41	901.34	07:30 hr	0.1044	0.391
CH227	895.16	876.73	08:45 hr	0.1213	0.733
CH233	905.42	897.97	09:00 hr	0.1076	0.468
CH241	934.85	921.16	07:45 hr	0.0343	0.493
CH243	934.71	925.94	07:00 hr	0.1131	0.228
CH245	923.99	914.26	08:00 hr	0.1917	0.570
CH247	901.45	891.20	07:15 hr	0.2718	0.355
CH249	1095.46	1085.89	20:00 hr	0.3749	0.426
CH251	1082.41	1071.93	20:30 hr	0.3797	0.513
CH257	945.00	930.12	20:15 hr	0.0471	0.117
CH261	894.39	884.50	08:00 hr	0.1860	0.551
CH263	905.57	893.90	07:00 hr	0.1843	0.335
CH265	919.99	909.55	07:00 hr	0.1281	0.225
CH267	924.00	915.82	20:00 hr	1.3149	0.691
CH269	909.54	890.07	06:45 hr	0.0349	0.073
CH277	916.28	898.97	21:15 hr	0.0638	1.238
CH619	1126.08	1102.73	08:00 hr	0.1692	0.430
CH621	1111.55	1099.40	08:45 hr	0.0726	0.304
CH623	1100.79	1088.07	20:15 hr	0.1975	0.276
CH625	1083.43	1072.12	20:30 hr	0.1548	0.365
CH627	1043.86	1028.28	45:00 hr	0.3373	0.840
CH633	1035.27	1023.04	07:00 hr	0.9012	0.530

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
CH635	1023.98	1015.09	20:30 hr	0.0488	0.234
CH637	1032.57	1021.40	08:00 hr	0.0322	0.109
CH639	1013.53	997.12	08:45 hr	0.2523	0.423
CH641	1023.93	1012.12	08:00 hr	0.1248	0.194
CH643	1018.06	1006.27	07:00 hr	0.1296	0.214
CH645	1008.94	995.81	07:15 hr	0.3275	0.348
CH647	996.59	983.42	32:00 hr	0.1712	0.414
CH649	921.58	910.75	07:15 hr	0.2085	0.288
CH651	904.86	890.58	08:00 hr	0.1100	0.391
CH653	910.37	902.03	07:15 hr	0.0670	0.174
CH655	907.56	898.96	07:15 hr	0.0627	0.168
CH657	914.43	905.88	09:00 hr	0.2055	0.828
CH659	916.01	902.57	10:00 hr	0.2069	1.224
CH661	921.86	911.92	07:15 hr	0.2122	0.322
CH663	932.39	916.87	07:15 hr	0.1152	0.230
CH665	960.23	947.71	07:15 hr	0.0846	0.168
CH667	959.52	938.94	07:15 hr	0.1251	0.271
CH669	951.54	931.68	07:30 hr	0.2365	0.425
CH671	917.24	903.36	32:00 hr	0.1385	0.361
CH673	922.62	915.81	07:15 hr	0.0833	0.194
CH675	921.01	909.23	07:00 hr	0.1158	0.231
CH677	916.62	904.83	07:30 hr	0.1047	0.330
CH679	910.00	901.10	06:15 hr	0.0243	0.101
CH681	910.00	896.17	06:15 hr	0.0438	0.169
CH683	939.36	923.05	06:15 hr	0.0114	0.053
CH685	909.23	891.21	06:15 hr	0.0321	0.206
CH687	991.99	990.07	07:15 hr	0.0910	0.184
CH689	990.96	982.28	07:15 hr	0.1287	0.252
CH691	990.92	982.61	07:15 hr	0.1202	0.279
CH693	993.79	990.01	07:15 hr	0.0823	0.174
CH695	990.00	970.22	07:00 hr	0.0345	0.113
CH697	989.91	966.54	07:15 hr	0.0584	0.185
CH699	970.52	955.66	08:00 hr	0.1653	0.529
CH701	959.53	949.33	08:00 hr	0.0972	0.568
CH703	989.54	974.21	07:00 hr	0.1044	0.213
CH705	982.64	966.51	07:30 hr	0.2712	0.448
CH707	971.21	956.61	09:00 hr	0.0925	0.475
CH709	960.16	950.84	09:00 hr	0.0330	0.844
CH711	959.35	947.09	09:30 hr	0.0485	0.683
CH713	961.22	942.12	09:30 hr	0.1478	0.779
CH715	974.07	966.21	07:00 hr	0.1226	0.211
CH717	990.02	976.42	33:30 hr	0.0730	1.010
CH719	982.38	969.32	32:45 hr	0.1256	0.495
CH721	970.18	961.76	33:00 hr	0.0709	0.508
CH1169	909.50	899.19	10:00 hr	0.0359	1.881
CH1171	910.00	899.71	10:00 hr	0.0471	1.869
CH1173	910.50	900.25	10:00 hr	0.0460	1.907
CH1175	910.50	900.77	09:45 hr	0.0404	1.867
CH1181	891.00	881.75	08:30 hr	0.1170	0.753
CH1183	903.00	896.39	20:30 hr	0.8372	0.829
CH1185	912.20	898.66	10:00 hr	0.0256	2.436
CH1191	939.60	923.46	12:30 hr	0.0233	0.616
CH1195	937.50	920.43	12:30 hr	0.0020	0.630
CH1197	937.10	921.43	12:30 hr	0.0068	0.628
CH1199	938.20	922.43	12:30 hr	0.0073	0.626
CH1201	949.10	935.93	36:15 hr	0.0134	935.925
CH1203	939.90	924.05	12:30 hr	0.0036	4.053
CH1205	939.90	931.00	00:00 hr	0.0008	0.000
CH1207	940.30	924.26	12:30 hr	0.0059	0.645
CH1209	941.10	925.48	12:30 hr	0.0010	0.466
CH1211	941.00	924.99	12:30 hr	0.0010	0.611
CH1213	941.70	926.31	12:30 hr	0.0031	0.638
CH1215	941.80	926.97	12:30 hr	0.0037	0.636
CH1217	943.30	927.88	12:15 hr	0.0006	0.632
CH1219	942.90	927.58	36:15 hr	0.0015	0.636
CH1221	943.60	928.20	36:15 hr	0.0043	0.632
CH1223	945.40	929.28	36:15 hr	0.0048	0.631
CH1225	946.60	929.63	12:15 hr	0.0057	0.634

Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
CH1227	948.00	930.11	36:15 hr	0.0016	10.107
CH1229	948.40	931.08	12:15 hr	0.0004	0.434
CH1231	948.60	933.26	36:15 hr	0.0004	2.170
CH1233	949.10	935.59	36:15 hr	0.0002	3.856
CH1235	941.10	926.17	20:15 hr	0.0217	0.028
CH1237	943.30	927.99	20:15 hr	0.0067	0.019
CH1239	945.40	929.85	08:00 hr	0.0052	0.012
CH1241	948.40	931.50	20:00 hr	0.0161	0.020
CH1243	949.10	935.93	36:15 hr	0.0124	3.355
CH1245	950.60	934.40	20:15 hr	0.0004	0.017
CH1247	950.60	934.53	20:00 hr	0.0125	0.023
CH1249	1009.68	999.77	07:00 hr	0.0202	0.094
CH1251	1004.75	995.02	07:15 hr	0.1513	0.266
CH1253	997.85	982.62	08:00 hr	0.0140	0.397
CH1255	1000.82	991.06	08:00 hr	0.0321	0.241
CH1257	1006.40	997.41	07:15 hr	0.0210	0.170
CH1259	1003.00	995.25	07:30 hr	0.0209	0.237
CH1261	1001.00	993.33	07:45 hr	0.0212	0.270
CH1263	1000.04	990.82	07:30 hr	0.0232	0.301
CH1265	995.00	989.62	07:45 hr	0.0237	0.321
CH1283	995.00	989.65	08:00 hr	0.0091	0.227
CH1285	998.46	988.93	08:00 hr	0.0090	0.233
CH1287	997.09	987.26	08:00 hr	0.0190	0.243
CH1297	994.55	983.16	07:15 hr	0.1110	0.193
CH1299	995.50	982.12	07:15 hr	0.0630	0.279
CH1301	995.10	981.49	07:30 hr	0.0460	0.314
CH1303	995.20	980.85	07:45 hr	0.0307	0.335
CH1305	994.00	980.62	07:45 hr	0.0274	0.610
CH1307	993.70	979.69	08:00 hr	0.0245	0.372
CH1309	992.55	978.97	08:00 hr	0.0192	0.383
CH1311	992.55	978.34	32:00 hr	0.0091	0.388
CH1313	992.55	978.10	08:00 hr	0.0047	0.392
CH1315	990.01	978.00	32:15 hr	0.0011	1.130
CH1317	988.55	976.76	08:15 hr	0.0004	0.748
CH1319	987.70	976.79	08:15 hr	0.0002	0.328
CH1321	992.60	977.04	08:15 hr	0.0050	0.350
CH1323	989.35	978.07	08:15 hr	0.0107	0.325
CH1325	989.65	978.88	08:00 hr	0.0178	0.319
CH1327	991.50	979.80	32:00 hr	0.0179	0.321
CH1329	992.01	980.28	08:00 hr	0.0106	0.303
CH1331	992.50	981.00	08:00 hr	0.0088	0.227
CH1333	996.50	983.61	08:00 hr	0.0210	0.215
CH1335	997.10	984.02	08:00 hr	0.0114	0.298
CH1337	998.50	984.76	08:00 hr	0.0139	0.288
CH1339	998.70	985.07	08:00 hr	0.0099	0.277
CH1341	999.50	985.61	08:00 hr	0.0136	0.268
CH1343	1000.30	986.15	08:00 hr	0.0065	0.256
CH1345	1000.50	986.31	32:00 hr	0.0056	0.251
CH1347	1000.98	986.74	32:00 hr	0.0064	0.247
CH1349	1003.30	987.60	07:45 hr	0.0020	0.207
CH1351	1003.30	987.65	07:45 hr	0.0071	0.147
CH1353	1003.30	988.02	07:45 hr	0.0026	0.138
CH1355	986.40	975.74	08:15 hr	0.0021	0.927
CH1357	985.77	975.41	08:15 hr	0.0092	0.929
CH1359	988.27	974.72	08:30 hr	0.0313	0.982
CH1363	1003.08	992.98	07:15 hr	0.0325	0.282
CH1365	996.35	987.42	08:00 hr	0.0879	0.391
CH1367	994.83	984.52	08:00 hr	0.0165	0.393
CH1369	1008.96	999.08	07:15 hr	0.0294	0.120
CH1371	1006.31	996.46	07:15 hr	0.0421	0.147
CH1373	1015.00	1003.30	00:00 hr	0.0000	0.000
CH1375	1010.15	1001.59	07:15 hr	0.0152	0.057
CH1377	1008.17	998.31	07:15 hr	0.0056	0.067
CH1379	1015.00	996.81	07:30 hr	0.0049	0.074
CH1381	1007.12	995.03	07:30 hr	0.0068	0.082
CH1383	1007.10	993.53	08:00 hr	0.0087	0.092
CH1385	1010.26	1000.21	07:00 hr	0.0339	0.096
CH1387	1008.20	996.01	07:30 hr	0.0041	0.109

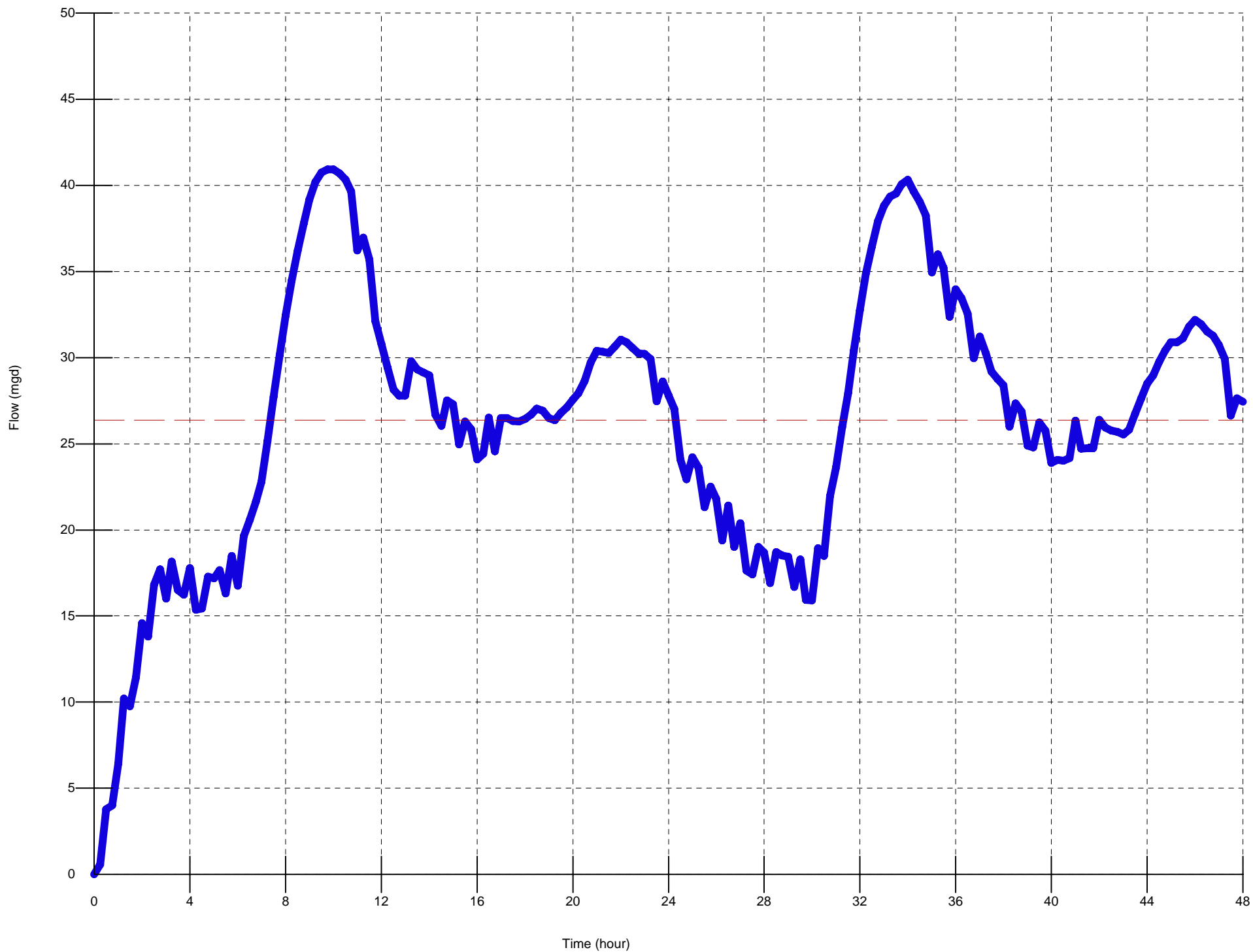
Manhole Hydraulic Performance PWWF at Buildout					
ID	Rim Elevation (ft)	Maximum Grade (ft)	Maximum Grade Time	Load (mgd)	Depth (ft)
CH1389	1007.64	994.41	07:45 hr	0.0062	0.116
CH1391	1006.45	992.05	07:45 hr	0.0272	0.144
CH1393	1008.73	996.62	07:15 hr	0.0064	0.122
CH1395	994.50	979.54	08:00 hr	0.3009	0.707
CH1397	0.00	0.00	00:00 hr	0.0000	0.000
CH1399	0.00	0.00	00:00 hr	0.0000	0.000
CH1401	0.00	0.00	00:00 hr	0.0000	0.000
CH1403	1069.16	1055.98	20:15 hr	0.1731	0.256
CH1405	1050.86	1042.58	20:30 hr	0.2368	0.314
CH1409	1004.75	992.38	00:00 hr	0.0000	0.000
CH1411	998.00	986.11	00:00 hr	0.0000	0.000
CH1413	947.00	934.07	09:30 hr	0.0000	1.174
CH1415	912.20	898.66	10:00 hr	0.0000	2.841



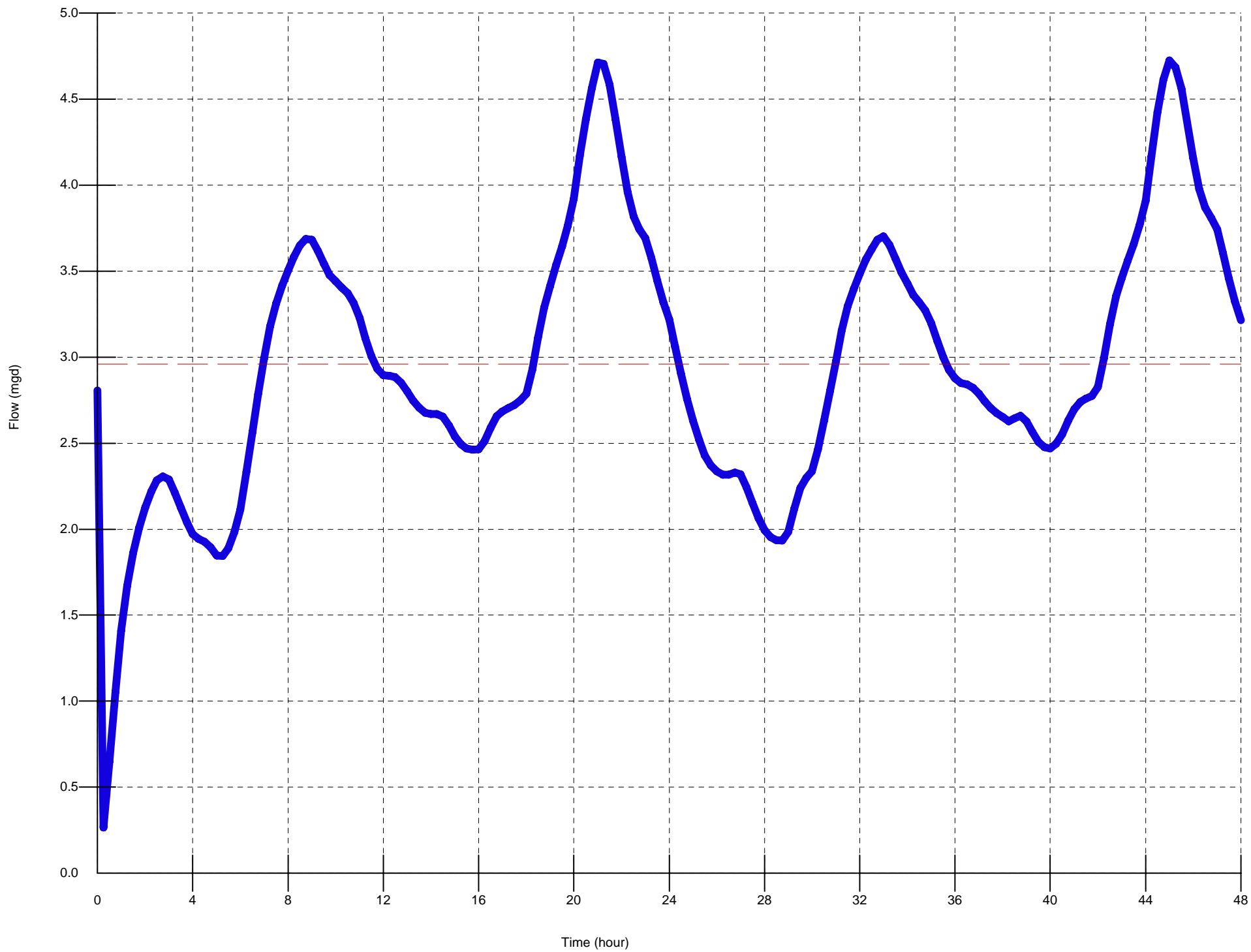
APPENDIX E

WRF INFLOW CURVES

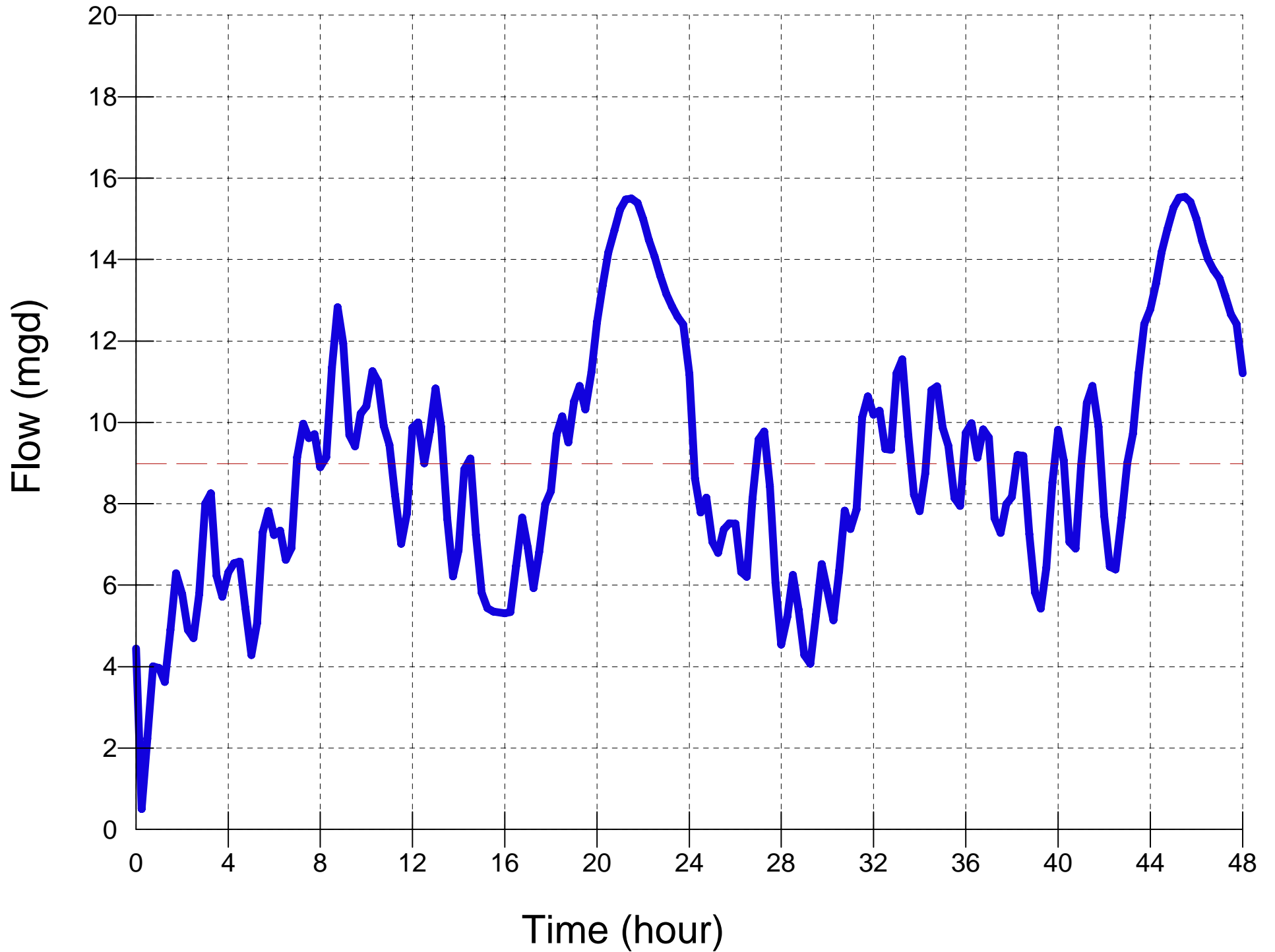
157th Ave WWTP PWWF - 2045



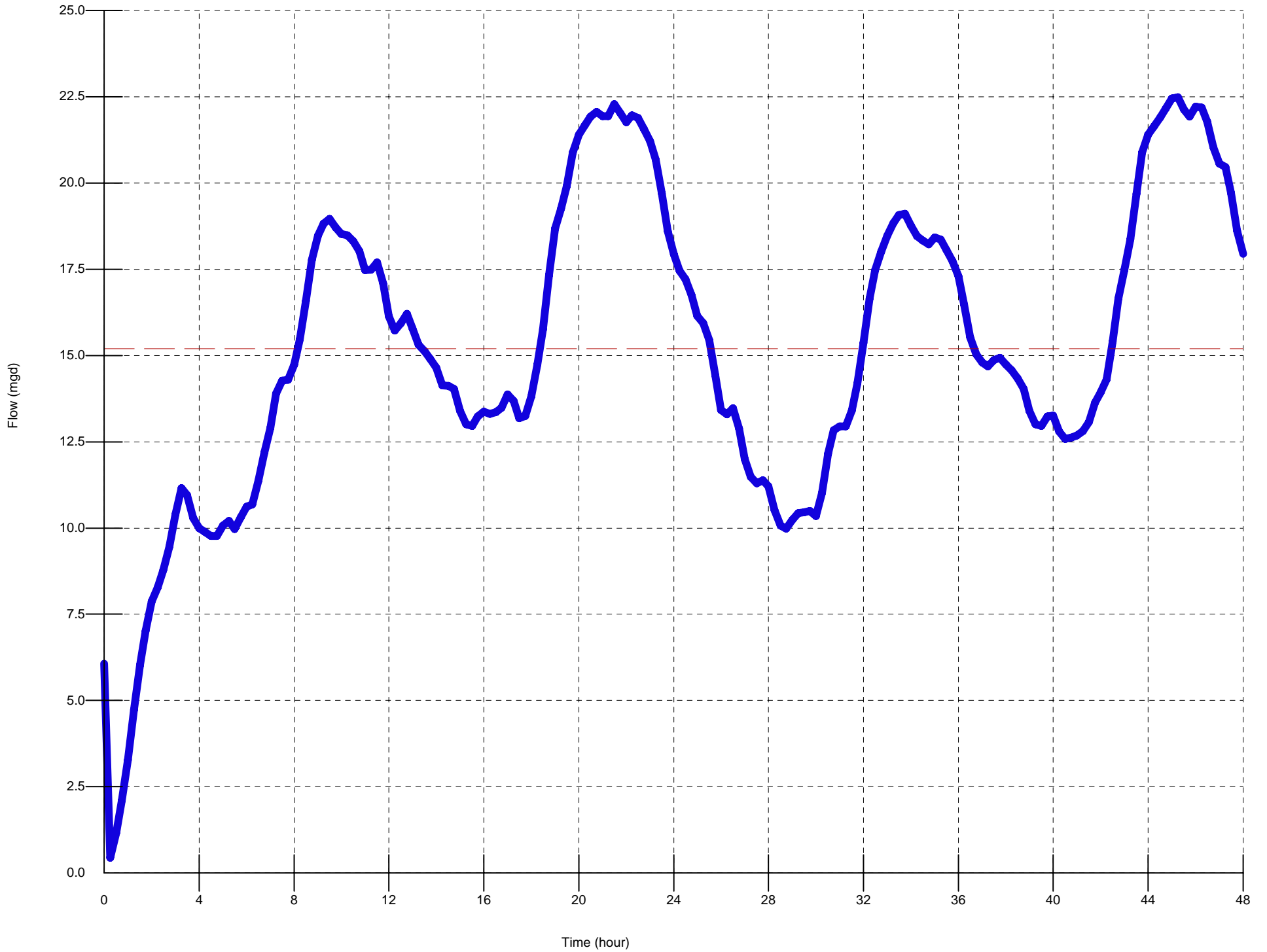
Corgett WRF - PWWF 2045



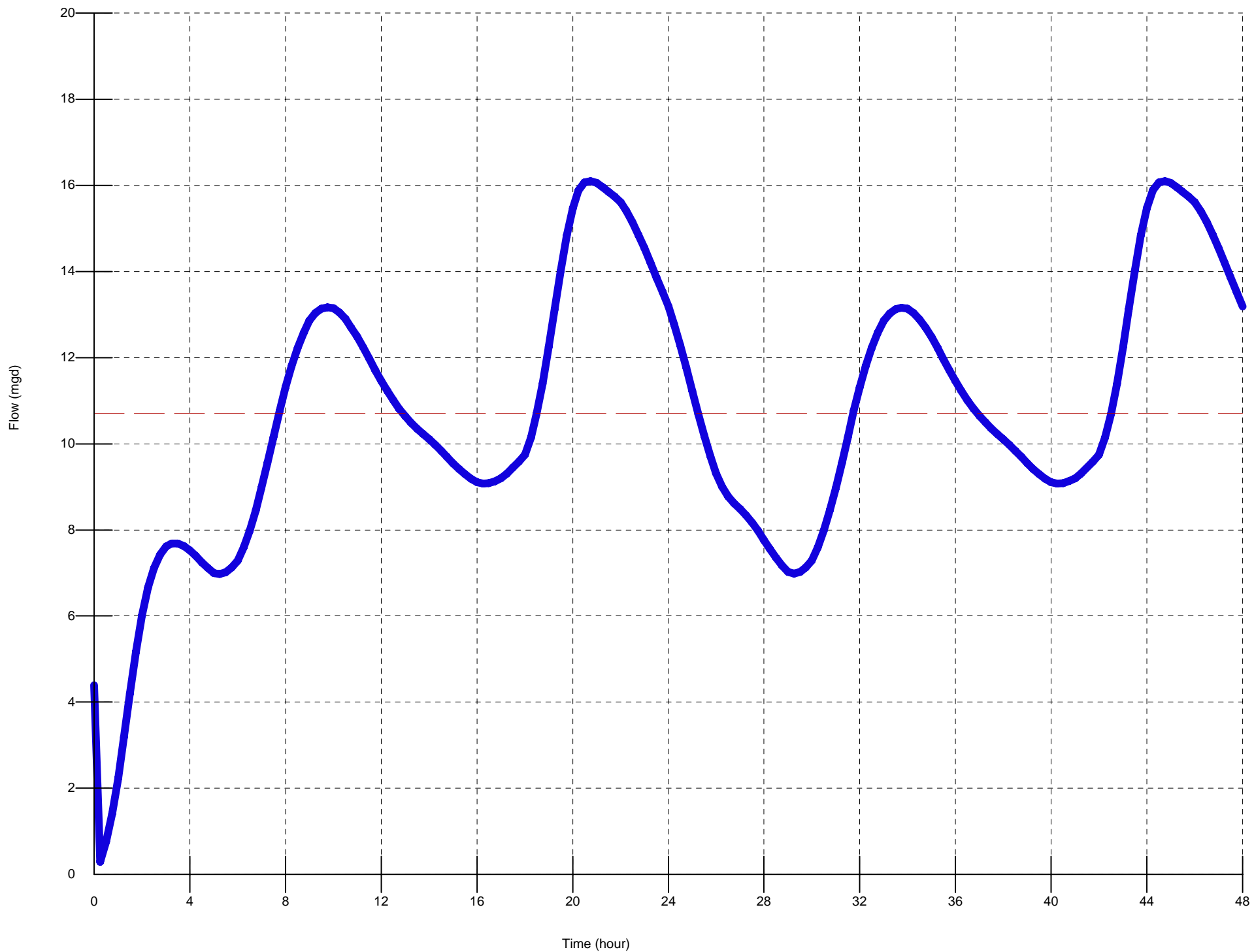
Rainbow Valley WRF - PWWF 2045



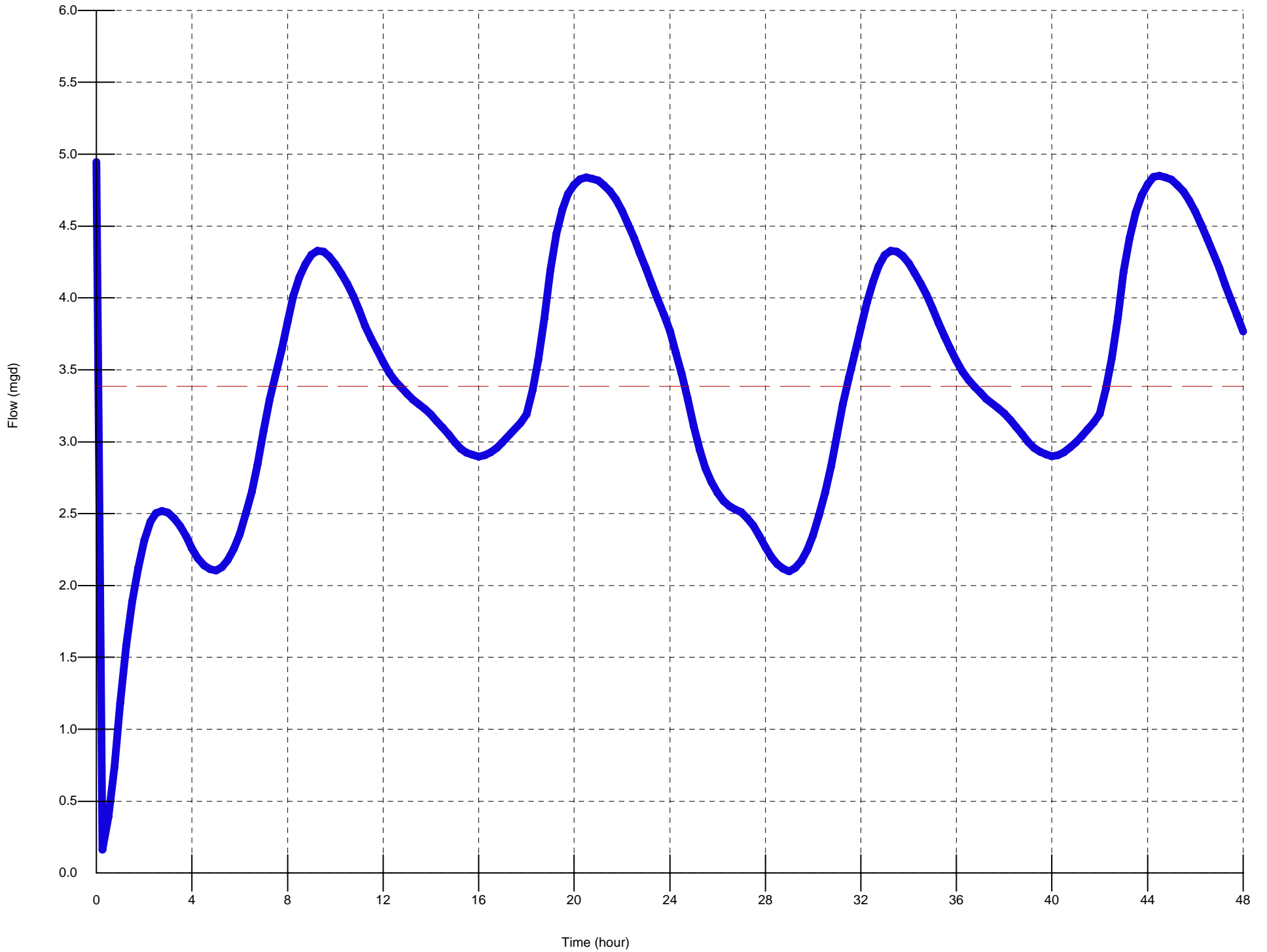
Pecos WRF



Waterman Wash WRF - PWWF 2045



Estrella WRF - PWWF 2045





APPENDIX F

TM 2-2 ADDENDUM



TECHNICAL MEMORANDUM NO. 2-2 ADDENDUM A

COLLECTION SYSTEM HYDRAULIC ANALYSIS

**DRAFT
NOVEMBER 2007**

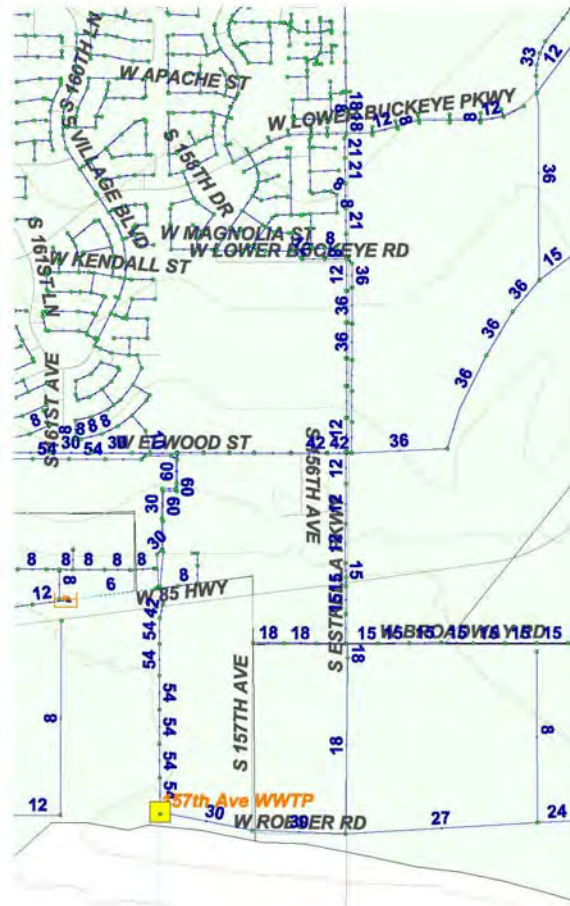
Introduction

The purpose of this technical memorandum addendum is to address alternative configurations to the 157th Ave Wastewater Treatment Plant (WWTP) north interceptor and increased loading in the 157th WWTP basin due to proposed higher densities in the Airport Gateway area and acceptance of 4 mgd of flow from LPSCO. The first section develops the various alternate configurations of the north interceptor and the hydraulic performance associated with each. The second part of this addendum further develops the implications of the two flow increases on the collection system layout and pipeline sizes.

157th Ave WWTP North Interceptor

The 157th Ave WWTP Basin collection system was designed to convey all flows generated in this basin at buildout to the 157th Ave WWTP through two main interceptors (the north and east) and a force main which conveys flow from King Ranch, south of the Gila River, to the plant. The initial design for the north interceptor, presented in TM 2-2, was based on a single 54-inch sewer line arriving at the 157th Ave WWTP entrance at an invert of 893.22 feet. Figure 1 shows the initial 157th Ave WWTP collection system pipe layout. The maximum d/D in this line was 0.54 under peak wet weather flow (PWWF). This met the design guideline of d/D less than 0.65 under PWWF and also left a small margin of capacity in the line as is the case with many of the existing upstream sewers (such as the 54-inch Dunlap sewer) which are also underutilized with the buildout loads applied to the model.

Figure 1: Initial 157th Ave WWTP Collection System Pipe Layout



At the City's request, additional configurations of diameter and slope were considered for the 157th Ave WWTP north interceptor. The following three scenarios were analyzed:

- A single north interceptor arriving at the plant entrance crown of 899.75.
- A single north interceptor arriving at the plant entrance at a crown between 896.22 and 899.75.
- Parallel line to the existing 36-inch interceptor with the parallel line entering the plant at a matching crown elevation of 899.75 ft.

The goal in all cases is to keep the plant entrance inverts at a minimum depth because the groundwater table is high along the Gila River where the 157th Ave WWTP is located. For each scenario, the hydraulic analysis was completed under the existing buildout loadings calculated from the land use in TM 2-1. The results from the analysis are presented in Table 1.



Table 1: 157th Ave WWTP North Interceptor Alternatives

Interceptor Configuration	Diameter (in)	Slope	Maximum d/D	Invert at Plant Entrance (ft)	Crown Elevation (ft)
Initial 54-inch	54	0.0020	0.54	893.22	897.72
60-inch	60	0.0013	0.53	894.75	899.75
54-inch	54	0.0013	0.63	895.25	899.75
Parallel	48 parallel	0.0014	0.59	895.75	899.75
	36 existing	0.0012	0.62	896.75	899.75

It should be noted that several of the north interceptor options now experience a maximum d/D closer to 0.65 leaving less margin in the pipe design available to use if the Dunlap and other sewer lines were to maximize their capacity. The initial 54-inch configuration had a reserve margin which would have allowed for more flow to be conveyed to the plant through the north interceptor. It should be noted that in incoming flow hydrographs for all three North Interceptor options is unchanged from that in TM 2-2. Additional hydraulic performance details and pipeline profiles can be found in Appendix A.

Increased Flows in the 157th Ave WWTP Basin

Black & Veatch was also directed to analyze the potential impact of increased flow in the 157th Ave WWTP Basin at buildout resulting from two options:

- Option 1 Increased Airport Gateway Flows
- Option 2 LPSCO 4 mgd Flow

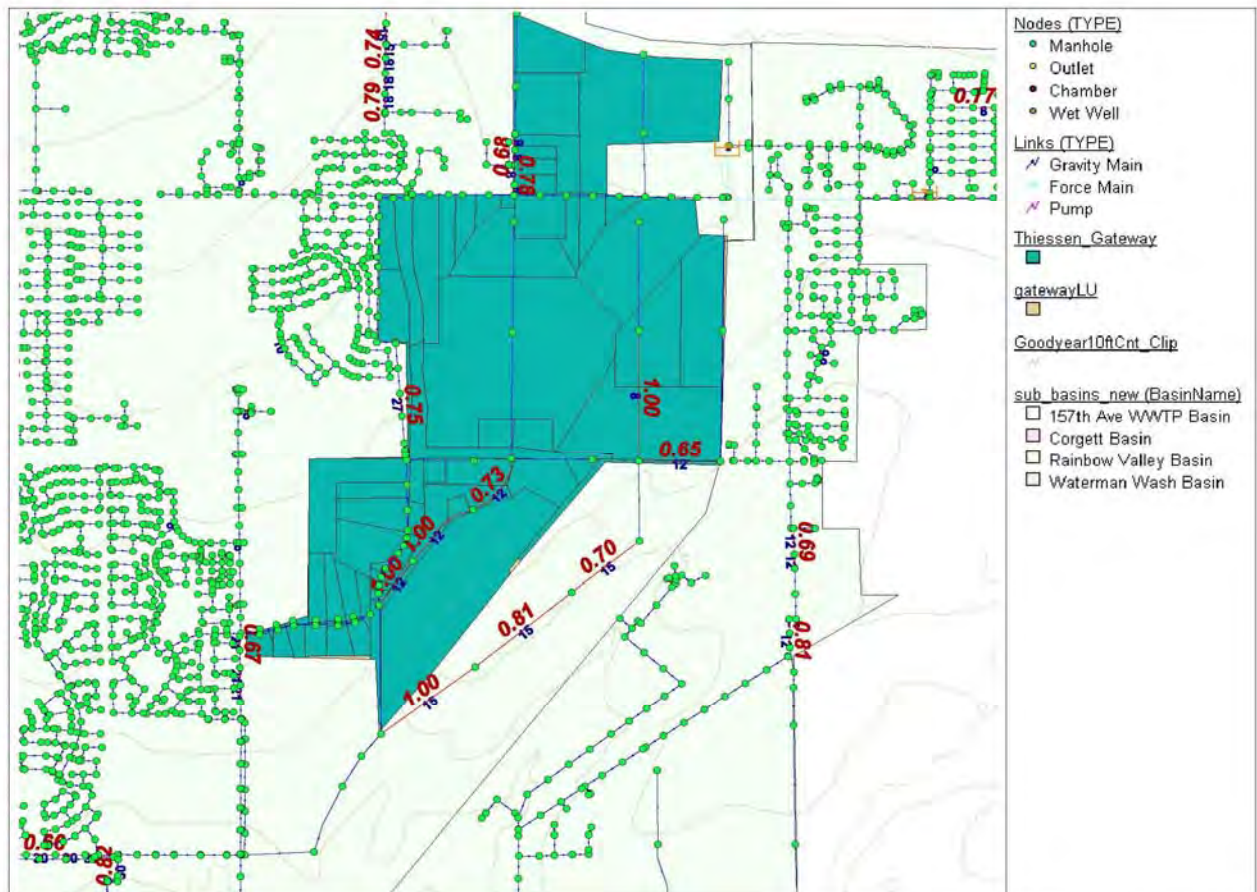
The first source of increased flow is from the increased densities located in the Airport Gateway Area. This is described in the presentation created by the City of Goodyear Economic Development Department in April 2007. A print out of the Power Point slides is provided in Appendix B. Black & Veatch recreated the Airport Gateway Area and allocated loading to nodes in this area using the same allocation process as referenced in TM 2-2. Table 2 shows that the increased densities encompass approximately 1,400 acres and that an additional 1.2 mgd ADWF was allocated to this area in the model. The combined 2.4 mgd ADWF is peaked in accordance with the PDWF and PWWF factors developed in TM 2-2

Table 2: Airport Gateway Area Allocation

Model Allocation ADWF			
Land Use	Acerage	Unit Rate	Load (mgd)
Airport	8.88	170	0.002
Ball Park	8.04	3851	0.031
Community Commercial	129.04	951	0.122
General Industrial	252.32	1087	0.274
Light Industrial	849.44	815	0.691
M-HD Residential	61.58	1867	0.115
Open Space	78.56	0	0.000
Public/ Quasi Public	3.62	1699	0.004
	1391.48		1.237

Figure 2 shows where the current proposed buildout collection system experienced d/D greater than 0.65 with the increased Gateway loadings. The Airport Gateway Area is highlighted in green.

Figure 2: d/D in Proposed Build Out System with Increased Gateway Flows



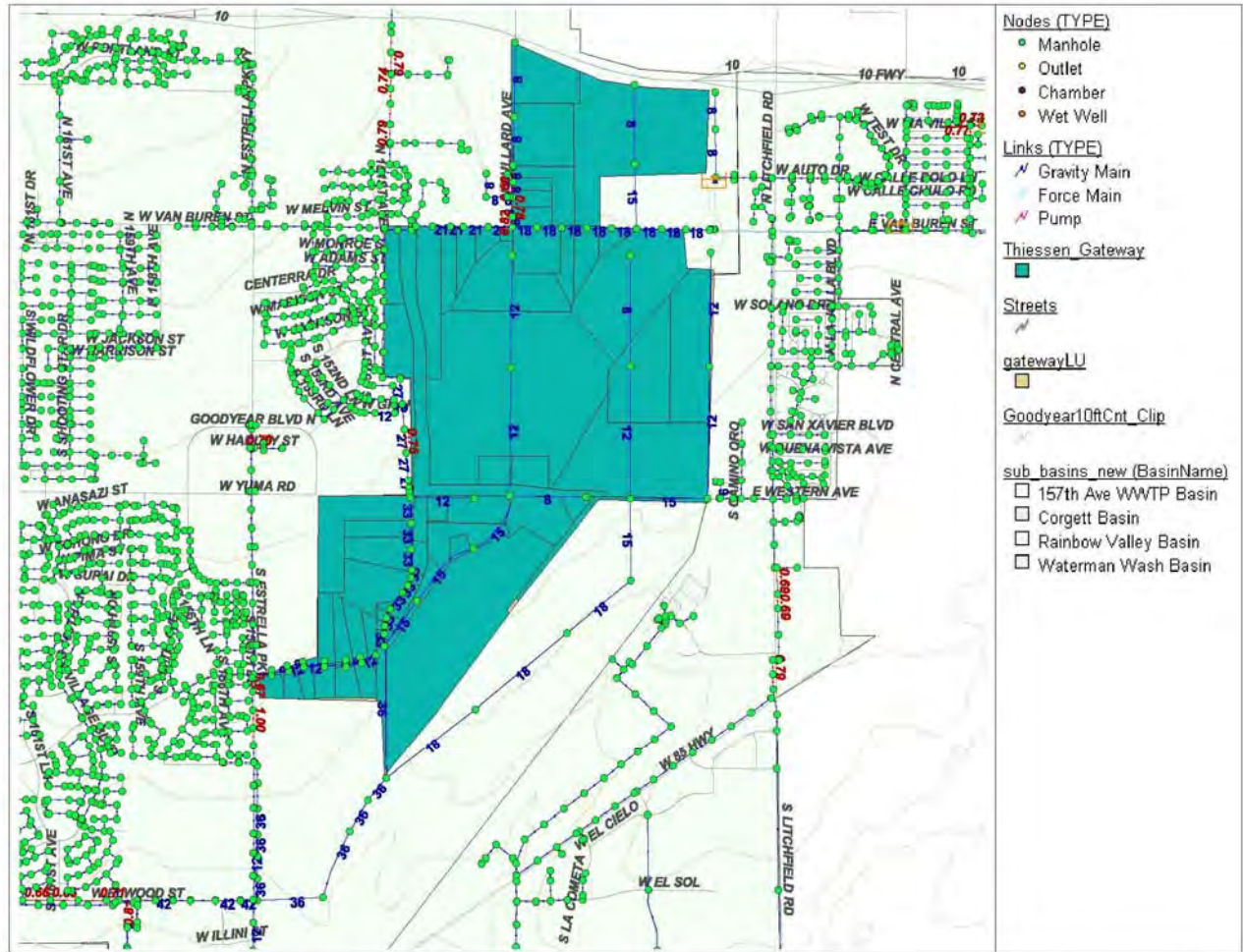
Prepared By: Black & Veatch

Date: Monday, November 19, 2007



Pipe diameters were resized to accommodate the increased flows and maintain a d/D of less than 0.65. The recommended pipe diameters to accommodate the increased Airport Gateway flows are shown in Figure 3.

Figure 3: Resized Pipe Diameters to Accommodate Increased Airport Gateway Flows



Prepared By: Black & Veatch

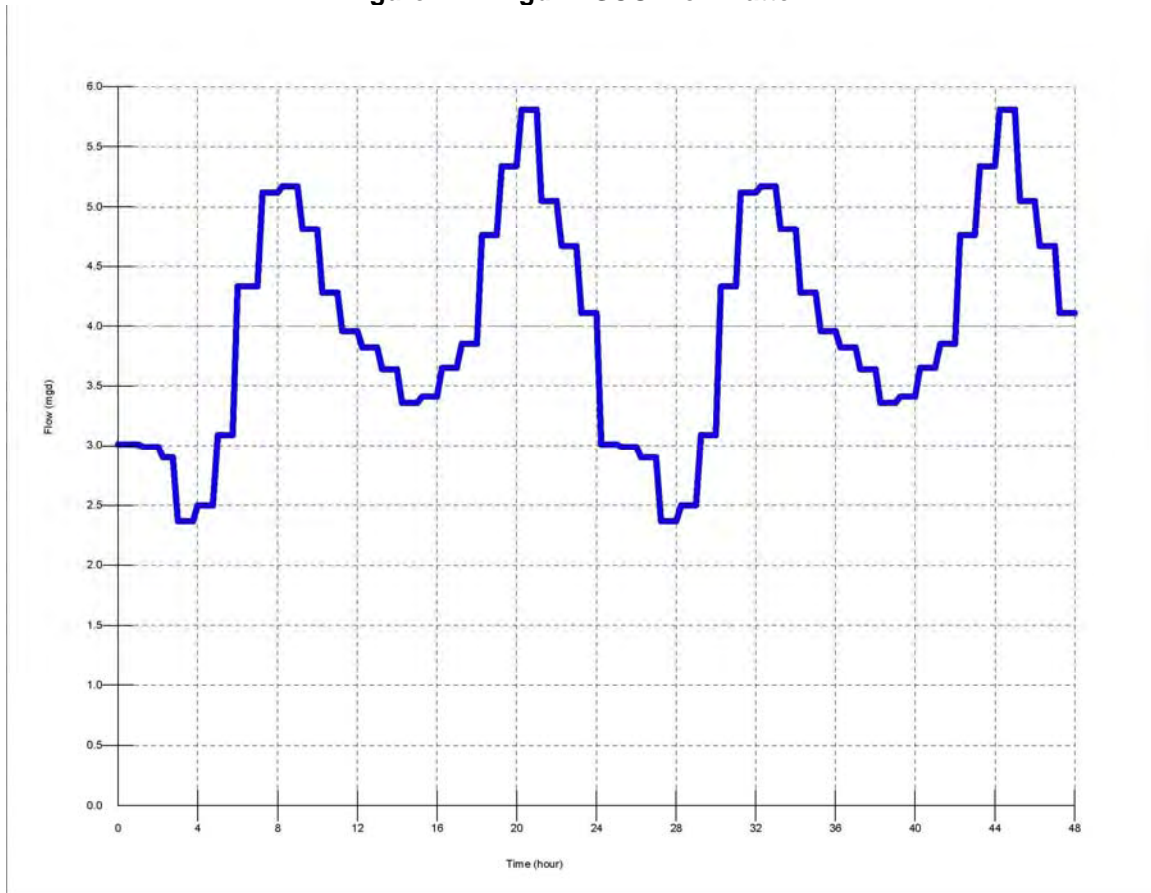
Date: Monday, November 19, 2007

As shown in Figure 3, there are several existing pipe segments near the Airport Gateway Area with a d/D greater than 0.65. Upon inspection in the model, it was found that these result from uneven slope over several short pipe segments and that if a steady slope is input over the reach in question, the issue of overloading and/or surcharging is corrected. The City may wish to field verify constructed conditions in the field to see if adverse conditions actually exist before taking any corrective action.



The second source of increased flow comes from LPSCO diverting up to 4 mgd ADWF to the City of Goodyear for treatment. Black & Veatch assumed that this flow would vary in accordance with typical diurnal patterns and that it was comprised of approximately 3 mgd of residential flow and 1 mgd of commercial flow. It was also assumed that this flow would be restricted to ADWF conditions and would not carry PDWF or PWWF loadings. The typical residential and commercial patterns used in the Goodyear Collection System model were applied to the LPSCO residential and commercial flows. The resulting 4 mgd LPSCO flow pattern is shown in Figure 4.

Figure 4: 4 mgd LPSCO Flow Pattern



As seen from Figure 4, the daily average 4 mgd of LPSCO flow can peak at up to 5.75 mgd.

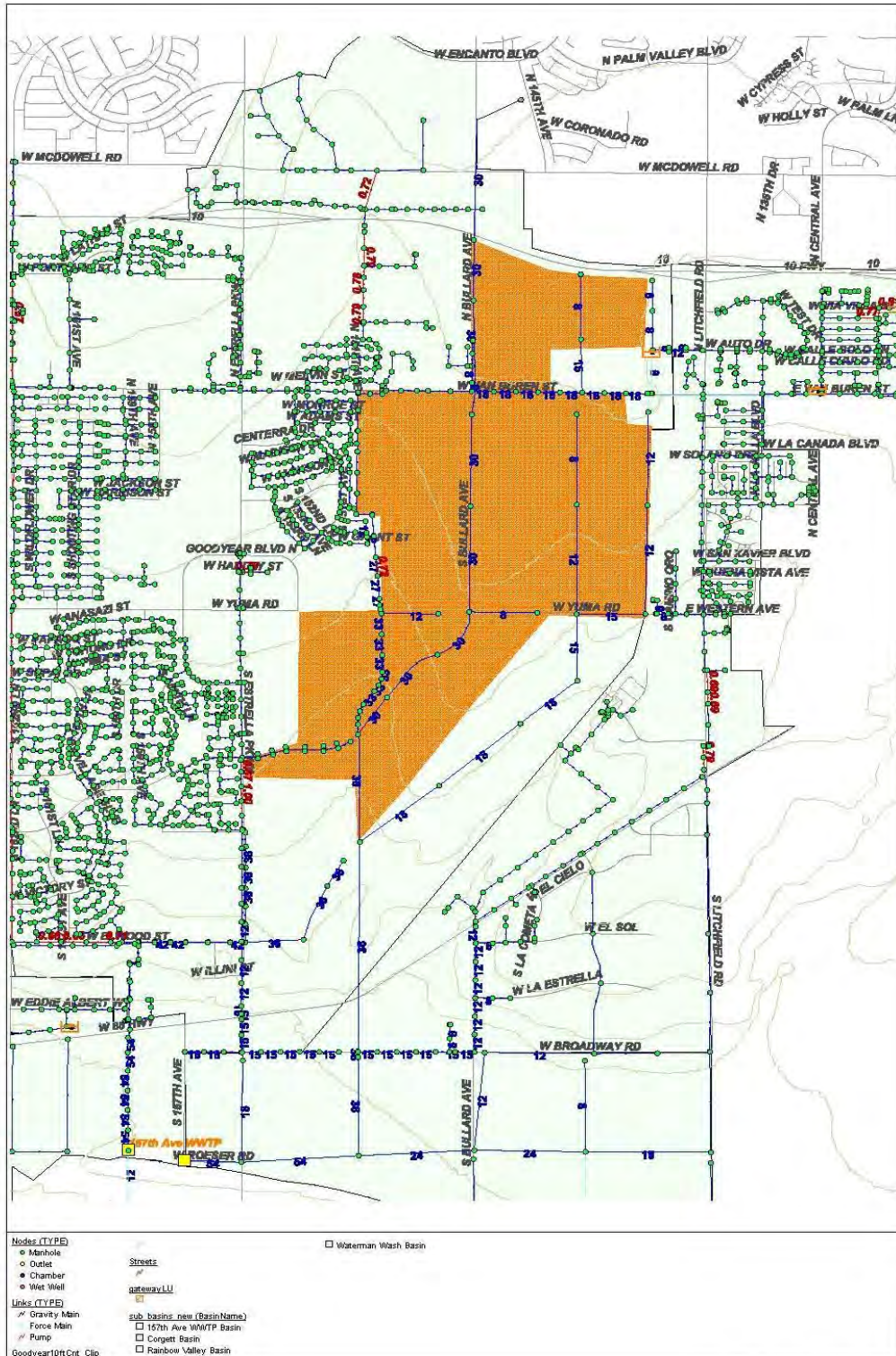
A new pipeline is proposed to convey the 4 mgd of LPSCO flow south along Bullard Ave. to the east interceptor between Bullard Ave and Estrella Parkway. Pipe diameters north of Yuma Rd have substantially increased in size to accommodate the higher flow. The pipeline bypasses the Van Buren Street alignment, but picks up most of the flows from the Airport Gateway Area, the residential developments north of Yuma Road and East of Estrella Parkway, and the commercial developments north of I-10. In the proposed LPSCO pipeline alignment the Elwood sewer no longer conveys flows to the 157th Ave WWTP east of 151st Ave. This eliminates some of the heavy flow through the north interceptor just south of Elwood St. Some of the flow in the 15-inch pipeline along Broadway Rd has been intercepted by the proposed LPSCO alignment which also alleviates some of the higher loading in the 15-inch pipeline near Broadway and Estrella Parkway. The final reach of the east interceptor will need to increase in size from a 30-inch pipe to 54-inches. Figure 5 shows the proposed LPSCO alignment at buildout and Figure 6 shows the original proposed buildout collection system sized to accommodate the City’s land use. The



eastern interceptor now arrives at an eastern plant entrance, at Roesser Road and 157th Avenue, at a crown elevation of 899.22 which matches the crown elevation used in the initial TM 2-2 eastern interceptor design.



Figure 5: Proposed Pipeline Alignment to Accommodate both Increased Flows from LPSCO and the Airport Gateway Area

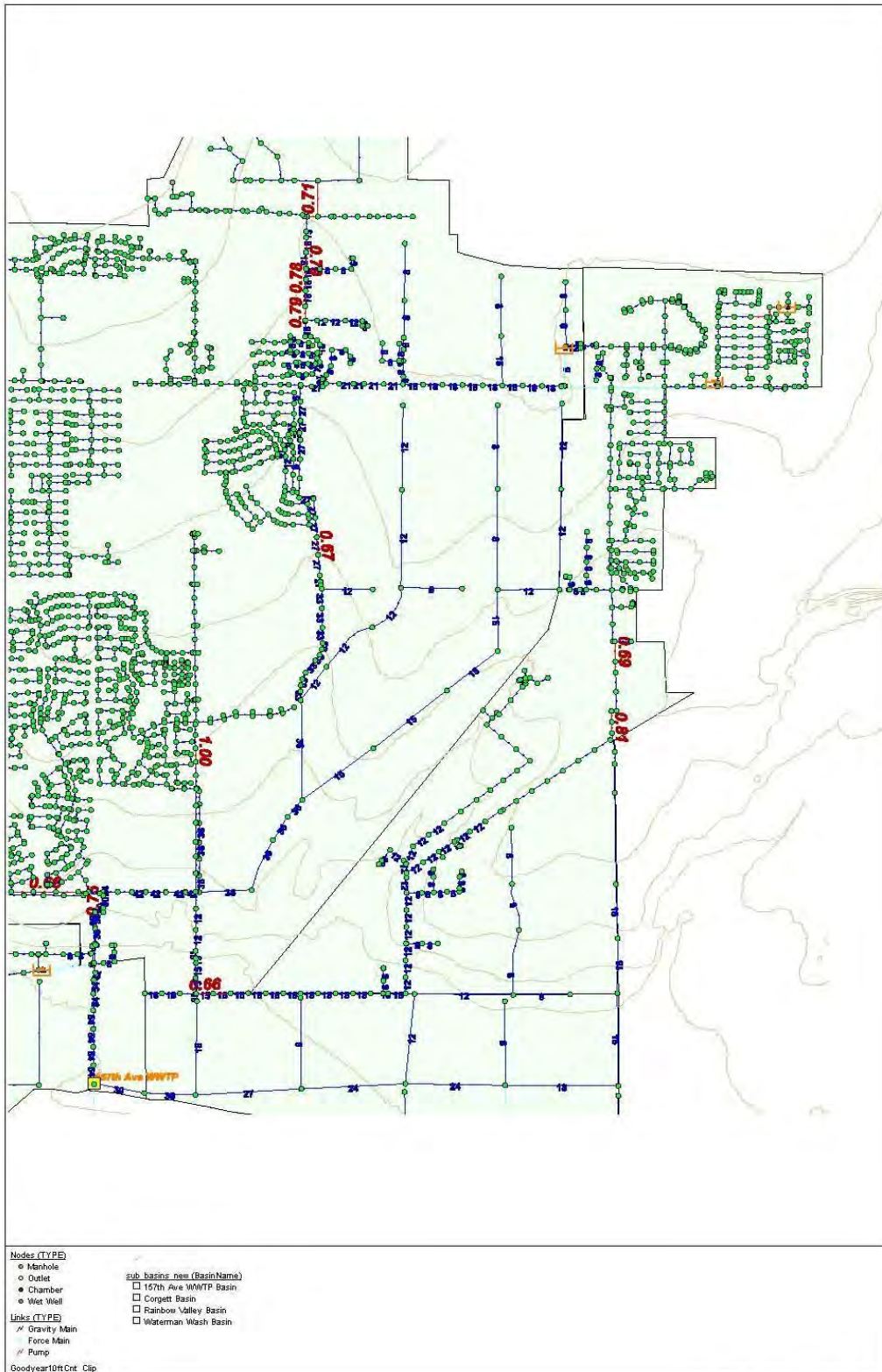


Prepared By: Black & Veatch

Date: Tuesday, November 20, 2007



Figure 6: Proposed Buildout with Current Land Use Loads



Prepared By: Black & Veatch

Date: Tuesday, November 20, 2007



The LPSCO alignment pipe profile and hydraulic performance are located in Appendix C. Inflow curves of both the east interceptor and north interceptor are located in Appendix D and are summarized in Table 3 below. It can be seen that in comparison to the original projections in TM 2-2, incoming plant flow has now changed as follows:

- Total 157th WWTP ADWF increases from 16.7 mgd to 21.9 mgd ADWF
- North Interceptor PWWF decreases from 32.3 mgd to 27.0 mgd
- East Interceptor PWWF increases from 6.2 mgd to 21.7 mgd
- Kings Ranch Force Main pumped flow remains at 2.1 mgd.

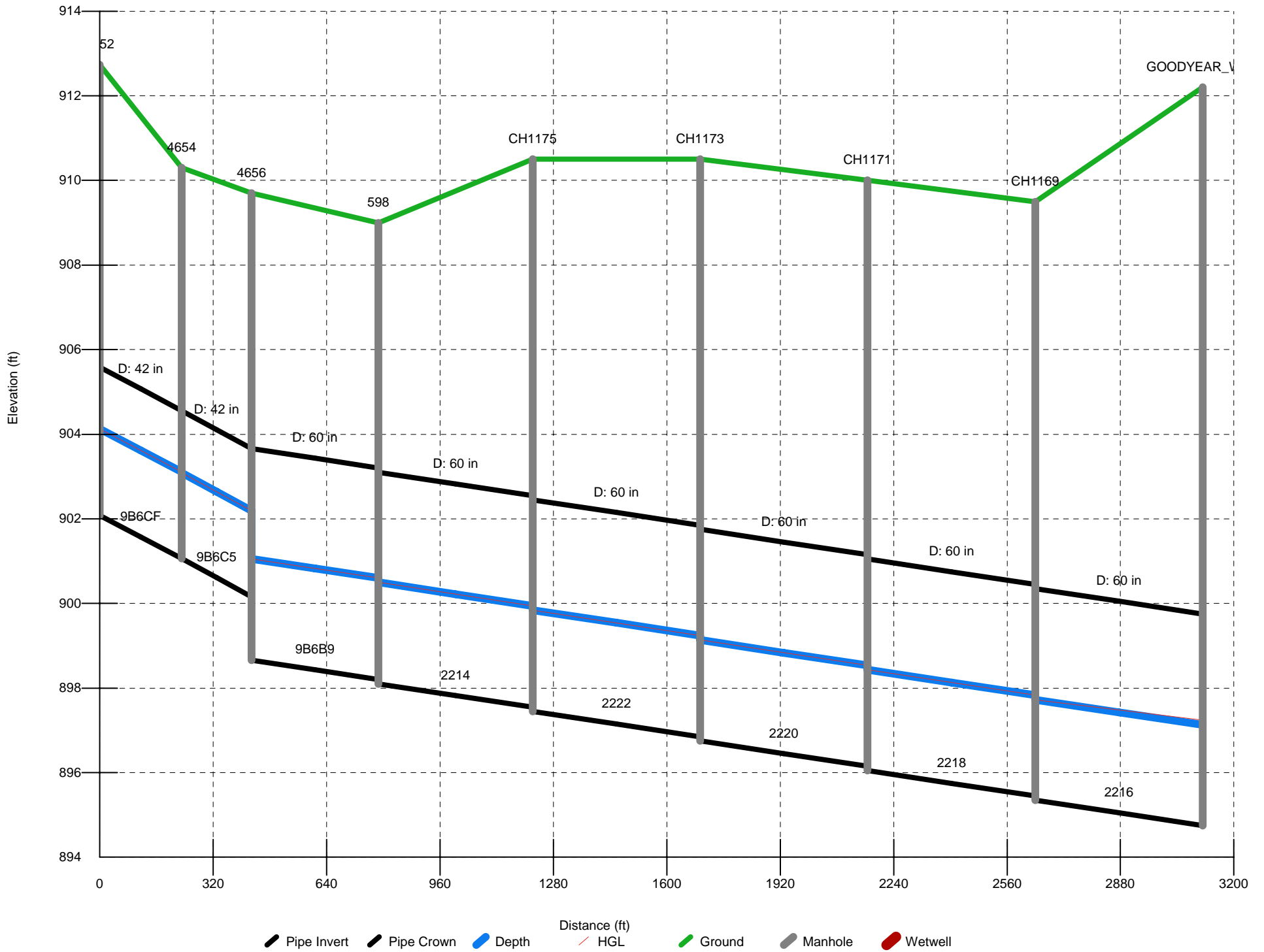
Table 3: 157th Ave WWTP PWW Flow Results

Alignment	Peak Flowrate
North Interceptor	27.0
East Interceptor	21.7
Kings Ranch Force Main	2.1
Total WWTP Influent	48.8

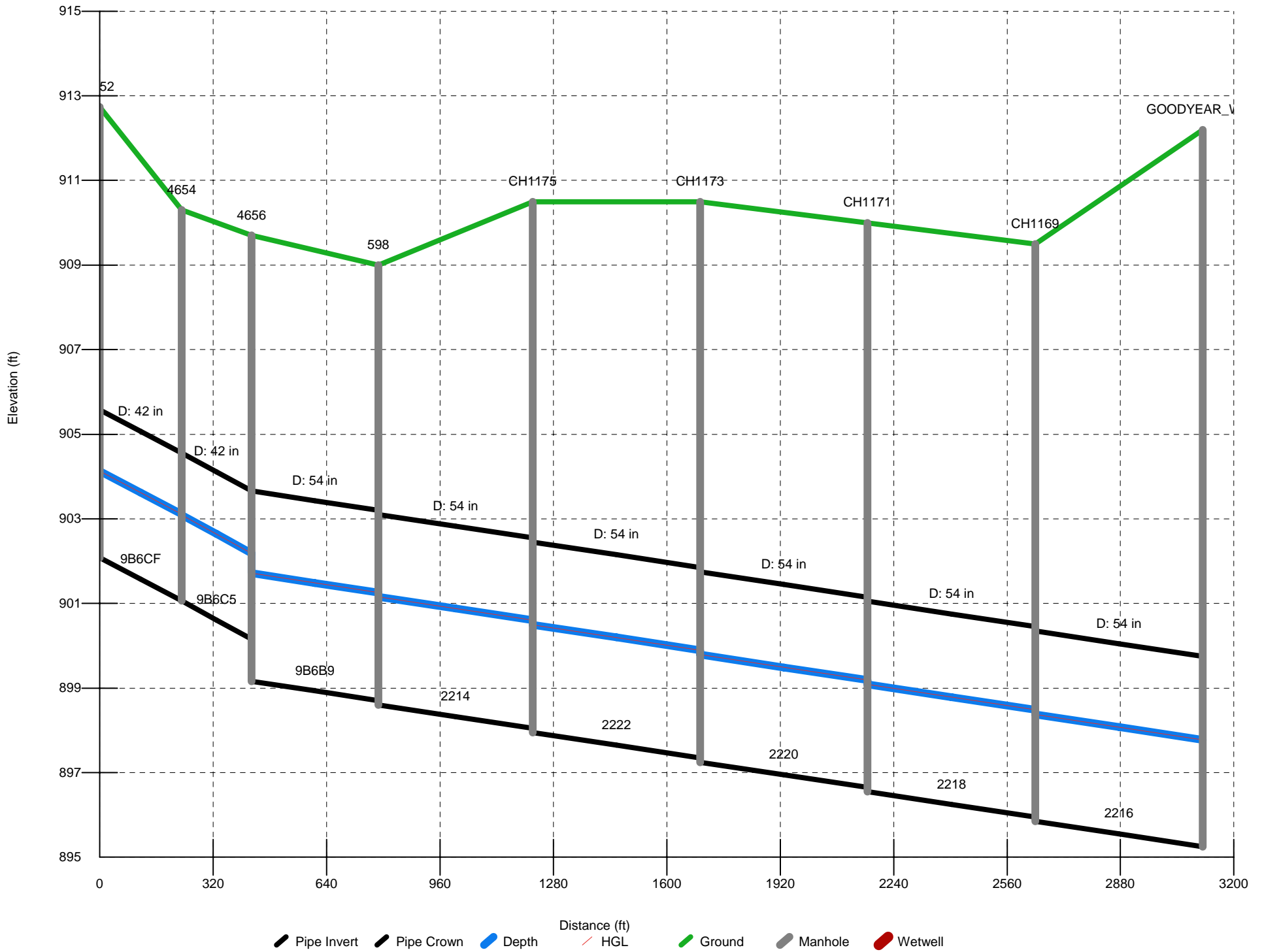


APPENDIX A PIPE HYDRAULIC PERFORMANCE PIPE PROFILES

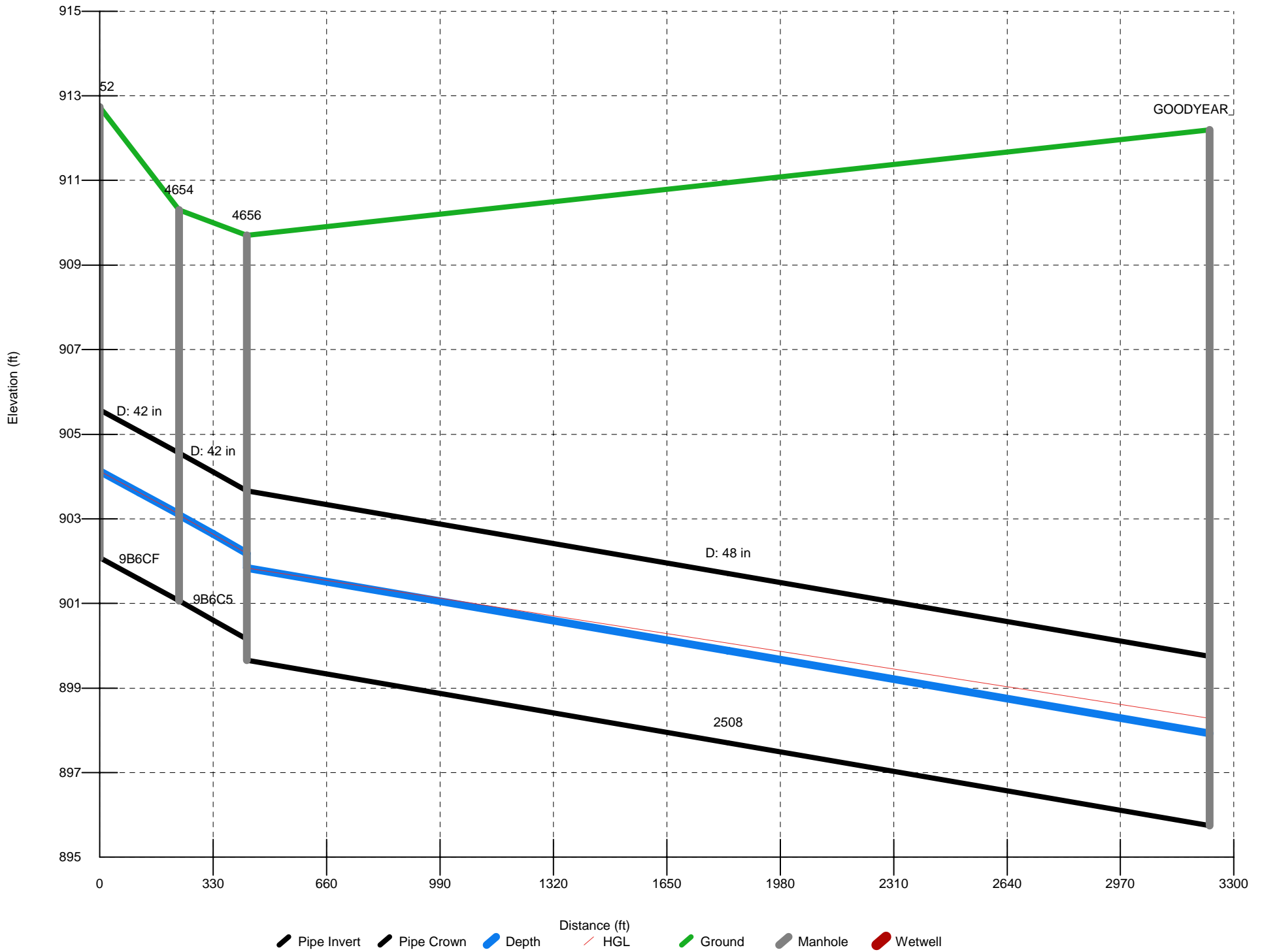
60-inch North Interceptor Pipe Profile @ 08:15



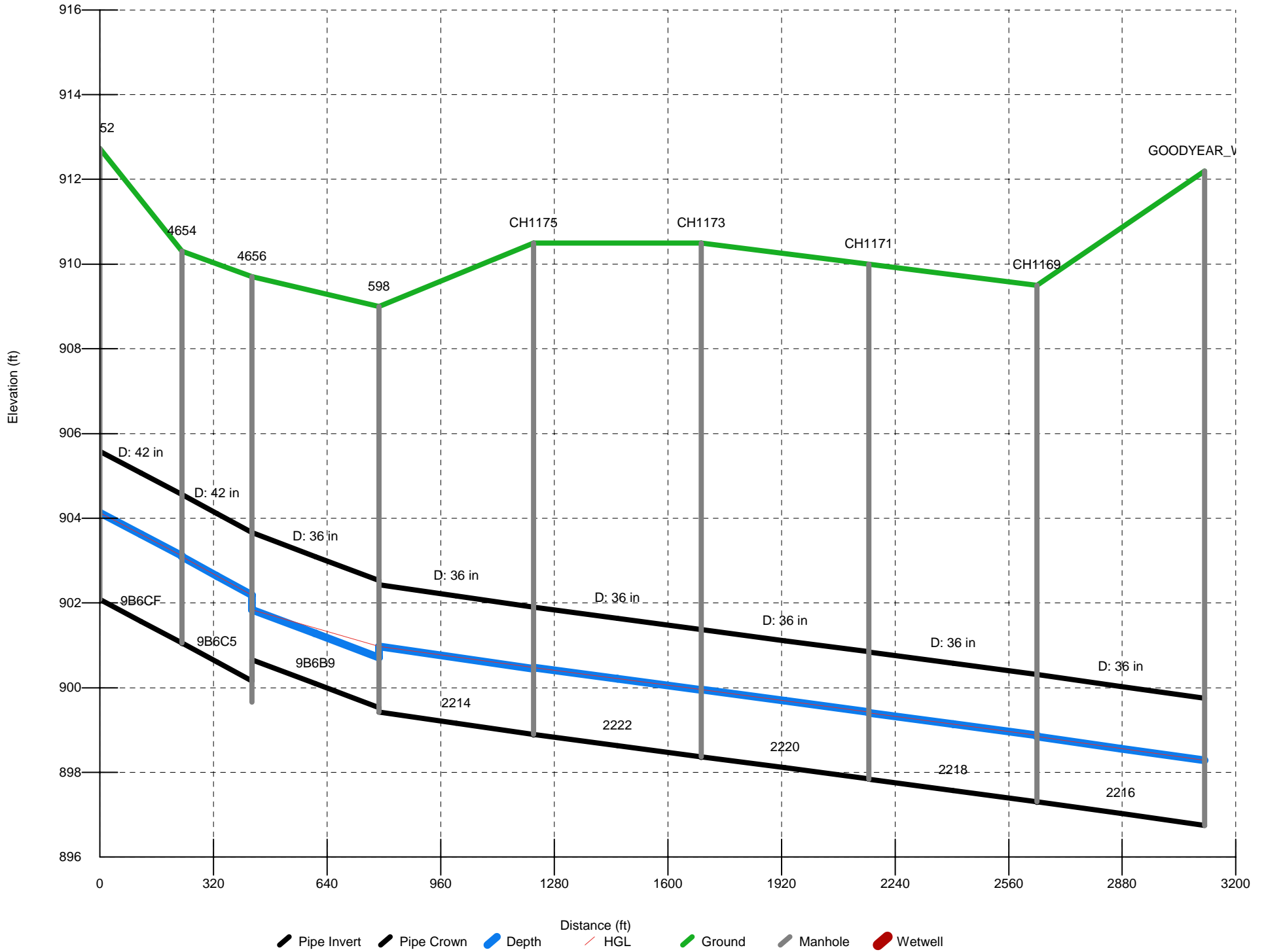
54-inch North Interceptor Pipe Profile @ 08:15



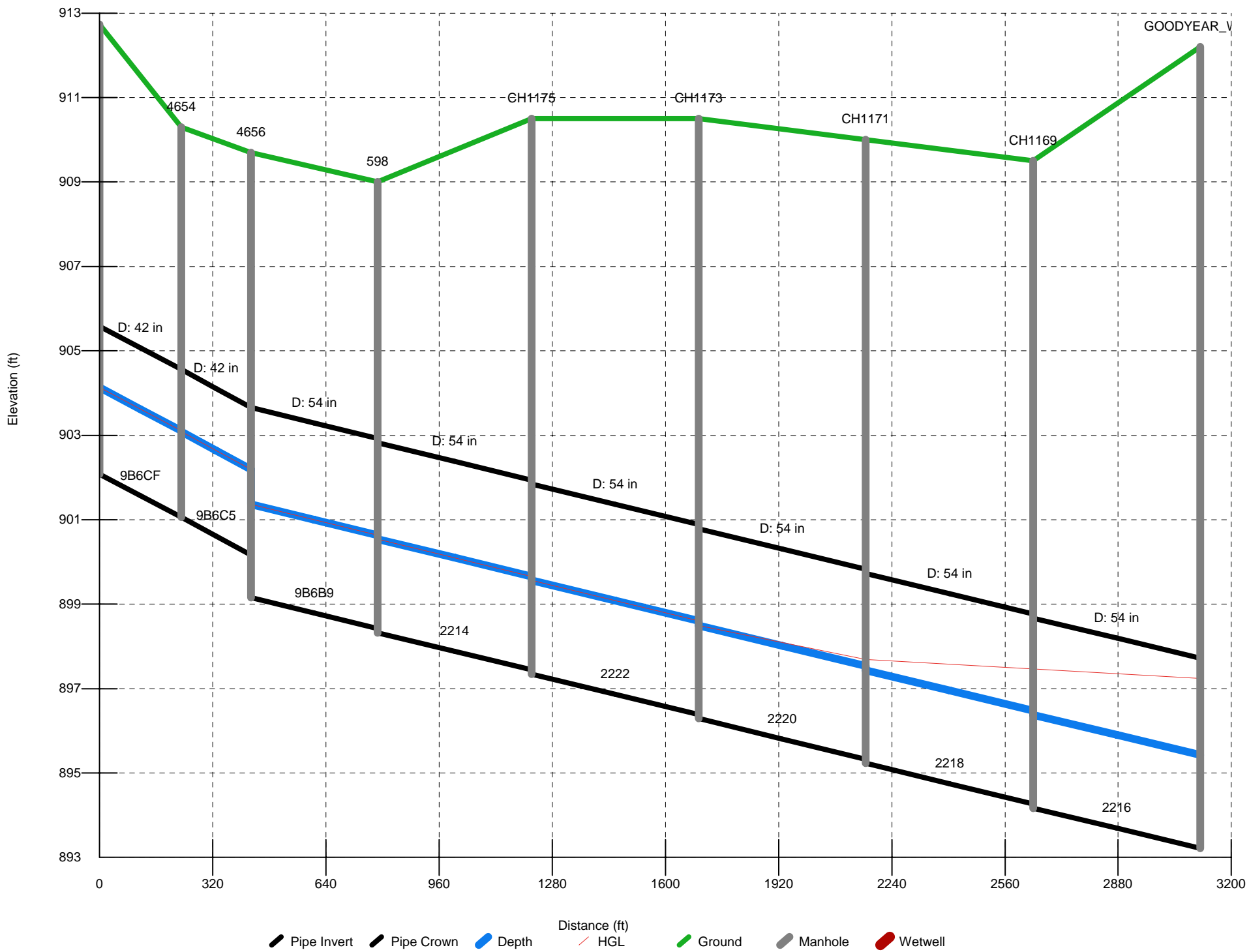
48-inch North Interceptor Parallel Pipe Profile @ 08:15



Existing 36-inch Pipe Profile @ 08:15



Initial 54-inch North Interceptor Pipe Profile @ 08:15



157th Ave WWTP: Initial 54-inch North Interceptor (invert at plant entrance 893.22)

ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time	Maximum Velocity	Maximum Water	Maximum Froude	Maximum d/D	Maximum q/Q	Maximum Critical
9B6CF	4652	4654	42	0.0044	32.65	09:45 hr	7.66	2.27	1.10	0.65	0.75	2.22
9B6C5	4654	4656	42	0.0046	32.64	09:45 hr	7.75	2.24	1.11	0.64	0.74	2.22
9B6B9	4656	598	54	0.0021	32.65	09:45 hr	5.80	2.42	0.78	0.54	0.56	2.06
2214	598	CH1175	54	0.0020	32.67	09:46 hr	5.76	2.43	0.77	0.54	0.57	2.06
2222	CH1175	CH1173	54	0.0020	32.69	09:46 hr	5.74	2.44	0.77	0.54	0.57	2.06
2220	CH1173	CH1171	54	0.0020	32.72	09:46 hr	5.77	2.43	0.77	0.54	0.57	2.06
2218	CH1171	CH1169	54	0.0020	32.77	10:00 hr	5.77	2.44	0.77	0.54	0.57	2.06
2216	CH1169	ODYEAR_V	54	0.0020	32.81	10:00 hr	5.75	2.45	0.77	0.54	0.57	2.06

157th Ave WWTP: 60-inch North Interceptor (invert at plant entrance 894.75)

ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time	Maximum Velocity	Maximum Water	Maximum Froude	Maximum d/D	Maximum q/Q	Maximum Critical
9B6CF	4652	4654	42	0.0044	32.6474	09:45 hr	7.66	2.27	1.10	0.65	0.75	2.22
9B6C5	4654	4656	42	0.0046	32.6449	09:45 hr	7.75	2.24	1.11	0.64	0.74	2.22
9B6B9	4656	598	60	0.0013	32.6506	09:46 hr	4.84	2.62	0.62	0.52	0.54	1.99
2214	598	CH1175	60	0.0013	32.6604	09:46 hr	4.84	2.63	0.62	0.53	0.54	1.99
2222	CH1175	CH1173	60	0.0013	32.6767	09:46 hr	4.84	2.63	0.62	0.53	0.54	1.99
2220	CH1173	CH1171	60	0.0013	32.7114	09:59 hr	4.84	2.63	0.62	0.53	0.54	1.99
2218	CH1171	CH1169	60	0.0013	32.766	10:00 hr	4.84	2.63	0.62	0.53	0.54	2.00
2216	CH1169	ODYEAR_V	60	0.0013	32.8049	10:00 hr	4.84	2.63	0.62	0.53	0.55	2.00

157th Ave WWTP: 54-inch North Interceptor (invert at plant entrance 895.25)

ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time	Maximum Velocity	Maximum Water	Maximum Froude	Maximum d/D	Maximum q/Q	Maximum Critical
9B6CF	4652	4654	42	0.0044	32.6474	09:45 hr	7.66	2.27	1.10	0.65	0.75	2.22
9B6C5	4654	4656	42	0.0046	32.6449	09:45 hr	7.75	2.24	1.11	0.64	0.74	2.22
9B6B9	4656	598	54	0.0013	32.6499	09:46 hr	4.81	2.82	0.61	0.63	0.72	2.06
2214	598	CH1175	54	0.0013	32.658	09:46 hr	4.81	2.82	0.61	0.63	0.72	2.06
2222	CH1175	CH1173	54	0.0013	32.6728	09:47 hr	4.81	2.83	0.61	0.63	0.72	2.06
2220	CH1173	CH1171	54	0.0013	32.7108	09:59 hr	4.81	2.83	0.61	0.63	0.72	2.06
2218	CH1171	CH1169	54	0.0013	32.7642	10:00 hr	4.81	2.83	0.61	0.63	0.72	2.06
2216	CH1169	ODYEAR_V	54	0.0013	32.8014	10:00 hr	4.81	2.83	0.61	0.63	0.72	2.06

157th Ave WWTP: 48-inch Parallel North Interceptor (invert at plant entrance 895.75)

ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time	Maximum Velocity	Maximum Water	Maximum Froude	Maximum d/D	Maximum q/Q	Maximum Critical
9B6CF	4652	4654	42	0.0044	32.6474	09:45 hr	7.66	2.27	1.10	0.65	0.75	2.22
9B6C5	4654	4656	42	0.0046	32.6449	09:45 hr	7.75	2.24	1.11	0.64	0.74	2.22
2508	4656	ODYEAR_V	48	0.0014	22.5716	09:54 hr	4.56	2.35	0.63	0.59	0.65	1.76

157th Ave WWTP: 36-inch Existing North Interceptor (invert at plant entrance 896.75)

ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time	Maximum Velocity	Maximum Water	Maximum Froude	Maximum d/D	Maximum q/Q	Maximum Critical
9B6CF	4652	4654	42	0.0044	32.6474	09:45 hr	7.66	2.27	1.10	0.65	0.75	2.22
9B6C5	4654	4656	42	0.0046	32.6449	09:45 hr	7.75	2.24	1.11	0.64	0.74	2.22
9B6B9	4656	598	36	0.0032	10.0751	09:45 hr	5.07	1.35	0.90	0.45	0.42	1.26
2214	598	CH1175	36	0.0012	10.0939	09:46 hr	3.54	1.80	0.56	0.60	0.67	1.26
2222	CH1175	CH1173	36	0.0011	10.1179	09:47 hr	3.43	1.85	0.54	0.62	0.70	1.26
2220	CH1173	CH1171	36	0.0011	10.1668	10:00 hr	3.41	1.86	0.53	0.62	0.71	1.27
2218	CH1171	CH1169	36	0.0011	10.2202	10:00 hr	3.43	1.86	0.54	0.62	0.71	1.27
2216	CH1169	ODYEAR_V	36	0.0012	10.2582	10:00 hr	3.51	1.83	0.55	0.61	0.69	1.27



APPENDIX B AIRPORT GATEWAY AREA POWER POINT SLIDES

Goodyear, AZ

AIRPORT GATEWAY MASTERPLAN

Emerging Destination

April 2007

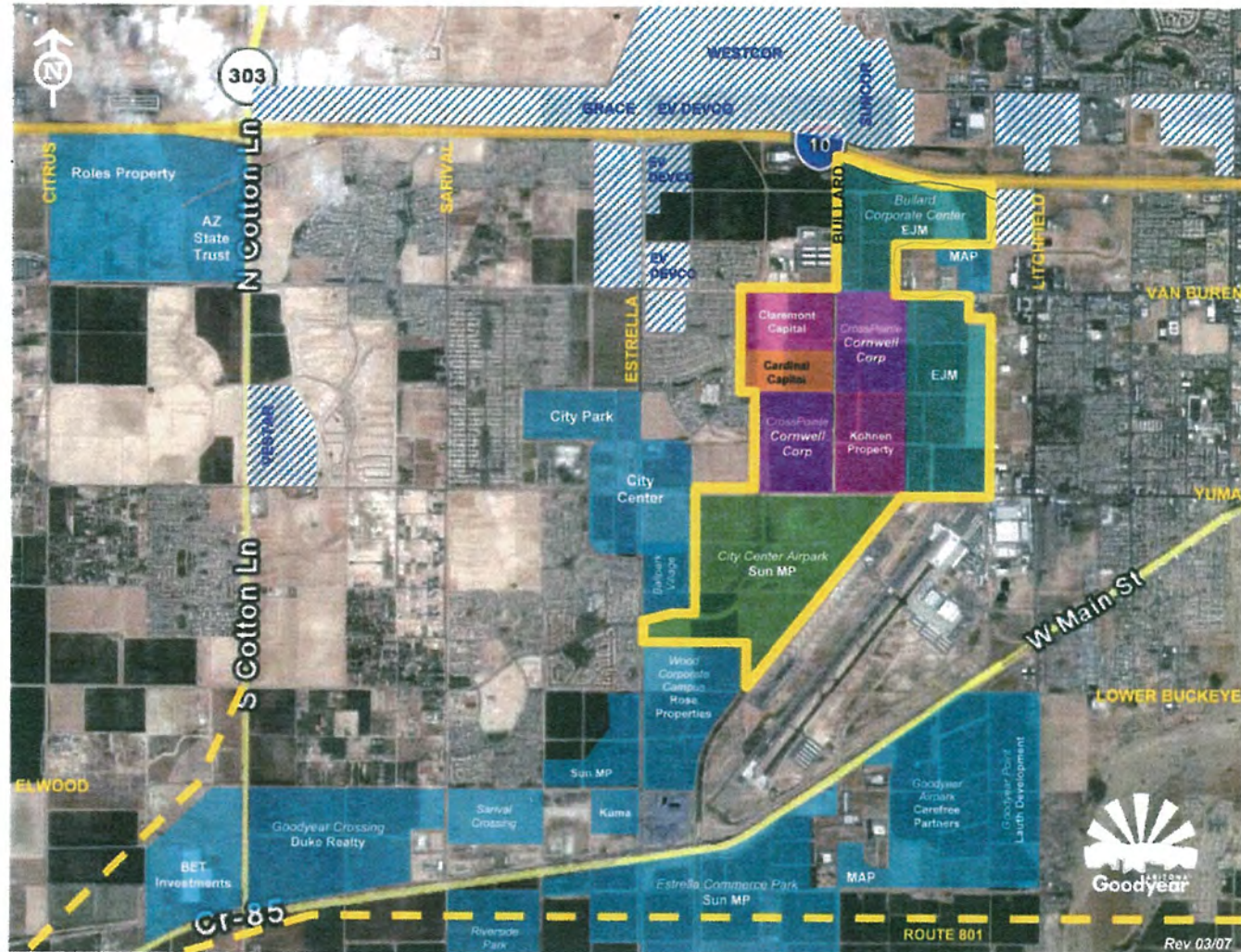


PREVIEW

- ◆ Introduction of Project
 - Development/Investor Group
 - SWA Group
- ◆ Next Steps
 - Planning
 - Implementation

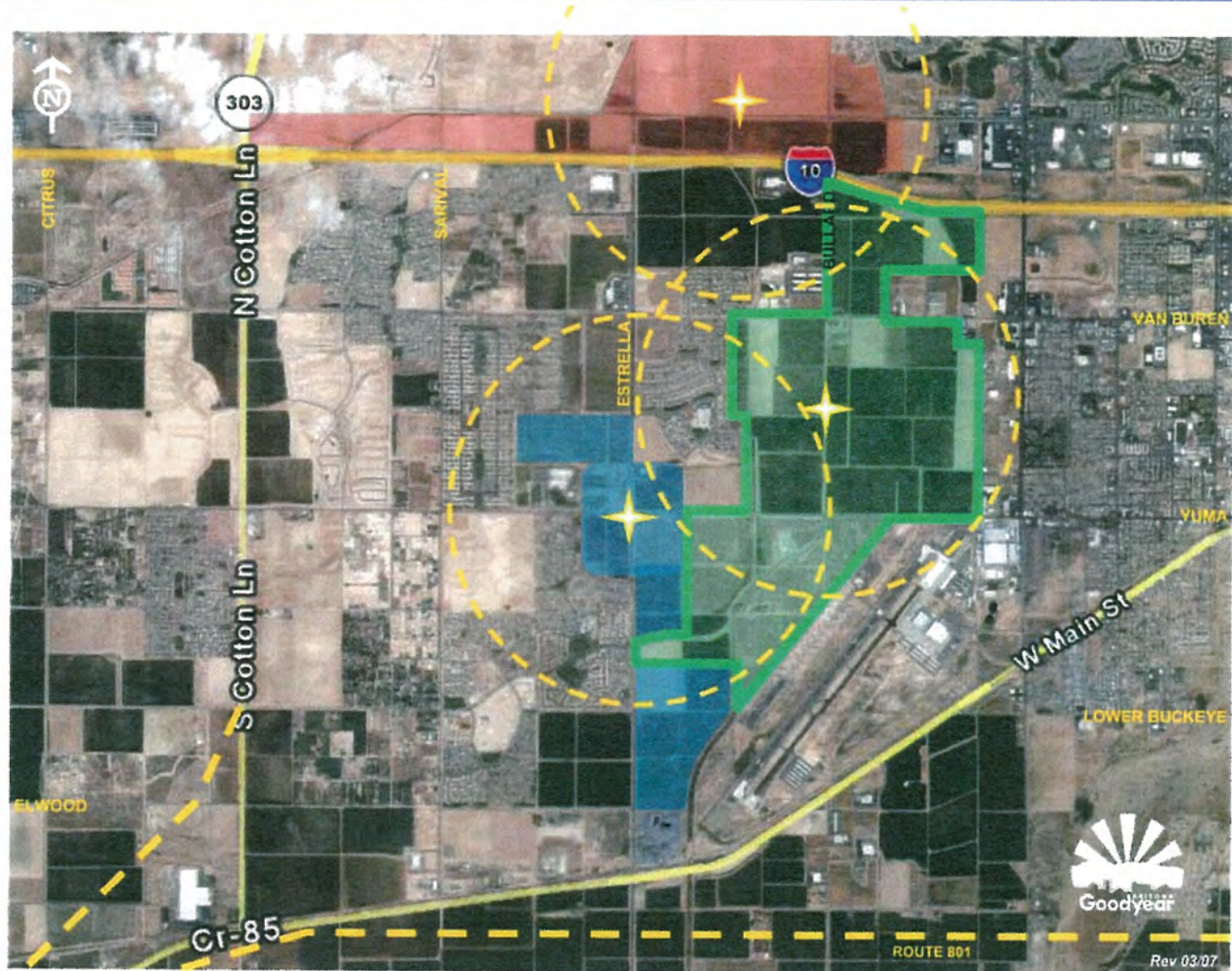


1216



Rev 03/07

CENTERS OF INFLUENCE



Rev 03/07

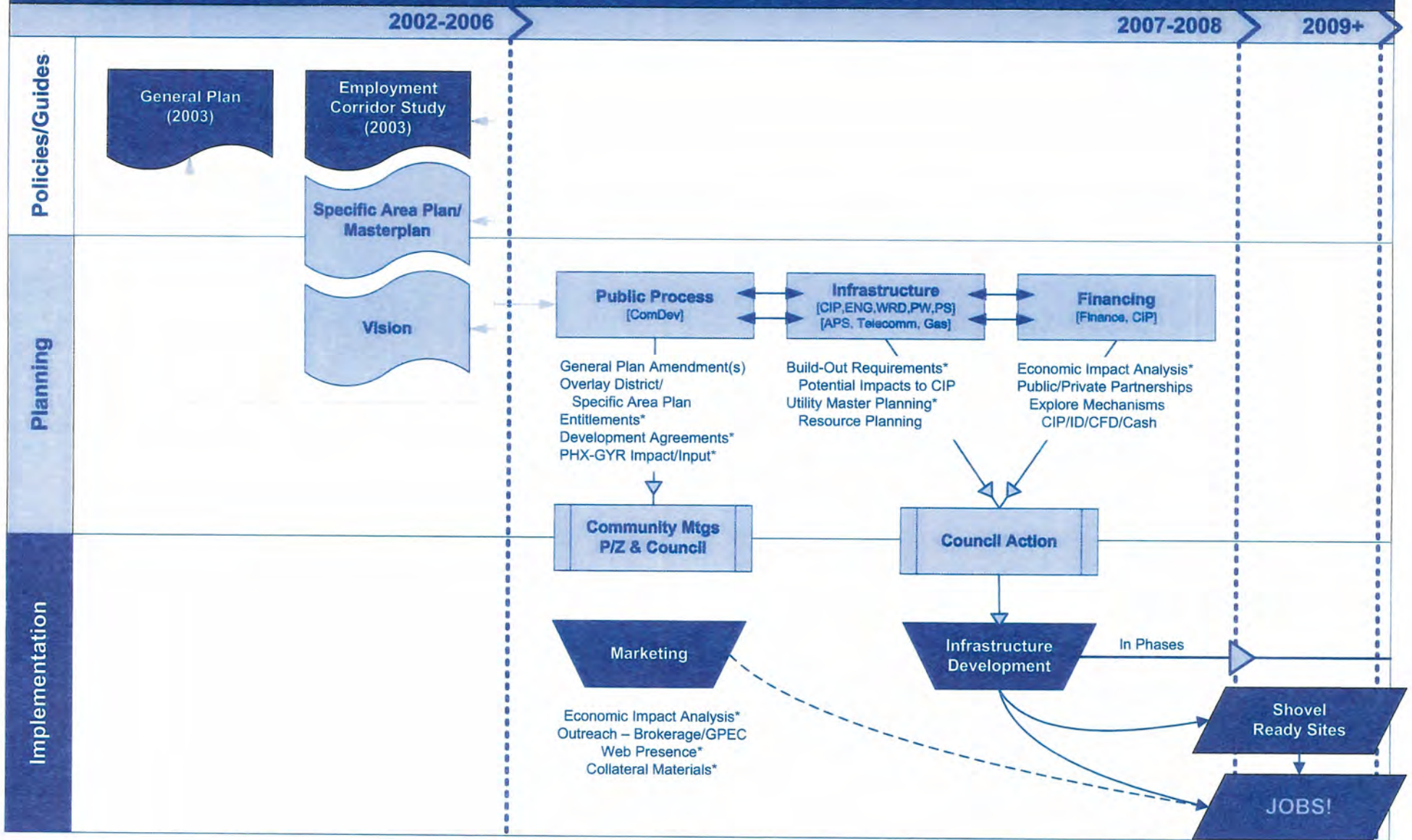
Goodyear, AZ

THE PLAN

SWA Group

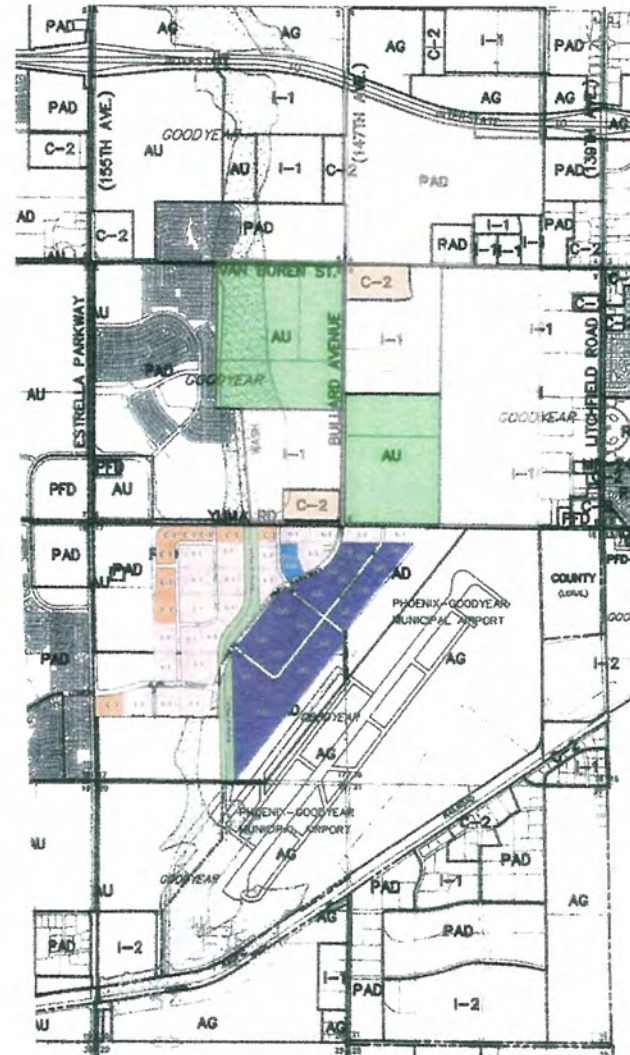


Goodyear Employment Corridor – Airport Gateway Masterplan aka CrossPointe



* Denotes processes/projects/analysis currently underway

GPLU & CURRENT ZONING



GPLU & CONCEPTUAL MASTERPLAN



LAND USE	PROPOSED PLAN (acres)
Heavy Industrial	229.3
Light Industrial	628.1
Spec. Office/Office Tower/Commercial	109.9
Flex Office	73.1
Office/Flex Office	164.8
Light Industrial	780.1
Commercial	174.1
Residential Commercial	101.9
Retail/Commercial	82.3
Hospital	24.2
Flex Office/Residential	43.7
Medium-High Density Residential	45.9
Public Open Space (includes Bullard Wash)	81.1
Total	1,274.4

- LEGEND**
- Retail/Commercial (RE)
 - Mixed-Use Commercial (MU)
 - Office Tower/Commercial (OT)
 - Office/Flex Office
 - Flex Office (FO)
 - Flex Office/Residential (FOR)
 - Medium-High Density Residential (MRH) (10-20 D.U. per acre)
 - Light Industrial (LI)
 - Heavy Industrial (HI)
 - Hospital (H)
 - Public Open Space
 - High Intensity Mixed Use Corridor Overlay
 - Arterial Landscape
 - Collector Landscape
 - Property Boundary



NOTE: Allotments are conceptual only. A detailed site survey is required to confirm acreage totals.

Prepared For:
 Carmichael Corporation
 Carmichael Capital
 Carmichael Capital
 Kibben Investments
 SUN MP
 6/28

**CONCEPTUAL LAND USE PLAN
 GOODYEAR EMPLOYMENT CENTER**

Jan 29, 2007



INFRASTRUCTURE

	Current	Planned	Ultimate	Gap
Bullard Traffic Interchange	N/A	Full Diamond (Open 2008)	Full Diamond	---
Bullard I10 to Van Buren	1N / 1S	1L (\$1.9M, FY07/08)	3L N / 3L S Full Median	3 lanes + M/CGS
Bullard Van Buren to Yuma	N/A	2L (ADOT/MAG) 1L (\$2.1M, FY 0708)	3L N / 3L S Full Median	3 lanes + M/CGS
Bullard, Yuma to Lower Buckeye to Estrella	2L E / 2L W no connection	Mill & Overlay Ex. (\$2M, FY 07/08)	3L E / 3L W 6L Bridge at LB	2 lanes + bridge Airport Entrance
Bullard, Lower Buckeye to Estrella/Elwood	N/A	2L SW / 2L NE (stadium)	3L SW / 3L NE + bridge	3L SW / 3L NE + bridge
Yuma* Estrella to Litchfield (*Sun MP DA has triggers)	1E / 1W	3L E / 3L W + bridge (Out Years)	3L E / 3L W + bridge + median	Sewer line
Bullard Wash	N/A	Drainage & Park Improvements (\$9.9M, FY 10/11/12)	Drainage & Park Improvements	Future Special Amenities?
W/WW Capacity			TBD	?



STREETS

Van Buren

2 lanes [6]

5 lanes

Bullard (10 to VB)

2 lanes [6 TR]

3 lanes [6 TR + M]

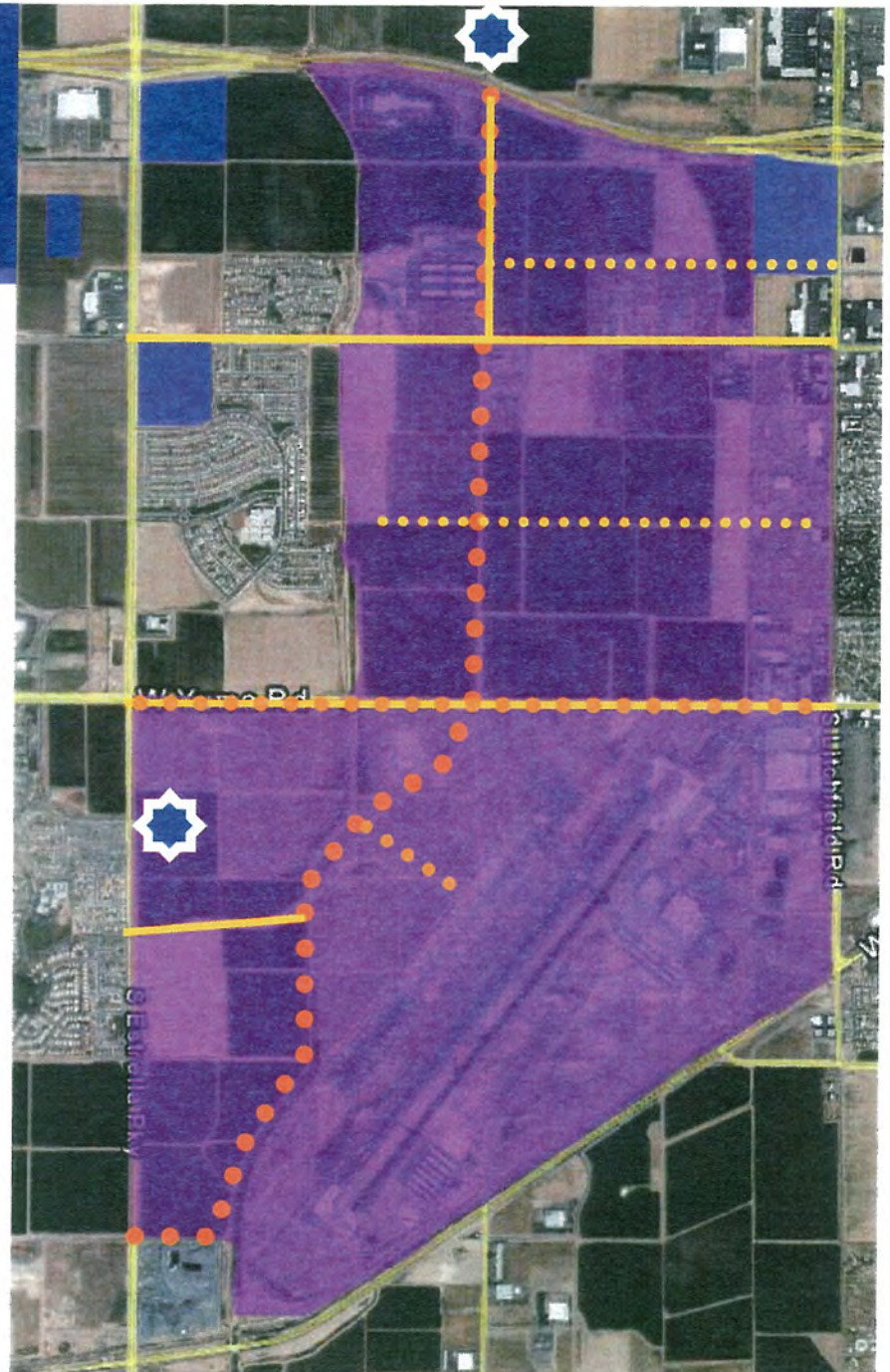
Bullard (VB to Estrella)

0 lanes [6 TR]

2+1 lanes [6 TR]

Yuma (Estrella to Litchfield)

2 lanes [6]

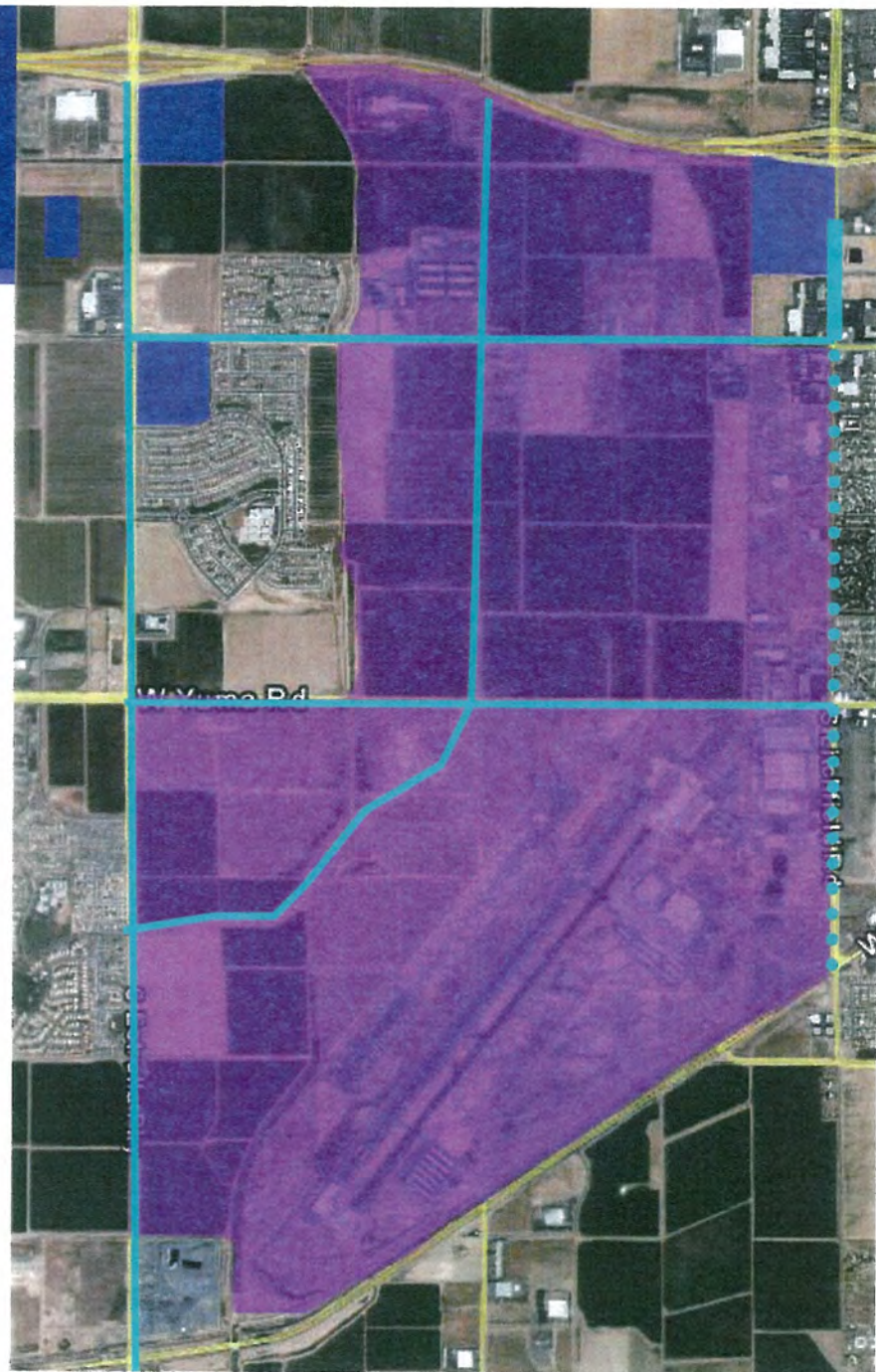


WATER

WATER

Van Buren	24" 16"
Bullard	16"
Yuma	16"
Estrella	16"
Litchfield	6"

Litchfield Upgrade
\$2.34M

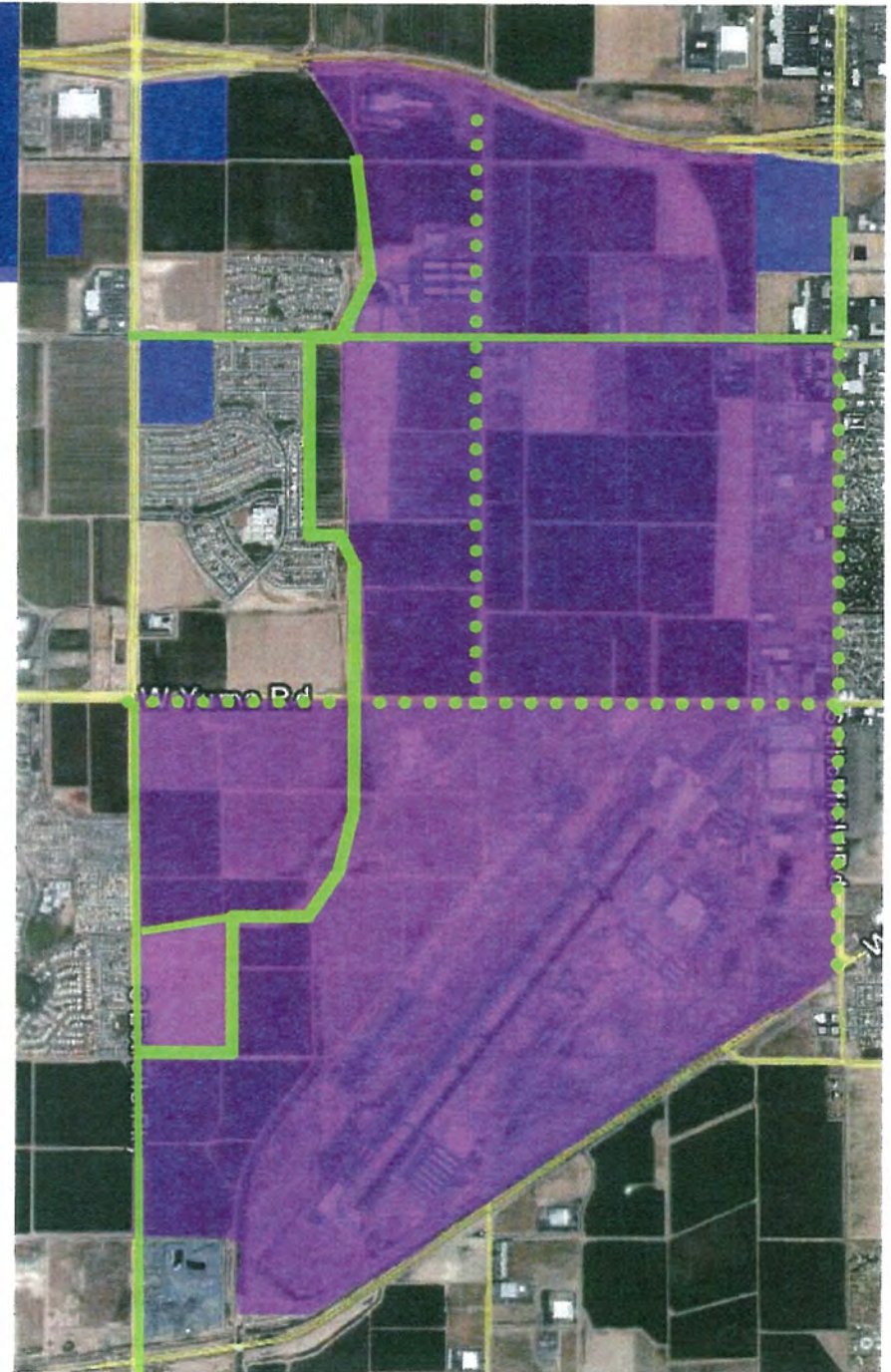


SEWER

WASTEWATER

Van Buren	21" 18"
Bullard	0
Bullard Wash	27" – 36"
Yuma	0
Estrella	18" – 36"
Litchfield	12" +/-

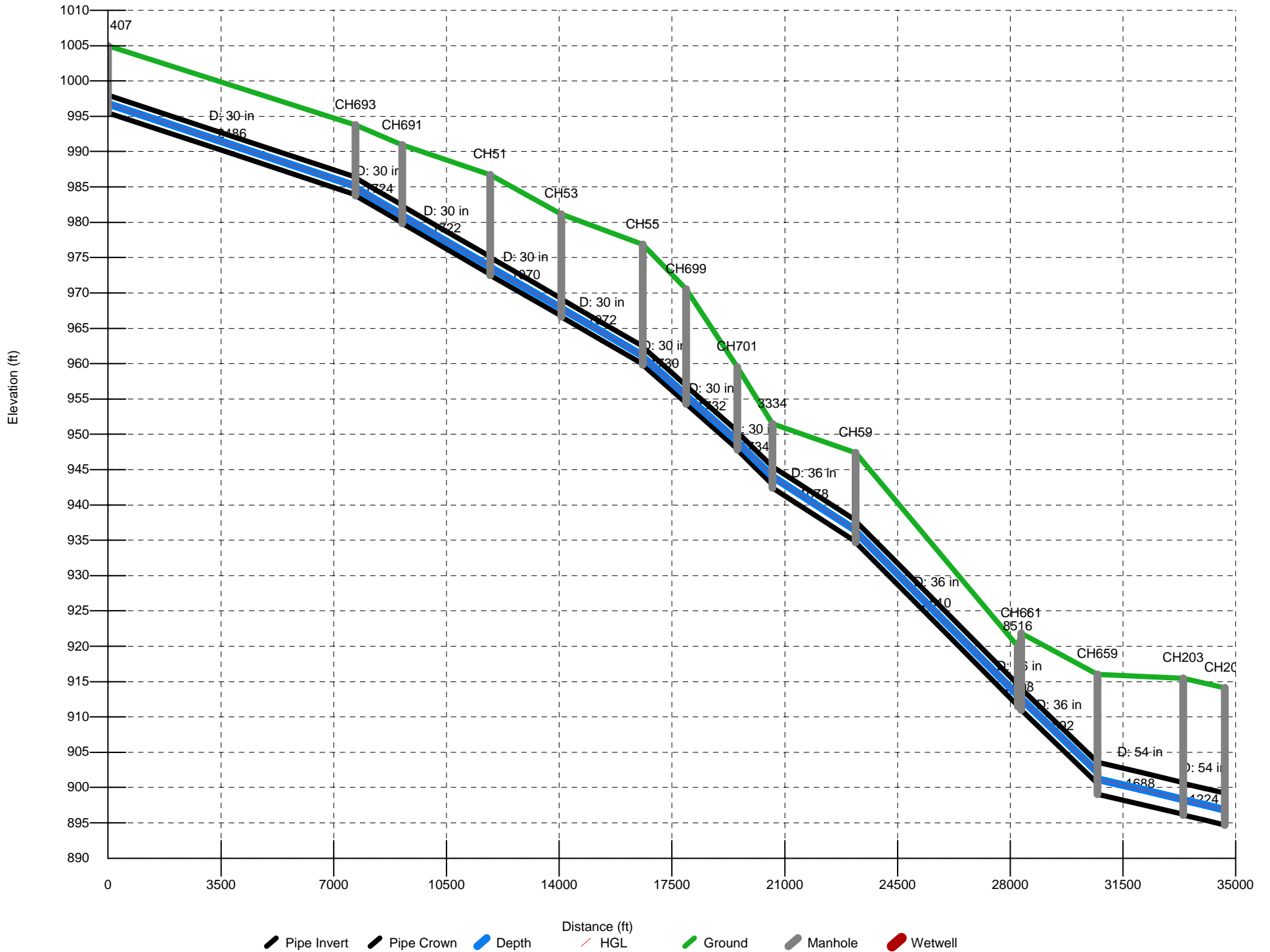
Yuma, Estrella to Litchfield
\$2.2M





APPENDIX C LPSCO ALIGNMENT PIPE HYDRAULIC PERFORMANCE PIPE PROFILES

LPSCO Alignment Pipe Profile @ 08:15



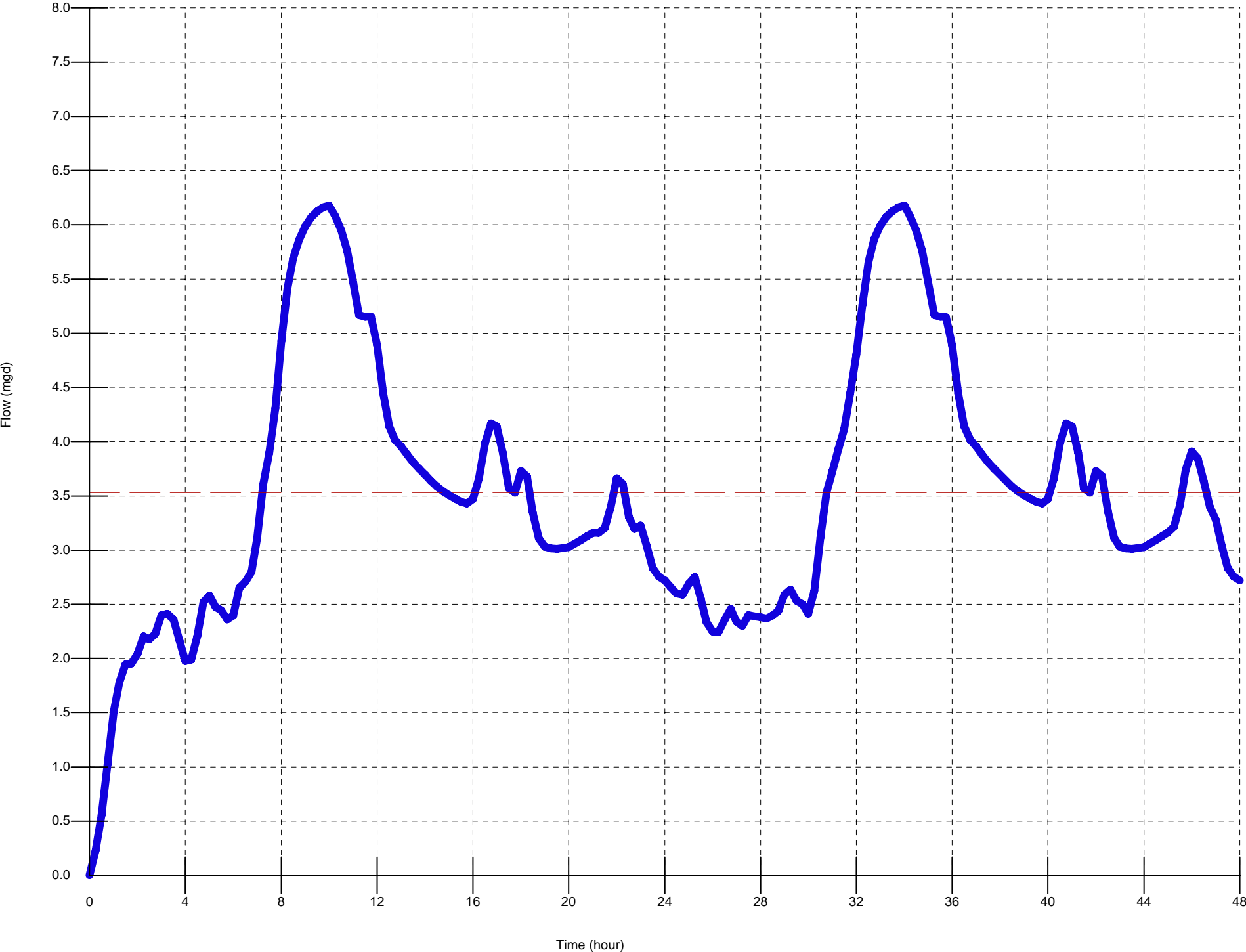
157th Ave WWTP: LPSCO Pipeline Alignment (Includes both Gateway and LPSCO increased flows)

ID	From ID	To ID	Diameter (in)	Slope	Maximum Flow (mgd)	Maximum Flow Time	Maximum Velocity	Maximum Water	Maximum Froude	Maximum d/D	Maximum q/Q	Maximum Critical
2486	CH1407	CH693	30	0.0015	5.81	20:55 hr	3.35	1.34	0.61	0.54	0.56	1.00
1724	CH693	CH691	30	0.0027	5.90	21:02 hr	4.16	1.15	0.80	0.46	0.43	1.01
1722	CH691	CH51	30	0.0026	5.97	21:07 hr	4.16	1.16	0.80	0.46	0.44	1.01
1070	CH51	CH53	30	0.0026	6.08	21:19 hr	4.18	1.17	0.80	0.47	0.45	1.02
1072	CH53	CH55	30	0.0026	6.47	21:22 hr	4.25	1.21	0.80	0.48	0.47	1.06
1730	CH55	CH699	30	0.0040	6.69	09:02 hr	5.01	1.09	0.99	0.44	0.40	1.08
1732	CH699	CH701	30	0.0040	6.90	09:02 hr	5.05	1.11	0.99	0.45	0.41	1.09
1734	CH701	3334	30	0.0045	7.00	09:01 hr	5.28	1.09	1.04	0.44	0.39	1.10
1078	3334	CH59	36	0.0029	13.7875	09:20 hr	5.34	1.65	0.87	0.55	0.59	1.48
2510	CH59	8516	36	0.0046	15.9254	09:38 hr	6.55	1.58	1.09	0.53	0.54	1.60
2508	8516	CH661	36	0.0034	17.1759	09:30 hr	5.93	1.82	0.94	0.61	0.68	1.67
1692	CH661	CH659	36	0.0044	17.3812	09:35 hr	6.58	1.69	1.07	0.56	0.61	1.68
1688	CH659	CH203	54	0.0011	21.1549	09:52 hr	4.09	2.26	0.57	0.50	0.50	1.64
1224	CH203	CH205	54	0.0011	22.0717	09:54 hr	4.12	2.32	0.56	0.52	0.53	1.68



APPENDIX D INFLOW CURVES

157th Ave WWTP East Interceptor at Build Out



157th Ave WWTP North Interceptor with Increased Flows

