MASTER WATER REPORT
FOR
DEVELOPMENT UNIT 5 EAST
AT
EASTMARK

April 16, 2014
WP# 144173

CITY OF MESA
APPROVED
Date 5/15/14 By RAP
(JH)

REVIEWED BY
CITY STAFF
5/1/14 BY
DATE

WOOD/PATEL
MISSION: CLIENT SERVICE™

MASTER WATER REPORT
FOR
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AT
EASTMARK

April 16, 2014
WP# 144173

DMB® Master Developer Approval EASTMARK.

_____ Date _____

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Registered Professional Engineer (Civil)
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Date Signed 04-16-14
ARIZONA, U.S.A.

EXPIRES 06-30-2015

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1.0 INTRODUCTION

1.1 General Background and Project Location

The proposed Development Unit 5 East is anticipated to be an approximate 82-acre Development Unit (DU) within the 3,151-acre Eastmark master planned community in the City of Mesa (City). The planned land use for DU 5 East is Industrial.

This Master Water Report has been prepared in accordance with Wood, Patel & Associates, Inc.'s (Wood/Patel's) understanding of the City of Mesa's technical requirements for water distribution systems, as applicable for the development known as Eastmark.

The Site is located within Section 14, Township 1 South, Range 7 East of the Gila and Salt River Meridian. The Site is bounded by Elliot Road to the north, future Development Unit 6 South on the east, and future Development Unit 5 on the south and west (refer to Plate 1 – *Vicinity Map*).

1.2 Scope of Master Water Report

The Master Water Report for Development Unit 5 East at Eastmark presents water design flows, pipe sizes, and backbone waterline locations, as required to provide water service to the Site at full build-out conditions prior to the full build-out of Eastmark. This update reflects the City of Mesa Water Master Plan modeled waterline sizes in this area of the Desert Wells Water Pressure Zone. Report results indicate pressures and flows which are adequate to serve DU 5 East.

The purpose of this report is to provide a water analysis reflecting the developed condition of DU 5 East prior to the full build-out of Eastmark, based on the land uses provided by DMB Mesa Proving Grounds, LLC, and to identify the water infrastructure required to serve the Site, while meeting the requirements of the City's Engineering and Design Standards. Updates to this DU 5 East Master Water Report may be required if significant changes are made to the land uses and assumptions utilized to prepare this report. Additionally, design criteria may change based on actual water demands to calculate draws on the system in the future.

1.3 Master Water Report for Eastmark

The *Master Water Report Update for Eastmark*, prepared by Wood/Patel, dated November 26, 2013, was approved by the City of Mesa. Additionally, the *Master Water Report Update for Eastmark*, prepared by Wood/Patel and updated April 4, 2014, was submitted to the City of Mesa for review and re-approval to incorporate development changes and revised design criteria within previously master planned DU 3/4. Also, the *Master Water Report Update for Eastmark*, prepared by Wood/Patel and updated April 15, 2014, was submitted to the City of Mesa for review and re-approval to incorporate development changes within DU 5 East. The most current updated master report includes the revised information utilized as the basis for this report.

1.4 Full Build-Out Condition

The design criteria utilized to calculate water flows and determine required pipe sizes for the Site are based on projected full build-out conditions for DU 5 East. For a detailed breakdown of DU 5 East modeled land use, please refer to the following:

- Table 2 – *DU 5 East Modeled Land Use*
- Table 4 – *Water Demand Design Flows by Development Unit*
- Table 5 – *Water Demand Design Flows by Junction Node*
- Plate 2 – *DU 5 East Master Water Exhibit*

1.5 Basis of Design Reports for Specific Individual Developments

As development progresses within the Site, Basis of Design (BOD) reports are required for specific individual developments to ensure compliance with the Master Report and this Development Unit Master Report, and to identify significant variations in land use, water demands, and the water infrastructure needed to serve the parcel. It is Wood/Patel's understanding the Site will be developed in phases, and the infrastructure needed to support a phased development will be determined at the time of platting.

2.0 EXISTING CONDITIONS

2.1 Topographic Conditions

The Site consists of multiple automotive test tracks and undisturbed desert, which borders the Site to the west and south. Along the eastern boundary, development plans for DU 6 are within the design phase and may be constructed prior to the Site. To the north, the Site is bound by Elliot Road. The land generally slopes in a southwesterly direction, at approximately 0.5 to 1 percent. The peak elevation within the Site is approximately 1,445 feet above mean sea level (MSL), located along Elliott Road at the northeast corner of DU 5 East. The lowest elevation within the Site is approximately 1,435 feet above mean sea level (MSL), located at the southwest corner of DU 5 East. Refer to Plate 1-*Vicinity Map* for roadway alignments.

2.2 Existing Pressure Zones and Hydraulic Grade Lines

The Site is located within the Desert Wells Water Pressure Zone, defined by the City of Mesa as follows:

Desert Wells Water Pressure Zone:

- Ground elevation range = 1,370 to 1,520 feet
- Static hydraulic grade line (HGL) = 1,634 feet.

2.3 Existing Offsite Water Infrastructure

Relevant existing water infrastructure adjacent to the Site includes the following within the Desert Wells Water Pressure Zone:

- 16-inch waterline extending south along Ellsworth Road, from Elliot Road to Pecos Road.
- 16-inch waterline extending east along Elliot Road, from Ellsworth Road to Signal Butte Road.
- 16-inch waterline extending south along Signal Butte Road, from Elliot Road to Ray Road.
- 30-inch waterline extending south along Signal Butte Road, from Elliot Road to north of Warner Road.

- 16-inch waterline extending east along Ray Road, from Ellsworth Road to Signal Butte Road.
- 12-inch waterline extending east along Warner Road, from the Loop 202 freeway to Ellsworth Road.
- 24-inch waterline extending west along Point Twenty-Two Boulevard, from Signal Butte Road to Inspirian Parkway.
- 20-inch waterline extending north along Eastmark Parkway, from Ray Road to Point Twenty-Two Boulevard.
- 12-inch waterline extending north along Inspirian Parkway, from Ray Road to Point Twenty-Two Boulevard.

2.4 Existing Onsite Water Infrastructure

It is Wood/Patel's understanding there may be existing onsite waterlines within DU 5 East. If waterlines are discovered, they will be removed by the developer, where applicable, with construction of DU 5 East.

3.0 DESIGN CRITERIA AND PROJECTED WATER DEMANDS

3.1 Design Criteria

Water demand and pipe-sizing criteria utilized in this DU 5 East Master Water Report are based on Wood/Patel's understanding of the following:

- Applicable water system design criteria listed in the *2012 City of Mesa Engineering and Design Standards,* along with City-accepted population-based criteria, per Table 1 – *DU 5 East Water System Design Criteria.*
- Regionally-accepted design standards.
- Title 18, Chapter 9 of the *Arizona Administrative Code.*

Table 1 represents Unit Daily Water Demand design criteria for each land use category. The Development Unit Daily Water Demand was used to estimate demands at each node in the hydraulic model to determine flow rates, velocities, and pipe sizing.

Fire flow requirements were modeled during the fire flow analysis of the Site. Residential development was modeled with a fire flow of 3,000 gpm, and the commercial development was modeled with a minimum fire flow of 4,000 gpm.

3.2 Water Demand Design Flows

Water demand flows under full build-out conditions were provided to Wood/Patel by DMB Mesa Proving Grounds, LLC for the proposed user of the Site. Water demand for the Great Park was included; however, during full build-out conditions when the raw waterline from the Central Arizona Project (C.A.P.) Canal is extended to the site, the park will be served by non-potable water. For detailed calculations, refer to Table 2 – *DU 5 East Modeled Land Use* and Table 3- *Overall Eastmark Modeled Land Use*. Design flows are summarized below and include the development unit adjustments.

	Average-Day Demand MGD (gpm)	Max-Day Demand MGD (gpm)	Peak-Hour Demand MGD (gpm)
DU 5 East	1.00 (700)	2.01 (1,400)	3.02 (2,100)
Total Eastmark	9.81 (6,814)	17.92 (12,445)	24.94 (17,319)

4.0 HYDRAULIC MODEL

Bentley WaterCAD Version 8i, a potable water transmission and distribution system numerical modeling program, was utilized to analyze the proposed potable water system. A hydraulic grade line (HGL) of 1,634 feet was used to simulate the water supply pressure for the Desert Wells Water Pressure Zone. Water demands and peaking factors utilized are based on information listed in Section 3.0 of this report. Pipes are sized to accommodate modeled conditions of flow.

4.1 Modeled Scenarios

The following primary modeling scenarios were selected to demonstrate compliance with City of Mesa requirements, and to analyze the proposed water system:

- Average-Day Demand
- Max-Day Demand
- Peak-Hour Demand
- Max-Day Demand Plus Fire Flow
- Fire Flow Analyses

The hydraulic model utilizes the Hazen-Williams equation to calculate head losses throughout the system during the modeled scenarios. Refer to Table 1 for additional information regarding hydraulic modeling parameters.

4.2 Hydraulic Modeling Criteria

Assumptions were made regarding offsite water infrastructure for the purpose of modeling DU 5 East to full build-out design conditions.

- The DU 3 South, 7, 8, and 9 water infrastructure has been constructed and is operational.
- The DU 3/4 water infrastructure has been constructed or is concurrently being constructed with DU 5 East.
- The proposed additional 16-inch waterline [(2) 16-inch waterlines total] in Elliot Road, extending from Signal Butte to the northeast corner of DU 5 East, has been constructed and is operational.
- The proposed infrastructure requires several connections to existing offsite waterlines.
    - The first connections are to the existing and proposed 16-inch waterlines in Elliot Road, at the northeast corner of DU 5 East, with the proposed onsite 12-inch waterline.

- The second connection is to the existing 16-inch waterline in Elliot Road, at the northwest corner of DU 5 East, with the proposed onsite 12-inch waterline.

Refer to Plate 2 for detailed information regarding existing and proposed offsite water infrastructure. With multiple connections to existing waterlines, the system has redundancy allowing the water system to function in compliance with City of Mesa standards and specifications. Additional connections to existing waterlines may be required to provide looped systems, if construction is phased.

4.3 Hydraulic Modeling Results

The hydraulic modeling results indicate the onsite system in DU 5 East is capable of delivering Average-Day and Peak-Hour demands within the following onsite pressure ranges:

DU 5 East Full Build-Out Pressure (psi)

Hydraulic Model Scenario	Low	Node	High	Node
Average Day Demand	81	J-1130EX	85	J-DU5E-010
Peak Hour Demand	76	J-DU5E-020	79	J-2340EX

Fire flow results for the model indicate available fire flows of 4,000 gpm for commercial/industrial development, and 3,000 gpm for residential development during Max-Day demands, while maintaining residual pressures greater than 20 psi throughout the Site at full build-out conditions. Detailed hydraulic modeling results, calculations, and exhibits are provided in the attached appendices and plates. Modeled outflow from each water source is shown below.

Flow from South C.A.P. Desert Wells Pump Station:

Average-Day Demand: 6,020 gpm
Max-Day Demand: 10,994 gpm
Peak-Hour Demand: 15,300 gpm

Flow from City of Mesa Water System, North of Elliot Road:

Average-Day Demand: 795 gpm
Max-Day Demand: 1,451 gpm
Peak-Hour Demand: 2,020 gpm

5.0 GENERAL PLAN FOR ONSITE WATER DISTRIBUTION

5.1 Piping Layout

The planned water distribution system for the Site consists of looped public waterlines, ranging in diameter from 12 inches (onsite) up to 30 inches (offsite), using pipe materials per City of Mesa standards. Main waterlines have been located within designated public rights-of-way. In accordance with City of Mesa standards, 12-inch and 16-inch waterlines are generally located near ½-mile and 1-mile street alignments, or are upsized, as needed, to meet design constraints (refer to Plate 2 – *DU 5 East Master Water Exhibit*).

5.2 Water Sources

According to the *2010 City of Mesa Water Master Plan Update,* two primary sources of water will supply Eastmark. These sources are surface water supplied from the C.A.P. Canal, and groundwater from proposed well sites.

5.2.1 Surface Water

The Signal Butte Groundwater Facility, consisting of a reservoir and groundwater wells, has recently been constructed to provide storage and assist in meeting peak demands in the Desert Wells Water Pressure Zone. A portion of the facility will serve Eastmark in the interim until such time as the City deems it necessary to construct the C.A.P. raw water conveyance system from the C.A.P. Canal and the water treatment portion of the plant.

According to the *2010 City of Mesa Water Master Plan (Update),* the C.A.P. Canal water supply system typically provides a constant supply of surface water, although outages are possible as a result of failures and for periodic maintenance. C.A.P. has indicated that short dry-ups (ranging from one week to one month in duration) may be required every two to three years, on average, for maintenance purposes. According to the *2010 City of Mesa Water Master Plan (Update),* the South C.A.P. water facilities will be supplied by groundwater production wells during C.A.P. dry-ups to provide adequate storage and pumping to the Desert Wells Water Pressure Zone and other pressure zones.

5.2.2 Groundwater Wells

Conceptual locations of the future groundwater wells are shown on Plate 2. Well locations are conceptual in nature and will be coordinated with the City of Mesa during the construction plan design and preparation. Well collection lines will be required extending from each well site to supply the South C.A.P. water facilities. It is Wood/Patel's understanding the well sites and well collector mains will be phased with development and will be owned, operated, and maintained by the City of Mesa.

5.3 Water Pressure to Multi-Story Buildings

Based on full build-out hydraulic modeling results, Peak-Hour residual pressures within the Site are at or above 63 pounds per square inch (psi). Private individual booster pumps may be required to serve multi-story buildings, and should be evaluated on an individual basis.

6.0 CONCLUSIONS

This *Master Water Report for Development Unit 5 East at Eastmark* meets accepted standards and requirements, and will serve, in conjunction with the *Master Water Report for Eastmark*, as a guide for construction documents associated with the planned potable water systems of DU 5 East. No critical issues were identified that would preclude the anticipated development as presented in this Master Water Report. The following are critical conclusions:

1. The Site is located within the existing Desert Wells Water Pressure Zone, currently served by the City of Mesa.

2. For the purpose of this Master Water Report, the full build-out conditions for DU 5 East have been evaluated for the design of the water distribution system.

3. The approximate Average-Day water demand for DU 5 East is 1.0 million gallons per day (MGD) at full build-out conditions, per Section 3.2 of this report.

4. A hydraulic model was utilized to analyze the proposed potable water system and size pipes for the water distribution system. Modeling results indicate minimum residual pressures are met, and head loss and velocities within the planned waterlines meet the design criteria presented herein.

5. The planned onsite water distribution system for DU 5 East consists of looped 12-inch and larger public waterlines.

6. Modeling results indicated the proposed waterline layout would adequately serve DU 5 East.

7. The proposed water distribution system and resulting hydraulic modeling output anticipates City of Mesa water production facilities and booster pump station facilities will be brought into service, as necessary.

8. This *Master Water Report Update for Development Unit 5 East at Eastmark* demonstrates the sufficiency of the proposed water distribution system to serve the Site in accordance with City of Mesa Water Standards and the *Master Water Report for Eastmark.*

TABLE 1

DU 5 East Water System Design Criteria

WOOD/PATEL

TABLE 1 - DU 5 EAST WATER DESIGN CRITERIA

CIVIL ENGINEERS • HYDROLOGISTS • LAND SURVEYORS • CONSTRUCTION MANAGERS

Project: Eastmark
Location: Mesa, Arizona
References: 2012 City of Mesa Engineering Design Standards and City of Mesa approved population based design criteria

Proj. Number: 144173
Proj. Engineer: Dan Matthews, P.E.

UNIT DAILY RESIDENTIAL WATER DEMANDS

LAND USE CATEGORY	LAND USE	DWELLING UNIT DENSITY VALUE	DWELLING UNIT DENSITY UNITS	UNIT DAILY WATER DEMAND VALUE	UNIT DAILY WATER DEMAND UNITS	NOTES
LDR-1	Low Density Residential (LDR 0-1)	0.5	DU/AC	490	GPD/DU	Source: Dwelling unit density divisions are based on City of Mesa 2025 General Plan. Unit water demands are based on the City of Mesa 2012 Engineering and Design Standards. LDR 1.0 Average and MDR 4.0 Average are used at locations where the dwelling unit densities are at or near 1 DU/AC and 4 DU/AC, respectively.
LDR-2	LDR 0-1 & LDR 1-2 AVG.	1	DU/AC	490	GPD/DU	
LDR-3	Low Density Residential (LDR-1-2)	1.2	DU/AC	490	GPD/DU	
MDR-1	Medium Density Residential (MDR 2-4)	3.0	DU/AC	250	GPD/DU	
MDR-2	MDR 2-4 & MDR 4-6 AVG.	4	DU/AC	250	GPD/DU	
MDR-3	Medium Density Residential (MDR 4-6)	5.0	DU/AC	250	GPD/DU	
MDR-4	Medium Density Residential (MDR 6-10)	6.5	DU/AC	250	GPD/DU	
HDR-1	High Density Residential (HDR 10-15)	11.0	DU/AC	230	GPD/DU	
HDR-2	High Density Residential (HDR 15+)	20.0	DU/AC	230	GPD/DU	
MUR-1	Mixed Use/Residential (MUR) – Residential	15.0	DU/AC	185	GPD/DU	

UNIT DAILY NON-RESIDENTIAL WATER DEMANDS

LAND USE	Population Density		WATER DESIGN DEMANDS (PER CAPITA)		NOTES
University - Boarded Student	---	---	80	GPD / Person	Source: City of Mesa approved population based criteria
University - Commuter Student and Staff	---	---	40	GPD / Person	
Elementary School - Student and Staff	200	Students and Staff / Acre	40	GPD / Person	
Middle School - Student and Staff	100	Students and Staff / Acre	40	GPD / Person	
Civic / Church / Library Staff	0.4	Employees / 1,000 S.F.	54	GPD / Person	
Civic / Church / Library Patrons	2	Patrons / 1,000 S.F.	20	GPD / Person	
Aquatic Center	200	Patrons and Staff / Acre	15	GPD / Person	
Commercial / Retail / Restaurant	2.5	Employees and Patrons / 1,000 S.F.	80	GPD / Person	
Office	5.0	Employees / 1,000 S.F.	80	GPD / Person	
Theater	250	Seats / Screen	7.5	GPD / Seat	
Hotel	---	---	150	GPD / Room	
Resort	---	---	300	GPD / Room	
Turf	---	---	4400	GPD/Acre	
Low Water Use Landscaping	---	---	800	GPD/Acre	

HYDRAULIC MODELING CRITERIA

DESCRIPTION	VALUE	UNITS	NOTES
PEAKING FACTORS			
Max Day	2.0	x Ave Day Demand	1
Peak Hour	3.0	x Ave Day Demand	1
MODELED FIRE HYDRANT FLOW (MINIMUMS)			
Residential	1,500	gpm	
Commercial (represents flow in backbone waterlines)	4,000	gpm	
HYDRAULICS (ON SITE)			
Minimum Residual Pressure, Peak Hour	40	psi	1
Minimum Residual Pressure, Max Day + Fire Flow	20	psi	1
Maximum Pipe Head Loss, Max Day Demand	10 ft/1000 ft	-	2
Maximum Velocity, Peak Hour Demand	5 (+/-)	ft/s	1
Maximum Velocity, Max Day + Fire Flow	10	ft/s	1
Minimum Pipe Diameter, Looped System	8	in	1
Hazen-Williams C-value	120	-	2

Notes:
1. Per 2012 City of Mesa Engineering Design Standards.
2. Per City of Phoenix Design Standards Manual for Water and Wastewater Systems.

TABLE 2

DU 5 East Modeled Land Use

TABLE 2 - DU 5 EAST MODELED LAND USE

Project: DU 5 East at Eastmark
Location: Mesa, Arizona

Proj. Number: 144173
Proj. Engineer: Dan Matthews, P.E.

PRELIMINARY LAND USE AND DWELLING UNIT BREAKDOWN BY PARCEL

Parcel	No. of DUs	Residential Acres	Density (DU/AC)	Non-Residential Acres	Land Use	Floor Area (SQ. FT.)	Population Density or Acreage	Total Population or Acreage	Unit Daily Water Demand (GPD/DU, AC, or S.F.)		Avg Day Flow (GPD)	Total Avg Day Flow (GPD)
DU-5E	--	--	--	82.0	Industrial	1,000,000	--	82	12,293	GPD/ACRE	1,008,000	1,008,000
DU5 East Totals	--	--		**82.0**								**1,008,000**

PRELIMINARY LAND USE AND DWELLING UNIT BREAKDOWN BY JUNCTION

Junction	Parcel(s)	No. of DUs	Acres	Density (DU/AC)	Land Use	Floor Area (SQ. FT.)	Total Avg Day Flow (GPD)	Total Avg Day Flow (GPM)
J-DU5E-010	1/4 5E	--	20.5	--	Industrial	250,000	252,000	175.0
J-DU5E-020	1/4 5E	--	20.5	--	Industrial	250,000	252,000	175.0
J-2340EX	1/4 5E	--	20.5	--	Industrial	250,000	252,000	175.0
J-1130EX	1/4 5E	--	20.5	--	Industrial	250,000	252,000	175.0
					Totals		**1,008,000**	**700**

Note: Water demands have been adjusted to account for the industrial development of DU5 East. The average day demand for the industrial development was provided by the City of Mesa. The total average day demand needed by 2023 was determined to be 700 GPM or 1,008,000 MGD.

TABLE 3

Overall Eastmark

Modeled Land Use

TABLE 3 - OVERALL EASTMARK MODELED LAND USE

Project: Eastmark
Location: Mesa, Arizona

Proj. Number: 144173
Proj. Engineer: Dan Matthews, P.E.

EASTMARK - PRELIMINARY RESIDENTIAL LAND USE AND DWELLING UNIT BREAKDOWN

Land Use	LDR-2	LDR-3	MDR-1	MDR-2	MDR-3	MDR-4	HDR-1	HDR-2	Residential Total	Mixed Use Residential	Total Residential Units
Acreage	--	20.0	779.6	114.7	83.9	--	20.0	228.0	1,246.2	--	--
Dwelling Units	--	39	2,614	481	438	--	220	4,559	8,351	--	8,351

EASTMARK - WATER DEMAND CALCULATIONS

Development Unit	Total Area (AC)	Residential (AC)	Total Dwelling Units	Keys[1]	Gross Non-Residential[2] (AC)	Total Floor Area (sq. ft.)	Education (AC)	Church (AC)	Civic (AC)	Other (AC)	Avg. Day Water Demand (GPD)	Development Unit Flow Area (AC)	Unit Daily Water Demand (GPD/AC)
1	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--
3S	92.3	92.3	391	0	0.0	--	0.0	0.0	0.0	0.0	112,421	92.3	1,218.0
3/4	608.3	228.0	4,559	150	118.0	2,728,680	176.0	0.0	31.0	27.4	3,697,210	608.3	6,077.9
5E	82.0	0.0	0	0	82.0	1,000,000	0.0	0.0	0.0	0.0	1,008,000	82	12,292.7
5	--	--	--	--	--	--	--	--	--	--	--	--	--
6N	272.5	0.0	--	0	272.5	5,360,000	0.0	0.0	0.0	0.0	3,834,705	272.5	14,072.3
6S	--	--	--	--	--	--	--	--	--	--	--	--	--
7	575.5	475.8	1,958	0	5.5	265,000	20.0	13.5	2.5	58.2	675,562	575.5	1,173.9
8	198.8	192.0	535	0	0.0	--	0.0	0.0	0.0	35.0	197,630	198.8	995.1
9	327.8	258.1	908	0	0.0	200,000	0.0	0.0	12.4	22.3	286,500	327.8	874.0
Subtotal:	**2,157.2**	**1246.2**	**8,351**	**150**	**478.0**	**9,553,680**	**196.0**	**13.5**	**45.9**	**142.9**	**9,812,228**	**3,154.0**	--

[1] Anticipated number of "Keys" represents hotel and resort uses. This includes approximately 2.5 acres within DU 3/4.
[2] Non-residential water demands are calculated based on net non-residential acreage.

Abbreviations:
AC = Acres
GPD = Gallons Per Day
GPD/AC = Gallons Per Day Per Acre

TABLE 4

Water Demand Design Flows by Development Unit

WOOD/PATEL

TABLE 4 - WATER DEMAND DESIGN FLOWS BY DEVELOPMENT UNIT

CIVIL ENGINEERS * HYDROLOGISTS * LAND SURVEYORS * CONSTRUCTION MANAGERS

Project: Eastmark
Location: Mesa, Arizona
References: 2012 City of Mesa Engineering Design Standards

Proj. Number: 144173
Proj. Engineer: Dan Matthews, P.E.

DEVELOPMENT UNIT	PARCEL/ DEVELOPMENT UNIT SUB-AREA	DEVELOPMENT UNIT DEMAND AREA (ACRES)	DWELLING UNITS	LAND USE	UNIT FLOW (GPD/AC)	HYD. MODEL NODE	AVE. DAY DEMAND (GPD)	AVE. DAY DEMAND (GPM)	MAX DAY DEMAND (GPD)	MAX DAY DEMAND (GPM)	PEAK HOUR DEMAND (GPM)
DU-3S	3S-1	30.9	137	MDR-2	1,218	J-DU3S-030, J-DU3S-040, J-DU3S-050	37,636	26.1	75,272	52.3	78.3
	3S-2	31.4	115	MDR-2	1,218	J-DU3S-020, J-DU3S-030, J-DU3S-050, J-DU3S-060	38,245	26.6	76,490	53.1	79.8
	3S-3	30.0	139	MDR-2	1,218	J-DU3S-010, J-DU3S-020, J-DU3S-060, J-DU3S-070	36,540	25.4	73,080	50.8	76.2
Total		92.3	391				112,421	78.1	224,842	156.2	234.3
DU-3/4	DU-3/4-1	10.0	–	Middle School	5,480	J-DU3-4-140	54,800	38.1	109,600	76.1	114.3
	DU-3/4-2	23.0	460	HDR-2	4,600	J-DU3-4-130, J-DU3-4-140	105,800	73.5	211,600	146.9	220.5
	DU-3/4-3	58.9	–	Park	4,400	J-DU3-4-160, J-DU3-4-170	259,160	180.0	518,320	359.9	540.0
	DU-3/4-4	5.0	–	Elementary School	9,480	J-DU3-4-190	47,400	32.9	94,800	65.8	98.7
	DU-3/4-5	15.0	–	Library	712	J-DU3-4-180	10,680	7.4	21,360	14.8	22.2
	DU-3/4-6	16.0	–	Aquatic Center	3,000	J-DU3-4-060	48,000	33.3	96,000	66.7	99.9
	DU-3/4-7	49.0	–	University	8,294	J-DU3-4-070, J-DU3-4-180 J-DU3-4-110, J-DU3-4-150	406,400	282.2	812,800	564.4	846.6
	DU-3/4-8	32.0	640	HDR-2	4,600	J-DU3-4-050, J-DU3-4-060, J-DU7-040, J-DU7-050	147,200	102.2	294,400	204.4	306.6
	DU-3/4-9	112.0	–	University	7,782	J-DU3-4-030, J-DU3-4-040, J-DU3-4-070, J-DU3-4-080, J-DU3-4-090	871,600	605.3	1,743,200	1,210.6	1,815.9
	DU-3/4-10	173.0	3,459	HDR-2	4,599	J-DU3-4-010, J-DU3-4-020, J-DU3-4-200, J-DU7-020	795,570	552.5	1,591,140	1,105.0	1,657.5
	DU-3/4-11	29.5	–	Office	15,241	J-DU3-4-120, J-DU3-4-130	449,900	312.2	899,200	624.4	936.6
	DU-3/4-12	12.5	–	Office	15,232	J-DU3-4-100	190,400	132.2	380,800	264.4	396.6
	DU-3/4-13	45.0	–	Commercial/Retail/ Restaurant/Hotel/ Office/Theater	6,902	J-DU3-4-030, J-DU3-4-100, J-300EX, J-DU3S-080	310,800	215.7	621,200	431.4	647.1
		27.4		Other	0		0	0.0	0	0.0	0.0
Total		608.3	4,559.0				3,697,210	2,567.5	7,394,420	5,134.8	7,702.5
DU 5E	DU-5E	82.0	–	Industrial	12,293	J-DU5E-020, J-DU5E-010, J-1130EX J-2340EX	1,008,000	700.0	2,016,000	1,400.0	2,100.0
		82.0					1,008,000	700.0	2,016,000	1,400.0	2,100.0
DU-6N	DU-6A [1]	89.1	–	INDUSTRIAL	5,339	J-DU6-020, J-DU6-060	2,793,600	1,940.0	3,883,104	2,696.6	2,696.6
	DU-6B	53.7	–	INDUSTRIAL	6,462	J-DU6-030, J-DU6-040, J-DU6-050	347,035	241.0	694,070	482.0	723.0
	DU-6C	129.7	–	INDUSTRIAL	5,351	J-DU6-040, J-DU6-050, J-DU6-070, J-DU6-080, J-DU6-090	694,070	482.0	1,388,140	964.0	1,446.0
Total		272.5	0.0				3,834,705	2,663.0	5,965,314	4,142.6	4,865.6

Notes:

1) The CH2M Hill Plan that was provided by the City of Mesa shows that the Max Day Demand and Peak Hour Demand is equal to approximately 1.39 multiplied by the AVG Day Demand.

TABLE 4 - WATER DEMAND DESIGN FLOWS BY DEVELOPMENT UNIT

Project: Eastmark
Location: Mesa, Arizona
References: 2012 City of Mesa Engineering Design Standards

Proj. Number: 144173
Proj. Engineer: Dan Matthews, P.E.

DEVELOPMENT UNIT	PARCEL/ DEVELOPMENT UNIT SUB-AREA	DEVELOPMENT UNIT DEMAND AREA (ACRES)	DWELLING UNITS	LAND USE	UNIT FLOW (GPD/AC)	HYD. MODEL NODE	AVE. DAY DEMAND (GPD)	AVE. DAY DEMAND (GPM)	MAX DAY DEMAND (GPD)	MAX DAY DEMAND (GPM)	PEAK HOUR DEMAND (GPM)
DU-7	7-1	15.9	84	MDR-3	1,602	J-DU7-100	25,472	17.7	50,944	35.4	53.1
	7-2	19.3	79	MDR-1	834	J-DU7-100	16,096	11.2	32,192	22.4	33.6
	7-3	30.7	110	MDR-1	834	J-DU7-110	25,604	17.8	51,208	35.6	53.4
	7-4	32.3	84	MDR-1	834	J-DU7-180	26,936	18.7	53,876	37.4	56.1
	7-5	25.1	66	MDR-1	834	J-DU7-180	20,933	14.5	41,866	29.1	43.5
	7-6	18.5	38	MDR-1	834	J-DU7-170	15,429	10.7	30,858	21.4	32.1
	7-7	26.8	98	MDR-1	834	J-DU7-180	22,351	15.5	44,702	31.0	46.5
	7-8	23.5	120	MDR-3	1,602	J-250EX	37,647	26.1	75,294	52.3	78.3
	7-9	23.1	81	MDR-1	834	J-250EX	19,265	13.4	38,530	26.8	40.2
	7-10	7.5	–	CHURCH	1,500	J-DU7-080	11,250	7.8	22,500	15.6	23.4
	7-11	24.4	135	MDR-3	1,602	J-DU7-080	39,089	27.1	78,178	54.3	81.3
	7-12	23.0	97	MDR-1	834	J-DU7-160	19,182	13.3	38,364	26.6	39.9
	7-13	19.2	78	MDR-1	834	J-DU7-060	16,013	11.1	32,026	22.2	33.3
	7-14	17.3	53	MDR-1	834	J-DU7-150	14,428	10.0	28,856	20.0	30.0
	7-15	18.4	58	MDR-1	834	J-DU7-160	15,346	10.7	30,692	21.3	32.1
	7-16	26.4	106	MDR-1	834	J-DU7-140	22,018	15.3	44,036	30.6	45.9
	7-17	20.1	99	MDR-3	1,602	J-DU7-200	32,200	22.4	64,400	44.7	67.2
	7-18	29.1	65	MDR-1	834	J-DU7-200	24,269	16.9	48,538	33.7	50.7
	7-19	23.8	103	MDR-1	834	J-DU7-140	19,849	13.8	39,698	27.6	41.4
	7-20	19.9	80	MDR-1	834	J-DU7-200	16,597	11.5	33,194	23.1	34.5
	7-21	19.0	84	MDR-1	834	J-DU7-110	15,846	11.0	31,692	22.0	33.0
	7-22	20.0	–	EDUCATION	–	J-DU7-140	30,000	20.8	60,000	41.7	62.4
	7-23	20.0	220	HDR-1	1,936	J-DU7-050	38,720	26.9	77,440	53.8	80.7
	7-24	6.0	–	CHURCH	1,500	J-DU7-150	9,000	6.3	18,000	12.5	18.9
	7-25	2.5	–	CIVIC	1,500	J-DU7-130	3,750	2.6	7,500	5.2	7.8
	7-26	5.5	–	COMMERCIAL/ RESTAURANT	1,700	J-DU7-010	9,350	6.5	18,700	13.0	19.5
	7-27	29.3	–	PARK/LAKE	4,400	J-DU7-020	128,920	89.5	257,840	179	269
		28.9	–	Road R.O.W.	–	–	–	–	–	–	–
Total		575.5	1,958				675,562	469.1	1,351,124	938.3	1,407.8
DU-8	8-1	22.9	74	MDR-1	969	J-DU8-070	22,200	15.4	44,400	30.8	46.2
	8-2	30.0	87	MDR-1	870	J-DU8-080, J-DU8-100	26,100	18.1	52,200	36.3	54.3
	8-3	24.7	64	MDR-1	777	J-DU8-110	19,200	13.3	38,400	26.7	39.9
	8-4	20.9	42	MDR-1	603	J-DU8-080, J-DU8-090	12,600	8.8	25,200	17.5	26.4
	8-5	6.8	–	PARK	4,400	J-DU8-080, J-DU8-090	29,920	20.8	59,840	41.6	62.4
	8-6	23.6	91	MDR-1	1,157	J-DU8-110, J-DU8-120	27,300	19.0	54,600	37.9	57.0
	8-7	28.2	74	MDR-1	787	J-DU8-120, J-DU8-130	22,200	15.4	44,400	30.8	46.2
	8-8	20.0	39	LDR-3	956	J-DU8-090, J-DU8-130	19,110	13.3	38,220	26.6	39.9
	8-9	21.7	64	MDR-1	885	J-DU8-040, J-DU8-130	19,200	13.3	38,400	26.7	39.9
Total		198.8	535				197,830	137.4	395,660	274.8	412.2
DU-9	9-1	54.0	189	MDR-1	1,050	J-DU9-010, J-DU9-020	56,700	39.4	113,400	78.8	118.2
	9-2	31.8	99	MDR-1	934	J-DU9-020, J-DU9-030	29,700	20.6	59,400	41.3	61.8
	9-3	12.4	–	Civic	1,500	J-DU9-020, J-DU9-030	18,600	12.9	37,200	25.8	38.7
	9-4	49.4	159	MDR-1	966	J-DU9-030, J-DU9-070	47,700	33.1	95,400	66.3	99.3
	9-5	39.8	145	MDR-1	1,093	J-DU9-070, J-DU9-080	43,500	30.2	87,000	60.4	90.6
	9-6	22.4	90	MDR-2	1,004	J-DU9-040, J-DU9-050	22,500	15.6	45,000	31.3	46.8
	9-7	60.7	226	MDR-1	1,117	J-DU9-060, J-DU9-080	67,800	47.1	135,600	94.2	141.3
		57.3	0	Other	0		0.0	0.0	0.0	0.0	0.0
Total		327.8	908				286,500	198.9	573,000	398.1	596.7
EASTMARK TOTAL		2,157	8,351				9,812,228	6,814.0	17,920,360	12,444.8	17,319.1

TABLE 5

Water Demand Design Flows by Junction Node

WOOD/PATEL **TABLE 5 - WATER DEMAND DESIGN FLOWS BY JUNCTION NODE**

CIVIL ENGINEERS * HYDROLOGISTS * LAND SURVEYORS * CONSTRUCTION MANAGERS

Project: Eastmark

Location: Mesa, Arizona **Proj. Number:** 144173

References: 2012 City of Mesa Engineering Design Standards **Proj. Engineer:** Dan Matthews, P.E.

	WATER DEMAND (GPM)		
HYDRAULIC MODEL NODE	AVE. DAY	MAX DAY	PEAK HOUR
J-DU3S-010	10.2	20.4	30.6
J-DU3S-020	11.0	22.0	33.0
J-DU3S-030	15.0	30.0	45.0
J-DU3S-040	11.0	22.0	33.0
J-DU3S-050	12.1	24.2	36.3
J-DU3S-060	11.8	23.6	35.4
J-DU3S-070	7.0	14.0	21.0
J-DU3S-080	53.9	107.8	161.7
J-DU3-4-010	138.1	276.2	414.3
J-DU3-4-020	138.1	276.2	414.3
J-DU3-4-030	129.6	259.2	388.8
J-DU3-4-040	151.3	302.6	453.9
J-DU3-4-050	25.6	51.2	76.8
J-DU3-4-060	58.9	117.8	176.7
J-DU3-4-070	186.6	373.2	559.8
J-DU3-4-080	186.6	373.2	559.8
J-DU3-4-090	75.7	151.4	227.1
J-DU3-4-100	186.1	372.2	558.3
J-DU3-4-110	141.1	282.2	423.3
J-DU3-4-120	156.1	312.2	468.3
J-DU3-4-130	174.5	349.0	523.5
J-DU3-4-140	93.2	186.4	279.6
J-DU3-4-150	70.6	141.2	211.8
J-DU3-4-160	90.0	180.0	270.0
J-DU3-4-170	90.0	180.0	270.0
J-DU3-4-180	7.4	14.8	22.2
J-DU3-4-190	32.9	65.8	98.7
J-DU3-4-200	138.1	276.2	414.3
J-DU5E-010	175.0	350.0	525.0
JDU5E-020	175.0	350.0	525.0
J-DU6-010	0.0	0.0	0.0
J-DU6-020 [1]	1580.0	2196.2	2196.2
J-DU6-030	80.3	160.6	240.9
J-DU6-040	160.7	321.4	482.1
J-DU6-050	241.0	482.0	723.0
J-DU6-060 [1]	360.0	500.4	500.4
J-DU6-070	80.3	160.6	240.9
J-DU6-080	80.3	160.6	240.9
J-DU6-090	80.3	160.6	240.9
J-DU7-010	6.5	13.0	19.5
J-DU7-020	227.6	455.2	682.8
J-DU7-030	0.0	0.0	0.0
J-DU7-040	25.6	51.2	76.8
J-DU7-050	52.5	105.0	157.5
J-DU7-060	11.1	22.2	33.3
J-DU7-070	0.0	0.0	0.0
J-DU7-080	35.0	70.0	105.0
J-DU7-090	0.0	0.0	0.0
J-DU7-100	28.9	57.8	86.7
J-DU7-110	28.8	57.6	86.4
J-DU7-120	0.0	0.0	0.0
J-DU7-130	2.6	5.2	7.8
J-DU7-140	49.9	99.8	149.7
J-DU7-150	16.3	32.6	48.9
J-DU7-160	24.0	48.0	72.0

J-DU7-170	10.7	21.4	32.1
J-DU7-180	18.7	37.4	56.1
J-DU7-190	30.1	60.2	90.3
J-DU7-200	50.7	101.4	152.1
J-250EX	39.5	79.0	118.5
J-DU8-010	0.0	0.0	0.0
J-DU8-020	0.0	0.0	0.0
J-DU8-030	0.0	0.0	0.0
J-DU8-040	6.7	13.4	20.1
J-DU8-050	0.0	0.0	0.0
J-DU8-060	9.1	18.2	27.3
J-DU8-070	15.4	30.8	46.2
J-DU8-080	4.4	8.8	13.2
J-DU8-090	11.0	22.0	33.0
J-DU8-100	9.1	18.2	27.3
J-DU8-110	43.6	87.2	130.8
J-DU8-120	17.2	34.4	51.6
J-DU8-130	21.0	42.0	63.0
J-DU9-010	19.7	39.4	59.1
J-DU9-020	36.5	73.0	109.5
J-DU9-030	33.3	66.6	99.9
J-DU9-040	7.8	15.6	23.4
J-DU9-050	0.0	0.0	0.0
J-DU9-060	31.4	62.8	94.2
J-DU9-070	31.7	63.4	95.1
J-DU9-080	38.6	77.2	115.8
J-300EX	53.9	107.8	161.7
J-1130EX	175.0	350.0	525.0
J-2340EX	175.0	350.0	525.0
TOTAL	**6,814.3**	**12,445.2**	**17,319.5**

Notes: 1) The CH2M Hill Plan that was provided by the City of Mesa shows that the Max Day Demand and Peak Hour Demand is equal to approximately 1.39 multiplied by the AVG Day Demand.

APPENDIX A

Hydraulic Modeling Results –
Served by South C.A.P. Water Treatment Plant (Non-Drought Condition)

Active Scenario: Ave Day Demand - Served by SCAP
FlexTable: Reservoir Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Flow Net (Out) (gpm)	Zone	Hydraulic Grade (ft)
C.O.M. DW SUPPLY FROM NORTH	1,634.0	794.7	Desert Wells	1,634.0
SCAP DWPS	1,634.0	6,019.6	Desert Wells	1,634.0
DWGWF - DWPS	1,634.0	(N/A)	Desert Wells	(N/A)

Active Scenario: Ave Day Demand - Served by SCAP

FlexTable: Junction Table

(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-100EX	1,406.0	Desert Wells	0.0	97	1,630.6
J-110EX	1,440.0	Desert Wells	0.0	83	1,630.8
J-120EX	1,462.0	Desert Wells	0.0	74	1,633.3
J-135EX	1,460.0	Desert Wells	0.0	75	1,632.6
J-150EX	1,472.0	Desert Wells	0.0	69	1,632.0
J-160EX	1,435.0	Desert Wells	0.0	85	1,631.3
J-170EX	1,430.0	Desert Wells	0.0	87	1,631.2
J-180EX	1,410.0	Desert Wells	0.0	96	1,631.1
J-190EX	1,395.0	Desert Wells	0.0	102	1,630.9
J-200EX	1,385.0	Desert Wells	0.0	106	1,630.7
J-220EX	1,480.0	Desert Wells	0.0	66	1,632.6
J-230EX	1,475.0	Desert Wells	0.0	68	1,632.2
J-250EX	1,452.0	Desert Wells	39.5	78	1,631.9
J-260EX	1,453.0	Desert Wells	0.0	77	1,631.9
J-270	1,429.0	Desert Wells	0.0	88	1,631.6
J-280EX	1,460.0	Desert Wells	0.0	74	1,631.5
J-300EX	1,392.0	Desert Wells	53.9	103	1,630.5
J-330EX	1,455.0	Desert Wells	0.0	76	1,631.7
J-340	1,440.0	Desert Wells	0.0	83	1,631.6
J-360EX	1,400.0	Desert Wells	0.0	100	1,630.4
J-550	1,425.0	Desert Wells	0.0	89	1,631.6
J-590EX	1,410.0	Desert Wells	0.0	95	1,630.7
J-920	1,434.0	Desert Wells	0.0	86	1,631.7
J-950	1,414.0	Desert Wells	0.0	94	1,630.8
J-960EX	1,401.0	Desert Wells	0.0	99	1,630.5
J-970EX	1,397.0	Desert Wells	0.0	101	1,630.4
J-1000EX	1,455.0	Desert Wells	0.0	77	1,633.8
J-1010EX	1,485.0	Desert Wells	0.0	64	1,633.7
J-1020EX	1,425.0	Desert Wells	0.0	90	1,633.9
J-1030EX	1,480.0	Desert Wells	0.0	67	1,634.0
J-1040EX	1,433.0	Desert Wells	0.0	86	1,630.9
J-1050EX	1,445.0	Desert Wells	0.0	81	1,631.8
J-1120EX	1,453.0	Desert Wells	0.0	77	1,631.9
J-1130EX	1,445.0	Desert Wells	175.0	81	1,631.4
J-1160EX	1,445.0	Desert Wells	0.0	82	1,633.8
J-1170EX	1,470.0	Desert Wells	0.0	71	1,633.7
J-1180EX	1,440.0	Desert Wells	0.0	84	1,633.9
J-1190EX	1,420.0	Desert Wells	0.0	93	1,633.9
J-1200EX	1,445.0	Desert Wells	0.0	82	1,633.9
J-1210EX	1,455.0	Desert Wells	0.0	77	1,633.7
J-1220EX	1,475.0	Desert Wells	0.0	69	1,633.5
J-1230EX	1,460.0	Desert Wells	0.0	74	1,631.6
J-1235EX	1,440.0	Desert Wells	0.0	83	1,631.7
J-1240EX	1,455.0	Desert Wells	0.0	76	1,631.8

Active Scenario: Ave Day Demand - Served by SCAP
FlexTable: Junction Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-1290EX	1,480.0	Desert Wells	0.0	66	1,633.6
J-1300EX	1,465.0	Desert Wells	0.0	73	1,633.7
J-1310EX	1,480.0	Desert Wells	0.0	66	1,633.6
J-1330EX	1,465.0	Desert Wells	0.0	73	1,633.7
J-1340EX	1,450.0	Desert Wells	0.0	80	1,633.8
J-1350EX	1,465.0	Desert Wells	0.0	73	1,633.7
J-1360EX	1,445.0	Desert Wells	0.0	82	1,633.8
J-1370EX	1,430.0	Desert Wells	0.0	88	1,633.9
J-1380EX	1,450.0	Desert Wells	0.0	80	1,633.9
J-1390EX	1,430.0	Desert Wells	0.0	88	1,633.9
J-1400EX	1,430.0	Desert Wells	0.0	88	1,633.9
J-1410	1,454.0	Desert Wells	0.0	77	1,632.1
J-1410EX	1,420.0	Desert Wells	0.0	93	1,633.9
J-1420EX	1,460.0	Desert Wells	0.0	74	1,632.0
J-1430EX	1,455.0	Desert Wells	0.0	77	1,632.1
J-1440EX	1,478.0	Desert Wells	0.0	67	1,632.4
J-1680EX	1,400.0	Desert Wells	0.0	100	1,630.5
J-1990EX	1,447.0	Desert Wells	0.0	80	1,631.8
J-2000EX	1,442.0	Desert Wells	0.0	82	1,631.7
J-2120EX	1,453.0	Desert Wells	0.0	77	1,631.4
J-2140EX	1,446.0	Desert Wells	0.0	80	1,631.4
J-2295	1,415.0	Desert Wells	0.0	93	1,630.8
J-2340EX	1,435.0	Desert Wells	175.0	85	1,631.0
J-DU3-4-010	1,405.0	Desert Wells	138.1	98	1,630.5
J-DU3-4-020	1,401.0	Desert Wells	138.1	99	1,630.5
J-DU3-4-030	1,397.0	Desert Wells	129.6	101	1,630.5
J-DU3-4-040	1,403.0	Desert Wells	151.3	98	1,630.5
J-DU3-4-050	1,410.0	Desert Wells	25.6	95	1,630.4
J-DU3-4-060	1,408.0	Desert Wells	58.9	96	1,630.2
J-DU3-4-070	1,404.0	Desert Wells	186.6	98	1,630.1
J-DU3-4-080	1,400.0	Desert Wells	186.6	100	1,630.1
J-DU3-4-090	1,393.0	Desert Wells	75.7	103	1,630.2
J-DU3-4-100	1,391.0	Desert Wells	186.1	104	1,630.4
J-DU3-4-110	1,393.0	Desert Wells	141.1	103	1,630.2
J-DU3-4-120	1,393.0	Desert Wells	156.1	103	1,630.2
J-DU3-4-130	1,399.0	Desert Wells	174.5	100	1,630.2
J-DU3-4-140	1,404.0	Desert Wells	93.2	98	1,630.2
J-DU3-4-150	1,407.0	Desert Wells	70.6	97	1,630.2
J-DU3-4-160	1,407.0	Desert Wells	90.0	97	1,630.3
J-DU3-4-170	1,412.0	Desert Wells	90.0	94	1,630.3
J-DU3-4-180	1,414.0	Desert Wells	7.4	94	1,630.5
J-DU3-4-190	1,417.0	Desert Wells	32.9	92	1,630.6
J-DU3-4-200	1,412.5	Desert Wells	138.1	94	1,630.6
J-DU3S-010	1,412.0	Desert Wells	10.2	95	1,630.7

Active Scenario: Ave Day Demand - Served by SCAP
FlexTable: Junction Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-DU3S-020	1,407.0	Desert Wells	11.0	97	1,630.6
J-DU3S-030	1,401.0	Desert Wells	15.0	99	1,630.5
J-DU3S-040	1,399.0	Desert Wells	11.0	100	1,630.5
J-DU3S-050	1,404.0	Desert Wells	12.1	98	1,630.5
J-DU3S-060	1,410.0	Desert Wells	11.8	95	1,630.6
J-DU3S-070	1,417.0	Desert Wells	7.0	92	1,630.6
J-DU3S-080	1,396.0	Desert Wells	53.9	101	1,630.5
J-DU5E-010	1,435.0	Desert Wells	175.0	85	1,630.9
J-DU5E-020	1,440.0	Desert Wells	175.0	83	1,630.9
J-DU6-010	1,459.0	Desert Wells	0.0	75	1,631.5
J-DU6-020	1,453.0	Desert Wells	1,580.0	77	1,631.3
J-DU6-030	1,450.0	Desert Wells	80.3	78	1,631.3
J-DU6-040	1,440.0	Desert Wells	160.7	83	1,631.3
J-DU6-050	1,448.0	Desert Wells	241.0	79	1,631.4
J-DU6-060	1,458.0	Desert Wells	360.0	75	1,631.9
J-DU6-070	1,452.0	Desert Wells	80.3	78	1,631.8
J-DU6-080	1,446.0	Desert Wells	80.3	80	1,631.5
J-DU6-090	1,435.0	Desert Wells	80.3	85	1,631.4
J-DU7-010	1,415.0	Desert Wells	6.5	93	1,630.7
J-DU7-020	1,425.0	Desert Wells	227.6	89	1,630.6
J-DU7-030	1,416.0	Desert Wells	0.0	93	1,630.6
J-DU7-040	1,409.0	Desert Wells	25.6	96	1,630.6
J-DU7-050	1,416.0	Desert Wells	52.5	93	1,630.8
J-DU7-060	1,423.0	Desert Wells	11.1	90	1,631.0
J-DU7-070	1,430.0	Desert Wells	0.0	87	1,631.2
J-DU7-080	1,434.0	Desert Wells	35.0	85	1,631.4
J-DU7-090	1,437.0	Desert Wells	0.0	84	1,631.7
J-DU7-100	1,435.0	Desert Wells	28.9	85	1,631.5
J-DU7-110	1,435.0	Desert Wells	28.8	85	1,631.1
J-DU7-120	1,420.0	Desert Wells	0.0	91	1,630.8
J-DU7-130	1,420.0	Desert Wells	2.6	91	1,630.8
J-DU7-140	1,425.0	Desert Wells	49.9	89	1,630.8
J-DU7-150	1,419.0	Desert Wells	16.3	92	1,630.8
J-DU7-160	1,435.0	Desert Wells	24.0	85	1,631.2
J-DU7-170	1,432.0	Desert Wells	10.7	86	1,631.2
J-DU7-180	1,433.0	Desert Wells	18.7	86	1,631.2
J-DU7-190	1,437.0	Desert Wells	30.1	84	1,631.4
J-DU7-200	1,432.0	Desert Wells	50.7	86	1,630.9
J-DU8-010	1,420.0	Desert Wells	0.0	91	1,630.8
J-DU8-020	1,419.5	Desert Wells	0.0	91	1,630.9
J-DU8-030	1,421.0	Desert Wells	0.0	91	1,631.1
J-DU8-040	1,418.0	Desert Wells	6.7	92	1,631.2
J-DU8-050	1,422.0	Desert Wells	0.0	91	1,631.3
J-DU8-060	1,420.0	Desert Wells	9.1	91	1,631.0

Active Scenario: Ave Day Demand - Served by SCAP

FlexTable: Junction Table

(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-DU8-070	1,420.0	Desert Wells	15.4	91	1,631.0
J-DU8-080	1,422.0	Desert Wells	4.4	90	1,631.1
J-DU8-090	1,424.0	Desert Wells	11.0	90	1,631.1
J-DU8-100	1,425.0	Desert Wells	9.1	89	1,631.1
J-DU8-110	1,430.0	Desert Wells	43.6	87	1,631.1
J-DU8-120	1,431.0	Desert Wells	17.2	87	1,631.1
J-DU8-130	1,427.0	Desert Wells	21.0	88	1,631.1
J-DU9-010	1,419.0	Desert Wells	19.7	92	1,630.8
J-DU9-020	1,415.0	Desert Wells	36.5	93	1,630.9
J-DU9-030	1,416.0	Desert Wells	33.3	93	1,630.9
J-DU9-040	1,416.0	Desert Wells	7.8	93	1,631.0
J-DU9-050	1,419.0	Desert Wells	0.0	92	1,631.0
J-DU9-060	1,422.0	Desert Wells	31.4	90	1,631.1
J-DU9-070	1,414.0	Desert Wells	31.7	94	1,630.9
J-DU9-080	1,419.0	Desert Wells	38.6	92	1,631.0

Active Scenario: Ave Day Demand - Served by SCAP
FlexTable: Pipe Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-160EX	16.0	2,722.00	120.0	194.0	0.31	0.035
P-170EX	16.0	5,366.00	120.0	194.0	0.31	0.035
P-180EX	16.0	5,396.00	120.0	194.0	0.31	0.035
P-190EX	16.0	5,728.00	120.0	194.0	0.31	0.035
P-200EX	16.0	231.00	120.0	-55.3	0.09	0.003
P-210EX	16.0	1,388.00	120.0	-163.7	0.26	0.025
P-220EX	16.0	2,909.00	120.0	546.3	0.87	0.236
P-240EX	16.0	1,387.00	120.0	-1,424.0	2.27	1.393
P-250EX	16.0	2,611.00	120.0	318.2	0.51	0.087
P-310	30.0	4,937.00	120.0	1,098.3	0.50	0.040
P-340EX	16.0	5,775.00	120.0	194.0	0.31	0.035
P-410EX	16.0	5,368.00	120.0	194.0	0.31	0.035
P-970	24.0	1,001.00	120.0	589.2	0.42	0.038
P-980	24.0	1,935.00	120.0	0.0	0.00	0.000
P-1060EX	16.0	1,328.00	120.0	-276.7	0.44	0.067
P-1070EX	16.0	1,243.00	120.0	-276.7	0.44	0.067
P-1630EX	16.0	1,793.00	120.0	182.4	0.29	0.031
P-1640EX	16.0	1,335.00	120.0	406.3	0.65	0.137
P-1780	24.0	1,528.00	120.0	589.2	0.42	0.038
P-1790	24.0	1,115.00	120.0	589.2	0.42	0.038
P-1940EX	16.0	1,976.00	120.0	-276.7	0.44	0.067
P-1950EX	16.0	680.00	120.0	-276.7	0.44	0.067
P-1970EX	16.0	927.00	120.0	126.8	0.20	0.016
P-1980EX	16.0	1,106.00	120.0	-14.3	0.02	0.000
P-2000EX	16.0	2,710.00	120.0	-276.7	0.44	0.067
P-2040EX	16.0	10,635.00	120.0	-185.1	0.30	0.032
P-2055EX	16.0	10,453.00	120.0	83.4	0.13	0.007
P-2070EX	24.0	5,329.00	120.0	-526.2	0.37	0.031
P-2500EX	24.0	2,750.00	120.0	551.5	0.39	0.033
P-2510EX	24.0	2,726.00	120.0	528.3	0.37	0.031
P-2540EX	12.0	2,624.00	120.0	-65.1	0.18	0.019
P-2570EX	16.0	2,640.00	120.0	0.0	0.00	0.000
P-2655EX	16.0	2,870.00	120.0	194.0	0.31	0.035
P-2660EX	24.0	2,797.00	120.0	794.7	0.56	0.066
P-2665EX	16.0	2,716.00	120.0	194.0	0.31	0.035
P-2690EX	16.0	2,914.00	120.0	-77.5	0.12	0.006
P-2700EX	16.0	3,115.00	120.0	240.7	0.38	0.052
P-2710EX	16.0	1,823.00	120.0	182.8	0.29	0.031
P-2720EX	12.0	3,042.00	120.0	-57.8	0.16	0.015
P-2830	16.0	2,890.00	120.0	-11.2	0.02	0.000
P-2860EX	24.0	761.00	120.0	794.7	0.56	0.066
P-2880EX	12.0	383.00	120.0	0.0	0.00	0.000
P-2890EX	8.0	3,148.00	120.0	-40.9	0.26	0.057
P-2900	24.0	1,423.00	120.0	713.5	0.51	0.054

Active Scenario: Ave Day Demand - Served by SCAP
FlexTable: Pipe Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-2910EX	24.0	497.00	120.0	753.8	0.53	0.060
P-2950	12.0	1,089.00	120.0	23.1	0.07	0.003
P-2970EX	12.0	1,119.00	120.0	38.3	0.11	0.007
P-2990EX	8.0	2,811.00	120.0	-29.4	0.19	0.031
P-3010EX	12.0	471.00	120.0	40.9	0.12	0.008
P-3020EX	12.0	1,167.00	120.0	8.9	0.03	0.001
P-3030EX	12.0	378.00	120.0	0.0	0.00	0.000
P-3040EX	8.0	3,081.00	120.0	-28.7	0.18	0.029
P-3060	12.0	595.00	120.0	0.0	0.00	0.000
P-3070EX	8.0	2,922.00	120.0	-19.8	0.13	0.015
P-3080EX	12.0	1,397.00	120.0	-63.6	0.18	0.018
P-3090EX	12.0	1,109.00	120.0	-50.8	0.14	0.012
P-3100EX	12.0	695.00	120.0	14.3	0.04	0.001
P-3110EX	12.0	664.00	120.0	1.4	0.00	0.000
P-3120EX	8.0	1,851.00	120.0	-12.8	0.08	0.007
P-3130	12.0	1,155.00	120.0	19.8	0.06	0.002
P-3140EX	16.0	1,783.00	120.0	18.3	0.03	0.000
P-3150EX	16.0	958.00	120.0	0.0	0.00	0.000
P-3160EX	8.0	3,801.00	120.0	-18.3	0.12	0.013
P-3170EX	8.0	2,838.00	120.0	-40.4	0.26	0.055
P-3180EX	8.0	736.00	120.0	12.2	0.08	0.006
P-3190EX	30.0	4,441.00	120.0	3,033.4	1.38	0.265
P-3200	30.0	814.00	120.0	3,033.4	1.38	0.265
P-3240EX	16.0	1,954.00	120.0	170.4	0.27	0.027
P-3250EX	12.0	844.00	120.0	-228.1	0.65	0.190
P-3260EX	16.0	1,108.00	120.0	546.3	0.87	0.236
P-3270EX	16.0	1,509.00	120.0	395.0	0.63	0.130
P-3280EX	12.0	2,890.00	120.0	-151.3	0.43	0.089
P-3290EX	12.0	2,432.00	120.0	76.8	0.22	0.025
P-3930EX	16.0	751.00	120.0	-276.7	0.44	0.067
P-3940EX	16.0	509.00	120.0	-276.7	0.44	0.067
P-3970EX	16.0	1,445.00	120.0	276.7	0.44	0.067
P-4720EX	16.0	1,216.00	120.0	301.9	0.48	0.079
P-4730EX	16.0	456.00	120.0	301.9	0.48	0.079
P-4750EX	16.0	715.00	120.0	301.9	0.48	0.079
P-4760EX	16.0	774.00	120.0	16.3	0.03	0.000
P-4790EX	16.0	1,816.00	120.0	74.1	0.12	0.006
P-5700EX	16.0	1,176.00	120.0	889.2	1.42	0.582
P-5710EX	16.0	1,171.00	120.0	889.2	1.42	0.582
P-5770	16.0	353.00	120.0	-176.9	0.28	0.029
P-5780	16.0	684.00	120.0	-176.9	0.28	0.029
P-6030	12.0	162.00	120.0	-108.4	0.31	0.047
P-6070	16.0	247.00	120.0	-278.9	0.45	0.068
P-6166	16.0	900.00	120.0	-276.7	0.44	0.067

Active Scenario: Ave Day Demand - Served by SCAP

FlexTable: Pipe Table

(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-6167EX	16.0	1,381.00	120.0	-565.9	0.90	0.252
P-6171	16.0	3,164.00	120.0	921.4	1.47	0.622
P-7000	16.0	742.00	120.0	-176.7	0.28	0.029
P-COMWTREX	36.0	10.00	120.0	794.7	0.25	0.012
P-DU-3-4-070	12.0	734.00	120.0	-265.6	0.75	0.252
P-DU-3-4-080	12.0	913.00	120.0	-169.4	0.48	0.110
P-DU-3-4-090	12.0	1,401.00	120.0	17.2	0.05	0.002
P-DU-3-4-100	12.0	717.00	120.0	-203.8	0.58	0.155
P-DU-3-4-110	16.0	597.00	120.0	106.3	0.17	0.011
P-DU-3-4-120	16.0	1,375.00	120.0	-68.2	0.11	0.005
P-DU-3-4-130	12.0	1,165.00	120.0	33.3	0.09	0.005
P-DU-3S-130	16.0	1,385.00	120.0	-372.0	0.59	0.116
P-DU3-4-010	12.0	1,834.00	120.0	-23.8	0.07	0.003
P-DU3-4-020	24.0	1,370.00	120.0	-409.9	0.29	0.019
P-DU3-4-030	24.0	1,035.00	120.0	-539.5	0.38	0.032
P-DU3-4-040	24.0	496.00	120.0	-653.8	0.46	0.046
P-DU3-4-050	24.0	1,092.00	120.0	-805.1	0.57	0.067
P-DU3-4-060	12.0	553.00	120.0	-291.2	0.83	0.299
P-DU3-4-160	12.0	1,157.00	120.0	-37.3	0.11	0.007
P-DU3-4-170	16.0	937.00	120.0	-194.7	0.31	0.035
P-DU3-4-180	16.0	1,045.00	120.0	-284.7	0.45	0.071
P-DU3-4-190	16.0	1,019.00	120.0	-374.7	0.60	0.118
P-DU3-4-200	16.0	958.00	120.0	-382.1	0.61	0.122
P-DU3-4-210	16.0	1,373.00	120.0	-415.0	0.66	0.142
P-DU3S-010	8.0	261.00	120.0	102.3	0.65	0.311
P-DU3S-020	8.0	1,374.00	120.0	44.5	0.28	0.066
P-DU3S-030	8.0	1,542.00	120.0	33.5	0.21	0.039
P-DU3S-040	8.0	1,242.00	120.0	18.5	0.12	0.013
P-DU3S-050	8.0	801.00	120.0	-24.2	0.15	0.021
P-DU3S-060	8.0	974.00	120.0	-16.7	0.11	0.011
P-DU3S-070	8.0	1,384.00	120.0	-28.8	0.18	0.030
P-DU3S-080	8.0	1,241.00	120.0	-40.6	0.26	0.056
P-DU3S-090	8.0	621.00	120.0	-47.6	0.30	0.075
P-DU3S-100	16.0	1,114.00	130.0	42.3	0.07	0.002
P-DU3S-110	16.0	1,525.00	130.0	-72.0	0.11	0.005
P-DU3S-120	16.0	1,560.00	120.0	-233.9	0.37	0.049
P-DU5E-010	12.0	2,201.00	120.0	-114.2	0.32	0.053
P-DU5E-020	12.0	1,392.00	120.0	60.8	0.17	0.016
P-DU5E-030	12.0	2,181.00	120.0	235.8	0.67	0.202
P-DU6-010	12.0	1,163.00	120.0	203.9	0.58	0.155
P-DU6-020	16.0	124.00	120.0	720.0	1.15	0.395
P-DU6-030	12.0	1,388.00	120.0	-29.3	0.08	0.004
P-DU6-040	12.0	2,188.00	120.0	1.3	0.00	0.000
P-DU6-050	12.0	2,203.00	120.0	-86.4	0.25	0.032

Active Scenario: Ave Day Demand - Served by SCAP
FlexTable: Pipe Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-DU6-060	12.0	2,209.00	120.0	203.9	0.58	0.155
P-DU6-070	16.0	142.00	120.0	946.9	1.51	0.654
P-DU6-080	12.0	1,130.00	120.0	340.6	0.97	0.400
P-DU6-090	12.0	1,397.00	120.0	105.2	0.30	0.045
P-DU6-100	12.0	1,966.00	120.0	56.7	0.16	0.014
P-DU6-110	12.0	1,963.00	120.0	-92.0	0.26	0.035
P-DU6-120	12.0	1,955.00	120.0	-42.3	0.12	0.008
P-DU6-130	12.0	135.00	120.0	347.3	0.99	0.415
P-DU6-140	12.0	1,094.00	120.0	309.3	0.88	0.335
P-DU6-150	12.0	1,411.00	120.0	137.0	0.39	0.074
P-DU6-160	16.0	211.00	120.0	540.4	0.86	0.232
P-DU7-010	12.0	1,169.00	120.0	191.0	0.54	0.137
P-DU7-020	12.0	1,092.00	120.0	36.6	0.10	0.006
P-DU7-030	12.0	1,044.00	120.0	36.6	0.10	0.006
P-DU7-040	24.0	1,410.00	120.0	-1,158.5	0.82	0.132
P-DU7-050	24.0	1,075.00	120.0	-1,369.4	0.97	0.180
P-DU7-060	24.0	1,254.00	120.0	-1,380.5	0.98	0.183
P-DU7-070	24.0	992.00	120.0	-1,459.3	1.03	0.202
P-DU7-080	24.0	2,552.00	120.0	-1,494.3	1.06	0.211
P-DU7-090	16.0	941.00	120.0	-572.0	0.91	0.257
P-DU7-100	16.0	1,562.00	120.0	-543.1	0.87	0.234
P-DU7-110	16.0	1,742.00	120.0	-456.9	0.73	0.170
P-DU7-120	16.0	778.00	120.0	392.9	0.63	0.128
P-DU7-130	20.0	317.00	120.0	-177.0	0.18	0.010
P-DU7-140	20.0	1,207.00	120.0	-174.4	0.18	0.010
P-DU7-150	20.0	1,514.00	120.0	-272.9	0.28	0.022
P-DU7-160	20.0	619.00	120.0	-256.6	0.26	0.020
P-DU7-170	12.0	1,073.00	130.0	-78.7	0.22	0.023
P-DU7-180	12.0	828.00	120.0	54.7	0.16	0.014
P-DU7-190	12.0	399.00	120.0	-155.1	0.44	0.093
P-DU7-200	12.0	2,378.00	120.0	81.7	0.23	0.028
P-DU7-210	12.0	1,049.00	120.0	-285.7	0.81	0.289
P-DU7-220	12.0	1,054.00	120.0	-255.6	0.72	0.235
P-DU7-230	12.0	1,714.00	120.0	-199.2	0.56	0.148
P-DU7-240	12.0	1,014.00	120.0	-148.5	0.42	0.086
P-DU8-010	16.0	1,107.00	120.0	-112.9	0.18	0.013
P-DU8-020	16.0	714.00	120.0	-376.7	0.60	0.119
P-DU8-030	16.0	1,312.00	120.0	-342.9	0.55	0.100
P-DU8-040	16.0	1,371.00	120.0	-385.5	0.62	0.124
P-DU8-050	16.0	520.00	120.0	-457.7	0.73	0.170
P-DU8-060	16.0	1,021.00	120.0	-589.2	0.94	0.272
P-DU8-070	8.0	542.00	120.0	-68.1	0.43	0.146
P-DU8-080	8.0	253.00	120.0	-25.8	0.16	0.025
P-DU8-090	8.0	1,138.00	120.0	-41.2	0.26	0.058

Active Scenario: Ave Day Demand - Served by SCAP

FlexTable: Pipe Table

(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-DU8-100	12.0	599.00	120.0	139.1	0.39	0.076
P-DU8-110	12.0	709.00	120.0	64.8	0.18	0.019
P-DU8-120	8.0	678.00	120.0	-51.4	0.33	0.087
P-DU8-130	8.0	1,315.00	120.0	24.0	0.15	0.021
P-DU8-140	8.0	966.00	120.0	9.1	0.06	0.004
P-DU8-150	6.0	737.00	130.0	-5.7	0.06	0.005
P-DU8-160	8.0	1,265.00	120.0	15.1	0.10	0.009
P-DU8-170	8.0	2,613.00	120.0	-4.6	0.03	0.001
P-DU8-180	8.0	1,778.00	120.0	-21.8	0.14	0.018
P-DU8-190	8.0	1,185.00	120.0	22.7	0.14	0.019
P-DU8-200	8.0	1,054.00	120.0	65.5	0.42	0.136
P-DU9-010	16.0	904.00	120.0	-278.9	0.45	0.068
P-DU9-020	16.0	227.00	120.0	-263.8	0.42	0.061
P-DU9-030	8.0	1,616.00	120.0	-34.8	0.22	0.042
P-DU9-040	8.0	746.00	120.0	-34.2	0.22	0.041
P-DU9-050	8.0	869.00	120.0	-37.1	0.24	0.047
P-DU9-060	8.0	1,550.00	120.0	-48.3	0.31	0.077
P-DU9-070	8.0	1,001.00	120.0	-19.5	0.12	0.014
P-DU9-080	8.0	644.00	120.0	-27.3	0.17	0.027
P-DU9-090	8.0	3,092.00	120.0	-2.6	0.02	0.000
P-DU9-100	8.0	1,619.00	120.0	-22.6	0.14	0.019
P-DU9-110	8.0	3,057.00	120.0	-11.7	0.07	0.006
P-DU9-120	8.0	901.00	120.0	19.8	0.13	0.015
P-DU9-130	8.0	879.00	120.0	-69.7	0.44	0.152
P-DU9-140	8.0	430.00	120.0	-131.5	0.84	0.495
P-DU9-150	8.0	4,471.00	120.0	-30.5	0.19	0.033
P-SCAP	36.0	1,752.00	120.0	-6,019.6	1.90	0.387

Active Scenario: Max Day Demand - Served by SCAP
FlexTable: Reservoir Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Flow Net (Out) (gpm)	Zone	Hydraulic Grade (ft)
C.O.M. DW SUPPLY FROM NORTH	1,634.0	1,451.4	Desert Wells	1,634.0
SCAP DWPS	1,634.0	10,993.8	Desert Wells	1,634.0
DWGWF - DWPS	1,634.0	(N/A)	Desert Wells	(N/A)

Active Scenario: Max Day Demand - Served by SCAP
FlexTable: Junction Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-100EX	1,406.0	Desert Wells	0.0	94	1,623.1
J-110EX	1,440.0	Desert Wells	0.0	80	1,623.8
J-120EX	1,462.0	Desert Wells	0.0	74	1,631.9
J-135EX	1,460.0	Desert Wells	0.0	73	1,629.9
J-150EX	1,472.0	Desert Wells	0.0	67	1,627.5
J-160EX	1,435.0	Desert Wells	0.0	82	1,625.4
J-170EX	1,430.0	Desert Wells	0.0	84	1,625.0
J-180EX	1,410.0	Desert Wells	0.0	93	1,624.4
J-190EX	1,395.0	Desert Wells	0.0	99	1,623.7
J-200EX	1,385.0	Desert Wells	0.0	103	1,623.0
J-220EX	1,480.0	Desert Wells	0.0	65	1,629.8
J-230EX	1,475.0	Desert Wells	0.0	66	1,628.3
J-250EX	1,452.0	Desert Wells	79.0	76	1,627.5
J-260EX	1,453.0	Desert Wells	0.0	75	1,627.5
J-270	1,429.0	Desert Wells	0.0	85	1,626.3
J-280EX	1,460.0	Desert Wells	0.0	72	1,626.1
J-300EX	1,392.0	Desert Wells	107.8	100	1,622.3
J-330EX	1,455.0	Desert Wells	0.0	74	1,626.8
J-340	1,440.0	Desert Wells	0.0	81	1,626.4
J-360EX	1,400.0	Desert Wells	0.0	96	1,622.3
J-550	1,425.0	Desert Wells	0.0	87	1,626.3
J-590EX	1,410.0	Desert Wells	0.0	92	1,623.5
J-920	1,434.0	Desert Wells	0.0	83	1,626.6
J-950	1,414.0	Desert Wells	0.0	91	1,623.3
J-960EX	1,401.0	Desert Wells	0.0	96	1,622.6
J-970EX	1,397.0	Desert Wells	0.0	97	1,622.1
J-1000EX	1,455.0	Desert Wells	0.0	77	1,633.5
J-1010EX	1,485.0	Desert Wells	0.0	64	1,633.0
J-1020EX	1,425.0	Desert Wells	0.0	90	1,633.8
J-1030EX	1,480.0	Desert Wells	0.0	67	1,634.0
J-1040EX	1,433.0	Desert Wells	0.0	83	1,624.6
J-1050EX	1,445.0	Desert Wells	0.0	79	1,627.0
J-1120EX	1,453.0	Desert Wells	0.0	75	1,627.5
J-1130EX	1,445.0	Desert Wells	350.0	78	1,626.2
J-1160EX	1,445.0	Desert Wells	0.0	82	1,633.5
J-1170EX	1,470.0	Desert Wells	0.0	71	1,633.2
J-1180EX	1,440.0	Desert Wells	0.0	84	1,633.6
J-1190EX	1,420.0	Desert Wells	0.0	92	1,633.8
J-1200EX	1,445.0	Desert Wells	0.0	82	1,633.6
J-1210EX	1,455.0	Desert Wells	0.0	77	1,633.2
J-1220EX	1,475.0	Desert Wells	0.0	68	1,632.5
J-1230EX	1,460.0	Desert Wells	0.0	72	1,626.4
J-1235EX	1,440.0	Desert Wells	0.0	81	1,626.8
J-1240EX	1,455.0	Desert Wells	0.0	74	1,627.0

Active Scenario: Max Day Demand - Served by SCAP
FlexTable: Junction Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-1290EX	1,480.0	Desert Wells	0.0	66	1,632.6
J-1300EX	1,465.0	Desert Wells	0.0	73	1,633.2
J-1310EX	1,480.0	Desert Wells	0.0	66	1,632.7
J-1330EX	1,465.0	Desert Wells	0.0	73	1,633.2
J-1340EX	1,450.0	Desert Wells	0.0	79	1,633.5
J-1350EX	1,465.0	Desert Wells	0.0	73	1,633.2
J-1360EX	1,445.0	Desert Wells	0.0	82	1,633.5
J-1370EX	1,430.0	Desert Wells	0.0	88	1,633.6
J-1380EX	1,450.0	Desert Wells	0.0	79	1,633.6
J-1390EX	1,430.0	Desert Wells	0.0	88	1,633.6
J-1400EX	1,430.0	Desert Wells	0.0	88	1,633.6
J-1410	1,454.0	Desert Wells	0.0	75	1,628.2
J-1410EX	1,420.0	Desert Wells	0.0	92	1,633.8
J-1420EX	1,460.0	Desert Wells	0.0	73	1,627.8
J-1430EX	1,455.0	Desert Wells	0.0	75	1,628.2
J-1440EX	1,478.0	Desert Wells	0.0	65	1,629.0
J-1680EX	1,400.0	Desert Wells	0.0	96	1,622.5
J-1990EX	1,447.0	Desert Wells	0.0	78	1,627.1
J-2000EX	1,442.0	Desert Wells	0.0	80	1,626.8
J-2120EX	1,453.0	Desert Wells	0.0	75	1,626.5
J-2140EX	1,446.0	Desert Wells	0.0	78	1,626.3
J-2295	1,415.0	Desert Wells	0.0	90	1,623.3
J-2340EX	1,435.0	Desert Wells	350.0	82	1,624.9
J-DU3-4-010	1,405.0	Desert Wells	276.2	94	1,622.4
J-DU3-4-020	1,401.0	Desert Wells	276.2	96	1,622.4
J-DU3-4-030	1,397.0	Desert Wells	259.2	97	1,622.2
J-DU3-4-040	1,403.0	Desert Wells	302.6	95	1,622.4
J-DU3-4-050	1,410.0	Desert Wells	51.2	92	1,622.1
J-DU3-4-060	1,408.0	Desert Wells	117.8	92	1,621.5
J-DU3-4-070	1,404.0	Desert Wells	373.2	94	1,621.1
J-DU3-4-080	1,400.0	Desert Wells	373.2	96	1,621.1
J-DU3-4-090	1,393.0	Desert Wells	151.4	99	1,621.5
J-DU3-4-100	1,391.0	Desert Wells	372.2	100	1,622.1
J-DU3-4-110	1,393.0	Desert Wells	282.2	99	1,621.5
J-DU3-4-120	1,393.0	Desert Wells	312.2	99	1,621.5
J-DU3-4-130	1,399.0	Desert Wells	349.0	96	1,621.5
J-DU3-4-140	1,404.0	Desert Wells	186.4	94	1,621.5
J-DU3-4-150	1,407.0	Desert Wells	141.2	93	1,621.5
J-DU3-4-160	1,407.0	Desert Wells	180.0	93	1,621.6
J-DU3-4-170	1,412.0	Desert Wells	180.0	91	1,621.8
J-DU3-4-180	1,414.0	Desert Wells	14.8	90	1,622.3
J-DU3-4-190	1,417.0	Desert Wells	65.8	89	1,622.7
J-DU3-4-200	1,412.5	Desert Wells	276.2	91	1,622.6
J-DU3S-010	1,412.0	Desert Wells	20.4	91	1,623.0

Active Scenario: Max Day Demand - Served by SCAP
FlexTable: Junction Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-DU3S-020	1,407.0	Desert Wells	22.0	93	1,622.7
J-DU3S-030	1,401.0	Desert Wells	30.0	96	1,622.5
J-DU3S-040	1,399.0	Desert Wells	22.0	97	1,622.4
J-DU3S-050	1,404.0	Desert Wells	24.2	95	1,622.4
J-DU3S-060	1,410.0	Desert Wells	23.6	92	1,622.6
J-DU3S-070	1,417.0	Desert Wells	14.0	89	1,622.8
J-DU3S-080	1,396.0	Desert Wells	107.8	98	1,622.3
J-DU5E-010	1,435.0	Desert Wells	350.0	82	1,624.5
J-DU5E-020	1,440.0	Desert Wells	350.0	80	1,624.6
J-DU6-010	1,459.0	Desert Wells	0.0	73	1,626.8
J-DU6-020	1,453.0	Desert Wells	2,196.2	75	1,626.4
J-DU6-030	1,450.0	Desert Wells	160.6	76	1,626.3
J-DU6-040	1,440.0	Desert Wells	321.4	81	1,626.2
J-DU6-050	1,448.0	Desert Wells	482.0	77	1,626.4
J-DU6-060	1,458.0	Desert Wells	500.4	73	1,627.6
J-DU6-070	1,452.0	Desert Wells	160.6	76	1,627.4
J-DU6-080	1,446.0	Desert Wells	160.6	78	1,626.5
J-DU6-090	1,435.0	Desert Wells	160.6	83	1,626.2
J-DU7-010	1,415.0	Desert Wells	13.0	90	1,623.2
J-DU7-020	1,425.0	Desert Wells	455.2	86	1,622.6
J-DU7-030	1,416.0	Desert Wells	0.0	89	1,622.7
J-DU7-040	1,409.0	Desert Wells	51.2	92	1,622.7
J-DU7-050	1,416.0	Desert Wells	105.0	90	1,623.3
J-DU7-060	1,423.0	Desert Wells	22.2	87	1,624.0
J-DU7-070	1,430.0	Desert Wells	0.0	84	1,624.8
J-DU7-080	1,434.0	Desert Wells	70.0	83	1,625.6
J-DU7-090	1,437.0	Desert Wells	0.0	82	1,626.8
J-DU7-100	1,435.0	Desert Wells	57.8	83	1,625.9
J-DU7-110	1,435.0	Desert Wells	57.6	82	1,624.6
J-DU7-120	1,420.0	Desert Wells	0.0	88	1,623.6
J-DU7-130	1,420.0	Desert Wells	5.2	88	1,623.5
J-DU7-140	1,425.0	Desert Wells	99.8	86	1,623.5
J-DU7-150	1,419.0	Desert Wells	32.6	88	1,623.4
J-DU7-160	1,435.0	Desert Wells	48.0	82	1,624.8
J-DU7-170	1,432.0	Desert Wells	21.4	83	1,624.7
J-DU7-180	1,433.0	Desert Wells	37.4	83	1,624.8
J-DU7-190	1,437.0	Desert Wells	60.2	82	1,625.7
J-DU7-200	1,432.0	Desert Wells	101.4	83	1,623.8
J-DU8-010	1,420.0	Desert Wells	0.0	88	1,623.6
J-DU8-020	1,419.5	Desert Wells	0.0	88	1,623.9
J-DU8-030	1,421.0	Desert Wells	0.0	88	1,624.4
J-DU8-040	1,418.0	Desert Wells	13.4	90	1,625.0
J-DU8-050	1,422.0	Desert Wells	0.0	88	1,625.3
J-DU8-060	1,420.0	Desert Wells	18.2	88	1,624.2

Active Scenario: Max Day Demand - Served by SCAP

FlexTable: Junction Table

(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-DU8-070	1,420.0	Desert Wells	30.8	88	1,624.2
J-DU8-080	1,422.0	Desert Wells	8.8	88	1,624.4
J-DU8-090	1,424.0	Desert Wells	22.0	87	1,624.4
J-DU8-100	1,425.0	Desert Wells	18.2	86	1,624.4
J-DU8-110	1,430.0	Desert Wells	87.2	84	1,624.3
J-DU8-120	1,431.0	Desert Wells	34.4	84	1,624.3
J-DU8-130	1,427.0	Desert Wells	42.0	85	1,624.5
J-DU9-010	1,419.0	Desert Wells	39.4	89	1,623.6
J-DU9-020	1,415.0	Desert Wells	73.0	90	1,623.8
J-DU9-030	1,416.0	Desert Wells	66.6	90	1,623.9
J-DU9-040	1,416.0	Desert Wells	15.6	90	1,624.0
J-DU9-050	1,419.0	Desert Wells	0.0	89	1,624.0
J-DU9-060	1,422.0	Desert Wells	62.8	88	1,624.5
J-DU9-070	1,414.0	Desert Wells	63.4	91	1,623.9
J-DU9-080	1,419.0	Desert Wells	77.2	89	1,624.0

Active Scenario: Max Day Demand - Served by SCAP

FlexTable: Pipe Table

(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-160EX	16.0	2,722.00	120.0	383.9	0.61	0.123
P-170EX	16.0	5,366.00	120.0	383.9	0.61	0.123
P-180EX	16.0	5,396.00	120.0	383.9	0.61	0.123
P-190EX	16.0	5,728.00	120.0	383.9	0.61	0.123
P-200EX	16.0	231.00	120.0	-379.1	0.60	0.120
P-210EX	16.0	1,388.00	120.0	-461.6	0.74	0.173
P-220EX	16.0	2,909.00	120.0	1,011.6	1.61	0.740
P-240EX	16.0	1,387.00	120.0	-2,485.4	3.97	3.908
P-250EX	16.0	2,611.00	120.0	629.4	1.00	0.307
P-310	30.0	4,937.00	120.0	2,176.9	0.99	0.143
P-340EX	16.0	5,775.00	120.0	383.9	0.61	0.123
P-410EX	16.0	5,368.00	120.0	383.9	0.61	0.123
P-970	24.0	1,001.00	120.0	1,168.2	0.83	0.134
P-980	24.0	1,935.00	120.0	0.0	0.00	0.000
P-1060EX	16.0	1,328.00	120.0	-613.3	0.98	0.293
P-1070EX	16.0	1,243.00	120.0	-613.3	0.98	0.293
P-1630EX	16.0	1,793.00	120.0	355.0	0.57	0.106
P-1640EX	16.0	1,335.00	120.0	780.8	1.25	0.458
P-1780	24.0	1,528.00	120.0	1,168.2	0.83	0.134
P-1790	24.0	1,115.00	120.0	1,168.2	0.83	0.134
P-1940EX	16.0	1,976.00	120.0	-613.3	0.98	0.293
P-1950EX	16.0	680.00	120.0	-613.3	0.98	0.293
P-1970EX	16.0	927.00	120.0	219.3	0.35	0.044
P-1980EX	16.0	1,106.00	120.0	-62.9	0.10	0.004
P-2000EX	16.0	2,710.00	120.0	-613.3	0.98	0.293
P-2040EX	16.0	10,635.00	120.0	-338.1	0.54	0.097
P-2055EX	16.0	10,453.00	120.0	152.3	0.24	0.022
P-2070EX	24.0	5,329.00	120.0	-961.0	0.68	0.093
P-2500EX	24.0	2,750.00	120.0	1,007.2	0.71	0.102
P-2510EX	24.0	2,726.00	120.0	964.9	0.68	0.094
P-2540EX	12.0	2,624.00	120.0	-118.8	0.34	0.057
P-2570EX	16.0	2,640.00	120.0	0.0	0.00	0.000
P-2655EX	16.0	2,870.00	120.0	383.9	0.61	0.123
P-2660EX	24.0	2,797.00	120.0	1,451.4	1.03	0.200
P-2665EX	16.0	2,716.00	120.0	383.9	0.61	0.123
P-2690EX	16.0	2,914.00	120.0	-152.6	0.24	0.022
P-2700EX	16.0	3,115.00	120.0	476.7	0.76	0.184
P-2710EX	16.0	1,823.00	120.0	362.2	0.58	0.110
P-2720EX	12.0	3,042.00	120.0	-114.6	0.32	0.053
P-2830	16.0	2,890.00	120.0	-21.8	0.03	0.001
P-2860EX	24.0	761.00	120.0	1,451.4	1.03	0.200
P-2880EX	12.0	383.00	120.0	0.0	0.00	0.000
P-2890EX	8.0	3,148.00	120.0	-74.7	0.48	0.173
P-2900	24.0	1,423.00	120.0	1,303.0	0.92	0.164

Active Scenario: Max Day Demand - Served by SCAP
FlexTable: Pipe Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-2910EX	24.0	497.00	120.0	1,376.8	0.98	0.182
P-2950	12.0	1,089.00	120.0	42.2	0.12	0.008
P-2970EX	12.0	1,119.00	120.0	70.0	0.20	0.021
P-2990EX	8.0	2,811.00	120.0	-53.8	0.34	0.094
P-3010EX	12.0	471.00	120.0	74.7	0.21	0.024
P-3020EX	12.0	1,167.00	120.0	16.3	0.05	0.001
P-3030EX	12.0	378.00	120.0	0.0	0.00	0.000
P-3040EX	8.0	3,081.00	120.0	-52.4	0.33	0.090
P-3060	12.0	595.00	120.0	0.0	0.00	0.000
P-3070EX	8.0	2,922.00	120.0	-36.1	0.23	0.045
P-3080EX	12.0	1,397.00	120.0	-116.2	0.33	0.055
P-3090EX	12.0	1,109.00	120.0	-92.8	0.26	0.036
P-3100EX	12.0	695.00	120.0	26.1	0.07	0.003
P-3110EX	12.0	664.00	120.0	2.6	0.01	0.000
P-3120EX	8.0	1,851.00	120.0	-23.4	0.15	0.020
P-3130	12.0	1,155.00	120.0	36.1	0.10	0.006
P-3140EX	16.0	1,783.00	120.0	33.5	0.05	0.001
P-3150EX	16.0	958.00	120.0	0.0	0.00	0.000
P-3160EX	8.0	3,801.00	120.0	-33.5	0.21	0.039
P-3170EX	8.0	2,838.00	120.0	-73.7	0.47	0.169
P-3180EX	8.0	736.00	120.0	22.3	0.14	0.018
P-3190EX	30.0	4,441.00	120.0	5,696.3	2.59	0.850
P-3200	30.0	814.00	120.0	5,696.3	2.59	0.850
P-3240EX	16.0	1,954.00	120.0	452.9	0.72	0.167
P-3250EX	12.0	844.00	120.0	-382.2	1.08	0.495
P-3260EX	16.0	1,108.00	120.0	1,011.6	1.61	0.740
P-3270EX	16.0	1,509.00	120.0	741.5	1.18	0.416
P-3280EX	12.0	2,890.00	120.0	-270.1	0.77	0.260
P-3290EX	12.0	2,432.00	120.0	112.1	0.32	0.051
P-3930EX	16.0	751.00	120.0	-613.3	0.98	0.293
P-3940EX	16.0	509.00	120.0	-613.3	0.98	0.293
P-3970EX	16.0	1,445.00	120.0	613.3	0.98	0.293
P-4720EX	16.0	1,216.00	120.0	598.4	0.95	0.280
P-4730EX	16.0	456.00	120.0	598.4	0.95	0.280
P-4750EX	16.0	715.00	120.0	598.4	0.95	0.280
P-4760EX	16.0	774.00	120.0	32.3	0.05	0.001
P-4790EX	16.0	1,816.00	120.0	146.9	0.23	0.021
P-5700EX	16.0	1,176.00	120.0	1,617.7	2.58	1.764
P-5710EX	16.0	1,171.00	120.0	1,617.7	2.58	1.764
P-5770	16.0	353.00	120.0	-36.2	0.06	0.001
P-5780	16.0	684.00	120.0	-36.2	0.06	0.002
P-6030	12.0	162.00	120.0	-82.5	0.23	0.029
P-6070	16.0	247.00	120.0	-551.6	0.88	0.241
P-6166	16.0	900.00	120.0	-613.3	0.98	0.293

Active Scenario: Max Day Demand - Served by SCAP

FlexTable: Pipe Table

(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-6167EX	16.0	1,381.00	120.0	-1,182.0	1.89	0.987
P-6171	16.0	3,164.00	120.0	1,634.2	2.61	1.798
P-7000	16.0	742.00	120.0	-348.9	0.56	0.103
P-COMWTREX	36.0	10.00	120.0	1,451.4	0.46	0.024
P-DU-3-4-070	12.0	734.00	120.0	-518.8	1.47	0.872
P-DU-3-4-080	12.0	913.00	120.0	-336.3	0.95	0.391
P-DU-3-4-090	12.0	1,401.00	120.0	36.9	0.10	0.007
P-DU-3-4-100	12.0	717.00	120.0	-410.1	1.16	0.564
P-DU-3-4-110	16.0	597.00	120.0	238.2	0.38	0.051
P-DU-3-4-120	16.0	1,375.00	120.0	-110.8	0.18	0.012
P-DU-3-4-130	12.0	1,165.00	120.0	76.5	0.22	0.025
P-DU-3S-130	16.0	1,385.00	120.0	-735.9	1.17	0.410
P-DU3-4-010	12.0	1,834.00	120.0	-43.4	0.12	0.009
P-DU3-4-020	24.0	1,370.00	120.0	-798.0	0.57	0.066
P-DU3-4-030	24.0	1,035.00	120.0	-1,057.2	0.75	0.111
P-DU3-4-040	24.0	496.00	120.0	-1,290.1	0.91	0.161
P-DU3-4-050	24.0	1,092.00	120.0	-1,592.7	1.13	0.238
P-DU3-4-060	12.0	553.00	120.0	-570.0	1.62	1.038
P-DU3-4-160	12.0	1,157.00	120.0	-64.7	0.18	0.018
P-DU3-4-170	16.0	937.00	120.0	-373.7	0.60	0.117
P-DU3-4-180	16.0	1,045.00	120.0	-553.7	0.88	0.242
P-DU3-4-190	16.0	1,019.00	120.0	-733.7	1.17	0.408
P-DU3-4-200	16.0	958.00	120.0	-748.5	1.19	0.423
P-DU3-4-210	16.0	1,373.00	120.0	-814.3	1.30	0.495
P-DU3S-010	8.0	261.00	120.0	202.7	1.29	1.102
P-DU3S-020	8.0	1,374.00	120.0	88.0	0.56	0.235
P-DU3S-030	8.0	1,542.00	120.0	66.0	0.42	0.138
P-DU3S-040	8.0	1,242.00	120.0	36.0	0.23	0.045
P-DU3S-050	8.0	801.00	120.0	-46.5	0.30	0.072
P-DU3S-060	8.0	974.00	120.0	-32.5	0.21	0.037
P-DU3S-070	8.0	1,384.00	120.0	-56.7	0.36	0.104
P-DU3S-080	8.0	1,241.00	120.0	-80.3	0.51	0.198
P-DU3S-090	8.0	621.00	120.0	-94.3	0.60	0.267
P-DU3S-100	16.0	1,114.00	130.0	78.9	0.13	0.006
P-DU3S-110	16.0	1,525.00	130.0	-140.2	0.22	0.016
P-DU3S-120	16.0	1,560.00	120.0	-459.7	0.73	0.172
P-DU5E-010	12.0	2,201.00	120.0	-218.7	0.62	0.176
P-DU5E-020	12.0	1,392.00	120.0	131.3	0.37	0.068
P-DU5E-030	12.0	2,181.00	120.0	481.3	1.37	0.759
P-DU6-010	12.0	1,163.00	120.0	315.0	0.89	0.346
P-DU6-020	16.0	124.00	120.0	1,156.1	1.84	0.947
P-DU6-030	12.0	1,388.00	120.0	153.8	0.44	0.092
P-DU6-040	12.0	2,188.00	120.0	-75.7	0.21	0.025
P-DU6-050	12.0	2,203.00	120.0	-11.2	0.03	0.001

Active Scenario: Max Day Demand - Served by SCAP
FlexTable: Pipe Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-DU6-060	12.0	2,209.00	120.0	315.0	0.89	0.346
P-DU6-070	16.0	142.00	120.0	1,547.0	2.47	1.625
P-DU6-080	12.0	1,130.00	120.0	568.0	1.61	1.031
P-DU6-090	12.0	1,397.00	120.0	186.3	0.53	0.131
P-DU6-100	12.0	1,966.00	120.0	59.4	0.17	0.016
P-DU6-110	12.0	1,963.00	120.0	-111.5	0.32	0.051
P-DU6-120	12.0	1,955.00	120.0	-163.6	0.46	0.103
P-DU6-130	12.0	135.00	120.0	489.1	1.39	0.782
P-DU6-140	12.0	1,094.00	120.0	492.1	1.40	0.791
P-DU6-150	12.0	1,411.00	120.0	220.0	0.62	0.178
P-DU6-160	16.0	211.00	120.0	867.7	1.38	0.557
P-DU7-010	12.0	1,169.00	120.0	378.0	1.07	0.485
P-DU7-020	12.0	1,092.00	120.0	77.2	0.22	0.025
P-DU7-030	12.0	1,044.00	120.0	77.2	0.22	0.026
P-DU7-040	24.0	1,410.00	120.0	-2,291.0	1.62	0.466
P-DU7-050	24.0	1,075.00	120.0	-2,708.7	1.92	0.636
P-DU7-060	24.0	1,254.00	120.0	-2,730.9	1.94	0.646
P-DU7-070	24.0	992.00	120.0	-2,888.5	2.05	0.716
P-DU7-080	24.0	2,552.00	120.0	-2,958.5	2.10	0.749
P-DU7-090	16.0	941.00	120.0	-1,133.7	1.81	0.913
P-DU7-100	16.0	1,562.00	120.0	-1,075.9	1.72	0.829
P-DU7-110	16.0	1,742.00	120.0	-903.6	1.44	0.600
P-DU7-120	16.0	778.00	120.0	778.1	1.24	0.455
P-DU7-130	20.0	317.00	120.0	-346.2	0.35	0.034
P-DU7-140	20.0	1,207.00	120.0	-341.0	0.35	0.033
P-DU7-150	20.0	1,514.00	120.0	-534.2	0.55	0.076
P-DU7-160	20.0	619.00	120.0	-501.6	0.51	0.068
P-DU7-170	12.0	1,073.00	130.0	-157.6	0.45	0.083
P-DU7-180	12.0	828.00	120.0	109.6	0.31	0.049
P-DU7-190	12.0	399.00	120.0	-306.2	0.87	0.329
P-DU7-200	12.0	2,378.00	120.0	162.3	0.46	0.101
P-DU7-210	12.0	1,049.00	120.0	-566.1	1.61	1.025
P-DU7-220	12.0	1,054.00	120.0	-505.9	1.44	0.832
P-DU7-230	12.0	1,714.00	120.0	-394.4	1.12	0.525
P-DU7-240	12.0	1,014.00	120.0	-293.0	0.83	0.303
P-DU8-010	16.0	1,107.00	120.0	-220.7	0.35	0.044
P-DU8-020	16.0	714.00	120.0	-743.5	1.19	0.418
P-DU8-030	16.0	1,312.00	120.0	-677.9	1.08	0.352
P-DU8-040	16.0	1,371.00	120.0	-763.4	1.22	0.439
P-DU8-050	16.0	520.00	120.0	-906.7	1.45	0.604
P-DU8-060	16.0	1,021.00	120.0	-1,168.2	1.86	0.966
P-DU8-070	8.0	542.00	120.0	-134.4	0.86	0.515
P-DU8-080	8.0	253.00	120.0	-51.0	0.33	0.086
P-DU8-090	8.0	1,138.00	120.0	-81.8	0.52	0.205

Active Scenario: Max Day Demand - Served by SCAP

FlexTable: Pipe Table

(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-DU8-100	12.0	599.00	120.0	277.0	0.79	0.273
P-DU8-110	12.0	709.00	120.0	129.0	0.37	0.066
P-DU8-120	8.0	678.00	120.0	-101.7	0.65	0.307
P-DU8-130	8.0	1,315.00	120.0	48.1	0.31	0.077
P-DU8-140	8.0	966.00	120.0	18.5	0.12	0.013
P-DU8-150	6.0	737.00	130.0	-11.0	0.12	0.017
P-DU8-160	8.0	1,265.00	120.0	30.3	0.19	0.033
P-DU8-170	8.0	2,613.00	120.0	-8.8	0.06	0.003
P-DU8-180	8.0	1,778.00	120.0	-43.2	0.28	0.063
P-DU8-190	8.0	1,185.00	120.0	44.7	0.29	0.067
P-DU8-200	8.0	1,054.00	120.0	129.9	0.83	0.484
P-DU9-010	16.0	904.00	120.0	-551.6	0.88	0.240
P-DU9-020	16.0	227.00	120.0	-522.8	0.83	0.218
P-DU9-030	8.0	1,616.00	120.0	-68.2	0.44	0.146
P-DU9-040	8.0	746.00	120.0	-68.8	0.44	0.149
P-DU9-050	8.0	869.00	120.0	-72.3	0.46	0.164
P-DU9-060	8.0	1,550.00	120.0	-96.4	0.62	0.278
P-DU9-070	8.0	1,001.00	120.0	-38.2	0.24	0.050
P-DU9-080	8.0	644.00	120.0	-53.8	0.34	0.095
P-DU9-090	8.0	3,092.00	120.0	-4.3	0.03	0.001
P-DU9-100	8.0	1,619.00	120.0	-44.7	0.29	0.067
P-DU9-110	8.0	3,057.00	120.0	-23.0	0.15	0.020
P-DU9-120	8.0	901.00	120.0	39.7	0.25	0.054
P-DU9-130	8.0	879.00	120.0	-138.2	0.88	0.542
P-DU9-140	8.0	430.00	120.0	-261.5	1.67	1.767
P-DU9-150	8.0	4,471.00	120.0	-60.5	0.39	0.117
P-SCAP	36.0	1,752.00	120.0	-10,993.8	3.47	1.181

Active Scenario: Peak Hour Demand, Served by SCAP
FlexTable: Reservoir Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Flow Net (Out) (gpm)	Zone	Hydraulic Grade (ft)
C.O.M. DW SUPPLY FROM NORTH	1,634.0	2,019.9	Desert Wells	1,634.0
SCAP DWPS	1,634.0	15,299.6	Desert Wells	1,634.0
DWGWF - DWPS	1,634.0	(N/A)	Desert Wells	(N/A)

Active Scenario: Peak Hour Demand, Served by SCAP
FlexTable: Junction Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-100EX	1,406.0	Desert Wells	0.0	89	1,612.8
J-110EX	1,440.0	Desert Wells	0.0	76	1,614.6
J-120EX	1,462.0	Desert Wells	0.0	73	1,630.2
J-135EX	1,460.0	Desert Wells	0.0	72	1,626.4
J-150EX	1,472.0	Desert Wells	0.0	65	1,621.7
J-160EX	1,435.0	Desert Wells	0.0	79	1,617.2
J-170EX	1,430.0	Desert Wells	0.0	81	1,616.5
J-180EX	1,410.0	Desert Wells	0.0	89	1,615.1
J-190EX	1,395.0	Desert Wells	0.0	95	1,613.7
J-200EX	1,385.0	Desert Wells	0.0	98	1,612.2
J-220EX	1,480.0	Desert Wells	0.0	63	1,626.1
J-230EX	1,475.0	Desert Wells	0.0	64	1,623.4
J-250EX	1,452.0	Desert Wells	118.5	73	1,621.6
J-260EX	1,453.0	Desert Wells	0.0	73	1,621.6
J-270	1,429.0	Desert Wells	0.0	82	1,619.1
J-280EX	1,460.0	Desert Wells	0.0	69	1,618.6
J-300EX	1,392.0	Desert Wells	161.7	95	1,610.8
J-330EX	1,455.0	Desert Wells	0.0	71	1,620.1
J-340	1,440.0	Desert Wells	0.0	78	1,619.3
J-360EX	1,400.0	Desert Wells	0.0	91	1,611.0
J-550	1,425.0	Desert Wells	0.0	84	1,619.1
J-590EX	1,410.0	Desert Wells	0.0	88	1,613.7
J-920	1,434.0	Desert Wells	0.0	80	1,619.7
J-950	1,414.0	Desert Wells	0.0	86	1,612.9
J-960EX	1,401.0	Desert Wells	0.0	91	1,611.8
J-970EX	1,397.0	Desert Wells	0.0	92	1,610.5
J-1000EX	1,455.0	Desert Wells	0.0	77	1,633.1
J-1010EX	1,485.0	Desert Wells	0.0	64	1,632.1
J-1020EX	1,425.0	Desert Wells	0.0	90	1,633.6
J-1030EX	1,480.0	Desert Wells	0.0	67	1,634.0
J-1040EX	1,433.0	Desert Wells	0.0	79	1,616.4
J-1050EX	1,445.0	Desert Wells	0.0	76	1,620.6
J-1120EX	1,453.0	Desert Wells	0.0	73	1,621.7
J-1130EX	1,445.0	Desert Wells	525.0	76	1,620.1
J-1160EX	1,445.0	Desert Wells	0.0	81	1,633.0
J-1170EX	1,470.0	Desert Wells	0.0	70	1,632.6
J-1180EX	1,440.0	Desert Wells	0.0	84	1,633.3
J-1190EX	1,420.0	Desert Wells	0.0	92	1,633.6
J-1200EX	1,445.0	Desert Wells	0.0	81	1,633.3
J-1210EX	1,455.0	Desert Wells	0.0	77	1,632.5
J-1220EX	1,475.0	Desert Wells	0.0	68	1,631.2
J-1230EX	1,460.0	Desert Wells	0.0	69	1,619.3
J-1235EX	1,440.0	Desert Wells	0.0	78	1,620.2
J-1240EX	1,455.0	Desert Wells	0.0	72	1,620.5

Active Scenario: Peak Hour Demand, Served by SCAP
FlexTable: Junction Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-1290EX	1,480.0	Desert Wells	0.0	66	1,631.5
J-1300EX	1,465.0	Desert Wells	0.0	72	1,632.5
J-1310EX	1,480.0	Desert Wells	0.0	66	1,631.7
J-1330EX	1,465.0	Desert Wells	0.0	72	1,632.5
J-1340EX	1,450.0	Desert Wells	0.0	79	1,633.0
J-1350EX	1,465.0	Desert Wells	0.0	72	1,632.5
J-1360EX	1,445.0	Desert Wells	0.0	81	1,633.0
J-1370EX	1,430.0	Desert Wells	0.0	88	1,633.3
J-1380EX	1,450.0	Desert Wells	0.0	79	1,633.2
J-1390EX	1,430.0	Desert Wells	0.0	88	1,633.3
J-1400EX	1,430.0	Desert Wells	0.0	88	1,633.3
J-1410	1,454.0	Desert Wells	0.0	73	1,622.9
J-1410EX	1,420.0	Desert Wells	0.0	92	1,633.6
J-1420EX	1,460.0	Desert Wells	0.0	70	1,622.6
J-1430EX	1,455.0	Desert Wells	0.0	73	1,623.3
J-1440EX	1,478.0	Desert Wells	0.0	63	1,624.6
J-1680EX	1,400.0	Desert Wells	0.0	91	1,611.5
J-1990EX	1,447.0	Desert Wells	0.0	75	1,620.9
J-2000EX	1,442.0	Desert Wells	0.0	77	1,620.2
J-2120EX	1,453.0	Desert Wells	0.0	73	1,621.0
J-2140EX	1,446.0	Desert Wells	0.0	75	1,620.2
J-2295	1,415.0	Desert Wells	0.0	86	1,612.8
J-2340EX	1,435.0	Desert Wells	525.0	79	1,617.1
J-DU3-4-010	1,405.0	Desert Wells	414.3	89	1,610.9
J-DU3-4-020	1,401.0	Desert Wells	414.3	91	1,610.9
J-DU3-4-030	1,397.0	Desert Wells	388.8	92	1,610.6
J-DU3-4-040	1,403.0	Desert Wells	453.9	90	1,611.0
J-DU3-4-050	1,410.0	Desert Wells	76.8	87	1,610.4
J-DU3-4-060	1,408.0	Desert Wells	176.7	87	1,609.1
J-DU3-4-070	1,404.0	Desert Wells	559.8	88	1,608.3
J-DU3-4-080	1,400.0	Desert Wells	559.8	90	1,608.3
J-DU3-4-090	1,393.0	Desert Wells	227.1	94	1,609.2
J-DU3-4-100	1,391.0	Desert Wells	558.3	95	1,610.4
J-DU3-4-110	1,393.0	Desert Wells	423.3	94	1,609.1
J-DU3-4-120	1,393.0	Desert Wells	468.3	94	1,609.1
J-DU3-4-130	1,399.0	Desert Wells	523.5	91	1,609.1
J-DU3-4-140	1,404.0	Desert Wells	279.6	89	1,609.1
J-DU3-4-150	1,407.0	Desert Wells	211.8	87	1,609.0
J-DU3-4-160	1,407.0	Desert Wells	270.0	88	1,609.3
J-DU3-4-170	1,412.0	Desert Wells	270.0	86	1,609.8
J-DU3-4-180	1,414.0	Desert Wells	22.2	85	1,610.7
J-DU3-4-190	1,417.0	Desert Wells	98.7	84	1,611.5
J-DU3-4-200	1,412.5	Desert Wells	414.3	86	1,611.4
J-DU3S-010	1,412.0	Desert Wells	30.6	87	1,612.2

Active Scenario: Peak Hour Demand, Served by SCAP
FlexTable: Junction Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-DU3S-020	1,407.0	Desert Wells	33.0	88	1,611.5
J-DU3S-030	1,401.0	Desert Wells	45.0	91	1,611.1
J-DU3S-040	1,399.0	Desert Wells	33.0	92	1,611.0
J-DU3S-050	1,404.0	Desert Wells	36.3	90	1,611.0
J-DU3S-060	1,410.0	Desert Wells	35.4	87	1,611.3
J-DU3S-070	1,417.0	Desert Wells	21.0	84	1,611.8
J-DU3S-080	1,396.0	Desert Wells	161.7	93	1,610.8
J-DU5E-010	1,435.0	Desert Wells	525.0	78	1,616.3
J-DU5E-020	1,440.0	Desert Wells	525.0	76	1,616.5
J-DU6-010	1,459.0	Desert Wells	0.0	70	1,621.3
J-DU6-020	1,453.0	Desert Wells	2,196.2	73	1,620.8
J-DU6-030	1,450.0	Desert Wells	240.9	74	1,620.2
J-DU6-040	1,440.0	Desert Wells	482.1	78	1,620.0
J-DU6-050	1,448.0	Desert Wells	723.0	75	1,620.4
J-DU6-060	1,458.0	Desert Wells	500.4	71	1,622.3
J-DU6-070	1,452.0	Desert Wells	240.9	73	1,621.6
J-DU6-080	1,446.0	Desert Wells	240.9	75	1,620.4
J-DU6-090	1,435.0	Desert Wells	240.9	80	1,620.0
J-DU7-010	1,415.0	Desert Wells	19.5	86	1,612.6
J-DU7-020	1,425.0	Desert Wells	682.8	81	1,611.4
J-DU7-030	1,416.0	Desert Wells	0.0	85	1,611.5
J-DU7-040	1,409.0	Desert Wells	76.8	88	1,611.6
J-DU7-050	1,416.0	Desert Wells	157.5	85	1,612.9
J-DU7-060	1,423.0	Desert Wells	33.3	83	1,614.4
J-DU7-070	1,430.0	Desert Wells	0.0	81	1,616.1
J-DU7-080	1,434.0	Desert Wells	105.0	79	1,617.6
J-DU7-090	1,437.0	Desert Wells	0.0	79	1,620.1
J-DU7-100	1,435.0	Desert Wells	86.7	79	1,618.3
J-DU7-110	1,435.0	Desert Wells	86.4	78	1,615.6
J-DU7-120	1,420.0	Desert Wells	0.0	84	1,613.4
J-DU7-130	1,420.0	Desert Wells	7.8	84	1,613.4
J-DU7-140	1,425.0	Desert Wells	149.7	81	1,613.3
J-DU7-150	1,419.0	Desert Wells	48.9	84	1,613.0
J-DU7-160	1,435.0	Desert Wells	72.0	78	1,615.9
J-DU7-170	1,432.0	Desert Wells	32.1	80	1,615.8
J-DU7-180	1,433.0	Desert Wells	56.1	79	1,616.1
J-DU7-190	1,437.0	Desert Wells	90.3	78	1,617.9
J-DU7-200	1,432.0	Desert Wells	152.1	79	1,613.9
J-DU8-010	1,420.0	Desert Wells	0.0	84	1,613.5
J-DU8-020	1,419.5	Desert Wells	0.0	84	1,614.1
J-DU8-030	1,421.0	Desert Wells	0.0	84	1,615.1
J-DU8-040	1,418.0	Desert Wells	20.1	86	1,616.3
J-DU8-050	1,422.0	Desert Wells	0.0	84	1,617.0
J-DU8-060	1,420.0	Desert Wells	27.3	84	1,614.7

Active Scenario: Peak Hour Demand, Served by SCAP
FlexTable: Junction Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Elevation (ft)	Zone	Demand (gpm)	Pressure (psi)	Hydraulic Grade (ft)
J-DU8-070	1,420.0	Desert Wells	46.2	84	1,614.7
J-DU8-080	1,422.0	Desert Wells	13.2	84	1,615.1
J-DU8-090	1,424.0	Desert Wells	33.0	83	1,615.1
J-DU8-100	1,425.0	Desert Wells	27.3	82	1,615.2
J-DU8-110	1,430.0	Desert Wells	130.8	80	1,615.0
J-DU8-120	1,431.0	Desert Wells	51.6	80	1,615.0
J-DU8-130	1,427.0	Desert Wells	63.0	81	1,615.3
J-DU9-010	1,419.0	Desert Wells	59.1	84	1,613.4
J-DU9-020	1,415.0	Desert Wells	109.5	86	1,613.9
J-DU9-030	1,416.0	Desert Wells	99.9	86	1,614.2
J-DU9-040	1,416.0	Desert Wells	23.4	86	1,614.3
J-DU9-050	1,419.0	Desert Wells	0.0	85	1,614.4
J-DU9-060	1,422.0	Desert Wells	94.2	84	1,615.4
J-DU9-070	1,414.0	Desert Wells	95.1	87	1,614.2
J-DU9-080	1,419.0	Desert Wells	115.8	84	1,614.3

Active Scenario: Peak Hour Demand, Served by SCAP
FlexTable: Pipe Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-160EX	16.0	2,722.00	120.0	572.3	0.91	0.258
P-170EX	16.0	5,366.00	120.0	572.3	0.91	0.258
P-180EX	16.0	5,396.00	120.0	572.3	0.91	0.258
P-190EX	16.0	5,728.00	120.0	572.3	0.91	0.258
P-200EX	16.0	231.00	120.0	-842.7	1.34	0.527
P-210EX	16.0	1,388.00	120.0	-875.3	1.40	0.566
P-220EX	16.0	2,909.00	120.0	1,422.6	2.27	1.391
P-240EX	16.0	1,387.00	120.0	-3,306.7	5.28	6.632
P-250EX	16.0	2,611.00	120.0	939.6	1.50	0.645
P-310	30.0	4,937.00	120.0	3,248.1	1.47	0.300
P-340EX	16.0	5,775.00	120.0	572.3	0.91	0.258
P-410EX	16.0	5,368.00	120.0	572.3	0.91	0.258
P-970	24.0	1,001.00	120.0	1,743.7	1.24	0.281
P-980	24.0	1,935.00	120.0	0.0	0.00	0.000
P-1060EX	16.0	1,328.00	120.0	-971.4	1.55	0.686
P-1070EX	16.0	1,243.00	120.0	-971.4	1.55	0.686
P-1630EX	16.0	1,793.00	120.0	524.1	0.84	0.219
P-1640EX	16.0	1,335.00	120.0	1,144.1	1.83	0.929
P-1780	24.0	1,528.00	120.0	1,743.7	1.24	0.281
P-1790	24.0	1,115.00	120.0	1,743.7	1.24	0.281
P-1940EX	16.0	1,976.00	120.0	-971.4	1.55	0.686
P-1950EX	16.0	680.00	120.0	-971.4	1.55	0.686
P-1970EX	16.0	927.00	120.0	299.8	0.48	0.078
P-1980EX	16.0	1,106.00	120.0	-123.5	0.20	0.015
P-2000EX	16.0	2,710.00	120.0	-971.4	1.55	0.686
P-2040EX	16.0	10,635.00	120.0	-470.6	0.75	0.179
P-2055EX	16.0	10,453.00	120.0	212.0	0.34	0.041
P-2070EX	24.0	5,329.00	120.0	-1,337.4	0.95	0.172
P-2500EX	24.0	2,750.00	120.0	1,401.6	0.99	0.188
P-2510EX	24.0	2,726.00	120.0	1,342.8	0.95	0.173
P-2540EX	12.0	2,624.00	120.0	-165.4	0.47	0.105
P-2570EX	16.0	2,640.00	120.0	0.0	0.00	0.000
P-2655EX	16.0	2,870.00	120.0	572.3	0.91	0.258
P-2660EX	24.0	2,797.00	120.0	2,019.9	1.43	0.369
P-2665EX	16.0	2,716.00	120.0	572.3	0.91	0.258
P-2690EX	16.0	2,914.00	120.0	-228.2	0.36	0.047
P-2700EX	16.0	3,115.00	120.0	711.4	1.14	0.385
P-2710EX	16.0	1,823.00	120.0	540.4	0.86	0.232
P-2720EX	12.0	3,042.00	120.0	-171.0	0.49	0.112
P-2830	16.0	2,890.00	120.0	-31.9	0.05	0.001
P-2860EX	24.0	761.00	120.0	2,019.9	1.43	0.369
P-2880EX	12.0	383.00	120.0	0.0	0.00	0.000
P-2890EX	8.0	3,148.00	120.0	-103.9	0.66	0.320
P-2900	24.0	1,423.00	120.0	1,813.4	1.29	0.302

Active Scenario: Peak Hour Demand, Served by SCAP

FlexTable: Pipe Table

(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-2910EX	24.0	497.00	120.0	1,916.0	1.36	0.335
P-2950	12.0	1,089.00	120.0	58.8	0.17	0.015
P-2970EX	12.0	1,119.00	120.0	97.4	0.28	0.039
P-2990EX	8.0	2,811.00	120.0	-74.8	0.48	0.174
P-3010EX	12.0	471.00	120.0	103.9	0.29	0.044
P-3020EX	12.0	1,167.00	120.0	22.6	0.06	0.003
P-3030EX	12.0	378.00	120.0	0.0	0.00	0.000
P-3040EX	8.0	3,081.00	120.0	-72.9	0.47	0.166
P-3060	12.0	595.00	120.0	0.0	0.00	0.000
P-3070EX	8.0	2,922.00	120.0	-50.3	0.32	0.083
P-3080EX	12.0	1,397.00	120.0	-161.7	0.46	0.101
P-3090EX	12.0	1,109.00	120.0	-129.1	0.37	0.066
P-3100EX	12.0	695.00	120.0	36.3	0.10	0.006
P-3110EX	12.0	664.00	120.0	3.7	0.01	0.000
P-3120EX	8.0	1,851.00	120.0	-32.6	0.21	0.037
P-3130	12.0	1,155.00	120.0	50.3	0.14	0.012
P-3140EX	16.0	1,783.00	120.0	46.6	0.07	0.002
P-3150EX	16.0	958.00	120.0	0.0	0.00	0.000
P-3160EX	8.0	3,801.00	120.0	-46.6	0.30	0.072
P-3170EX	8.0	2,838.00	120.0	-102.6	0.65	0.312
P-3180EX	8.0	736.00	120.0	31.0	0.20	0.034
P-3190EX	30.0	4,441.00	120.0	8,121.4	3.69	1.639
P-3200	30.0	814.00	120.0	8,121.4	3.69	1.639
P-3240EX	16.0	1,954.00	120.0	808.6	1.29	0.488
P-3250EX	12.0	844.00	120.0	-483.0	1.37	0.764
P-3260EX	16.0	1,108.00	120.0	1,422.6	2.27	1.391
P-3270EX	16.0	1,509.00	120.0	1,054.5	1.68	0.799
P-3280EX	12.0	2,890.00	120.0	-368.2	1.04	0.462
P-3290EX	12.0	2,432.00	120.0	114.9	0.33	0.053
P-3930EX	16.0	751.00	120.0	-971.4	1.55	0.686
P-3940EX	16.0	509.00	120.0	-971.4	1.55	0.686
P-3970EX	16.0	1,445.00	120.0	971.4	1.55	0.686
P-4720EX	16.0	1,216.00	120.0	892.9	1.42	0.587
P-4730EX	16.0	456.00	120.0	892.9	1.42	0.587
P-4750EX	16.0	715.00	120.0	892.9	1.42	0.587
P-4760EX	16.0	774.00	120.0	48.2	0.08	0.003
P-4790EX	16.0	1,816.00	120.0	219.2	0.35	0.044
P-5700EX	16.0	1,176.00	120.0	2,240.0	3.57	3.224
P-5710EX	16.0	1,171.00	120.0	2,240.0	3.57	3.224
P-5770	16.0	353.00	120.0	321.8	0.51	0.089
P-5780	16.0	684.00	120.0	321.8	0.51	0.089
P-6030	12.0	162.00	120.0	-32.6	0.09	0.005
P-6070	16.0	247.00	120.0	-822.0	1.31	0.504
P-6166	16.0	900.00	120.0	-971.4	1.55	0.686

Active Scenario: Peak Hour Demand, Served by SCAP
FlexTable: Pipe Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-6167EX	16.0	1,381.00	120.0	-1,816.1	2.90	2.186
P-6171	16.0	3,164.00	120.0	2,228.8	3.56	3.194
P-7000	16.0	742.00	120.0	-519.5	0.83	0.215
P-COMWTREX	36.0	10.00	120.0	2,019.9	0.64	0.049
P-DU-3-4-070	12.0	734.00	120.0	-767.4	2.18	1.800
P-DU-3-4-080	12.0	913.00	120.0	-502.4	1.43	0.821
P-DU-3-4-090	12.0	1,401.00	120.0	57.4	0.16	0.015
P-DU-3-4-100	12.0	717.00	120.0	-617.2	1.75	1.203
P-DU-3-4-110	16.0	597.00	120.0	379.7	0.61	0.120
P-DU-3-4-120	16.0	1,375.00	120.0	-143.8	0.23	0.020
P-DU-3-4-130	12.0	1,165.00	120.0	123.5	0.35	0.061
P-DU-3S-130	16.0	1,385.00	120.0	-1,096.9	1.75	0.859
P-DU3-4-010	12.0	1,834.00	120.0	-61.3	0.17	0.017
P-DU3-4-020	24.0	1,370.00	120.0	-1,178.4	0.84	0.136
P-DU3-4-030	24.0	1,035.00	120.0	-1,567.2	1.11	0.231
P-DU3-4-040	24.0	496.00	120.0	-1,920.1	1.36	0.336
P-DU3-4-050	24.0	1,092.00	120.0	-2,374.0	1.68	0.498
P-DU3-4-060	12.0	553.00	120.0	-844.2	2.39	2.148
P-DU3-4-160	12.0	1,157.00	120.0	-88.3	0.25	0.033
P-DU3-4-170	16.0	937.00	120.0	-546.9	0.87	0.237
P-DU3-4-180	16.0	1,045.00	120.0	-816.9	1.30	0.498
P-DU3-4-190	16.0	1,019.00	120.0	-1,086.9	1.73	0.845
P-DU3-4-200	16.0	958.00	120.0	-1,109.1	1.77	0.877
P-DU3-4-210	16.0	1,373.00	120.0	-1,207.8	1.93	1.027
P-DU3S-010	8.0	261.00	120.0	302.5	1.93	2.313
P-DU3S-020	8.0	1,374.00	120.0	131.2	0.84	0.493
P-DU3S-030	8.0	1,542.00	120.0	98.2	0.63	0.288
P-DU3S-040	8.0	1,242.00	120.0	53.2	0.34	0.093
P-DU3S-050	8.0	801.00	120.0	-68.2	0.44	0.146
P-DU3S-060	8.0	974.00	120.0	-47.9	0.31	0.076
P-DU3S-070	8.0	1,384.00	120.0	-84.2	0.54	0.217
P-DU3S-080	8.0	1,241.00	120.0	-119.6	0.76	0.415
P-DU3S-090	8.0	621.00	120.0	-140.6	0.90	0.560
P-DU3S-100	16.0	1,114.00	130.0	113.4	0.18	0.011
P-DU3S-110	16.0	1,525.00	130.0	-207.0	0.33	0.034
P-DU3S-120	16.0	1,560.00	120.0	-682.6	1.09	0.357
P-DU5E-010	12.0	2,201.00	120.0	-319.6	0.91	0.356
P-DU5E-020	12.0	1,392.00	120.0	205.4	0.58	0.157
P-DU5E-030	12.0	2,181.00	120.0	730.4	2.07	1.643
P-DU6-010	12.0	1,163.00	120.0	354.8	1.01	0.431
P-DU6-020	16.0	124.00	120.0	1,389.0	2.22	1.330
P-DU6-030	12.0	1,388.00	120.0	361.9	1.03	0.448
P-DU6-040	12.0	2,188.00	120.0	-153.6	0.44	0.092
P-DU6-050	12.0	2,203.00	120.0	228.2	0.65	0.190

Active Scenario: Peak Hour Demand, Served by SCAP

FlexTable: Pipe Table

(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-DU6-060	12.0	2,209.00	120.0	354.8	1.01	0.432
P-DU6-070	16.0	142.00	120.0	1,914.4	3.05	2.410
P-DU6-080	12.0	1,130.00	120.0	734.2	2.08	1.659
P-DU6-090	12.0	1,397.00	120.0	285.1	0.81	0.288
P-DU6-100	12.0	1,966.00	120.0	43.3	0.12	0.009
P-DU6-110	12.0	1,963.00	120.0	-45.7	0.13	0.010
P-DU6-120	12.0	1,955.00	120.0	-325.0	0.92	0.367
P-DU6-130	12.0	135.00	120.0	486.8	1.38	0.775
P-DU6-140	12.0	1,094.00	120.0	570.9	1.62	1.041
P-DU6-150	12.0	1,411.00	120.0	284.2	0.81	0.286
P-DU6-160	16.0	211.00	120.0	1,042.4	1.66	0.782
P-DU7-010	12.0	1,169.00	120.0	563.7	1.60	1.017
P-DU7-020	12.0	1,092.00	120.0	119.1	0.34	0.057
P-DU7-030	12.0	1,044.00	120.0	119.1	0.34	0.057
P-DU7-040	24.0	1,410.00	120.0	-3,414.2	2.42	0.976
P-DU7-050	24.0	1,075.00	120.0	-4,037.2	2.86	1.332
P-DU7-060	24.0	1,254.00	120.0	-4,070.5	2.89	1.352
P-DU7-070	24.0	992.00	120.0	-4,306.9	3.05	1.501
P-DU7-080	24.0	2,552.00	120.0	-4,411.9	3.13	1.570
P-DU7-090	16.0	941.00	120.0	-1,691.7	2.70	1.917
P-DU7-100	16.0	1,562.00	120.0	-1,605.0	2.56	1.739
P-DU7-110	16.0	1,742.00	120.0	-1,346.6	2.15	1.256
P-DU7-120	16.0	778.00	120.0	1,160.6	1.85	0.954
P-DU7-130	20.0	317.00	120.0	-512.6	0.52	0.070
P-DU7-140	20.0	1,207.00	120.0	-504.8	0.52	0.069
P-DU7-150	20.0	1,514.00	120.0	-791.2	0.81	0.158
P-DU7-160	20.0	619.00	120.0	-742.3	0.76	0.141
P-DU7-170	12.0	1,073.00	130.0	-236.4	0.67	0.175
P-DU7-180	12.0	828.00	120.0	164.4	0.47	0.104
P-DU7-190	12.0	399.00	120.0	-455.9	1.29	0.686
P-DU7-200	12.0	2,378.00	120.0	242.4	0.69	0.213
P-DU7-210	12.0	1,049.00	120.0	-844.7	2.40	2.150
P-DU7-220	12.0	1,054.00	120.0	-754.4	2.14	1.744
P-DU7-230	12.0	1,714.00	120.0	-588.2	1.67	1.100
P-DU7-240	12.0	1,014.00	120.0	-436.1	1.24	0.632
P-DU8-010	16.0	1,107.00	120.0	-326.6	0.52	0.091
P-DU8-020	16.0	714.00	120.0	-1,106.7	1.77	0.873
P-DU8-030	16.0	1,312.00	120.0	-1,010.1	1.61	0.737
P-DU8-040	16.0	1,371.00	120.0	-1,138.6	1.82	0.921
P-DU8-050	16.0	520.00	120.0	-1,352.7	2.16	1.267
P-DU8-060	16.0	1,021.00	120.0	-1,743.6	2.78	2.027
P-DU8-070	8.0	542.00	120.0	-200.2	1.28	1.077
P-DU8-080	8.0	253.00	120.0	-75.9	0.48	0.179
P-DU8-090	8.0	1,138.00	120.0	-122.1	0.78	0.431

Active Scenario: Peak Hour Demand, Served by SCAP
FlexTable: Pipe Table
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Diameter (in)	Length (ft)	Hazen-Williams C	Flow (gpm)	Velocity (ft/s)	Headloss Gradient (ft/1000ft)
P-DU8-100	12.0	599.00	120.0	414.4	1.18	0.575
P-DU8-110	12.0	709.00	120.0	192.9	0.55	0.139
P-DU8-120	8.0	678.00	120.0	-151.6	0.97	0.644
P-DU8-130	8.0	1,315.00	120.0	72.2	0.46	0.163
P-DU8-140	8.0	966.00	120.0	28.0	0.18	0.028
P-DU8-150	6.0	737.00	130.0	-15.9	0.18	0.034
P-DU8-160	8.0	1,265.00	120.0	45.6	0.29	0.070
P-DU8-170	8.0	2,613.00	120.0	-13.0	0.08	0.007
P-DU8-180	8.0	1,778.00	120.0	-64.6	0.41	0.133
P-DU8-190	8.0	1,185.00	120.0	66.4	0.42	0.140
P-DU8-200	8.0	1,054.00	120.0	194.0	1.24	1.017
P-DU9-010	16.0	904.00	120.0	-822.0	1.31	0.504
P-DU9-020	16.0	227.00	120.0	-780.1	1.24	0.457
P-DU9-030	8.0	1,616.00	120.0	-101.0	0.64	0.303
P-DU9-040	8.0	746.00	120.0	-103.6	0.66	0.318
P-DU9-050	8.0	869.00	120.0	-106.9	0.68	0.337
P-DU9-060	8.0	1,550.00	120.0	-144.4	0.92	0.588
P-DU9-070	8.0	1,001.00	120.0	-56.8	0.36	0.104
P-DU9-080	8.0	644.00	120.0	-80.2	0.51	0.198
P-DU9-090	8.0	3,092.00	120.0	-5.7	0.04	0.001
P-DU9-100	8.0	1,619.00	120.0	-66.6	0.43	0.140
P-DU9-110	8.0	3,057.00	120.0	-34.1	0.22	0.041
P-DU9-120	8.0	901.00	120.0	59.6	0.38	0.114
P-DU9-130	8.0	879.00	120.0	-206.3	1.32	1.139
P-DU9-140	8.0	430.00	120.0	-390.9	2.50	3.720
P-DU9-150	8.0	4,471.00	120.0	-90.4	0.58	0.247
P-SCAP	36.0	1,752.00	120.0	-15,299.6	4.82	2.179

Active Scenario: Max Day + Fire Flow - Served by SCAP
Fire Flow Node FlexTable: Fire Flow Report
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Zone	Elevation (ft)	Satisfies FF?	Flow (Total Needed) (gpm)	Fire Flow (Avalb.) (gpm)	Press. (Calc. Rsdl) (psi)	Pres. (Calc Zn Lwr Lmt) (psi)	Junction w/ Minimum Pressure (Zone)
J-100EX	Desert Wells	1,406.0	True	3,000.0	5,000.0	77	63	J-220EX
J-110EX	Desert Wells	1,440.0	True	3,000.0	5,000.0	64	63	J-220EX
J-120EX	Desert Wells	1,462.0	True	3,000.0	5,000.0	73	64	J-1010EX
J-135EX	Desert Wells	1,460.0	True	3,000.0	5,000.0	69	63	J-220EX
J-150EX	Desert Wells	1,472.0	True	3,000.0	5,000.0	61	63	J-1440EX
J-160EX	Desert Wells	1,435.0	True	3,000.0	5,000.0	49	53	J-280EX
J-170EX	Desert Wells	1,430.0	True	3,000.0	5,000.0	49	53	J-160EX
J-180EX	Desert Wells	1,410.0	True	3,000.0	5,000.0	56	57	J-170EX
J-190EX	Desert Wells	1,395.0	True	3,000.0	5,000.0	65	61	J-280EX
J-200EX	Desert Wells	1,385.0	True	3,000.0	5,000.0	78	63	J-220EX
J-220EX	Desert Wells	1,480.0	True	3,000.0	5,000.0	58	60	J-1440EX
J-230EX	Desert Wells	1,475.0	True	3,000.0	5,000.0	60	61	J-1440EX
J-250EX	Desert Wells	1,452.0	True	4,079.0	5,000.0	73	63	J-220EX
J-260EX	Desert Wells	1,453.0	True	3,000.0	5,000.0	71	63	J-220EX
J-270	Desert Wells	1,429.0	True	3,000.0	5,000.0	77	63	J-220EX
J-280EX	Desert Wells	1,460.0	True	3,000.0	5,000.0	47	56	J-1230EX
J-300EX	Desert Wells	1,392.0	True	4,107.8	5,000.0	89	63	J-220EX
J-330EX	Desert Wells	1,455.0	True	3,000.0	5,000.0	66	63	J-220EX
J-340	Desert Wells	1,440.0	True	3,000.0	5,000.0	75	63	J-220EX
J-360EX	Desert Wells	1,400.0	True	3,000.0	5,000.0	80	63	J-220EX
J-550	Desert Wells	1,425.0	True	3,000.0	5,000.0	81	63	J-220EX
J-590EX	Desert Wells	1,410.0	True	3,000.0	5,000.0	76	63	J-220EX
J-920	Desert Wells	1,434.0	True	3,000.0	5,000.0	78	63	J-220EX
J-950	Desert Wells	1,414.0	True	3,000.0	5,000.0	82	63	J-220EX
J-960EX	Desert Wells	1,401.0	True	3,000.0	5,000.0	79	63	J-220EX
J-970EX	Desert Wells	1,397.0	True	3,000.0	5,000.0	82	63	J-220EX
J-1000EX	Desert Wells	1,455.0	True	3,000.0	5,000.0	76	63	J-1010EX
J-1010EX	Desert Wells	1,485.0	True	3,000.0	5,000.0	62	64	J-220EX
J-1020EX	Desert Wells	1,425.0	True	3,000.0	5,000.0	71	63	J-1010EX
J-1030EX	Desert Wells	1,480.0	True	3,000.0	5,000.0	67	64	J-1010EX
J-1040EX	Desert Wells	1,433.0	True	3,000.0	5,000.0	71	63	J-220EX
J-1050EX	Desert Wells	1,445.0	True	3,000.0	5,000.0	72	63	J-220EX
J-1120EX	Desert Wells	1,453.0	True	3,000.0	5,000.0	71	63	J-220EX
J-1130EX	Desert Wells	1,445.0	True	4,350.0	6,000.0	71	63	J-220EX
J-1160EX	Desert Wells	1,445.0	True	3,000.0	5,000.0	48	57	J-1360EX
J-1170EX	Desert Wells	1,470.0	True	3,000.0	5,000.0	69	63	J-1010EX
J-1180EX	Desert Wells	1,440.0	True	3,000.0	5,000.0	67	63	J-1010EX
J-1190EX	Desert Wells	1,420.0	True	3,000.0	5,000.0	59	63	J-1010EX
J-1200EX	Desert Wells	1,445.0	True	3,000.0	5,000.0	26	47	J-1370EX
J-1210EX	Desert Wells	1,455.0	True	3,000.0	4,922.5	20	25	J-1300EX
J-1220EX	Desert Wells	1,475.0	True	3,000.0	5,000.0	67	63	J-1010EX
J-1230EX	Desert Wells	1,460.0	True	3,000.0	5,000.0	54	55	J-280EX
J-1235EX	Desert Wells	1,440.0	True	3,000.0	5,000.0	75	63	J-220EX

Active Scenario: Max Day + Fire Flow - Served by SCAP
Fire Flow Node FlexTable: Fire Flow Report
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Zone	Elevation (ft)	Satisfies FF?	Flow (Total Needed) (gpm)	Fire Flow (Avalb.) (gpm)	Press. (Calc. Rsdl) (psi)	Pres. (Calc Zn Lwr Lmt) (psi)	Junction w/ Minimum Pressure (Zone)
J-1240EX	Desert Wells	1,455.0	True	3,000.0	5,000.0	67	63	J-220EX
J-1290EX	Desert Wells	1,480.0	True	3,000.0	5,000.0	65	63	J-1010EX
J-1300EX	Desert Wells	1,465.0	True	3,000.0	5,000.0	24	28	J-1210EX
J-1310EX	Desert Wells	1,480.0	True	3,000.0	5,000.0	65	63	J-1010EX
J-1330EX	Desert Wells	1,465.0	True	3,000.0	5,000.0	61	63	J-1010EX
J-1340EX	Desert Wells	1,450.0	True	3,000.0	5,000.0	65	63	J-1010EX
J-1350EX	Desert Wells	1,465.0	True	3,000.0	5,000.0	28	29	J-1300EX
J-1360EX	Desert Wells	1,445.0	True	3,000.0	5,000.0	57	57	J-1160EX
J-1370EX	Desert Wells	1,430.0	True	3,000.0	5,000.0	47	41	J-1200EX
J-1380EX	Desert Wells	1,450.0	True	3,000.0	5,000.0	65	63	J-1010EX
J-1390EX	Desert Wells	1,430.0	True	3,000.0	5,000.0	67	63	J-1200EX
J-1400EX	Desert Wells	1,430.0	True	3,000.0	5,000.0	61	56	J-1200EX
J-1410	Desert Wells	1,454.0	True	3,000.0	5,000.0	72	63	J-220EX
J-1410EX	Desert Wells	1,420.0	True	3,000.0	5,000.0	65	63	J-1010EX
J-1420EX	Desert Wells	1,460.0	True	3,000.0	5,000.0	69	63	J-220EX
J-1430EX	Desert Wells	1,455.0	True	3,000.0	5,000.0	66	62	J-1440EX
J-1440EX	Desert Wells	1,478.0	True	3,000.0	5,000.0	59	60	J-220EX
J-1680EX	Desert Wells	1,400.0	True	3,000.0	5,000.0	80	63	J-220EX
J-1990EX	Desert Wells	1,447.0	True	3,000.0	5,000.0	72	63	J-220EX
J-2000EX	Desert Wells	1,442.0	True	3,000.0	5,000.0	74	63	J-220EX
J-2120EX	Desert Wells	1,453.0	True	3,000.0	5,000.0	70	63	J-220EX
J-2140EX	Desert Wells	1,446.0	True	3,000.0	5,000.0	73	63	J-220EX
J-2295	Desert Wells	1,415.0	True	3,000.0	5,000.0	82	63	J-220EX
J-2340EX	Desert Wells	1,435.0	True	4,350.0	6,000.0	70	63	J-220EX
J-DU3-4-010	Desert Wells	1,405.0	True	3,276.2	5,000.0	84	63	J-220EX
J-DU3-4-020	Desert Wells	1,401.0	True	3,276.2	5,000.0	88	63	J-220EX
J-DU3-4-030	Desert Wells	1,397.0	True	4,259.2	5,000.0	89	63	J-220EX
J-DU3-4-040	Desert Wells	1,403.0	True	4,302.6	5,000.0	87	63	J-220EX
J-DU3-4-050	Desert Wells	1,410.0	True	3,051.2	5,000.0	78	63	J-220EX
J-DU3-4-060	Desert Wells	1,408.0	True	4,117.8	5,000.0	77	63	J-220EX
J-DU3-4-070	Desert Wells	1,404.0	True	4,373.2	5,000.0	72	63	J-220EX
J-DU3-4-080	Desert Wells	1,400.0	True	4,373.2	5,000.0	76	63	J-220EX
J-DU3-4-090	Desert Wells	1,393.0	True	4,151.4	5,000.0	88	63	J-220EX
J-DU3-4-100	Desert Wells	1,391.0	True	4,372.2	5,000.0	91	63	J-220EX
J-DU3-4-110	Desert Wells	1,393.0	True	4,282.2	5,000.0	87	63	J-220EX
J-DU3-4-120	Desert Wells	1,393.0	True	4,312.2	5,000.0	87	63	J-220EX
J-DU3-4-130	Desert Wells	1,399.0	True	4,349.0	5,000.0	84	63	J-220EX
J-DU3-4-140	Desert Wells	1,404.0	True	4,186.4	5,000.0	81	63	J-220EX
J-DU3-4-150	Desert Wells	1,407.0	True	4,141.2	5,000.0	73	63	J-220EX
J-DU3-4-160	Desert Wells	1,407.0	True	3,180.0	5,000.0	79	63	J-220EX
J-DU3-4-170	Desert Wells	1,412.0	True	4,180.0	5,000.0	77	63	J-220EX
J-DU3-4-180	Desert Wells	1,414.0	True	4,014.8	5,000.0	77	63	J-220EX
J-DU3-4-190	Desert Wells	1,417.0	True	4,065.8	5,000.0	78	63	J-220EX

Active Scenario: Max Day + Fire Flow - Served by SCAP
Fire Flow Node FlexTable: Fire Flow Report
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Zone	Elevation (ft)	Satisfies FF?	Flow (Total Needed) (gpm)	Fire Flow (Avalb.) (gpm)	Press. (Calc. Rsdl) (psi)	Pres. (Calc Zn Lwr Lmt) (psi)	Junction w/ Minimum Pressure (Zone)
J-DU3-4-200	Desert Wells	1,412.5	True	3,276.2	5,000.0	80	63	J-220EX
J-DU3S-010	Desert Wells	1,412.0	True	3,020.4	5,000.0	55	55	J-DU3S-070
J-DU3S-020	Desert Wells	1,407.0	True	3,022.0	3,700.4	20	52	J-DU3S-030
J-DU3S-030	Desert Wells	1,401.0	True	3,030.0	3,738.5	20	49	J-DU3S-020
J-DU3S-040	Desert Wells	1,399.0	True	3,022.0	5,000.0	35	42	J-DU3S-050
J-DU3S-050	Desert Wells	1,404.0	True	3,024.2	3,828.8	20	42	J-DU3S-060
J-DU3S-060	Desert Wells	1,410.0	True	3,023.6	3,499.7	20	53	J-DU3S-050
J-DU3S-070	Desert Wells	1,417.0	True	3,014.0	4,255.1	20	39	J-DU3S-060
J-DU3S-080	Desert Wells	1,396.0	True	4,107.8	5,000.0	87	63	J-220EX
J-DU5E-010	Desert Wells	1,435.0	True	4,350.0	6,000.0	42	52	J-DU5E-020
J-DU5E-020	Desert Wells	1,440.0	True	4,350.0	6,000.0	41	53	J-DU5E-010
J-DU6-010	Desert Wells	1,459.0	True	3,000.0	5,000.0	58	63	J-220EX
J-DU6-020	Desert Wells	1,453.0	True	6,196.2	7,000.0	67	63	J-220EX
J-DU6-030	Desert Wells	1,450.0	True	4,160.6	5,000.0	70	63	J-220EX
J-DU6-040	Desert Wells	1,440.0	True	4,321.4	5,000.0	67	63	J-220EX
J-DU6-050	Desert Wells	1,448.0	True	4,482.0	5,000.0	69	63	J-220EX
J-DU6-060	Desert Wells	1,458.0	True	4,500.4	5,000.0	69	63	J-220EX
J-DU6-070	Desert Wells	1,452.0	True	4,160.6	5,000.0	70	63	J-220EX
J-DU6-080	Desert Wells	1,446.0	True	4,160.6	5,000.0	67	63	J-220EX
J-DU6-090	Desert Wells	1,435.0	True	4,160.6	5,000.0	62	63	J-220EX
J-DU7-010	Desert Wells	1,415.0	True	4,013.0	5,000.0	82	63	J-220EX
J-DU7-020	Desert Wells	1,425.0	True	3,455.2	5,000.0	66	63	J-220EX
J-DU7-030	Desert Wells	1,416.0	True	3,000.0	5,000.0	71	63	J-220EX
J-DU7-040	Desert Wells	1,409.0	True	3,051.2	5,000.0	85	63	J-220EX
J-DU7-050	Desert Wells	1,416.0	True	4,105.0	5,000.0	83	63	J-220EX
J-DU7-060	Desert Wells	1,423.0	True	3,022.2	5,000.0	81	63	J-220EX
J-DU7-070	Desert Wells	1,430.0	True	3,000.0	5,000.0	78	63	J-220EX
J-DU7-080	Desert Wells	1,434.0	True	3,070.0	5,000.0	77	63	J-220EX
J-DU7-090	Desert Wells	1,437.0	True	3,000.0	5,000.0	78	63	J-220EX
J-DU7-100	Desert Wells	1,435.0	True	3,057.8	5,000.0	76	63	J-220EX
J-DU7-110	Desert Wells	1,435.0	True	3,057.6	5,000.0	75	63	J-220EX
J-DU7-120	Desert Wells	1,420.0	True	3,000.0	5,000.0	81	63	J-220EX
J-DU7-130	Desert Wells	1,420.0	True	4,005.2	5,000.0	81	63	J-220EX
J-DU7-140	Desert Wells	1,425.0	True	4,099.8	5,000.0	79	63	J-220EX
J-DU7-150	Desert Wells	1,419.0	True	4,032.6	5,000.0	81	63	J-220EX
J-DU7-160	Desert Wells	1,435.0	True	3,048.0	5,000.0	69	63	J-220EX
J-DU7-170	Desert Wells	1,432.0	True	3,021.4	5,000.0	73	63	J-220EX
J-DU7-180	Desert Wells	1,433.0	True	3,037.4	5,000.0	73	63	J-220EX
J-DU7-190	Desert Wells	1,437.0	True	3,060.2	5,000.0	68	63	J-220EX
J-DU7-200	Desert Wells	1,432.0	True	3,101.4	5,000.0	67	63	J-220EX
J-DU8-010	Desert Wells	1,420.0	True	3,000.0	5,000.0	81	63	J-220EX
J-DU8-020	Desert Wells	1,419.5	True	3,000.0	5,000.0	80	63	J-220EX
J-DU8-030	Desert Wells	1,421.0	True	3,000.0	5,000.0	79	63	J-220EX

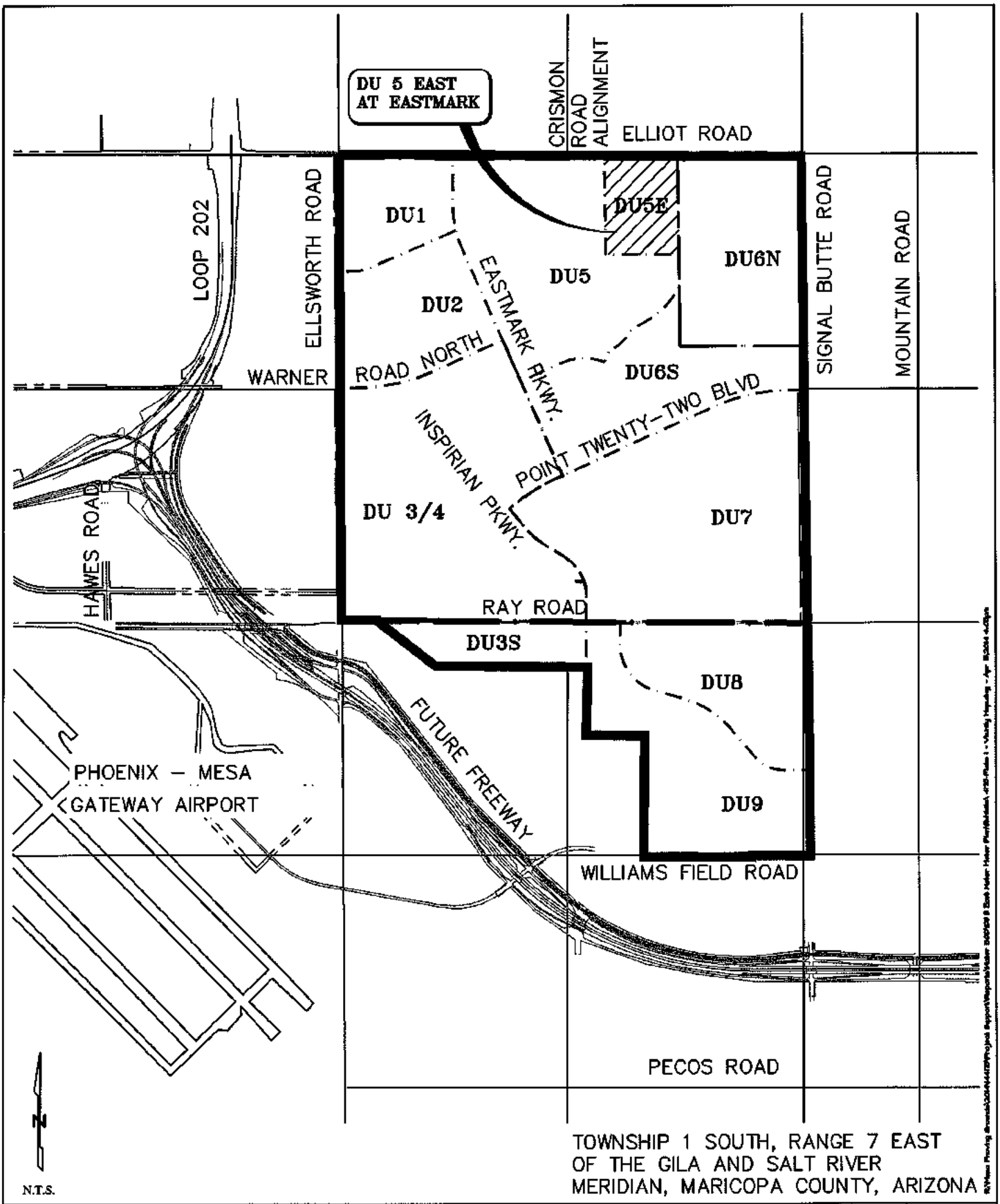
Active Scenario: Max Day + Fire Flow - Served by SCAP
Fire Flow Node FlexTable: Fire Flow Report
(144173_DU 5E EM Water Model-04-15-14.wtg)

Current Time: 0.000 hours

Label	Zone	Elevation (ft)	Satisfies FF?	Flow (Total Needed) (gpm)	Fire Flow (Avalb.) (gpm)	Press. (Calc. Rsdl) (psi)	Pres. (Calc Zn Lwr Lmt) (psi)	Junction w/ Minimum Pressure (Zone)
J-DU8-040	Desert Wells	1,418.0	True	3,013.4	5,000.0	81	63	J-220EX
J-DU8-050	Desert Wells	1,422.0	True	3,000.0	5,000.0	80	63	J-220EX
J-DU8-060	Desert Wells	1,420.0	True	3,018.2	5,000.0	61	63	J-220EX
J-DU8-070	Desert Wells	1,420.0	True	3,030.8	5,000.0	46	63	J-220EX
J-DU8-080	Desert Wells	1,422.0	True	3,008.8	5,000.0	68	63	J-220EX
J-DU8-090	Desert Wells	1,424.0	True	3,022.0	5,000.0	52	62	J-DU8-120
J-DU8-100	Desert Wells	1,425.0	True	3,018.2	5,000.0	73	63	J-220EX
J-DU8-110	Desert Wells	1,430.0	True	3,087.2	5,000.0	24	47	J-DU8-120
J-DU8-120	Desert Wells	1,431.0	True	3,034.4	3,207.3	20	64	J-220EX
J-DU8-130	Desert Wells	1,427.0	True	3,042.0	5,000.0	33	44	J-DU8-120
J-DU9-010	Desert Wells	1,419.0	True	3,039.4	5,000.0	81	63	J-220EX
J-DU9-020	Desert Wells	1,415.0	True	4,073.0	5,000.0	56	63	J-220EX
J-DU9-030	Desert Wells	1,416.0	True	4,066.6	5,000.0	48	56	J-DU9-040
J-DU9-040	Desert Wells	1,416.0	True	3,015.6	4,664.3	20	49	J-DU9-050
J-DU9-050	Desert Wells	1,419.0	True	3,000.0	5,000.0	29	35	J-DU9-080
J-DU9-060	Desert Wells	1,422.0	True	3,062.8	5,000.0	42	53	J-DU9-080
J-DU9-070	Desert Wells	1,414.0	True	3,063.4	4,058.7	20	52	J-DU9-080
J-DU9-080	Desert Wells	1,419.0	True	3,077.2	4,103.3	20	52	J-DU9-050

PLATE 1

Vicinity Map



TOWNSHIP 1 SOUTH, RANGE 7 EAST
OF THE GILA AND SALT RIVER
MERIDIAN, MARICOPA COUNTY, ARIZONA

NOT FOR CONSTRUCTION
OR RECORDING

PLATE 1: VICINITY MAP

EASTMARK
MESA, ARIZONA

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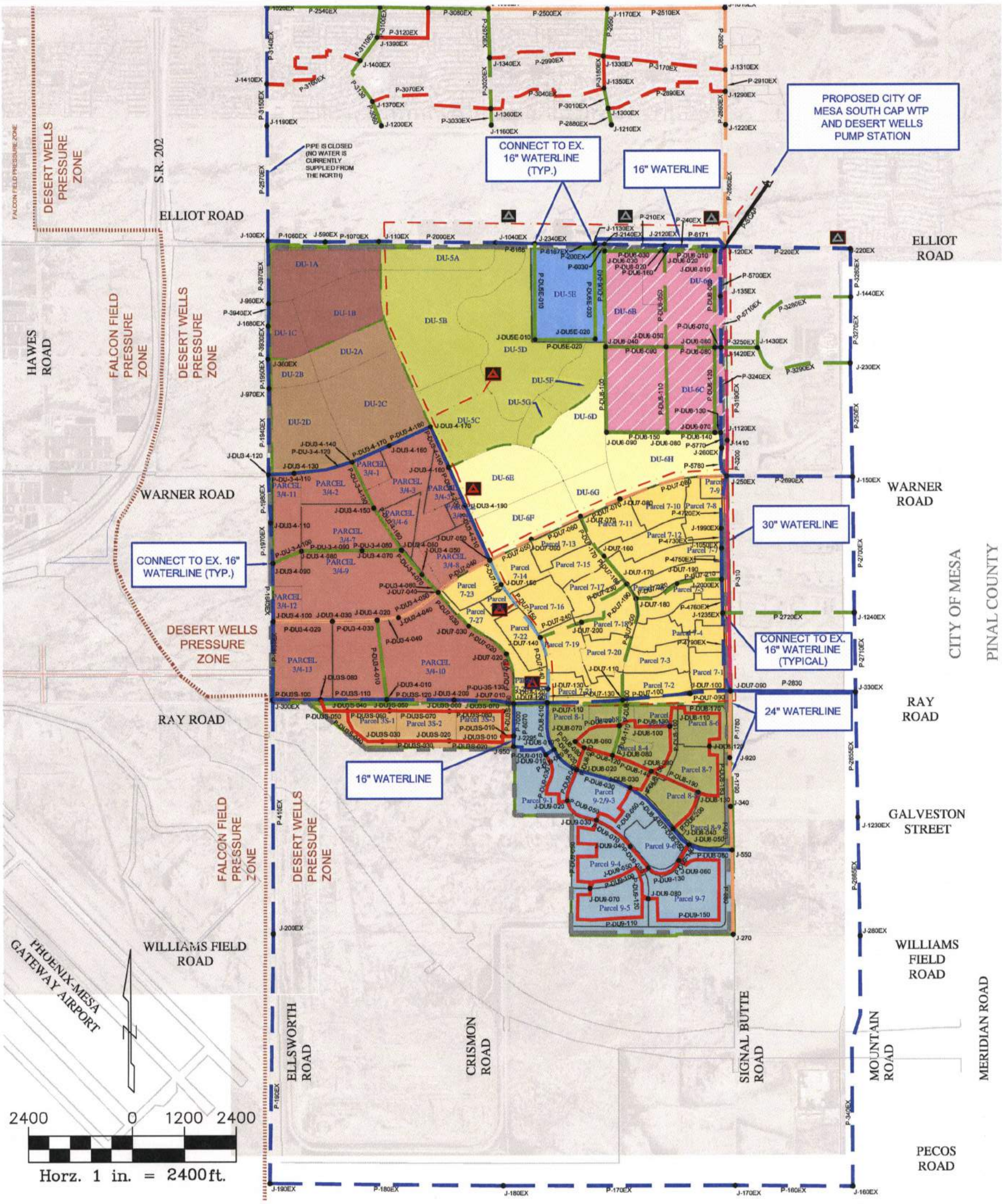
PLATE 2

DU 5 East Master Water Exhibit



LEGEND

NOTES:
1. INFRASTRUCTURE SIZES AND LOCATIONS ARE CONCEPTUAL AND SUBJECT TO CHANGE.

PIPE DIAMETER	EXISTING	PLANNED
8-INCHES		
12-INCHES		
16-INCHES		
20-INCHES		
24-INCHES		
30-INCHES		
WELL SITE		
WELL COLLECTION LINE		
PRESSURE ZONE BOUNDARY		

•	JUNCTION NODE
	WATER SOURCE
P-XXX	PROPOSED PIPE
P-XXXEX	EXISTING PIPE
J-XXX	JUNCTION NODE (PROPOSED)
J-XXXEX	JUNCTION NODE (EXIST.)
MODELED PRESSURE ZONE :	DESERT WELLS

ON-SITE DEVELOPMENT UNITS

DU-1	DU-5E	DU-9
DU-2	DU-6N	
DU-3S	DU-6S	
DU-3/4	DU-7	
DU-5	DU-8	

DU-4A DEVELOPMENT UNIT SUB-AREA

SITE BOUNDARY

FIRST SOLAR SITE

PLATE 2 - DU 5 EAST MASTER WATER EXHIBIT

EASTMARK
MESA, ARIZONA

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