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AZ CORP COMMISSION
DOCKET CONTROL

Transcript Exhibit(s)

Docket #(s): W-02450A-06-0253

Exhibit # : A1-A11, S1

Arizona Corporation Commission
DOCKETED
AUG -8 2007

DOCKETED BY | NR

ORIGINAL NEW APPLICATION

BEFORE THE ARIZONA CORPORATION COMMISSION

RECEIVED

2006 APR 14 P 4: 37

AZ CORP COMMISSION
DOCUMENT CONTROL

COMMISSIONERS
JEFF HATCH-MILLER, CHAIRMAN
WILLIAM A. MUNDELL
MIKE GLEASON
KRISTIN K. MAYES
MARK SPITZER

EXHIBIT
A-1
admitted

APPLICATION OF WATER UTILITY OF GREATER TONOPAH, INC., AN ARIZONA CORPORATION, FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY.	DOCKET NO. W-02450A -06- W-02450A-06-0253 APPLICATION

Water Utility of Greater Tonopah, Inc., ("WUGT") hereby files pursuant to the provisions of A.R.S. § 40-281 et. seq. and A.C.R.R. R.14-2-402, its Application for an Extension of its Certificate Of Convenience And Necessity to provide domestic water service to that part of Section 19, Township 2 North, Range 6 West, Gila & Salt River Basin and Meridian, Maricopa County, Arizona more particularly described on Exhibit A, attached hereto (the "Extension Area"). The Extension Area constitutes that portion of the Balterra Development that is contiguous to that portion of the Balterra Development located within the area certificated to WUGT by Decision No. 54419 (as corrected by Decision No. 68451). Detailed maps outlining the Extension Area are attached hereto as Exhibit B. No State or Federal land is included within the Extension Area.

The following supports this Application:

1. WUGT is an Arizona corporation holding a certificate of convenience and necessity to provide domestic water in portions of the westerly part of Maricopa County. A

http://image.azcc.gov/scripts/cgi/dwisdocket2.pl?COMMAND=4&SESSIONID=bjGvgBjRUhnXxy2zyF... 7/30/2007

copy of the Certificate of Good Standing is attached hereto as Exhibit C.

2. J. John Mihlik is the President of WUGT. His business address and telephone number are:

Water Utility of Greater Tonopah, Inc.
3800 North Central Avenue, Suite 770
Phoenix, Arizona 85012
Telephone: 602-224-0711
Facsimile: 602-224-5455

3. Mr. Leonard Scheid is the operator certified by the Arizona Department of Environmental Quality for WUGT. He can be reached at:

Water Utility of Greater Tonopah, Inc.
201 East Coronado Street
Buckeye, Arizona 85326
Telephone: 623-386-1576
Facsimile: 623-386-6638
Cell: 623-764-8401

4. A corporate resolution authorizing this Application is attached hereto as Exhibit D.

5. The certificate of convenience and necessity of WUGT, described in Decision No. 54419 (as corrected by Decision No. 68451) includes 620 acres of the Balterra Development. The Extension Area includes the approximately 480 additional acres that make up the balance of the Balterra Development

6. The request for water service related to the Extension Area is attached hereto as Exhibit E from Fronterra Village, LLC. Fronterra has recently acquired and plans to develop approximately 1,100 acres as the Balterra Development. Fronterra anticipates the Balterra Development will be composed of 4,189 residential units (i.e., the approximately

4,000 residential units referenced in its request for service), and have commercial demand equivalent to another 1,911 residential units. The conceptual Land Use Plan is attached as Exhibit F.

7. An application for a determination of physical availability has been filed with the Department of Water Resources by the landowners/developers to demonstrate there is an adequate physical water supply available to meet the projected demands of the Balterra Development. The landowners/developers, not WUGT, must apply for and secure a Certificate of Assured Water Supply. However, in order to secure an application for a Certificate of Assured Water Supply, the lands must be served by a municipal provider or within the certificated area of a private water company or subject to an application therefore. WUGT understands an application for a Certificate of Assured Water Supply for the Balterra Development will soon be filed with the Arizona Department of Water Resources. A copy of the Analysis of Assured Water Supply from the Arizona Department of Water Resources is attached hereto as Exhibit G.

8. The Balterra Development will be developed in five phases. The first two phases include a portion of the Extension Area, as well as area already certificated to WUGT by Decision No. 54419 (as corrected by Decision No. 68451). A copy of the proposed phasing of the Balterra Development is attached as Exhibit H.

9. The developer has prepared a preliminary water master plan. A copy of the Water and Wastewater Master Plan for the Balterra Development has previously been submitted to the Commission as part of Docket No. SW-20403A-05-0586 (Balterra Sewer Corp.'s application for a certificate to provide wastewater service). The estimated water

system costs by phase are reflected on Exhibit I.

10. WUGT will require the developers of the Balterra Development to finance and cause to be constructed the water-related infrastructure, including, without limitation, wells, storage tanks, booster stations and water lines, necessary to meet the water demands of the Extension Area through main line extension agreements as allowed pursuant to A.A.C. R14-2-406. Main line extension agreements that require the developer to advance funds for new water infrastructure place the risk of the development on the developer, not on the water company or its customers. Successful developments will receive significant refunds (as a percentage of revenues produced), while plant in unsuccessful developments will ultimately be treated as contributions (and under current Commission practice permanently excluded from rate base).

11. WUGT currently owns and operates eight separate public water systems (one of which (WPE #1) still does not have a PWS number). The water demand and production for each system is separately set forth in the Data Sheets attached hereto as Exhibit J. Water facilities will be developed within the Balterra Development to ensure sufficient water production and storage capability is available to meet its entire demand. In addition, WUGT has an existing well located in West Phoenix Estates Unit #3 (adjacent to the Balterra Development) that, through interconnection or hauling, can be available to meet initial demands in the Balterra Development.[1]

12. The current balance sheet and profit and loss statement of WUGT for the

[1] The well in West Phoenix Estates Unit #3 is not presently interconnected with any public water system. However, it will be interconnected with the West Phoenix Estates Unit # 6 system (PWS #07-733) by the end of the year. Interconnecting the three systems (WPE Unit #3, WPE Estates Unit #6 and the Balterra Development) will increase redundancy and system reliability for this portion of the WUGT system.

twelve month period ending December 31, 2005 is attached hereto as Exhibit K.

13. The developers of the Balterra Development have based water demand projections upon the entire Balterra Development, not just the Extension Area. Phases 1 and 2 of the development contain significant portions of the Extension Area. The Expansion Area encompasses the entirety of Phases 3 and 4. It is estimated the Balterra Development (both within and beyond the Extension Area) will experience new customers that require service over the next five years as follows:

Residential:

First Year: 860 Second Year: 1478 (2338 cumulative)

Third Year: 1158 (3496 cumulative) Fourth Year: 693 (4189 cumulative)

Fifth Year: 0 (4189 cumulative)

Commercial:

First Year: 0 Second Year: 0 Third Year: 0

Fourth Year: 0 Fifth Year: 1911 (EDUs)

14. The projected annual water consumption (gallons) in the Extension Area for each of the first five years after water service commences therein is estimated (using 6000 gallons per customer, with each new customer assumed to be active for ½ of the year) as follows:

Residential:

First Year: 10,800,000 Second Year: 56,160,000

Third Year: 90,720,000 Fourth Year: 134,640,000

Fifth Year: 187,200,000

Commercial:

First Year: 0 Second Year: 0 Third Year: 0 Fourth Year: 7,200,000

Fifth Year: 12,240,000

15. Based upon WUGT's current rates and charges, the annual operating revenue in the Extension Area for each of the first five years after water service commences therein is as follows:

Residential:

First Year: $81,456 Second Year: $423,540 Third Year: $684,180

Fourth Year: $1,015,416 Fifth Year: $1,411,800

Commercial:

First Year: 0 Second Year: 0 Third Year: 0 Fourth Year: $54,300

Fifth Year: $92,316

16. Based on the forgoing projections, WUGT estimates annual operating expenses for the first five years of operations to be:

Residential:

First Year: $88,787 Second Year: $461,659 Third Year: $649,971

Fourth Year: $964,645 Fifth Year: $1,341,210

Commercial:

First Year: 0 Second Year: 0 Third Year: 0 Fourth Year: $51,585

Fifth Year: $87,700

17. WUGT holds a Maricopa County franchise that already encompasses the Extension Area. A copy of the Maricopa County franchise is attached as Exhibit L.

18. The public convenience and necessity require the granting of this Application.

WUGT was certificated to provide water service to over 56% of the Balterra Development in 1985. WUGT has made investment as necessary and appropriate to meet the demands for service in and around the area. The owners of the Extension Area have requested water service to the entire Balterra Development from WUGT. Expansion of WUGT's certificate of convenience and necessity to encompass the Extension Area is in the public interest, will promote orderly growth of existing utilities in the area, achieve economies of scale related therewith and is consistent with A.R.S. §40-281 (B) (wherein the legislature provides that a corporation is not required to secure a certificate for an extension "contiguous to its . . . line, plant or system . . . or for an extension . . . necessary in the ordinary course of its business).

19. To the best of its knowledge and belief, WUGT is currently in compliance with all regulatory requirements applicable to the provision of domestic water service within its certificated area.

20. A copy of the proposed Public Notice form is attached hereto as Exhibit M.

21. All correspondence and communications regarding this Application should be addressed to:

William P. Sullivan
Nancy A. Mangone
Curtis, Goodwin, Sullivan,
Udall & Schwab, PLC
2712 N. Seventh Street
Phoenix, Arizona 85006
Phone (602) 393-1700
Facsimile (602) 393-1703
wsullivan@cgsuslaw.com
nmangone@cgsuslaw.com

With copies to:

J. John Mihlik
Water Utility of Greater Tonopah, Inc.
3800 North Central Avenue, Suite 770
Phoenix, Arizona 85012

WHEREFORE, Water Utility of Greater Tonopah, Inc. respectfully requests the Commission:

1. Accept this Application for filing and promptly issue a procedural order governing the processing of this Application, including, without limitation, the manner and time for filing any notice, the time for filing for intervention, the time for filing the Staff Report and the time for hearing;

2. Order that WUGT's Certificate of Convenience and Necessity be expanded to include the Extension Area as described in Exhibit A attached hereto; and

3. Grant such further relief as the Commission deems just and proper based upon the record presented.

DATED THIS 14th day of April, 2006.

CURTIS, GOODWIN, SULLIVAN,
UDALL & SCHWAB, P.L.C.

By: _____
William P. Sullivan
Nancy A. Mangone
2712 North 7th Street
Phoenix, Arizona 85006-1090
Attorneys for Water Utility of Greater Tonopah, Inc.

PROOF AND CERTIFICATE OF MAILING

I hereby certify that on this 14th day of April, 2006, I caused the foregoing document to be served on the Arizona Corporation Commission by delivering the original and thirteen (13) copies of the above to:

Docket Control
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Mary Walker

1284-5-3-4App for CCN Ext Baltasar v2.doc

Exhibit A

WATER SERVICE AREA DESCRIPTION

BALTERRA

THE NORTHEAST QUARTER AND THE SOUTH HALF OF SECTION 19, TOWNSHIP 2 NORTH, RANGE 6 WEST,
GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA;

EXCEPT THAT PORTION OF THE SOUTHWEST QUARTER OF SAID SECTION 19 DESCRIBED AS FOLLOWS:

COMMENCING AT A BRASS CAP FOUND AT THE SOUTH QUARTER CORNER OF SAID SECTION 19, FROM WHICH AN ARIZONA DEPARTMENT OF TRANSPORTATION BRASS CAP AT THE SOUTHEAST CORNER OF SAID SECTION 19 BEARS SOUTH 89°28'08" EAST, A DISTANCE OF 2640.04 FEET; THENCE NORTH 89°28'43" WEST, ALONG THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19, A DISTANCE OF 1482.82 FEET; THENCE NORTH 00°31'17" EAST, A DISTANCE OF 40.00 FEET TO A HALF INCH REBAR AT A POINT ON A LINE LYING 40.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19 AND THE TRUE POINT OF BEGINNING;

THENCE CONTINUING NORTH 00°31'17" EAST, A DISTANCE OF 200.00 FEET TO A HALF IN REBAR AT A POINT ON A LINE LYING 240.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19;

THENCE SOUTH 89°28'43" EAST, ALONG SAID LINE LYING 240.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19, A DISTANCE OF 200.00 FEET TO A HALF IN REBAR;

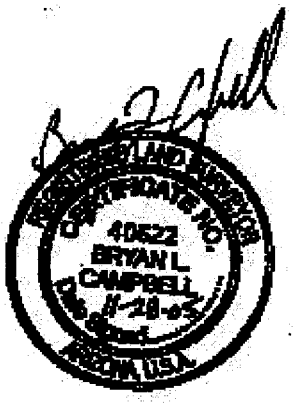
THENCE SOUTH 00°31'17" WEST, A DISTANCE OF 200.00 FEET TO A HALF IN REBAR AT A POINT ON SAID LINE LYING 40.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19;

THENCE NORTH 89°28'43" WEST, ALONG SAID LINE LYING 40.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19, A DISTANCE OF 200.00 FEET TO A HALF IN REBAR AT THE POINT OF BEGINNING;

ALSO EXCEPT ANY PORTION OF THE SOUTHWEST QUARTER OF SAID SECTION 19 LYING WITHIN THAT CERTAIN TRACT OF LAND CONDEMNED FOR HIGHWAY PURPOSES BY INSTRUMENT RECORDED UNDER DOCKET 7553, PAGE 749, RECORDS OF MARICOPA COUNTY ARIZONA.

SITUATE IN THE COUNTY OF MARICOPA, STATE OF ARIZONA.

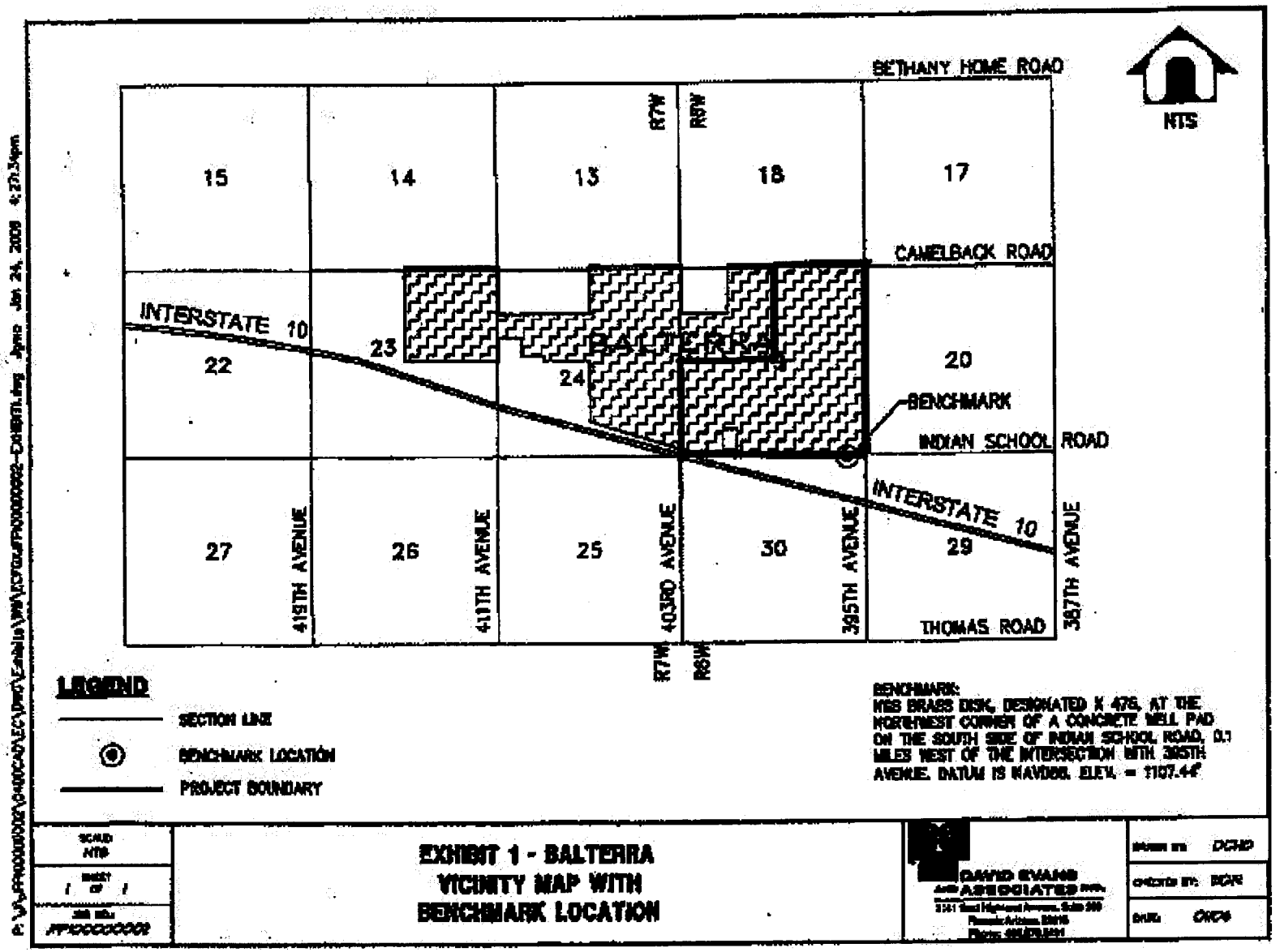
CONTAINS 475.815 ACRES MORE OR LESS.

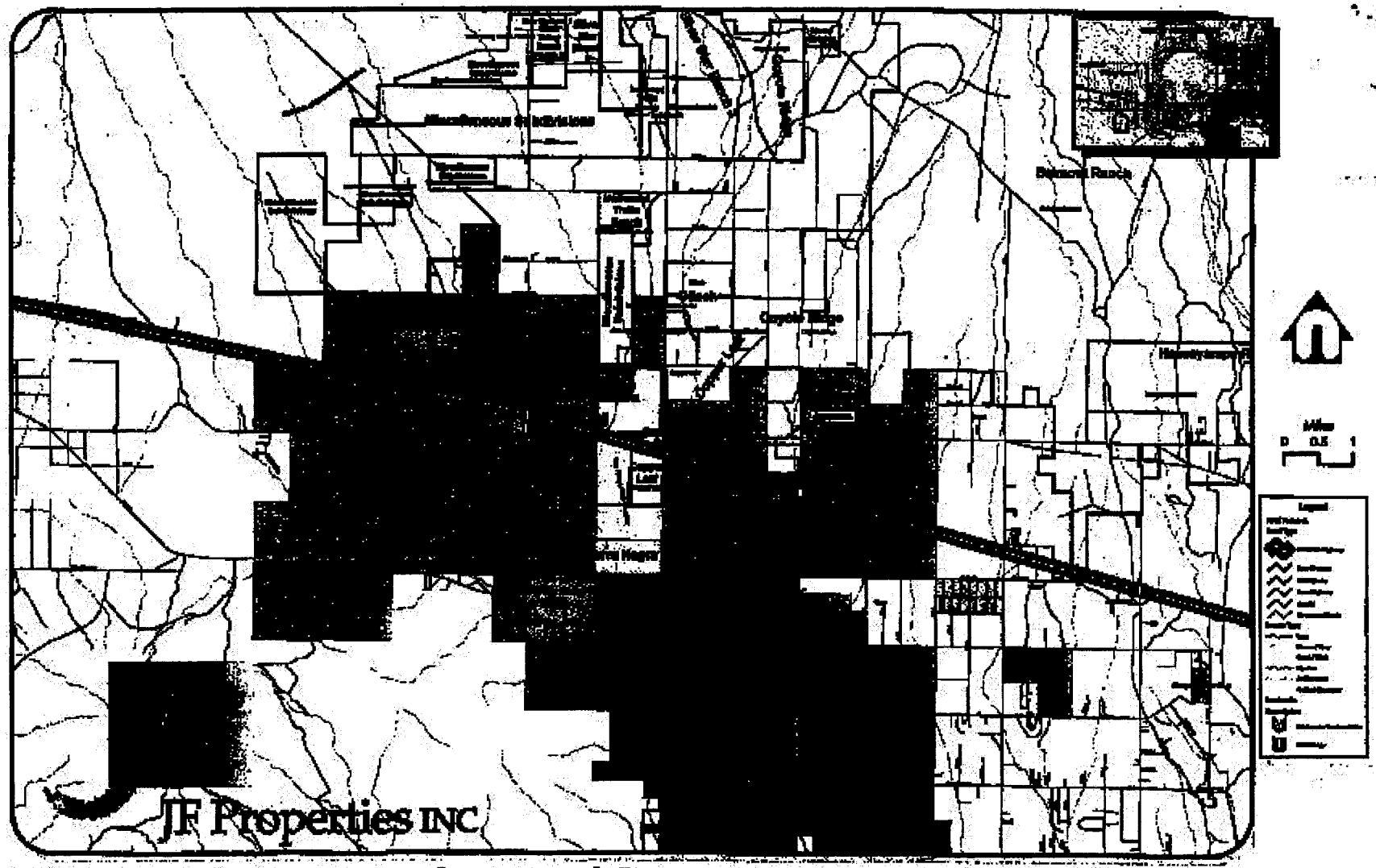


REGISTERED LAND SURVEYOR
CERTIFICATE NO.
40622
BRYAN L.
CAMPBELL
11-28-05
Date Signed
ARIZONA, U.S.A.

P:\JFP100000002\0600INFO\SV\605SV Legal Descriptions\BALTERRA WATER SERVICE.doc

Exhibit B


BETHANY HOME ROAD
NTS
R7W
R6W
15
14
13
18
17
CAMELBACK ROAD
INTERSTATE 10
22
23
24
BALTERRA
20
BENCHMARK
INDIAN SCHOOL ROAD
INTERSTATE 10
27
26
25
30
29
419TH AVENUE
411TH AVENUE
403RD AVENUE
395TH AVENUE
387TH AVENUE
THOMAS ROAD
R7W
R6W
LEGEND
SECTION LINE
BENCHMARK LOCATION
PROJECT BOUNDARY
BENCHMARK:
NGS BRASS DISK, DESIGNATED X 476, AT THE NORTHWEST CORNER OF A CONCRETE WELL PAD ON THE SOUTH SIDE OF INDIAN SCHOOL ROAD, 0.1 MILES WEST OF THE INTERSECTION WITH 395TH AVENUE. DATUM IS NAVD88. ELEV. = 1107.44'
SCALE: NTS
SHEET 1 OF 1
EXHIBIT 1 - BALTERRA
VICINITY MAP WITH
BENCHMARK LOCATION
DAVID EVANS AND ASSOCIATES INC.
DRAWN BY: DCHD
CHECKED BY: DGR
DATE: 01/06



Tonopah Area • Certificates of Convenience and Necessity

Dark Shade = Water Utility of Greater Tonopah, Inc.

ATTACHMENT "B"

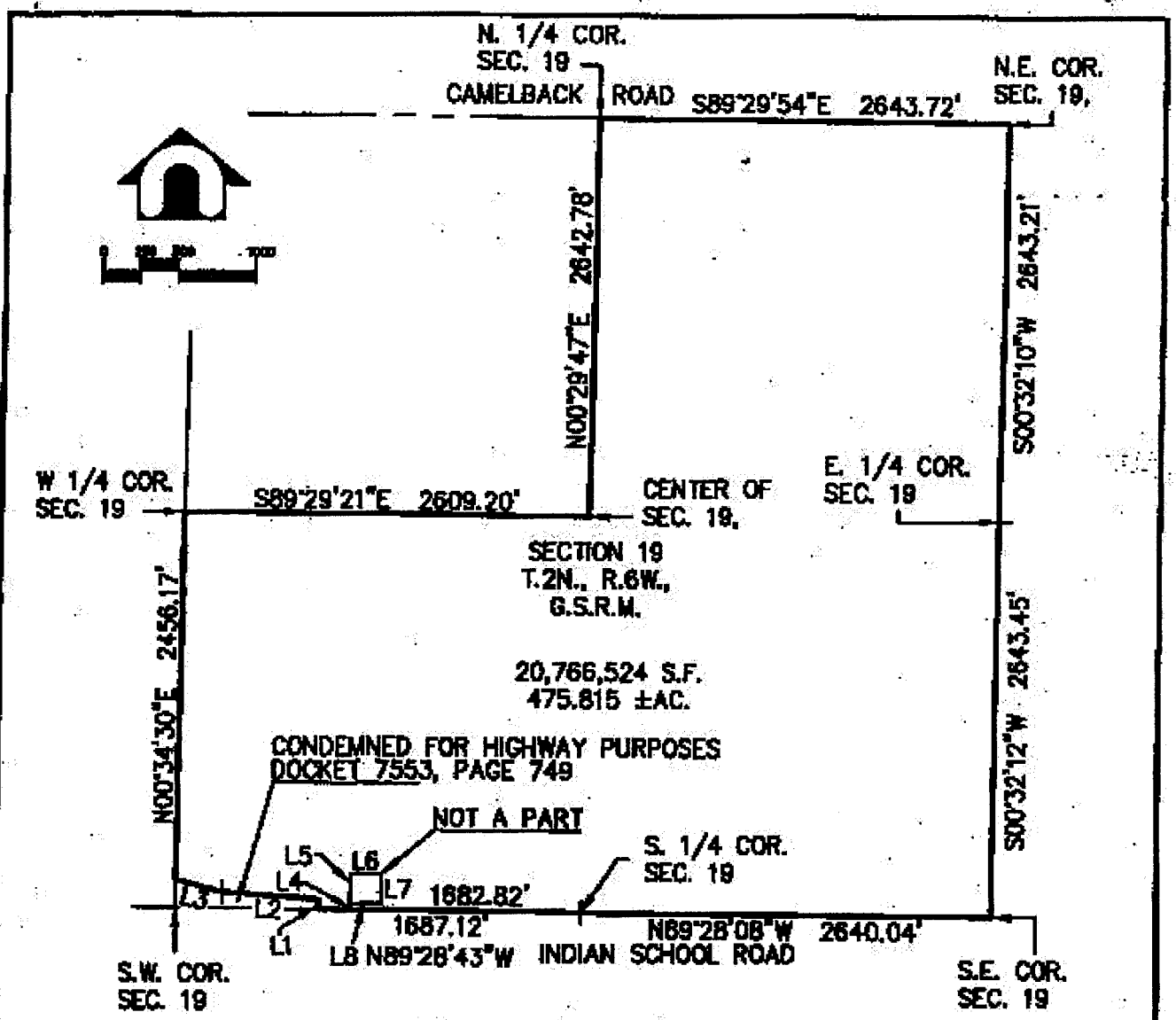
Maricopa	19	2N	6W
COUNTY	SECTION	TOWNSHIP	RANGE

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Type or Print Description Here:

See Attached Maps.

ccnsrt.doc 04/00



LINE TABLE		
LINE	BEARING	LENGTH
L1	N00°31'17"E	65.22'
L2	N85°42'56"W	629.08'
L3	N74°33'19"W	308.20'
L4	N00°31'17"E	40.00'
L5	N00°31'17"E	200.00'
L6	S89°28'43"E	200.00'
L7	S00°31'17"W	200.00'
L8	N89°28'43"W	200.00'

SCALE 1"=1000'

SHEET 1 OF 1

JOB NO. JFH0008

WATER SERVICE AREA
BALTERRA
TONAPAH, MARICOPA, ARIZONA

DAVID EVANS AND ASSOCIATES INC.

DRAWN BY: APHC

CHECKED BY: BLCA

DATE: [illegible]

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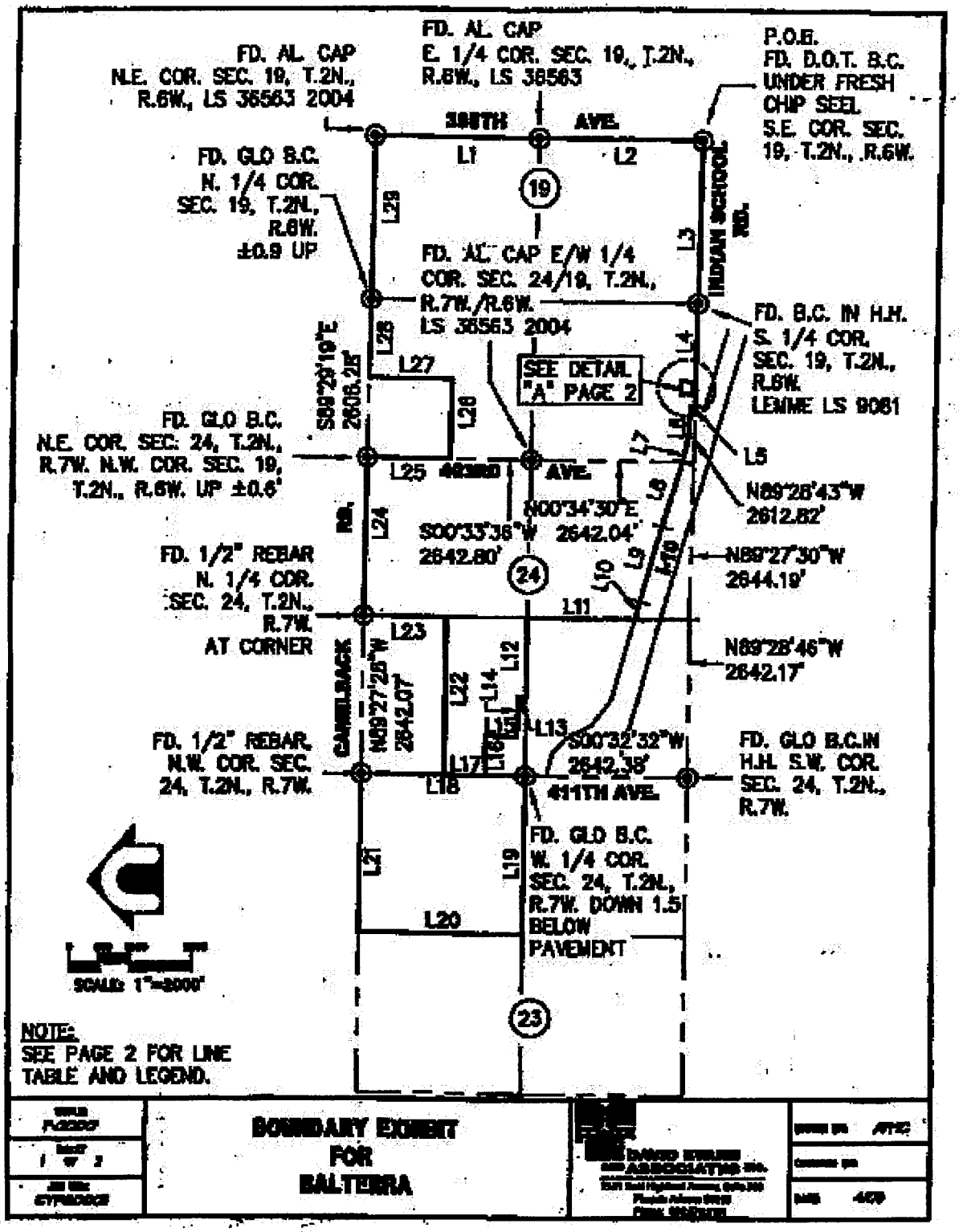
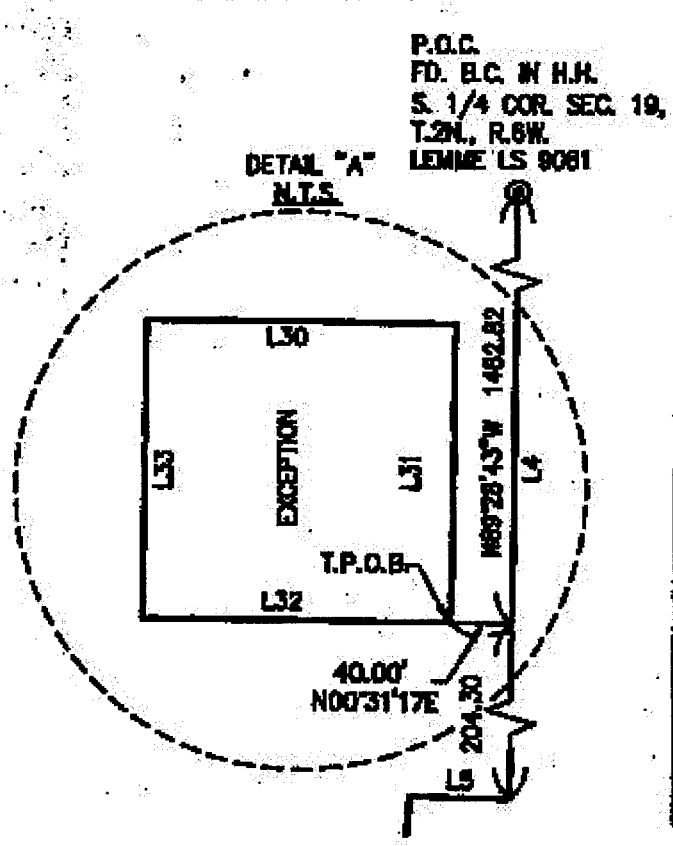

FD. AL. CAP
N.E. COR. SEC. 19, T.2N.,
R.6W., LS 36563 2004
FD. AL. CAP
E. 1/4 COR. SEC. 19, T.2N.,
R.6W., LS 36563
P.O.B.
FD. D.O.T. B.C.
UNDER FRESH
CHIP SEEL
S.E. COR. SEC.
19, T.2N., R.6W.
AVE.
L1
L2
19
FD. GLO B.C.
N. 1/4 COR.
SEC. 19, T.2N.,
R.6W.
±0.9 UP
L29
L3
INDIAN SCHOOL RD.
FD. AL. CAP E/W 1/4
COR. SEC. 24/19, T.2N.,
R.7W./R.6W.
LS 36563 2004
FD. B.C. IN H.H.
S. 1/4 COR.
SEC. 19, T.2N.,
R.6W.
LEMME LS 9061
S89°29'19"E
2606.28'
L28
L27
L26
SEE DETAIL
"A" PAGE 2
L4
FD. GLO B.C.
N.E. COR. SEC. 24, T.2N.,
R.7W. N.W. COR. SEC. 19,
T.2N., R.6W. UP ±0.6'
L25
AVE.
L5
N89°28'43"W
2612.82'
N00°34'30"E
2642.04'
S00°33'36"W
2642.80'
L24
24
N89°27'30"W
2644.19'
FD. 1/2" REBAR
N. 1/4 COR.
SEC. 24, T.2N.,
R.7W.
AT CORNER
L11
L23
N89°28'46"W
2642.17'
CAMELBACK RD.
N89°27'28"W
2642.07'
L22
L12
L14
L13
S00°32'32"W
2642.38'
FD. 1/2" REBAR,
N.W. COR. SEC.
24, T.2N., R.7W.
L17
L18
411TH AVE.
FD. GLO B.C.IN
H.H. S.W. COR.
SEC. 24, T.2N.,
R.7W.
FD. GLO B.C.
W. 1/4 COR.
SEC. 24, T.2N.,
R.7W. DOWN 1.5
BELOW
PAVEMENT
L21
L19
L20
23
SCALE: 1"=2000'
NOTE:
SEE PAGE 2 FOR LINE
TABLE AND LEGEND.
BOUNDARY EXHIBIT
FOR
BALTERRA

LEGEND

- INDICATES FOUND MONUMENT AS NOTED
- RIGHT OF WAY LINE
- INDICATES MONUMENT LINE
- INDICATES PROPERTY LINE



LINE TABLE		
LINE	BEARING	LENGTH
L1	S00°32'10"W	2643.21'
L2	S00°32'12"W	2643.45'
L3	N89°28'08"W	2640.04'
L4	N89°28'43"W	1687.12'
L5	N00°31'17"E	65.22'
L6	N85°42'56"W	629.08'
L7	N74°33'19"W	308.20'
L8	N74°32'33"W	1142.11'
L9	N74°32'55"W	1300.15'
L10	N74°32'56"W	294.06'
L11	N00°32'56"E	1751.55'
L12	N89°27'44"W	1321.24'
L13	N00°33'08"E	132.00'
L14	N89°27'44"W	660.61'
L15	N00°33'16"E	528.12'
L16	N89°27'40"W	660.59'
L17	N00°33'24"E	660.13'
L18	S00°33'24"W	2640.55'
L19	N89°26'32"W	2636.57'
L20	N00°35'09"E	2641.17'
L21	S89°26'44"E	2635.23'
L22	S89°27'36"E	2642.26'
L23	N00°32'53"E	1320.15'
L24	S89°31'19"E	2645.96'
L25	S00°33'36"W	1320.00'
L26	S89°29'19"E	1320.00'
L27	N00°33'36"E	1320.00'
L28	S89°29'19"E	1266.27'
L29	S89°29'54"E	2643.72'
L30	S00°31'17"W	200.00'
L31	N89°28'43"W	200.00'
L32	N00°31'17"E	200.00'
L33	S89°28'43"E	200.00'

SCALE AS NOTED	**BOUNDARY EXHIBIT FOR BALTERRA**	DRAWN BY: AFIC
JOB NO. CITY0000		DATE: 4/09

Exhibit C

STATE OF ARIZONA

Office of the
CORPORATION COMMISSION
CERTIFICATE OF GOOD STANDING

To all to whom these presents shall come, greeting:

I, Brian C. McNeil, Executive Director of the Arizona Corporation Commission, do hereby certify that

****WATER UTILITY OF GREATER TONOPAH, INC.****

a domestic corporation organized under the laws of the State of Arizona, did incorporate on October 17, 1983.

I further certify that according to the records of the Arizona Corporation Commission, as of the date set forth hereunder, the said corporation is not administratively dissolved for failure to comply with the provisions of the Arizona Business Corporation Act; and that its most recent Annual Report, subject to the provisions of A.R.S. sections 10-122, 10-123, 10-125 & 10-1622, has been delivered to the Arizona Corporation Commission for filing; and that the said corporation has not filed Articles of Dissolution as of the date of this certificate.

This certificate relates only to the legal existence of the above named entity as of the date issued. This certificate is not to be construed as an endorsement, recommendation, or notice of approval of the entity's condition or business activities and practices.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Arizona Corporation Commission. Done at Phoenix, the Capital, this 22nd Day of March, 2006, A. D.

Executive Director

Order Number: 56015

Exhibit D

RESOLUTION
OF
WATER UTILITY OF GREATER TONOPAH, INC.

WHEREAS, the Board of Directors at the annual meeting held on April 20, 2005 duly authorized the President of Water Utility of Greater Tonopah to take actions on behalf of the corporation as necessary or appropriate before the Arizona Corporation Commission, the Arizona Department of Water Resources and the Arizona Department of Environmental Quality;

WHEREAS, certain land owners in the vicinity of the existing Certificate of Convenience and Necessity desire water service from Water Utility of Greater Tonopah; and

WHEREAS, the vacant lands could provide additional growth for this portion of the Water Utility of Greater Tonopah system.

BE IT RESOLVED that the corporation's officers be and hereby are authorized and directed to take any and all action deemed necessary or appropriate to expand the certificated area by adding the area more fully described in Exhibit A attached hereto and incorporated herein by this reference, including, without limitation, retaining attorneys and other consultants and filing and processing an application for inclusion with the Arizona Corporation Commission.

BE IT FURTHER RESOLVED that the President, incidental to the President's duties to the management and operation of the corporation, be and hereby is authorized to act on behalf of the Company before the Arizona Corporation Commission on the aforementioned matter.

DATED this 22th day of March 2006.

John Mihlik, President

John F. Goodson, Secretary

1224/3-1/pleadings/Bd Resolution for ccn app

Exhibit E

Fronterra Village

January 31, 2006

Mr. John Mihlik, President
Water Utility of Greater Tonopah
3800 N. Central Ave., #770
Phoenix, Arizona 85012

Re: Extension of Water Service by Water Utility of Greater Tonopah to Balterra Development

Dear Mr. Mihlik:

Please accept this letter as a formal request for extension of water utility service by the Water Utility of Greater Tonopah ("WUGT") to the master planned development known as Balterra. As you know, Fronterra Village, LLC ("Fronterra") recently acquired this parcel, which we understand is partially located within WUGT's certificated service area. This letter constitutes Fronterra's formal request for WUGT to extend water utility service to the project.

Briefly, the project encompasses approximately 1,100 acres located in western Maricopa County, upon which Fronterra intends to develop approximately 4,000 residential units. A legal description of the area that is currently not within the WUGT service area and will require water service is attached hereto as Attachment 1.

We understand WUGT may be required to prepare an analysis of demand from our project and several others in the vicinity. We further understand that the analysis is intended to determine the need for and nature of off-site facilities WUGT believes it will need to extend water utility service to our project. From there, engineering design and costs will be determined and our pro rata share of such costs will be allocated and incorporated into a main extension agreement that comports with the requirements of the Arizona Corporation Commission's ("Commission") rules and regulations. We trust that WUGT will move with all possible speed to complete the engineering and contract preparation, as well as obtain any required approvals necessary to meet our need for water utility service to our project.

6720 N. Scottsdale Rd., Suite 250, Scottsdale, AZ 85253

Mr. John Mihlik
January 31, 2006
Page 2

Because our project is only partially located within WUGT's service area, we understand that WUGT will need approval from the Commission to expand its Certificate of Convenience and Necessity so that the entire project can be served. Fronterra will provide WUGT with all information and documents necessary so that a CC&N extension application can be filed with the Commission, as will be more fully addressed in any future water main extension agreement between Fronterra and WUGT.

We look forward to working with you and WUGT on this exciting project. In the meantime, if you have questions or need further information regarding Fronterra's project, please let me know.

Sincerely,

FRONTERRA VILLAGE, LLC

Joel H. Farkas
Manager

JHF:mk

Enclosure

Exhibit F

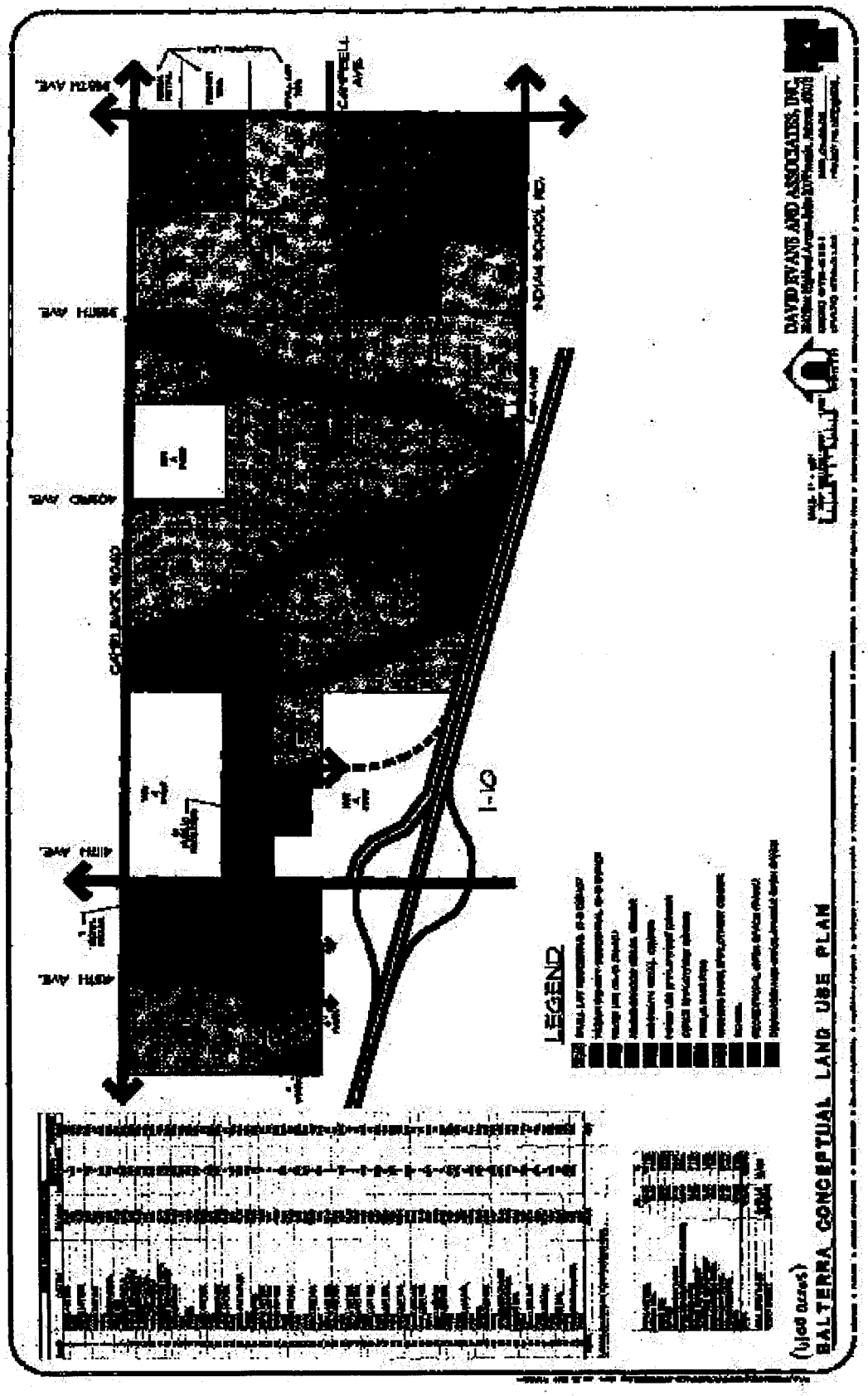

BALTERRA CONCEPTUAL LAND USE PLAN
LEGEND
I-10
DAVID EVANS AND ASSOCIATES, INC.

Exhibit G

8.850

ARIZONA DEPARTMENT OF WATER RESOURCES
Office of Assured and Adequate Water Supply
[illegible]
Telephone [illegible]
Fax [illegible]

[illegible]

[illegible]

ANALYSIS OF ASSURED WATER SUPPLY

March 1, [illegible]

File Number	[illegible]
Development	Saltana
Location	Township 1 North, Range 7 West, Sections 23 & 24, and Township 2 North, Range 6 West, Sections 30 Maricopa County, Arizona Phoenix AMA
Land Owner	Saltana Partners LP, Hawk Partners LP, Saltana I Partners LP, Shoreline Partners LP, L & L Partners LP, L & B Partners LP, Circle Saltana Partners LP, Circle Creek Partners LP, Saltana, LLC, WT Partners LP, Saltana Partners LP, Chasen Partners LP, AF Partners LP, AC Partners LP, W-O-K Partners LP, Saltana II Partners LP, Shoreline Phl Partners LP

The Arizona Department of Water Resources has evaluated the Analysis of Assured Water Supply application for Saltana pursuant to A.A.C. R12-15-713. The proposed development includes 4,314 single-family residential lots, 891 multifamily residential lots and 324 non-residential areas including commercial and open space areas, schools, parks and rights-of-way. The water provider will be Water Utility of Greater Tonopah. Conclusions of the review are indicated below based on the assured water supply criteria referenced in A.R.S. § 45-576 and A.A.C. R12-15-705 et seq.

- **Physical, Continuous, and Legal Availability of Water for 100 Years**
  On the basis of the hydrologic study submitted and the Department's review, the Department has determined that 3,807 acre-feet per year of groundwater will be physically and continuously available, which equals the applicant's projected demands for the development of 3,807 acre-feet per year. The legal availability of the water is not subject of this item. The development is not located within the current service area of the Water Utility of Greater Tonopah. A portion of the development falls within the Certificate of Convenience and Necessity boundary of the Water Utility of Greater Tonopah. Applications for Certificates of Assured Water Supply not follow the Analysis of Assured Water Supply will need to provide a detailed plan of how water service will be established. This may include use of Type 1 or Type 2 water rights or recovery of long term storage credits to create a new or extend service area, or extension of existing service area lines to include the proposed development. Subdivided Notices of Intent or Plans will be required for each application for a Certificate of Assured Water Supply.

- **Adequate Water Quality**
  Adequate water quality has not been demonstrated at this time. The proposed development lies outside the provider's current service area, therefore, no drinking water compliance data are available. No water quality data was submitted with the application.

To provide service in the area, a provider will likely have to construct new wells. The Arizona Department of Environmental Quality will require water quality analyses for new sources approved for such wells. This requirement of an Analysis of Assured Water Supply will be mentioned for such applications for a Certificate of Assured Water Supply.

- Consistency with Management Plan for the Phoenix Active Management Area. The proposed demand for the development is consistent with the Third Management Plan for the Phoenix AMA. Subject will use low water use landscaping plantings. Subject will comply with the currently Low Flow Plumbing Code.

- Consistency with Management Goal of the Phoenix Active Management Area. The Assured and Adequate Water Supply Rules (A.A.C. § R12-15-705) allows a volume of groundwater to exceed safe yield within the AMA to allow for the planning for of renewable supplies. This groundwater allowance may be increased by extinguishing irrigation grandfathered groundwater rights (IGFR). Any groundwater delivery in excess of the groundwater allowance must be met through the direct or indirect use of renewable water supplies (surface water or effluent). Options for demonstrating "consistency with management goal" include: 1) direct use of surface water or effluent; 2) recharge and recovery of surface water or effluent; or 3) membership in the Central Arizona Groundwater Replenishment District (CAGRD).

The application indicates that the proposed development will serve the bulk of the entire development, including the commercial and open space areas, schools, parks and other non-residential areas, in the CAGRD to meet this requirement. The aforementioned documents must be reviewed and executed before a Certificate of Assured Water Supply will be issued.

Prior to preparing an application for a Certificate of Assured Water Supply for an individual subdivision plat, the Phoenix AMA Office or the Office of Assured Water Supply may be contacted for further guidance.

- Financial Capability of the Owner to Construct the Necessary Distribution System Pursuant to A.A.C. R12-15-707. Financial capability will be evaluated by the local planning authority as a part of the process for obtaining a Certificate of Assured Water Supply for each subdivision. The application for a Certificate of Assured Water Supply includes a Verification of Construction Assurance for a Proposed Subdivision form. This form should be signed by the appropriate planning entity to provide evidence of financial capability. This requirement of an assured water supply will be mentioned upon application for a Certificate of Assured Water Supply.

The term of this Analysis of Assured Water Supply is ten years from the date of this letter and may be renewed upon request, subject to approval by the Department. Throughout the term of this determination, the projected demand of this development will be considered when reviewing other requests for assured water supply in the area.

Prior to obtaining plat approval by the local planning authority and approval of the public report by the Department of Real Estate, a Certificate of Assured Water Supply must be obtained for each subdivision plat. The findings of this Analysis of Assured Water Supply may be used to demonstrate that certain requirements for a Certificate have been met. This determination may be invalidated if the development plans or other conditions change prior to filing for a Certificate of Assured Water Supply.

07/25/2005 14:34 6029557005 [illegible] PAGE [illegible]

Questions may be directed to the Office of Annual Water Supply at (602) 417-2001.

Mark Frank

Mark Frank, Acting Assistant Director
Water Management Division

cc: Phoenix Active Management Area

Exhibit H

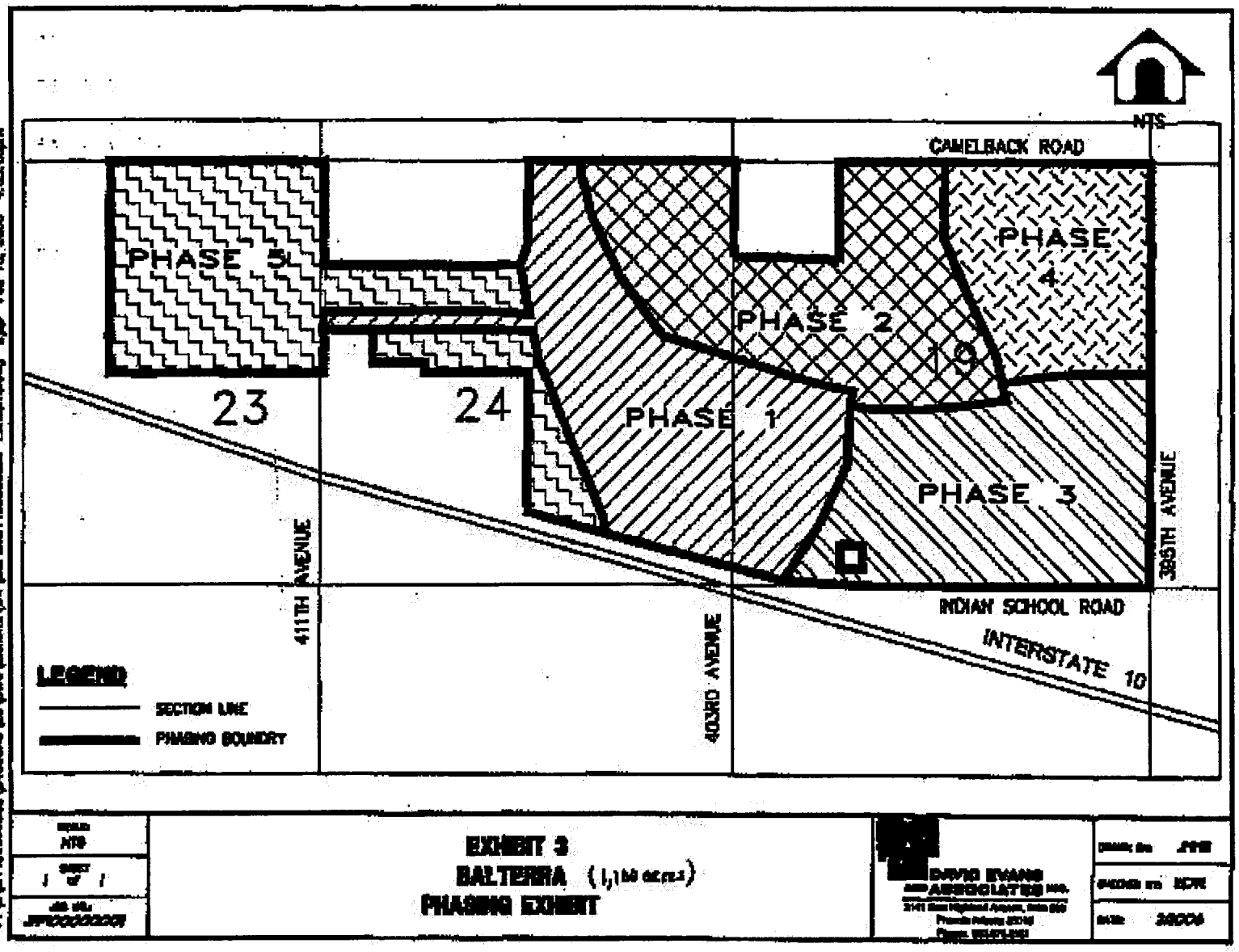

NTS
CAMELBACK ROAD
PHASE 5
PHASE 4
PHASE 2
19
23
24
PHASE 1
PHASE 3
411TH AVENUE
403RD AVENUE
395TH AVENUE
INDIAN SCHOOL ROAD
INTERSTATE 10
LEGEND
SECTION LINE
PHASING BOUNDRY
EXHIBIT 3
BALTERRA (1,160 acres)
PHASING EXHIBIT
DAVID EVANS AND ASSOCIATES INC.

Exhibit I

Bellterra 1,100 Acre Estimated Equivalent Residential DU Demand and Estimated Water System Cost.

Calander Yr	Development Yr	% of Buildout	Equivalent Residential DU/Yr	Total Equivalent Residential DU	Water System Cost
2008	Year 1	14%	860	860	$6,096,034.00
2009	Year 2	24%	1478	2338	$1,625,859.00
2010	Year 3	19%	1158	3496	$1,273,646.00
2011	Year 4	11%	693	4189	$762,328.00
2013	Year 5	31%	1911	6100	$2,102,176.00
TOTAL		100%			$11,860,244.00

Prepared by Jim Condit, Engineer for Bellterra.

Exhibit J

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	Sunshine System PWS #07-071

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
02/05	73	384
03/05	76	406
04/05	80	630
05/05	80	1,050
06/05	80	1,368
07/05	79	1,357
08/05	83	1,059
09/05	84	1,149
10/05	88	939
11/05	87	743
12/05	92	698
01/06	91	463
02/06	104	744
Total		10,990

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
100,000	1	55-802141	130

Other Water Sources in Gallons per Minute →	GPM -
Fire Hydrants on System →	Yes X No
Total Water Pumped Last 13 Months (Gallons in Thousands) →	11,805

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	WPE #1 System PWS #new application

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
02/05	1	3
03/05	1	4
04/05	1	5
05/05	1	6
06/05	1	9
07/05	1	9
08/05	1	5
09/05	1	6
10/05	1	6
11/05	1	4
12/05	2	5
01/06	2	4
02/06	2	4
Total		78

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
5,000	1	55-600209	20

Other Water Sources in Gallons per Minute →	GPM -
Fire Hydrants on System →	Yes X No
Total Water Pumped Last 13 Months (Gallons in Thousands) →	94

* High water usage due to the construction of a new well in 2005.

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	Rose View System PWS #07-082

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
02/05	17	63
03/05	17	74
04/05	16	95
05/05	16	95
06/05	14	137
07/05	14	96
08/05	14	98
09/05	14	92
10/05	15	142
11/05	14	86
12/05	14	118
01/06	15	139
02/06	15	169
Total		1,404

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
10,000	1	55-802143	30

Other Water Sources in Gallons per Minute →	GPM -
Fire Hydrants on System →	Yes X No
Total Water Pumped Last 13 Months (Gallons in Thousands) →	1,582

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	Garden City/Big Horn System PWS #07-037

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
02/05	15	96
03/05	15	99
04/05	15	115
05/05	14	153
06/05	14	188
07/05	15	186
08/05	15	153
09/05	15	226
10/05	15	151
11/05	15	107
12/05	15	101
01/06	15	91
02/06	15	85
Total		1,751

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
20,000	1	55-804131	30
25,000	1		
Other Water Sources in Gallons per Minute →			GPM -
Fire Hydrants on System →			Yes X No
*Total Water Pumped Last 13 Months (Gallons in Thousands) →			2,482

* Well casing damaged in 2005. New well in production. High water usage due to flushing of lines and tank.

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	Tufic WPE #7 System PWS #07-617

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
02/05	6	20
03/05	6	23
04/05	6	36
05/05	6	46
06/05	6	70
07/05	6	57
08/05	6	44
09/05	6	46
10/05	6	41
11/05	6	30
12/05	6	28
01/06	6	30
02/06	6	26
Total		497

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
5,000	1	55-802144	20

Other Water Sources in Gallons per Minute →	GPM -
Fire Hydrants on System →	Yes X No
Total Water Pumped Last 13 Months (Gallons in Thousands) →	520

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	WPE #6 System PWS #07-733

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
02/05	24	51
03/05	25	58
04/05	25	82
05/05	23	153
06/05	23	141
07/05	23	199
08/05	24	126
09/05	23	153
10/05	23	158
11/05	23	110
12/05	23	86
01/06	23	94
02/06	23	97
Total		1,508

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
7,500	1	55-802145	20

Other Water Sources in Gallons per Minute →	GPM -
Fire Hydrants on System →	Yes X No
Total Water Pumped Last 13 Months (Gallons in Thousands) →	1,604

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	Dixie System PWS #07-030

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
02/05	21	107
03/05	24	117
04/05	25	183
05/05	25	341
06/05	23	239
07/05	23	271
08/05	24	198
09/05	24	232
10/05	23	203
11/05	23	177
12/05	23	129
01/06	23	143
02/06	23	135
Total		2,475

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
10,000	1	55-639586	40

Other Water Sources in Gallons per Minute →	GPM -
Fire Hydrants on System →	Yes X No
Total Water Pumped Last 13 Months (Gallons in Thousands) →	2,574

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	B&D/Buckeye Ranch System PWS #07-618

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
02/05	66	226
03/05	67	279
04/05	68	352
05/05	70	526
06/05	70	943
07/05	70	972
08/05	72	733
09/05	74	468
10/05	72	423
11/05	73	398
12/05	75	336
01/06	76	339
02/06	77	343
Total		6,338

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
150,000	1	55-802962	125
5,000	1	55-803811	20

Other Water Sources in Gallons per Minute →	GPM -
Fire Hydrants on System →	Yes X No
Total Water Pumped Last 13 Months (Gallons in Thousands) →	7,134

Exhibit K

Water Utility of Greater Tonopah, Inc.
Balance Sheet
December 31, 2005

ASSETS	
PROPERTY, PLANT & EQUIPMENT	1,299,758.73
Construction in Progress	94,489.97
Accumulated Depreciation	(563,755.76)
TOTAL PROPERTY, PLANT & EQUIP.	830,492.94
CURRENT ASSETS	
Cash	2,757.00
Accounts Receivable	8,864.75
Other Receivable	0.00
Prepaid Expense	0.00
TOTAL CURRENT ASSETS	11,621.75
OTHER ASSETS	
Restricted Cash	3,943.15
Deferred Income Taxes	14,876.00
Deferred CAP Costs Fee	25,344.00
Deposits	0.00
Inter-Co Receivable	0.00
Investments	0.00
TOTAL OTHER ASSETS	44,163.15
TOTAL ASSETS	886,277.84

Water Utility of Greater Tonopah, Inc.
Balance Sheet
December 31, 2005

STOCKHOLDER'S EQUITY & LIABILITIES	
STOCKHOLDER'S EQUITY	
Common Stock	13,500.00
Additional Paid in Capital	643,183.00
Retained Earnings	(523,822.13)
Net Income	(19,320.58)
TOTAL STOCKHOLDER'S EQUITY	113,540.29
LONG-TERM DEBT	
L-T Debt (Net of C/P)	85,909.86
TOTAL LONG-TERM DEBT	85,909.86
CURRENT LIABILITIES	
Current Portion of L-T Debt	3,628.07
Account Payable	0.00
Customer Security Deposits	4,710.00
Current Portion of AIAC	430.48
Accrued Property Taxes	3,012.70
Accrued Sales & Use Taxes	813.41
Accrued Income Tax	0.00
TOTAL CURRENT LIABILITIES	12,594.66
DEFERRED LIABILITIES	
Meter Deposits	63,963.50
Inter-Co Payable	144,730.02
AIAC (Net of C/P)	393,971.42
Contribution for Construction	73,117.69
Amortization of Contributions	(1,549.60)
TOTAL DEFERRED LIABILITIES	674,233.03
TOTAL STOCKHOLDER'S EQUITY & LIABILITIES	886,277.84

Water Utility of Greater Tonopah, Inc.
Income Statement
For the Twelve Months Ending December 31, 2005

	Current Month	Year to Date
Water Sales	12,757.32	166,126.25
Other Operating Revenue	393.41	4,887.63
TOTAL OPERATING REVENUE	13,150.73	171,013.88
OPERATING EXPENSE		
Wages	1,564.65	23,938.13
Employee Benefits	274.16	2,652.56
IRA Contribution	21.83	243.54
Purchased Power	909.24	10,698.11
Repairs & Maintenance	2,592.11	8,198.78
Water Testing & Treat.	638.40	8,129.82
Outside Services	1,904.57	11,102.13
Management Fees	2,500.00	28,270.00
Transportation	0.00	1,088.44
General Office & Admin.	67.49	1,792.46
Rent	300.00	1,670.40
General Insurance	189.39	2,272.68
Depreciation	3,725.69	50,553.32
Rate Case Expense	675.00	3,300.00
Bad Debts	27.99	868.77
Regulatory/Permits	758.80	2,889.86
Payroll Taxes	304.47	2,329.54
Property Taxes	1,019.34	12,231.42
Income Taxes	600.00	7,200.00
TOTAL OPERATING EXPENSES	18,355.52	186,621.15
EARNINGS (LOSS) FROM OPERATIONS	(5,204.79)	(15,607.27)
OTHER INCOME (EXPENSE)		
Interest Income	0.00	0.00
Interest Expense	(321.93)	(4,218.31)
Other Income (Expense)	0.00	505.00
Income (Tax) Benefit	0.00	0.00
TOTAL OTHER INCOME (EXPENSE)	(321.93)	(3,713.31)
NET EARNINGS (LOSS)	(5,726.72)	(19,320.58)

Exhibit L

Highways), within that portion of Maricopa County, Arizona, known and described as follows, to-wit:

Legal Description: See Exhibit A, attached.

and not within the confines of any incorporated city or town, and under such restrictions and limitations and upon such terms as the Board of Supervisors may provide, not inconsistent with the laws of the State of Arizona, or the orders and rules of the Corporation Commission of the State of Arizona, and that the Board take such proceedings herein as is provided by the laws of the State of Arizona; and

WHEREAS, upon filing said Application, the said Board of Supervisors on the 20th day of March, 1989, ordered that public notice of the intention of said Board to make such grants be given by publishing a notice in the official newspaper of Maricopa County, State of Arizona, and that 9:00 a.m., on the 17th day of April, 1989, at the meeting room of said Board of Supervisors located at 205 West Jefferson Street in the City of Phoenix, Arizona, be set as the time and place of hearing the said Application; and

WHEREAS, the said Application coming on regularly for hearing on said day and it appearing by the affidavit of the duly authorized agent of the newspaper said time and place set for the consideration of such Application has been published for at least once a week for the three-week period prior to said date set forth herein, to wit:

http://image.azcc.gov/scripts/cgi/dwisdocket2.pl?COMMAND=4&SESSIONID=bjGvgBjRUhnXxy2zyF... 7/30/2007

1
2
3 Highways), within that portion of Maricopa County, Arizona, known
4 and described as follows, to-wit:
5 Legal Description: See Exhibit A, attached.
6 and not within the confines of any incorporated city or town, and
7 under such restrictions and limitations and upon such terms as the
8 Board of Supervisors may provide, not inconsistent with the laws
9 of the State of Arizona, or the orders and rules of the
10 Corporation Commission of the State of Arizona, and that the Board
11 take such proceedings herein as is provided by the laws of the
12 State of Arizona; and
13 WHEREAS, upon filing said Application, the said Board of
14 Supervisors on the 20th day of March, 1989, ordered that public
15 notice of the intention of said Board to make such grants be given
16 by publishing a notice in the official newspaper of Maricopa
17 County, State of Arizona, and that 9:00 a.m., on the 17th day of
18 April, 1989, at the meeting room of said Board of Supervisors
19 located at 205 West Jefferson Street in the City of Phoenix,
20 Arizona, be set as the time and place of hearing the said
21 Application; and
22 WHEREAS, the said Application coming on regularly for
23 hearing on said day and it appearing by the affidavit of the duly
24 authorized agent of the newspaper said time and place set for the
25 consideration of such Application has been published for at least
26 once a week for the three-week period prior to said date set forth
27 herein, to wit:
28

In the issues of the said newspaper on March 29, April 5, and 12, 1989, and it appearing that no sufficient protest has been filed by the qualified electors of the said County petitioning said Board of Supervisors to deny such license and franchise, and it further appearing the best interest of Maricopa County will be served by the granting of said Application and the Franchise referred to therein;

NOW, THEREFORE, the Board of Supervisors of Maricopa County, State of Arizona, acting on behalf of said County does hereby grant unto the Water Utility of Greater Tonopah, Inc., doing business in Maricopa County, Arizona, subject to the terms, conditions and limitations hereinafter contained, the right, privilege, license and franchise to construct, maintain and operate a domestic water distribution system, for a period not to exceed 25 years or for a period of one (1) year after the franchised area is annexed by a municipality, whichever is shorter, for the supplying of this service along, upon, under and across the public highways, roads, alleys and thoroughfares (excepting State Highways) within that portion of Maricopa County, Arizona, hereinabove described, under such restrictions and limitations and upon such terms as this Board at any time may provide, not inconsistent with the laws of the State of Arizona, or the orders and rules of the Corporation Commission of the State of Arizona, specifically providing, however, that:

1) All rights hereunder are granted under the express condition that the Board of Supervisors of said Maricopa County shall have the power at any time to impose such restrictions and limitations and to make such regulations on such highways, roads, and thoroughfares as may be deemed best for the public safety, health, welfare and convenience.

2) All rights hereby granted shall be exercised so as not to interfere or conflict with any easements, or rights-of-way heretofore granted by said Board of Supervisors and now in force.

3) All rights hereby granted shall be exercised so as not to interfere or conflict with any easement, either public or private, of whatsoever nature, which has been acquired in or to the proper use of said highway, roads, and thoroughfares, or any portion thereof.

4) All rights hereby granted shall be exercised so as not to interfere or conflict with or endanger in any way the proper use by the public of said highways, roads, and thoroughfares, or any portion thereof.

5) That the said Grantee shall bear all expenses incurred including damages and compensation for the alteration of the course, direction, surface, grade

or alignment of any of the said highways, roads and thoroughfares necessarily made by the said Grantee for the purpose of this Franchise; that said Grantee will maintain his equipment from time to time as the same may be needed, without the necessity of notice from Maricopa County. In the event the said Grantee shall fail to make any repairs within ten days from the time same becomes necessary, then Maricopa County may cause the same to be made, and said Grantee agrees to pay Maricopa County the cost thereof.

6) That all property of the franchise be installed and operated by the said Grantee and shall be placed, removed or relocated, initially and throughout the term of this Franchise, along, in, over, under and across the said highways, roads and thoroughfares, in such a manner and location as the Board of Supervisors or its duly authorized agents may designate. Such placement, removal or relocation shall be done at the sole expense of the Grantee upon a determination by the Board of Supervisors of Maricopa County that such placement, removal or relocation is necessary.

If the Grantee fails or refuses to so remove or relocate, Maricopa County may so remove or relocate, at the sole

expense of Grantee, such expense to include any and all damages and compensation of whatsoever nature arising therefrom.

In this section the term "property" includes conduits, pipe, wires, poles, or other structures and appliances used to supply or deal in gas, electricity, lights, water, heat, refrigeration, power, telephones, telagraph, television and other public utilities.

Any finding or determination made by the Board of Supervisors pursuant hereto shall be final and binding upon the Grantee whether or not such findings or determinations relate to the requirements of public safety or welfare, the use of public roads or the need for proposed improvements, and whether or not the function to be served by such removal or relocation is of a governmental or proprietary nature.

7) That said Grantee shall indemnify and save harmless the said County of Maricopa from all costs, expenses and liabilities in connection with the granting of this Franchise and exercise of the same by them.

8) That the rights of any person claiming to be injured in any manner by the maintenance of said projects and equipment shall not be affected hereby.

9) That the terms and conditions of this Franchise shall inure to the benefit of, and be binding upon, all the heirs and assigns of the said Grantee.

10) That the franchise and privilege herein granted shall not be deemed to be exclusive and the said Board of Supervisors hereby expressly reserves the right and power to grant from time to time similar franchises and privileges over the same territory and highways, roads and thoroughfares.

11) This Franchise is granted upon the express condition that a Certificate of Convenience and Necessity be procured from the Corporation Commission of the State of Arizona within six months from the date of granting of this Franchise; and if such Certificate is not granted within twelve months from said date, then this Franchise to be void, otherwise to be in full force and effect for the time herein specified.

12) All materials and construction methods used within the public right-of-way shall conform to the applicable standards, specifications and special provisions currently in effect in Maricopa County.

13) The Franchise holder shall obtain a construction permit from the office of the County Engineer prior to construction of any facilities in the public right-of-way.

DATED this 17th day of April, 1989.

Fred Koury, Jr.
Chairman

ATTEST:
Irene Lamington
Clerk

EXHIBIT A

LEGAL DESCRIPTION

FRANCHISE: WATER UTILITY OF GREATER TONOPAH, INC.

T1N R10W: §§ 12,13

T1N R9W: §§ 1,2,3,7,8,9,10,11,12,16,17,18

T1N R8W: §§ 1,2,3,4,5,6

T2N R9W: §§ 12,13,24,25,36

T2N R8W: §§ 7,8,9,10,11,12,
13,14,15,16,17,18,
19,20,21,22,23,24,
25,26,27,28,29,30
31,32,33,34,35,36

T2N R7W: §§ 7,8,9,10,11,
13,14,15,16,17,18,
19,20,21,22,23,24,
25,26,27,28,29, 30,
31,32,33,34,35,36

T1N R7W: §§ 1,2,3,4,5,6,
10,11,12,13,14,15,
22,23,24

T2N R6W: §§ 18,19,20,21,22,23
25,26,27,28,29,30,
31,32,33,34,35,36

T1N R6W: §§ 1,2,3,4,5,6,
7,8,9,10,11,12,
13,14,15,16,17,18,
19,20,21,22,23,24,
25,E1/2 26,36

T1S R6W: § 1

T2N R5W: §§ 27,28,29,30
31,32,33,34

T1N R5W: §§ 3,4,5,6,
7,8,9,10,
15,16,17,18,
19,20,21,22,
27,28,29,30,
31,32,33,34

http://image.azcc.gov/scripts/cgi/dwisdocket2.pl?COMMAND=4&SESSIONID=bjGvgBjRUhnXxy2zyF... 7/30/2007

T1S R5W: §§ 3,4,5,6,7,8,9,10

of the Gila and Salt River Base and Meridian, Maricopa County, Arizona.

EXHIBIT M

PUBLIC NOTICE OF AN APPLICATION FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY BY WATER UTILITY OF GREATER TONOPAH, INC.

Water Utility of Greater Tonopah, Inc. has filed with the Arizona Corporation Commission ("Commission") an application for an extension of its Certificate of Convenience and Necessity to provide water service. Our records indicate that you are either currently a customer of Water Utility of Greater Tonopah, Inc. or are a property owner in the proposed extension area. If the application is granted, Water Utility of Greater Tonopah, Inc. would be the exclusive provider of water service to the proposed area. Water Utility of Greater Tonopah, Inc. will be required by the Commission to provide this service under the rates and charges and terms and conditions established by the Commission. The granting of the application would not necessarily prohibit an individual from providing service to themselves from individually owned facilities on their property. The application is available for inspection during regular business hours at the offices of the Commission in Phoenix at 1200 W. Washington Street, and at Water Utility of Greater Tonopah, Inc. in Phoenix at 3800 N. Central Avenue, Suite 770.

The Commission will hold a hearing on this matter. As a property owner, or customer, you may be entitled to intervene in the proceeding. If you do not want to intervene, you may appear at the hearing and make a statement on you own behalf. You may contact the Commission at the address and telephone number listed below for the date and time of the hearing and for more information on intervention. You may not receive any further notice of the proceeding unless requested by you.

If you have any questions or concerns about this application or have any objections to its approval, or wish to make a statement in support of it, you may contact the Consumer Services Section of the Commission at 1200 W. Washington Street, Phoenix, Arizona, 85007 or call 1-800-222-7000/400.

EXHIBIT 2

BEFORE THE ARIZONA CORPORATION COMMISSION

RECEIVED

2007 JUN 14 P 4: 12

AZ CORP COMMISSION
DOCKET CONTROL

EXHIBIT
A-2
admitted

COMMISSIONERS
MIKE GLEASON, CHAIRMAN
WILLIAM A. MUNDELL
JEFF HATCH-MILLER
KRISTIN K. MAYES
GARY PIERCE

IN THE MATTER OF THE APPLICATION OF WATER UTILITY OF GREATER TONOPAH, INC., AN ARIZONA CORPORATION, FOR AN EXTENSION OF ITS EXISTING CERTIFICATE OF CONVENIENCE AND NECESSITY.

Docket No. W-02450A-06-0253

NOTICE OF FILING AFFIDAVIT OF PUBLICATION AND AFFIDAVIT OF MAILING

The Water Utility of Greater Tonopah ("Tonopah"), submits the attached affidavit of publication and affidavit of mailing.

RESPECTFULLY SUBMITTED this 14th day of June 2007.

ROSHKA DEWULF & PATTEN, PLC

By _____
Timothy J. Sabo
One Arizona Center
400 East Van Buren Street, Suite 800
Phoenix, Arizona 85004

Original + 13 copies of the foregoing filed this 14th day of June, with:

Docket Control
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Copies of the foregoing hand-delivered/mailed this 14th day of June 2007, to:

Lyn A. Farmer, Esq.
Chief Administrative Law Judge
Hearing Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Christopher C. Kempley, Esq.
Chief Counsel, Legal Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Ernest G. Johnson, Esq.
Director, Utilities Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

By _____

ROSHKA DEWULF & PATTEN, PLC
ONE ARIZONA CENTER
400 EAST VAN BUREN STREET - SUITE 800
PHOENIX, ARIZONA 85004
TELEPHONE NO 602-256-6100
FACSIMILE 602-256-6800

WEST VALLEY BUSINESS

200 W. Wigwam Blvd., Litchfield Park, Az. 85340-4636 ❖ (623) 535-8439 ❖ Fax: (623) 935-2103

AFFIDAVIT OF PUBLICATION

State of Arizona

County of Maricopa

I, Elliott Freireich, publisher of West Valley View and West Valley Business, newspapers of general circulation in Avondale, Buckeye, Goodyear, Litchfield Park and Tolleson, Arizona, attest that the legal advertisement for

Water Utility of Greater Tonopah, Inc.
Public notice - Hearing for an extension of its certificate of convenience and necessity
Docket number W-02450A-06-0253

will be / ~~has~~ been published on June 12, 2007.

Elliott Freireich
President, West Valley View Inc.

June 12, 2007.
~~Date~~

SUBSCRIBED AND SWORN TO BEFORE ME ON THE

12 DAY OF June (Month), 2007 (YEAR)

NOTARY SIGNATURE: Rene Leeann Hartmann

NOTARY PUBLIC
STATE OF ARIZONA
Maricopa County
RENE LEEANN HARTMANN
My Appointment Expires 09/30/07

W:\WV_BIZ\WVBiz Content\SBAFFIDAV.INDD

PUBLIC NOTICE OF HEARING IN THE MATTER OF THE APPLICATION OF WATER UTILITY OF GREATER TONOPAH, INC., AN ARIZONA CORPORATION, FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY. DOCKET NUMBER W-02450A-06-0253

On April 14, 2006, Water Utility Of Greater Tonopah, Inc., an Arizona Corporation, ("Applicant") filed with the Arizona Corporation Commission ("Commission") an application for an extension of its Certificate of Convenience and Necessity to provide domestic water service in portions of Section 19, Township 2 North, Range 6 West, Gila & Salt River Basin and Meridian, in Maricopa County, Arizona. The extension area includes portions of the Balterra Development. The Commission's Utilities Division Staff ("Staff') has not yet made a recommendation regarding the application, and the Commission is not bound by the proposals made by the Applicant, Staff, or any intervenors. The Commission will issue a decision regarding the application following consideration of testimony and evidence presented at an evidentiary hearing.

If the application is granted, the Applicant would be the exclusive provider of water utility service in the proposed extension area and would be required by the Commission to provide service under rates and charges and terms and conditions established by the Commission. Copies of the application will be available at the Applicant's offices located at Global Water, 21410 N. 19th Ave. Suite 201, Phoenix, AZ 85027 and the Commission's offices at 1200 West Washington, Phoenix, Arizona, for public inspection during regular business hours and on the internet via the Commission website (www.azcc.gov) using the e-docket function. The Commission will hold a hearing on this matter beginning July 31, 2007, at 1:30 p.m., at the Commission's offices, 1200 West Washington, Phoenix, Arizona. Public comments will be taken on the first day of the hearing. Written public comments may be submitted via email (visit http://www.azcc.gov/utility/cons/index.htm for instructions), or by mailing a letter referencing Docket Number W-02450A-06-0253 to: Arizona Corporation Commission, Consumer Services Section, 1200 West Washington, Phoenix, AZ 85007. If you require assistance, you may contact the Consumer Services Section at 1-800-222-7000.

The law provides for an open public hearing at which, under appropriate circumstances, interested parties may intervene. Any person or entity entitled by law to intervene and having a direct and substantial interest in the matter will be permitted to intervene. If you would like to intervene, you must file a written motion to intervene with the Commission, and you must send copies of the motion to the Applicant or its counsel, and to all parties of record in the case. Your motion to intervene must contain the following:

1. Your name, address, and telephone number, and the name, address, and telephone number of any party upon whom documents are to be served in your place, if desired.
2. A short statement of your interest in the proceeding (e.g., a customer of the Applicant, a shareholder of the Applicant, etc.).
3. A statement certifying that a copy of your motion to intervene has been mailed to the Applicant or its counsel and to all parties of record in the case.

Arizona Administrative Code R14-3-105 governs the granting of intervention, except that all motions to intervene must be filed on or before **July 13**, 2007. The granting of intervention, among other things, will entitle an intervener to present sworn evidence at hearing and to cross-examine other witnesses. However, failure to intervene will not preclude any customer from appearing at the hearing and making a statement on such customer's own behalf.

The Commission does not discriminate on the basis of disability in admission to its public meetings. Persons with a disability may request a reasonable accommodation such as a sign language interpreter, as well as request this document in an alternative format, by contacting the ADA Coordinator Linda Hogan, E-mail Lhogan@azcc.gov, voice phone number (602)542-3931. Requests should be made as early as possible to allow time to arrange the accommodation.

Published in the West Valley View, and the West Valley Business, on June 12, 2007.

AFFIDAVIT OF MAILING

AFFIDAVIT OF PROOF OF MAILING
Docket No. W-02450A-06-0253

STATE OF ARIZONA)
) ss.
County of Maricopa)

I, Graham Symmonds, states as follows:

1. I am the CTO of Compliance & Regulatory Affairs for Global Water Resources.

2. I certify that a copy of the attached notice, pursuant to Procedural Order issued June 6th, 2007 in Docket No. W-02450A-06-0253was mailed via U.S. First-Class Mail on June 12th, 2007 to all landowners within the requested extension area of Water Utility of Greater Tonopah.

Graham Symmonds

SUBSCRIBED AND SWORN to before me by Graham Symmonds, this 12th day of June, 2007.

Notary Public

My Commission Expires: 4/18/2009

Jennie L Critchfield
Notary Public - Arizona
Maricopa County
My Commission Expires
April 18, 2009

PUBLIC NOTICE OF HEARING IN THE MATTER OF THE APPLICATION OF WATER UTILITY OF GREATER TONOPAH, INC., AN ARIZONA CORPORATION, FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY. DOCKET NUMBER W-02450A-06-0253

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EXHIBIT 3

FILE COPY

BEFORE THE ARIZONA CORPORATION COMMISSION

RECEIVED

2007 MAY 16 A 11: 39

AZ CORP COMMISSION
DOCKET CONTROL

EXHIBIT
A-3
admitted

COMMISSIONERS
MIKE GLEASON – Chairman
WILLIAM A. MUNDELL
JEFF HATCH-MILLER
KRISTIN K. MAYES
GARY PIERCE

IN THE MATTER OF THE APPLICATION OF WATER UTILITY OF GREATER TONOPAH, INC., AN ARIZONA CORPORATION, FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY.	DOCKET NO. W-02450A-06-0253 **NOTICE OF FILING AMENDED ENGINEERING DATA**

The Water Utility of Greater Tonopah ("Tonopah") files the attached Preliminary Design Report, which was provided to Staff by email on January 12, 2007. This report supersedes the engineering data in the original application in this case.

RESPECTFULLY SUBMITTED this 16th day of May 2007.

ROSHKA DEWULF & PATTEN, PLC

By _____

Michael W. Patten
Timothy J. Sabo
One Arizona Center
400 East Van Buren Street, Suite 800
Phoenix, Arizona 85004

Original and 13 copies of the foregoing filed this 16th day of May 2007 with:

Docket Control
Arizona Corporation Commission
1200 West Washington Street
Phoenix, Arizona 85007

Copy of the foregoing hand-delivered/mailed this 16th day of May 2007 to:

Lyn Farmer, Esq.
Chief Administrative Law Judge
Hearing Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Christopher C. Kempley
Chief Counsel, Legal Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Ernest G. Johnson, Esq.
Director, Utilities Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

By Debbie Amaral

ROSHKA DEWULF & PATTEN, PLC
ONE ARIZONA CENTER
400 EAST VAN BUREN STREET - SUITE 800
PHOENIX, ARIZONA 85004
TELEPHONE NO 602-256-6100
FACSIMILE 602-256-6800

WATER UTILITY OF GREATER TONOPAH, INC.

Balterra CCN Expansion Area
Preliminary Design Report

Prepared for:

Water Utility of Greater Tonopah, Inc.
22601 N. 19th Avenue
Phoenix, AZ 85027

Submitted to:

Arizona Corporation Commission
1200 W. Washington Street
Phoenix, AZ 85007
Docket No. W-02450A-06-0253

Prepared by:

Jason Bethke, PE
Bethke Engineering
4120 E. Earll Drive
Phoenix, AZ 85018

January 12, 2007

Registered Professional Engineer (Civil)
CERTIFICATE NO.
33976
JASON C.
BETHKE
Date Signed 1/12/07
ARIZONA, U.S.A.

TABLE OF CONTENTS

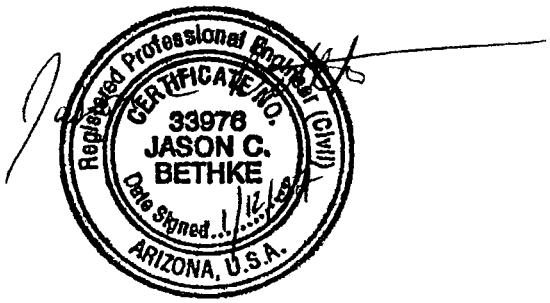
A. Introduction	**3**
B. Development Projections	**3**
C. Infrastructure Required to Serve Entire Balterra Development	**4**
D. Infrastructure Required to Serve CCN Expansion Area	**5**
E. Conceptual Plan for Providing Service to Entire Balterra Development	**6**
F. Responses to Questions Posed by Dorothy Hains on 12-11-06	**9**

Tables

Table 1 – EDU Estimates for Entire Balterra Development	**3**
Table 2 – EDU Estimates for CCN Expansion Area	**3**
Table 3 – Cumulative Water Requirements for Entire Balterra Development	**4**
Table 4 – Cumulative Infrastructure Requirements for Entire Balterra Development	
Table 5 – Unit Costs	**5**
Table 6 - Infrastructure Costs for the Entire Balterra Development	**5**
Table 7 – Cumulative Infrastructure Requirements for CCN Expansion Area	**5**
Table 8 – Infrastructure Costs for CCN Expansion Area	**6**
Table 9 – Waste Generation and Evaporation Calculations for the Entire Balterra Development	**8**

Figures

Figure 1 – Conceptual Land Use Plan for Entire Balterra Development	**6**
Figure 2 – Preliminary Water Campus for Entire Balterra Development	**6**



A. INTRODUCTION

In 2006, Global Water Management, LLC acquired the assets of the West Maricopa Combine, Inc., which includes the Water Utility of Greater Tonopah, Inc. (WUGT). The WUGT is currently expanding their Certificate of Convenience and Necessity (CCN) to include the entire Balterra Development; the current CCN includes only a portion of the Balterra Development.

This document is intended to clarify how WUGT intends to serve the entire Balterra Development, including areas within and outside the existing CCN boundary. The entire Balterra development covers 1100 acres, while the extension area only covers 480 of that total, or approximately 44%.

B. DEVELOPMENT PROJECTIONS

Development projections are based on information provided to WUGT by Balterra developers. The development is primarily comprised of small lot residential uses, with interspersed medium lot residential and office/retail uses. The estimated equivalent dwelling units (EDUs) to be constructed by the entire Balterra Development are presented in **Table 1 – EDU Estimates for Entire Balterra Development**. **Table 2 – EDU Estimates for CCN Expansion Area** addresses only the portion of the Balterra Development that is not included in the current CCN. The values in this table were generated by proportioning the EDUs based on land area. Both tables include EDU projections for the first five years and build-out.

Table 1 – EDU Estimates for Entire Balterra Development						
1100 acres						
Description	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Build-out**
EDU Estimated for Entire Balterra Development	300	780	1260	1870	2770	6100

Table 2 – EDU Estimates for CCN Expansion Area						
480 acres						
Description	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Build-out**
EDU Estimated for CCN Expansion Area	131	340	550	816	1209	2662

C. INFRASTRUCTURE REQUIRED TO SERVE BALTERRA DEVELOPMENT

The primary infrastructure required to service the development will include wells, storage reservoirs, booster stations and treatment systems. The design conditions for these facilities were developed using the following assumptions:

- Average Water Usage — 120 gallons per capita, per day
- Population per EDU — 3.0
- Maximum Day Demand Factor — 2
- Peak Hour Water Demand Factor — 3.4
- Fire Flow — 1,500 gallons per minute (gpm)

Table 3 – Cumulative Water Requirements for Entire Balterra Development presents water requirements based on the EDU and design assumptions identified above.

Table 3 – Cumulative Water Requirements for Entire Balterra Development

Description	Year 1	Year 2	Year 3	Year 4	Year 5	Buildout
Average Day Water Demand (gpd)	108,000	280,800	453,600	673,200	997,200	2,196,000
Maximum Day Water Demand (gpd)	216,000	561,600	907,200	1,346,400	1,994,400	4,392,000
Peak Hour Water Demand (gpd)	367,200	954,720	1,542,240	2,288,880	3,390,480	7,466,400

Utilizing these water requirements, infrastructure requirements were developed for the first five years of the entire Balterra Development as presented in **Table 4 – Cumulative Infrastructure Requirements for the Entire Balterra Development**. Storage requirements were based providing storage for average day peak month with one well out of service and an 80 percent service factor. Please note it is expected the first phase of the reservoir construction will exceed this projection. Booster station pumping requirements were based on meeting maximum day plus fire flow or peak hour, whichever was greater.

Table 4 – Cumulative Infrastructure Requirements for the Entire Balterra Development

Description	Year 1	Year 2	Year 3	Year 4	Year 5	Buildout
Wells (500 gpm estimated production)	2	2	2	2	2	4
Storage Requirement (MG)	0.0	0.0	0.0	0.2	0.8	2.8
Booster Station Capacity (gpm)	1,650	1,890	2,130	2,435	2,885	5,185
Treatment System Capacity (gpd) (Avg Day x 1.5)	162,000	421,200	680,400	1,009,800	1,495,800	3,294,000

Table 5 – Unit Costs were developed to estimate the costs of providing service to the Balterra Development. Please note that treatment of the arsenic and fluoride waste stream is necessary to prevent discharging this waste to a sewer. These costs were developed in more detail in Section E – Conceptual Plan for Serving the Entire Balterra Development of this document, but are included here to capture all applicable costs.

Table 5 - Unit Costs		
Description	Unit	Unit Cost
Wells	gpm	$1,500.00
Storage Reservoirs	gal	$1.00
Booster Stations	gpm	$500.00
Arsenic and Fluoride Treatment Systems	gpd	$1.00
Wastewater Treatment for Arsenic and Fluoride Treatment Systems – Years 1-5 Requirement	EA	$600,000

Combining Table 4 – Cumulative Infrastructure Requirements for the Entire Balterra Development and **Table 5 – Unit Costs produces Table 6 - Infrastructure Costs for the Entire Balterra Development**. This cost estimate is representative of the five year planning window. As such, the well and a one million gallon storage reservoirs will be installed during the first year of construction, while expandable systems (treatment and booster stations) will be initially built in year one and expanded in year 3.

Table 6 - Infrastructure Costs for Entire Balterra Development							
1100 Acres							
Description	Year 1	Year 2	Year 3	Year 4	Year 5	Total Years 1-5	Build-out
Wells	$1,500,000	$0	$0	$0	$0	$1,500,000	$3,000,000.00
Storage Reservoirs	$782,775	$0	$0	$0	$0	$782,775	$2,805,750.00
Booster Stations	$1,065,000	$0	$377,500	$0	$0	$1,442,500	$2,592,500.00
Treatment Systems	$680,400	$0	$815,400	$0	$0	$1,495,800	$3,294,000.00
Treatment System Waste Treatment	$400,000	$0	$200,000	$0	$0	$600,000	$1,321,299.64
Totals	**$4,428,175**	**$0**	**$1,392,900**	**$0**	**$0**	**$5,821,075**	**$13,013,549.64**

As Table 6 –Infrastructure Costs for the Entire Balterra Development presents the costs for the entire 1100 acres, it is necessary to provide similar information for the portion of the 1100 acre Balterra Development that is not currently located within the existing CCN. This analysis is included in Section D. Infrastructure Required to Serve CCN Expansion Area.

D. INFRASTRUCTURE REQUIRED TO SERVE CCN EXPANSION AREA

The infrastructure required to serve the CCN expansion area is provided with the estimated cost sharing for the infrastructure, as determined by land area.

Table 7 – Cumulative Infrastructure Requirements for CCN Expansion Area presents the cumulative infrastructure required for only the CCN expansion area.

Table 7 – Cumulative Infrastructure Requirements for CCN Expansion Area						
Description	Year 1	Year 2	Year 3	Year 4	Year 5	Buildout
Wells (1,000 gpm estimated production)	1	1	1	1	1	1
Storage Requirement (MG)	0.05	0.12	0.20	0.29	0.44	0.96
Booster Station Capacity (gpm)	720	825	929	1,063	1,259	2,263
Treatment System Capacity (gpd) (Avg Day x 1.5)	70,691	183,796	296,902	440,640	652,713	1,437,382

The required infrastructure for the CCN expansion area cost estimates was identified using **Table 5 – Unit Costs. Table 8 – Infrastructure Costs for CCN Expansion Area** presents the infrastructure costs for the CCN expansion area.

Table 8 - Infrastructure Costs for CCN Expansion Area							
480 Acres							
Description	Year 1	Year 2	Year 3	Year 4	Year 5	Total Years 1-5	Build-out
Wells	$654,545	$0	$0	$0	$0	$654,545	$1,309,090.91
Storage Reservoirs	$341,575	$0	$0	$0	$0	$341,575	$1,224,327.27
Booster Stations	$464,727	$0	$164,727	$0	$0	$629,455	$1,131,272.73
Treatment Systems	$296,902	$0	$355,811	$0	$0	$652,713	$1,437,381.82
Treatment System Waste Treatment	$174,545	$0	$87,273	$0	$0	$261,818	$576,567.12
Totals	$1,932,295	$0	$607,811	$0	$0	$2,540,105	$5,678,639.84

E. CONCEPTUAL PLAN FOR PROVIDING SERVICE TO BALTERRA

The Balterra Development conceptual land use plan presented in **Figure 1 – Conceptual Land Use Plan for the Entire Balterra Development** (provided by David Evans and Associates, Inc.) presents the proposed location of the water distribution facility (water campus) at Camelback Road and approximately 405th Avenue. **Figure 2 – Preliminary Water Campus for the Entire Balterra Development** presents the build-out of the proposed water campus.

Implementation

Several alternatives are being considered to regionalize the distribution of water facilities within the WUGT service area. However, because a final decision is pending, it is necessary to provide a description of the plan to serve the first five years of the entire Balterra Development, both within and outside the existing CCN boundary.

Prior to construction of housing units within the Balterra Development, the following facilities will be constructed on the proposed water campus:

- A one-million gallon water reservoir
- A 5000 gallon pressure tank to provide for surge protection
- A booster station with a firm capacity of 2,885 gpm complete with variable speed drives. The booster station will initially be constructed to provide the capacity projected at year three. Phase 2 of the booster station will increase the firm capacity to 2,885 gpm.
- Two wells estimated to produce 500 gpm each for a total of 1000 gpm

Because the arsenic and fluoride concentrations documented in the vicinity exceed maximum contaminant levels established under the Safe Drinking Water Act, treatment for both appears to be required. Thus in addition to the facilities described above, the following will be constructed:

- A media-based arsenic/fluoride treatment system – The proposed media system is an activated alumina media system followed by a granular ferric hydroxide (GFH). The activated alumina will remove fluoride and a portion of the arsenic. GFH media will

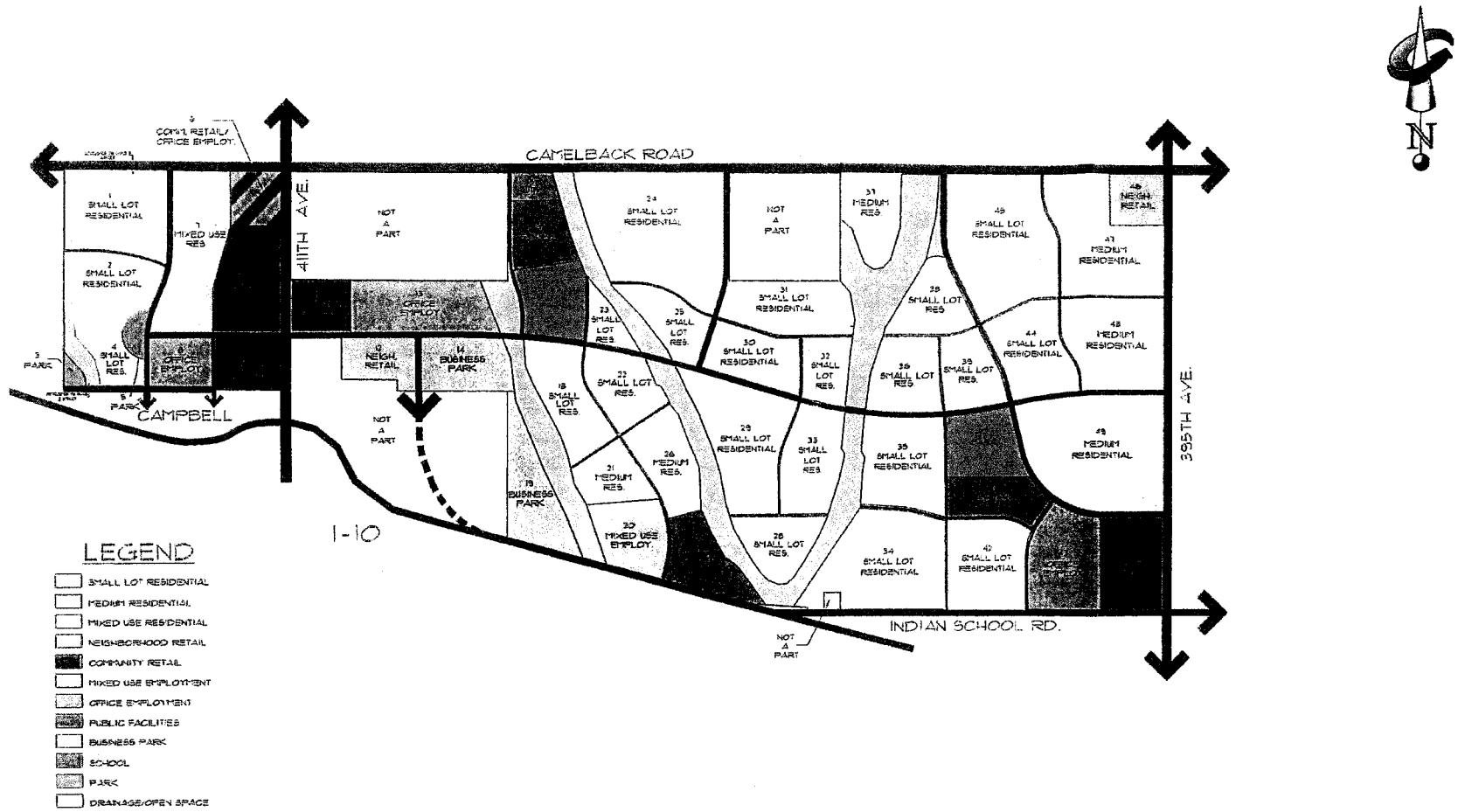


FIGURE 1

BALTERRA CONCEPTUAL LAND USE PLAN

GLOBAL WATER
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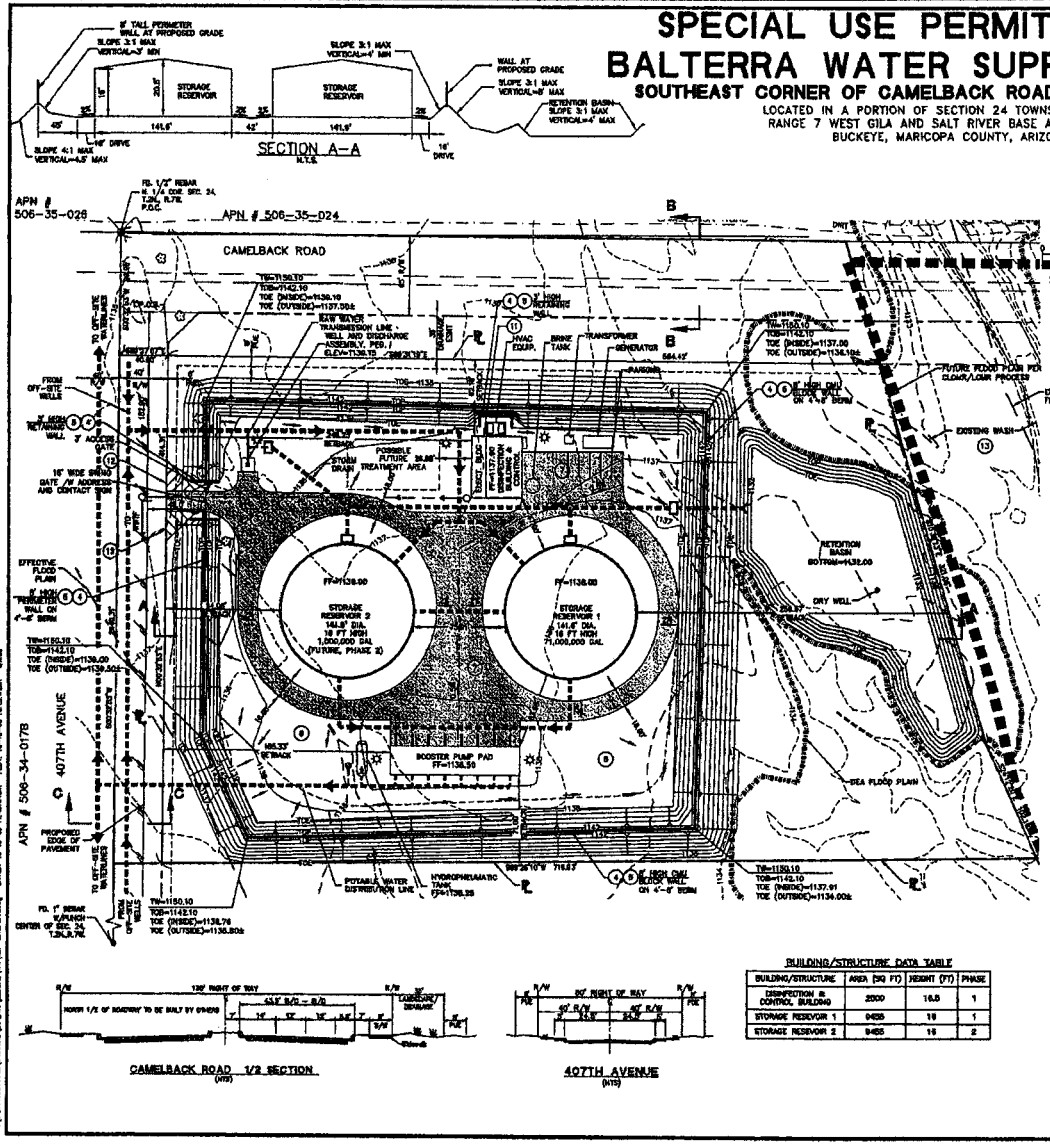
Ph: 623.580.9600 · Fx: 623.580.9659
www.gwresources.com

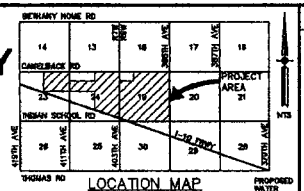
Drawn By: BB	Date: 1/07	Sheet: 1 OF 1	
App'vd By:	Date:	Drawing Number:	
Scale: NTS			

SPECIAL USE PERMIT FOR THE BALTERRA WATER SUPPLY FACILITY

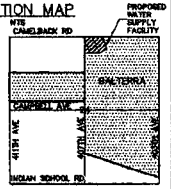
SOUTHEAST CORNER OF CAMELBACK ROAD AND 407TH AVENUE

LOCATED IN A PORTION OF SECTION 24 TOWNSHIP 2 NORTH, RANGE 7 WEST GILA AND SALT RIVER BASE AND MERIDIAN, BUCKEYE, MARICOPA COUNTY, ARIZONA





LOCATION MAP



VICINITY MAP

NOTES:

1. SEE LANDSCAPE PLANS FOR LANDSCAPE AREAS, LOCATIONS OF RE-VEGETATION, AND SITE ELEVATIONS
2. THERE ARE NO EXISTING UTILITIES IN THE AREA.
3. NO REFUSE COLLECTION WILL BE REQUIRED FOR THIS SITE.
4. WALL FACADE SHALL MATCH THEME WALL FOR SURROUNDING DEVELOPMENT
5. WALLS SHALL BE REINFORCED & GROUTED.
6. FINISH FLOOR ELEVATIONS ARE A MINIMUM OF 1 FOOT ABOVE THE 100-YEAR STORM WATER SURFACE ELEVATION.
7. 3" AC/10" ABC PAVED DRIVEWAY AND PARKING AREA.
8. 3/4" MINUS STONE OVER COMPACTED ABC.
9. ALL LIGHTING SHALL COMPLY WITH SECTION 1112 OF THE ZONING ORDINANCE.
10. SIGNAGE ON ACCESS GATE WILL NOT INCLUDE LIGHTING.
11. BUILDING FOOTPRINT EQUALS 2,500 SQ FT. BUILDING HEIGHT EQUALS 16.5 FT.
12. 25' x 25' SIGHT VISIBILITY TRIANGLES
13. SEE WATER SUPPLY FACILITY PRELIMINARY DRAINAGE REPORT, EXHIBIT D – EXISTING 100-YEAR FLOOD PLAIN FOR DISCHARGE RATES, WATER SURFACE ELEVATIONS AND HYDRAULIC CROSS SECTIONS FROM THE PALO VERDE FLOOD PLAIN DELINEATION STUDY.

PROJECT:
BALTERRA

SCHOOL DISTRICT:
SADDLE MOUNTAIN UNIFIED SCHOOL DISTRICT

UTILITIES:
WATER.....WATER UTILITY OF GREATER TONOPAH (WUGT)
SEWER.....BALTERRA SEWER CORPORATION
ELECTRIC.....APS ELECTRIC
REFUSE.....PARADISE WASTE/ALLIED WASTE INDUSTRIES
PHONE.....QWEST

BENCHMARK:
FOUND BENCH MARK DISK
DESIGNATION – Y 475
NGS PID – DV1287
*CURRENT SURVEY CONTROL
*NAD 83 – 33°28'37"(N) 112°04'18"(W)
*NAVD 88 – 1107.44(FEET)
VERT ORDER – FIRST CLASS II

BASIS OF BEARINGS:
EAST LINE OF THE NORTHEAST QUARTER OF SECTION 19, TOWNSHIP 2 NORTH, RANGE 6 WEST, BEARING N 00°32'10" E

LEGAL DESCRIPTION:
A PORTION OF THE NORTHEAST QUARTER OF SECTION 24, TOWNSHIP 2 NORTH, RANGE 7 OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A 3" REBAR FOUND AT THE NORTH QUARTER CORNER OF SAID SECTION 24, FROM WHICH A OLD BRASS CAP FOUND AT THE NORTHEAST CORNER OF SAID SECTION 24 BEARS SOUTH 89°31'19" EAST, 2,646.94 FEET; THENCE ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 24, SOUTH 00°32'53" WEST, 99.96 FEET; THENCE SOUTH 89°27'07" EAST, 45.00 FEET TO A POINT ON A LINE 100.00 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF THE NORTHEAST QUARTER OF SAID SECTION 24 AND THE TRUE POINT OF BEGINNING;

THENCE ALONG SAID PARALLEL LINE, SOUTH 89°31'19" EAST, 584.42 FEET;

THENCE SOUTH 18°38'13" EAST, 381.09 FEET;

THENCE SOUTH 24°12'20" EAST, 102.19 FEET;

THENCE SOUTH 89°26'10" WEST, 716.83 FEET TO A POINT ON A LINE 40.00 FEET EAST OF AND PARALLEL WITH THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 24;

THENCE ALONG SAID PARALLEL LINE, NORTH 00°32'53" EAST, 414.31 FEET TO THE TRUE POINT OF BEGINNING.

SAID PARCEL CONTAINING 283,304 SQUARE FEET OR 6.045 ACRES, MORE OR LESS.

BUILDING/STRUCTURE DATA TABLE

BUILDING/STRUCTURE	AREA (SQ FT)	HEIGHT (FT)	PHASE
DISINFECTION & CONTROL BUILDING	2500	16.5	1
STORAGE RESEVOIR 1	9455	16	1
STORAGE RESEVOIR 2	9455	16	2

LEGEND

- CONTOUR (EXISTING GROUND)
- SLOPE
- DIRECTION OF DRAINAGE
- AC PAVEMENT
- TOE — TOE OF SLOPE
- TOP — TOP OF SLOPE
- RIGHT OF WAY
- CENTER LINE
- PUE LINE
- PROPOSED BURIED DIST. LINES, OR DRAIN PIPING
- PROPOSED ABOVE GROUND DIST. & DRAIN PIPING
- PROPOSED SANITARY SEWER
- TW= TOP OF WALL
- TOB= TOP OF BANK/BERM
- POLE MOUNTED LIGHT
- FIRE HYDRANT
- FUTURE FLOOD PLAIN PER DUNN/LOAR PROCESS
- DEA FLOOD PLAIN
- EFFECTIVE FLOOD PLAIN
- PROPERTY LINE
- PROPOSED EDGE OF PAVEMENT

ENGINEER:
DAVID EVANS & ASSOCIATES, INC.
2141 EAST BASELINE RD., SUITE 200
PHOENIX, ARIZONA 85042
PHONE: (602) 678-5151
FAX: (602) 678-3135
CONTACT: WILLIAM ROBERTS, P.E.

OWNER/DEVELOPER/APPLICANT:
JF PROPERTIES, INC.
6720 N. SCOTTSDALE ROAD, SUITE 250
SCOTTSDALE, ARIZONA 85253
PHONE: (480) 422-6900
CONTACT: MR. JAMES CONDIT P.E.

PURPOSE STATEMENT
THE WATER SUPPLY FACILITY WILL MEET THE POTABLE WATER DEMANDS OF BALTERRA AND PORTIONS OF SURROUNDING PROPERTIES. RAW WATER WILL BE PUMPED OUT OF PROPOSED WELLS AND INTO THE STORAGE RESERVOIR, ON ITS WAY TO THE RESERVOIR, THE WATER WILL BE DISINFECTED AND TREATED FOR ARSENIC & FLUORIDE. BOOSTER PUMPS WILL SEND THE STORED WATER INTO THE DEVELOPMENT'S DISTRIBUTION SYSTEM.

NOTE
NO STRUCTURES, LANDSCAPING, FENCE, WALL OR TERRACE OR OTHER OBSTRUCTION TO VIEW IN EXCESS OF TWO FEET IN HEIGHT AS MEASURED FROM THE CENTERLINE OF STREET, SHALL BE PLACED WITHIN THE REQUIRED 25-FOOT SIGHT VISIBILITY TRIANGLES.

SITE DATA TABLE

TOTAL NET ACREAGE	6.045 AC (263,304 SQ. FT)
EXISTING ZONING AND LAND USE	RURAL – 43, NATIVE DESERT
LOT COVERAGE (CONSISTS OF BUILDING AND STORAGE RESERVOIRS)	4.88% FOR PRIMARY STRUCTURES
PARKING REQUIRED	9 SPACES
PARKING PROVIDED	9 SPACES (18' x 9')
BUILDING UNDER ROOF	5,110SF
APN#	506-34-018B

NOT FOR CONSTRUCTION

REVISION	DATE	BY

DRAWN BY: JYE
CHECKED BY: DCMO
DATE: 10/06

DAVID EVANS AND ASSOCIATES INC.
2141 East Highland Avenue, Suite 200
Phoenix, Arizona 85016
Phone: 602.678.5151

SITE PLAN
FOR SPECIAL USE PERMIT
BALTERRA
WATER SUPPLY FACILITY
MARICOPA COUNTY

SCALE: AS NOTED
SECTION: 24
TWNSHP: 2N
RANGE: 7W
SHEET 1 OF 1
JOB NO.: AFH0000-0000

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App'vd By: | Date: | Drawing Number:
Scale: NTS

BALTERRA SITE PLAN
FOR SPECIAL USE PERMIT

FIGURE 11

be provided to ensure arsenic removal, as the extent of arsenic removal by activated alumina has not been pilot tested in this area.

Figure 2 – Preliminary Water Campus for Entire Balterra Development provides the location details for these facilities.

It will be necessary to address the waste streams generated by the fluoride (activated alumina) and arsenic (GFH) treatment system. The waste streams are generated through backwashing and possible regeneration of the media. Because no process waste will be discharged to the sewer, the treatment process will be required to evaporate its waste stream.

Arsenic treatment systems (GFH) can be operated with as little as 0.5 % wastewater produced, significantly less than that generated by an activated alumina system.

The activated alumina treatment system for fluoride requires the regeneration of the media. As a result this system generates more wasted water. The following design requirements were used to generate the estimated waste stream volumes from both processes:

• Arsenic Media Treatment Waste Stream	0.5% of treated water
• Activated Alumina System	
o Time between regenerations	2 weeks
o Backwash rate	5 times design capacity
o Caustic flush duration	15 minutes
o CO_2 neutralization flush duration	15 minutes
• Standard Reverse Osmosis Recovery Rate	80%
• Assumed Evaporation Rate in Phoenix, AZ	70 inches/year

Table 9 – Waste Generation and Evaporation Calculations for the Entire Balterra Development presents the process calculations utilized to estimate the waste stream produced by the treatment system.

Table 9 – Waste Generation and Evaporation Calculations for the Entire Balterra Development	
Description	**Cumulative Year 5 Requirements**
Treatment Required (gpd) - Based on Avg. Day Demand	997,200
Treatment Required (gpm)	1,000
Arsenic Waste Stream(gpd) @ 0.5%	4,986
Activated Alumina Waste Stream	
Backwash Flow Rate (gpm)	5,000
Backwash Duration (NaOH&CO2) (min)	30
Activated Alumina Waste Stream per Regeneration (gal)	150,000
Regenerations per year	26
Yearly Waste Stream from Activated Alumina (gal)	3,900,000
Yearly Waste Stream from Arsenic Treatment (gal)	1,819,890
Total Waste Generated per year (gal)	5,719,890
Total Waste Generated per year (ft^3)	764,691
Evaporation Rate in Phoenix (inches)	70
Acre required to evaporate waste stream without RO (acres)	3.0
Standard RO Recovery Rate (%)	80
Waste Generated with RO Waste Treatment (gal)	1,143,978
Waste Generated with RO Waste Treatment (ft^3)	152,938
Acres required to evaporate waste stream with RO (acres)	0.6

Based on the calculations, the waste stream will require treatment by a reverse osmosis (RO) unit to reduce the volume of water to be evaporated. The concentrated waste stream will contain arsenic and fluoride and will be evaporated. The permeate generated by the RO unit can be utilized for drinking water.

In order to implement this waste stream treatment, it will be necessary to install a 0.60-acre evaporation pond, a 235,000-gallon storage tank, and a small RO unit to treat the waste generated by the backwash and regeneration processes. The backwash tank is oversized to account for the cumulative effect of storing water. The following costs were added to the treatment system costs (as previously presented in **Tables 6 and 8**):

- 235,000-Gallon Storage Tank $200,000
- 0.60 -acre Evaporation Pond $300,000
- Small 50 gpm RO Unit $100,000

Total Waste Stream Treatment Costs $600,000

F. RESPONSES TO QUESTIONS POSED BY DOROTHY HAINS ON 12-11-06

1) *Is the well production rate adequate to supply growth?*

The Potable Water Master Plan for the Tonopah Desert Area estimated the well capacity in the area at 1,000 gpm (Table 3.4, Page 22 of 51). This capacity is adequate to supply growth as indicated in **Table 4 – Cumulative Infrastructure Requirements for the Entire Balterra Development** of this document.

2) *What is the size of the pressure tank?*

The pressure tank provided for the water campus will be sized to handle system surges. The booster station will utilize variable speed drives to address varying demands within the distribution system; therefore, the pressure tank will be designed with the booster station, but has been estimated to be 5,000 gallons.

3) *Is there adequate space to install a treatment plant at the water distribution campus?*

Yes, preliminary plans for the water campus include two, one million gallon reservoirs as presented in **Figure 2 – Preliminary Water Campus for Entire Balterra Development.** Construction of the second, one million gallon reservoir will not be required within the first five years of development construction. Therefore, the evaporation pond will be located in the area planned for the second, one million gallon reservoir. Future expansions of the site may require additional treatment of the waste stream generated by the arsenic/fluoride treatment system.

4) *Provide a cost estimate for the proposed treatment facility.*

The estimated costs for the CCN expansion area are provided in **Table 8 – Infrastructure Costs for CCN Expansion Area,** and include the cost of the wells, storage reservoirs, booster stations and treatment systems.

GLOBAL WATER

Water Utility of Greater Tonopah Water Master Plan

June 2007

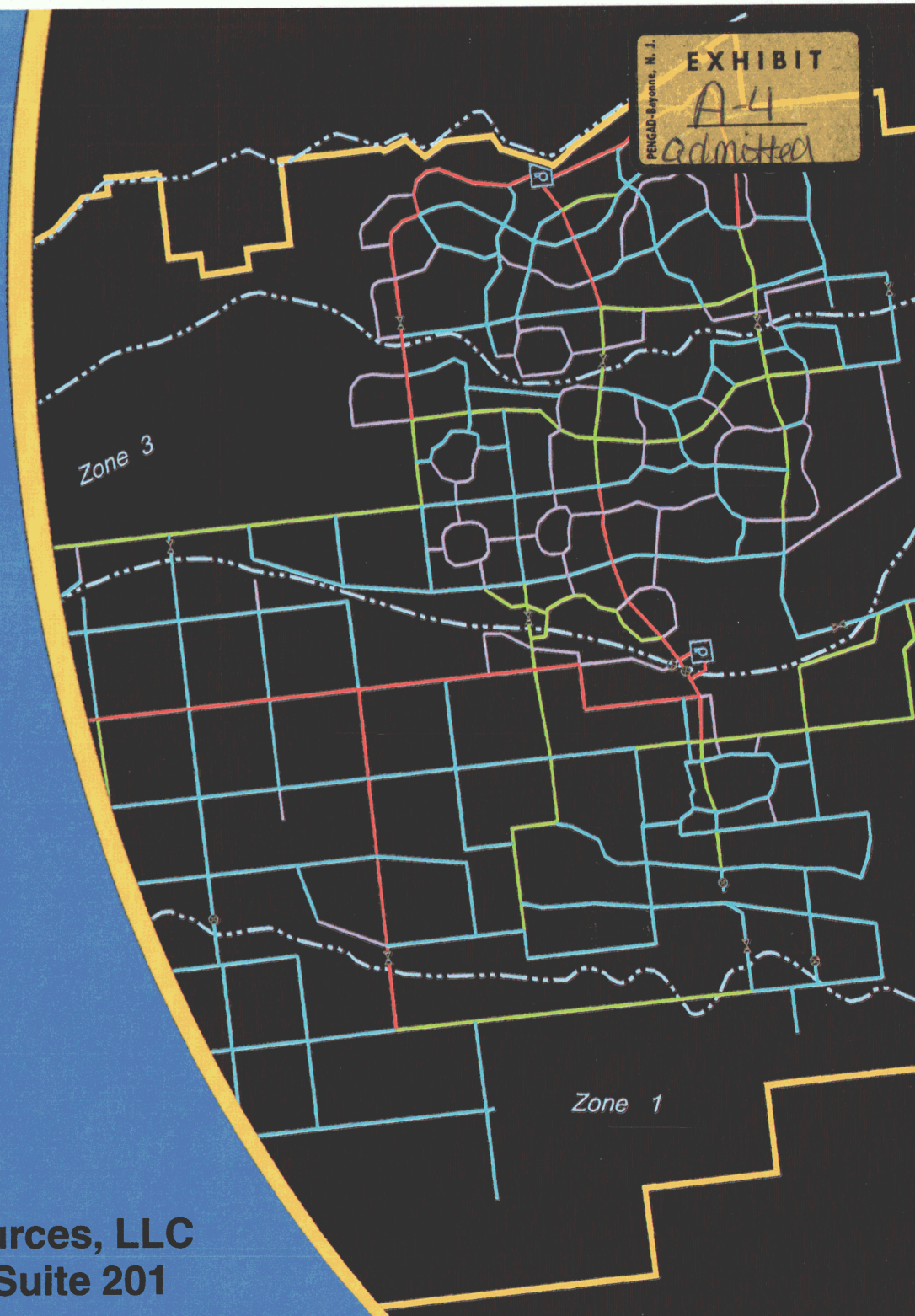


EXHIBIT
A-4
admitted

Registered Professional Engineer (Civil)
CERTIFICATE NO.
34572
Christine H.
Close
Date Signed .....
ARIZONA, U.S.A.

Prepared for:
Global Water Resources, LLC
21410 N. 19th Ave, Suite 201
Phoenix, AZ 85027
Phone: (623) 580-9600
Fax: (623) 580-9659

DSWA
DAMON S. WILLIAMS ASSOCIATES, LLC

Table of Contents

Page

1.0 INTRODUCTION 1-1
1.1 SCOPE OF WORK 1-2
1.2 SERVICE AREA 1-3
1.3 TOPOGRAPHY 1-3
1.4 EXISTING CONDITIONS 1-3
1.4.1 Existing Water Systems 1-4
1.4.2 Geohydrology 1-4
1.5 EXISTING MASTER PLANS 1-5

2.0 MASTER PLAN 2-1
2.1 ANALYTICAL METHODOLOGY 2-1
2.2 CRITERIA AND ASSUMPTIONS 2-1
2.3 PHASING 2-2
2.4 DEMANDS 2-3
2.5 PRESSURE ZONES 2-5
2.6 MODELING RESULTS 2-6
2.6.1 Pipelines 2-7
2.6.2 Storage and Booster Pumping 2-7
2.6.3 Cost Estimates 2-9

3.0 WATER RESOURCES 3-1
3.1 GROUNDWATER QUALITY 3-1
3.2 WELLS 3-2

4.0 RECOMMENDATIONS 4-1

5.0 REFERENCES 5-1

Registered Professional Engineer (Civil)
CERTIFICATE NO. 34572
Christine H. Close
Date Signed 6-20-07
ARIZONA, U.S.A.

List of Tables

Page

Table 1-1 Existing WUGT Water Systems and Customers 1-4
Table 2-1 Water Demand Criteria 2-2
Table 2-2 Water Demands 2-3
Table 2-3 Water Demand Projections at Build-out 2-4
Table 2-4 Pressure Zones 2-5
Table 2-5 Pressure Ranges 2-6
Table 2-6 Pipeline Quantities (Ultimate Build-out) 2-7
Table 2-7 Booster Station Set Pressures 2-8

List of Exhibits

		Follows Page
Exhibit 1-1	Proposed Service Area Location Map	5-1
Exhibit 2-1	Proposed Phase 1 Water Distribution System	
Exhibit 2-2	Proposed Ultimate Build-out Water Distribution System	
Exhibit 3-1	WUGT Existing Water Systems Location Map	
Exhibit 3-2	Well Location Map	

List of Appendices

Appendix A Water CAD Results
Appendix B Typical Water Distribution Center Layout

1.0 Introduction

Global Water recently acquired the Water Utility of Greater Tonopah (WUGT) as a new subsidiary. The WUGT is the major water provider in the area of Maricopa County to the west of the Hassayampa River. As such, they are responsible for providing water services to the existing and proposed communities in this area. Global Water and WUGT recognize the need to provide a regional planning document that will aid them in implementing future capital improvement projects. The purpose of this document is to provide a regional water master plan for WUGT's existing and proposed service area in western Maricopa County, focusing on eight (8) developments which are in relatively advanced stages of planning and have requested service from WUGT.

The WUGT is currently in the process of extending their Certificate of Convenience and Necessity (CC&N) to cover various subdivisions or portions thereof that are not included in their existing CC&N.

The area to be regionally planned for the WUGT is located in western Maricopa County and in total comprises approximately one hundred and sixty-four (164) square miles. The proposed service area is bounded by the Central Arizona Project canal on the north, 443rd Avenue on the west, Van Buren Street, Broadway Road and Buckeye Road on the south,, and the Town of Buckeye Municipal Planning area on the east. Exhibit 1.1 provides a vicinity map of the area. WUGT's current service area covers approximately 61 square miles, or close to 39,000 acres. For this master plan, approximately 66,000-acres were planned.

Global Water filed an application for an extension of CC&N with the Arizona Corporation Commission (ACC) for water (Docket No. W-02450A-06-0626). The proposed extension area is approximately 22,000 acres and includes the Belmont and 339th Avenue developments, and a portion of Copperleaf, Desert Willow, Silver Water Ranch and Hassayampa Ranch (the balance is already in the existing CC&N), currently in development master planning with Maricopa County. All of these developments have requested service from WUGT or its parent company, Global Water.

This master plan will focus on serving the developments included in this CC&N extension area, as well as those portions already in the existing CC&N area, for an approximate total of 66,000 acres. None of

the developments have existing potable water service as they are all in the planning stages and have not reached final plat.

Water for the region will be provided by groundwater and Central Arizona Project (CAP) water. Groundwater will be chlorinated prior to distribution and other treatment including blending for arsenic, fluoride or nitrate removal will be provided if required to meet drinking water quality standards. CAP water cannot be utilized until capacity is secured, and is not expected to serve earlier phases of the development. Treatment technologies for the CAP water will consist of conventional sedimentation and filtration or membrane filtration. The CAP water will be treated to drinking water quality as prescribed by the Arizona Administrative Code (A.A.C.)

1.1 Scope of Work

Global has contracted DSWA to provide a comprehensive water master plan for the western Maricopa County region. A hydraulic model that incorporates existing master plans provided by developers is required along with cost estimates for the proposed infrastructure. Two phases were modeled. The first phase (Phase 1) consists of Villages 1, 2, 3 and 4 of the Belmont subdivision with all other developments completely built out. The second phase is full build-out of all developments in the modeled area including Belmont. The piping network typically modeled 1-mile grid pipelines only, unless the developer had a water master plan for the development.

This plan shows approximate locations of proposed water distribution centers required to provide the service area with adequate quantity and pressure of potable water. Conceptual water line sizes and locations are also provided with this plan. Since the majority of the area included in the distribution system model is in the early stages of development, it is anticipated that pipe and facility locations will be adjusted to better suit the needs of the developments. It is recognized that final pipeline alignments will most likely not follow the 1-mile grid that is used for a majority of the model, but the alignments and sizes provided by the model should provide development planners some idea of the size of pipelines that will be required to meet the water demands of the home owners in their developments. It is also recognized that some facility locations as shown in the model may not be in ideal locations for planning purposes. These locations provide good hydraulic connectivity and support for the distribution and can

be viewed as preferred "feed points" so that if a facility were to be located in the general locale of one of the modeled facilities, then the flow from the facility could be conveyed to a more ideal "feed point" with a dedicated pipeline.

1.2 Service Area

The service area and the proposed developments modeled are shown in Exhibit 1.1. The area modeled to support this report does not coincide with the entire planning service area for Global Water in the region. A future master planning effort will incorporate the entire area as well as provide an update to this plan. Approximately 66,000 acres were modeled in this master plan.

1.3 Topography

For purposes of this study, the ultimate Global Water service area covers approximately 66,000 acres. The region generally slopes from northwest to southeast. The lowest elevation served in this plan is approximately 1,000-feet above mean sea level (AMSL). The highest elevation served is approximately 1,370-feet AMSL. The lowest elevation is located approximately one mile east of Wintersburg Road at Lower Buckeye Road in the south and the highest elevations are located along the CAP canal in the north. For the Belmont area, contour data was provided by CMX in the report for their water model. CMX obtained the topography from MapMart. For the remainder of the service area, United States Geographical Survey (USGS) contour mapping (10-20-foot intervals) was used as a basis for ground elevations.

1.4 Existing Conditions

Currently, several small water systems owned by WUGT serve the planning area. WUGT's current service area covers approximately 61 square miles, or close to 39,000 acres. Table 1-1 shows the existing water system names and number of customers.

Table 1-1 Existing WUGT Water Systems and Customers

Water System	Existing Customers
Buckeye Ranch System - PWS #07-618	94
Dixie System - PWS #07-030	27
WPE #6 - PWS #07-733	23
Tufte WPE #7 System - PWS #07-617	6
Garden City/Big Horn System - PWS #07-037	16
Rose View System - PWS #07-082	16
WPE #1 System - PWS # N/A	2
Sunshine System - PWS #07-071	121
Total	**305**

1.4.1 Existing Water Systems

As indicated in Table 1-1, the existing water delivery system for WUGT serves approximately 300 customers. These customers are spread out over several miles. Exhibit 3-1 shows the approximate locations of the existing customers. Typically, these existing systems are characterized by small diameter (2" to 3") pipelines and small exempt wells. Of the eight systems within the WUGT, three of them provide fire hydrants. In general, these systems will not support new development and this infrastructure has not been included in the hydraulic model. Global expects to upgrade and replace this existing infrastructure as development occurs nearby.

1.4.2 Geohydrology

The proposed service area is located in the western portion of the Phoenix Active Management Area and the Hassayampa Subbasin. The Hassayampa Subbasin comprises approximately 1,200 square miles. The basin is bounded by the Vulture Mountains to the north, by the White Tank Mountains to the east, by the Gila Bend Mountains and Buckeye Hills to the south, and by the Palo Verde Hills, Belmont Mountains, and Big Horn Mountains to the west. The Hassayampa Subbasin is drained by the Hassayampa River, which converges with the Gila River to the east.

Two cones of depression have developed in this subbasin due to extensive groundwater pumping for agricultural use. These depressions have created a decline in water levels of between 70 and 90 feet in the Tonopah Desert and Centennial Wash areas, respectively. The depth to water ranges from

approximately 20 feet below land surface near the Gila River to over 700 feet below land surface toward the north portion of the subbasin.

The Arizona Department of Water Resources (ADWR) Groundwater Site Inventory (GWSI) and Well Registry databases indicate that there are up to 357 wells located within the proposed service area. GWSI indicates that the wells located within the proposed service area are used for drinking water, irrigation, stock, and monitoring purposes.

The specific conductance across the proposed service, as reported by ADWR, ranged from 400 to 4,650 micro-Siemens per centimeter (uS/cm) with the higher values recorded in the southeast where agricultural use is high. This results in calculated total dissolved solids (TDS) concentration from 240 to 2,790 mg/L. The TDS concentration was calculated by multiplying the specific conductance by 0.6 to obtain milligrams per liter (mg/L) of dissolved solids. The fluoride and arsenic concentrations exceed Aquifer Water Quality Standards (AWQS) generally on the south side of proposed service area.

Presently, all water services for the proposed service area are provided by groundwater wells. Exhibit 3.2 provides a well location map showing existing wells throughout the proposed service area.

1.5 Existing Master Plans

CMX created both water and wastewater master plans for the proposed Belmont development[1]. These plans have been approved by Maricopa County. These master plans were incorporated into this master plan with minor changes. Several pipe sizes were changed and pressure zone breaks were modified. In general, the recommended revisions to the Belmont Master Plan include:

- Increased pipeline size from 16" to 24" along the main collector roads that traverse north to south.
- Increased pipeline size from 16" to 24" along the main collector roads that traverse east to west.
- Added a Water Campus in Village 18 of the new Zone 4.
- Added a Water Campuses in Villages 12 and 7 of the new Zone 3.
- Removed a Water Campus in Village 25 of the new Zone 2.

- Minimum line size modeled equal to 12".
- Number of PRV stations reduced, pressure zone breaks redefined.
- 12" looping lines added where necessary.
- Number of Interstate 10 freeway crossings reduced.

The increase in pipeline sizes and facilities allows for a better distribution of water across the new service area and aids in meeting the demands imposed by the criteria of this report.

In addition, the Hassayampa Ranch, 339th Avenue, Silver Water Ranch, Silver Springs Ranch and Copper Leaf developments have water and wastewater master plans that have not been approved by Maricopa County. Only proposed development boundaries and development densities, and in some cases roadway alignments, from these plans were used in this master plan.

2.0 Master Plan

Two (2) models were created for this master plan including Phase 1 and Ultimate Build-out models. In each model, three scenarios were run. Average Day, Maximum Day with fire flow, and Peak Hour scenarios were modeled with Bentley's (Haestad Methods) WaterCAD v8 XM.[2]

2.1 Analytical Methodology

WaterCAD takes user inputs for pipe diameters, pipe locations, ground elevations, and storage/booster pumping constraints and computes pressure and flows for the piping network. Pipes are connected to each other via junction nodes. WaterCAD's calculation engine is based on the Gradient Algorithm approach.[2] Pressure and flow results are presented graphically as well as in table formats. The Ultimate Build-out hydraulic model created for this master plan includes 550 pipes. Only steady state analysis scenarios were made.

2.2 Criteria and Assumptions

For this project, only 12" and larger mains were used in the model. Twelve inch pipelines were sometimes used on a half-mile grid, other times 16" pipes were used. The majority of the pipelines were at least 16" in diameter. A Hazen-Williams Roughness Coefficient of 130 was used throughout the modeling effort. Minor losses due to valves and fittings were not considered.

Global Water System Design standards were adhered to when not in conflict with Maricopa County Environmental Services Department (MCESD) requirements for the creation of the models and assigning demands to the junction nodes. Typical water usage in other Global Water service areas averages 250 gallons per day per dwelling unit with 2.6 persons per dwelling unit. The water demand in these service areas results from Global Water's strict water conservation efforts and reclaimed water use requirements. MCESD requires that more conservative values be used for master planning efforts. These values are shown in Table 2-1.

Table 2-1 Water Demand Criteria

Criteria	Value	Units
Per Capita Usage	150	Gal/capita/day
Persons/DU	3.2	Persons
DU Consumption	480	Gal/DU/day
Development Density	3	DU/acre
Maximum Day peak factor	1.98	Multiply ADD
Peak Hour Peak Factor	3.36	Multiply ADD
Fire Flow	1,500	Gal/min

ADD = Average Day Demand

With regard to their water conservation policies, Global has incorporated Codes of Practice for water conservation to minimize landscape irrigation with potable water and maximize reclaimed water use. Specifically, Global Code of Practice, GWR-CP-01-007 dictates that land developers in the WUGT service area must incorporate lakes for reclaimed water storage areas in their plans so that six (6) days of storage is available with no irrigation demand. These lakes will store reclaimed water in the winter when irrigation demand is low and will provide extra water in the summer when demand is higher. This Code of Practice states that landscaping will include 22% turf, 75% xeriscape and 3% lakes.

For all unplanned areas within the hydraulic model extents, demands for residential development at 3 DU/acre or 480 gallon/DU/day were used. Peaking factors were multiplied with the Average Day Demand (ADD) to estimate the Maximum Day (MDD) and Peak Hour demands (PHD).

The entire Global Water planning service area was not modeled. The modeled area was limited to the area that encompassed the planned developments and nearby land totaling approximately 66,000 acres. The area modeled is shown in Exhibit 1.1.

2.3 Phasing

Pursuant to Global Water's direction, a Phase 1 model and an Ultimate Build-out model were created. The Phase 1 model included a portion of Belmont, Villages 1, 2, 3 and 4, along with all other areas within the model boundary. The Ultimate Build-out model included the entire model boundary shown in Exhibit 2.2. The demands for these models are shown in Table 2-2. Based on the modeling results, several water distribution centers are required to support Phase 1 development.

2.4 Demands

Water demands were estimated for each scenario based on the criteria shown above. The following overall demand estimates were used in the models.

Table 2-2 Water Demands

Model	Value	Units
Phase 1- ADD	43,542	Gal/min
Phase 1 - MDD	86,213	Gal/min
Phase 1 - PHD	146,301	Gal/min
Ultimate Build-out- ADD	73,804	Gal/min
Ultimate Build-out- MDD	146,132	Gal/min
Ultimate Build-out- PHD	247,981	Gal/min

More specifically, projected demands were allocated to specific planned developments and unplanned areas according to Table 2-3. These demands were allocated to junction nodes adjacent to the area of development.

Table 2-3 Water Demand Projections at Build-out

Development	Area of Existing CC&N (acres)	Area of Proposed Future Development (acres)	[1]Dwelling Units at Build-out	Projected Water Demand, gpm	Projected Water Demand, mgd
Belmont	-	19,893	78,423	34,399	49.5
Copperleaf	302	914	4,000	1,333	1.92
Silver Water Ranch	433	96	1,877	626	0.901
Silver Springs Ranch	2,229	-	8,219	2,740	3.95
339th Avenue	-	1,273	2,127	709	1.02
Desert Whisper	474	474	2,900	967	1.39
Hassayampa Ranch	1,989	474	7,376	2,248	3.24
Balterra	1,256	-	3,610	1,203	1.73
Unplanned areas	14,080	17,981	88,106[2]	29,369	42.3
Totals	**20,426**	**41,442**	**196,638**	**73,594**	**106.0**

1. Dwelling units and acreages taken from development master plans prepared by others.
2. Dwelling units estimated from 635 acres per section and 3 DU/ac.

The projected water demand for the service area modeled is 62.7 mgd for Phase 1. Global Water intends to meet the initial water demands of Phase 1 through twelve (12) water distribution centers and future treatment facilities for CAP water. The initial water distribution centers will be supplied by groundwater from nearby wells. The exact locations of the wells are not known at this time. The following descriptions of feed point locations are based upon how the Phase 1 model was set up. One water distribution center feed point is located near 403rd Avenue and Camelback Road in the Balterra development. Three (3) water distribution centers are located in Belmont, one in each of the three Belmont Pressure Zones. One water distribution center is located in the 339th Avenue development, one is located in Silver Springs Ranch, one is located in Silver Water Ranch, two (2) are located in unplanned areas of Pressure Zone 2, and three (3) are located in unplanned areas of Pressure Zone 3. The specific locations of proposed feed points from the water distribution centers for Phase 1 are shown in Exhibit 2.1.

The projected water demand for the service area modeled is 106.0 mgd to serve 196,638 dwelling units at Ultimate Build-out. An additional five (5) water distribution centers are needed in Belmont. A total of eight (8) water distribution centers will be located in the Belmont development. This is an increase of one more in the Belmont area than the approved master plan due to increased projected demands. The additional water distribution center will be located in Belmont, within Village 18 to serve Pressure Zone 4, for a total of three (3) water distribution centers in Pressure Zone 4.

Based on the results of the Ultimate Build-out modeling, seventeen (17) water distribution centers are required to serve the proposed development. In the modeled Ultimate Build-out service area, there are three (3) water distribution centers in Pressure Zone 4, six (6) water distribution centers in Pressure Zone 3, five (5) water distribution centers in Pressure Zone 2, and three (3) water distribution centers in Pressure Zone 1. Section 2.6.2 describes the requirements of these facilities in more detail.

2.5 Pressure Zones

Global Water's modeled Ultimate Build-out service area is divided into four distinct pressure zones. Each zone has a change in elevation of 100-feet above mean sea level. The CAP canal is the northern most boundary of Pressure Zone 4. The elevation range of the pressure zones are shown in Table 2-4. Exhibit 1.1 shows the service area and pressure zones.

Table 2-4 Pressure Zones

Pressure Zone	Lower Elevation	Upper Elevation
Zone 0	1000	1,002
Zone 1	1,022	1,092
Zone 2	1,085	1,170
Zone 3	1,170	1,270
Zone 4	1,269	1,371

All of the Pressure zones will be separated from each other by Pressure Reducing Valve (PRV) stations and/or normally closed valves. Pressure Zone 0 is a small area south of Pressure Zone 1 and was separated from Pressure Zone 1 in order to resolve issues with high pressures in the area. Pressure Zone 0 will be completely fed via a PRV station and normally closed valves and hence will not have any water distribution centers. DSWA tried to limit the number of PRVs required for proper operation of the

overall water system. For this model, thirteen (13) PRVs were used to connect the five (5) zones. Additional zone crossings were modeled as normally closed valves that do not allow flow to pass.

Typical PRV stations will include a large PRV and a smaller bypass PRV with pressure gages and isolation valves. These stations will be in underground vaults or in above ground fenced enclosures as determined by Global.

2.6 Modeling Results

Exhibits 2.1 and 2.2 shows the piping network required to meet the projected demands of the system. Typically, peak hour conditions dictated the pipeline sizes for each phase. The WaterCAD network and output are located in Appendix A. The junction node and pipe labels are included and the output from each run of each phase is provided.

The modeled pipe sizes were optimized so that the minimum pressures during the peak hour scenario were 40 psi or greater, with a maximum pressure limited to about 90 psi for the average day scenario and about 87 psi for the maximum day scenario both located at the low end of Pressure Zones 3 and 4. The pressure ranges for each scenario are shown in Table 2-5. It is anticipated that these pressures will be refined when detailed hydraulic models are created for portions of the service area in the future.

As part of the maximum day scenario, a fire flow of 1,500 gpm was independently applied to each node and the results show that each node can support 1,500 gpm fire flow with a minimum pressure residual in the system of 20 psi.

Table 2-5 Pressure Ranges

Phase	Scenario	Min. Pressure (psi)	Max. Pressure (psi)
Phase1	ADD	44	91
	MDD	43	88
	PHD	41	84
Build-out	ADD	41	90
	MDD	40	87
	PHD	40	84

2.6.1 Pipelines

Table 2-6 shows the required length and size for the pipelines modeled. In most cases, the smaller diameter looping pipelines internal to a main square mile loop were not modeled and are not accounted for herein.

Table 2-6 Pipeline Quantities (Ultimate Build-out)

Pipe Diameter (inches)	Length (miles)
12	51
16	177
24	57
36	1

2.6.2 Storage and Booster Pumping

The booster stations were modeled as constant pressure sources to simulate multiple pump facilities with Variable Frequency Drive (VFD) motors. The set pressures used in the models ranged from 54 to 74 psi and are shown below in Table 2-7. Global typically requires that a water distribution center meets the following requirements:

- Two welded steel reservoirs, totaling 5.0 million-gallons
- Split-case centrifugal pumps capable of producing 15,000 gpm with the largest pump out of service
- Hydropneumatic tank
- Disinfection system housed in building
- Standby generator

The set pressures did not change between scenarios.

Table 2-7 Booster Station Set Pressures

Location	Pressure Zone	Outlet HGL (ft)	Set Pressure (psi)	Design Flow rate (gpm)[1]	Design Flow Rate (MGD)[1]	No. of Water Distribution Centers[2]
339th Avenue	1	1,240	75.5	16,004	23.1	1
Silver Springs Ranch	1	1,231	66.7	11,679	16.8	1
Belmont -Village 25	1	1,208	50.2	16,685	24.0	1
Balterra	2	1,288	66.2	13,187	19.0	1
Belmont - Village 2	2	1,281	60.6	16,810	24.2	1
Silver Water Ranch	2	1,288	78.4	11,151	16.1	1
Unplanned Area – 339th Ave and Indian School Rd	2	1,285	67.1	17,061	24.6	1
Unplanned Area – 395th Ave and Bethany Home Rd	2	1,320	64.9	15,183	21.9	1
Belmont - Village 15	3	1,365	51.1	15,047	21.7	1
Belmont - Village 13	3	1,390	64.9	15,856	22.8	1
Belmont - Village 7	3	1,380	69.3	15,371	22.1	1
Unplanned Area – 371st Ave and Glendale Rd	3	1,390	77.9	13,619	19.6	1
Unplanned Area - 435th Avenue & Bethany Home Rd	3	1,372	44.1	16,320	23.5	1
Unplanned Area - 411th Avenue and Glendale Ave	3	1,370	69.2	7,743	11.2	1
Belmont - Village 18	4	1,487	53.7	15,314	22.1	1
Belmont - Village 18	4	1,498	70.6	14,698	21.2	1
Belmont - Village 19	4	1,470	54.6	15,471	22.3	1

1. Ultimate Peak hour flowrates
2. Based on each pump station delivering 15,000 gpm. In some cases, additional pumps will be required to increase the flowrate.

The required storage volume was calculated from the estimated demands within the model area by calculating 30% of maximum day demand plus fire flow requirements. Fire flow is estimated at 1,500 gpm for a two (2) hour duration with fire flow available in each of the four main pressure zones. Based on this criteria, the required storage volume for the entire service area is 63.7 million gallons. A typical

water distribution center layout is shown in Appendix B. To meet the total storage volume, approximately twenty-six (26) 2.5 million gallon reservoirs are required.

2.6.3 Cost Estimates

Cost estimates for the infrastructure proposed in this master plan are presented below. These estimates are preliminary in nature and based on the quantities derived from the hydraulic model. These estimates include backbone infrastructure only.

Phase 1 – Estimate of Probable Cost

Description	Quantity		Unit Cost	Total
PIPELINES				
12" DIP	98,322	LF	$ 81	$ 7,964,082
16" DIP	638,643	LF	$ 100	$ 63,864,300
24" DIP	209,849	LF	$ 120	$ 25,181,880
36" DIP	4,975	LF	$ 155	$ 771,125
Pipeline Subtotal				**$ 97,781,387**
WATER DISTRIBUTION CENTERS				
Total Required	12	EA	$12,615,575	151,386,895
WDC Subtotal				**$ 151,386,895**
			Total Estimated Construction Cost:	**$249,168,282**

Ultimate Build-out – Estimate of Probable Cost

Description	Quantity		Unit Cost	Total
PIPELINES				
12" DIP	268,035	LF	$ 81	$ 21,710,835
16" DIP	932,155	LF	$ 100	$ 93,215,500
24" DIP	300,778	LF	$ 120	$ 36,093,360
36" DIP	4,975	LF	$ 155	$ 771,125
Pipeline Subtotal				**$ 151,790,820**
WATER DISTRIBUTION CENTERS				
Total Required	17	EA	$12,615,575	214,464,769
WDC Subtotal				**$ 214,464,769**
CAP Water Treatment Plant	47	MGD	$ 2,800,000	**$ 132,020,000**
			Total Estimated Construction Cost:	**$498,275,589**

Water Distribution Center Detail – Estimate of Probable Cost

Description	Quantity		Material		Labor		Total Cost 2007
			Unit Cost	Total	Unit Cost	Total	
Water Distribution Center Detail							
A. Concrete	1	LS	$ 95,000	$ 95,000	incl		$95,000
B. Electrical Building	800	sq. ft.	$ 150	$ 120,000	incl		$120,000
C. Equipment							
2.5 MG Steel Reservoir	2	EA	$ 2,100,000	$ 4,200,000	incl		$4,200,000
Horizontal Split Case Pumps (3000 gpm ea.)	6	EA	$ 19,500	$ 117,000	20% of Material	$ 23,400	$140,400
Hydro Pnuematic Tank	2	EA	$ 26,000	$ 52,000	incl		$52,000
Disinfection System	1	LS	$ 40,000	$ 40,000	incl		$40,000
D. Mechanical/HVAC/Plumbing/Piping	1	LS					$664,860
E. Site Work - 10% of A+B+C+D	1	LS					$521,726
F. Electrical - 15% of B+C+D	1	LS					$782,589
G. Instrumentation and Control - 15% of B+C+D	1	LS					$782,589
Subtotal							**$7,399,164**
H. General Conditions – 10% of sum of A thru G							$739,916
Subtotal							**$8,139,080**
I. Contractor Overhead and Profit – 15% of sum of A thru H							$1,220,862
J. Contingency – 40% of sum of A thru H							$3,255,632
Grand Total							**$12,615,575**

3.0 Water Resources

3.1 Groundwater Quality

Global Water maintains the following strategies with respect to groundwater quality:

1. Identify and rehabilitate high quality wells in the proposed service area.
2. Develop blending mechanisms and control strategies to blend high quality water with poorer quality groundwater to ensure compliance with the Safe Drinking Water Act and AAC R18-4.
3. Modify existing wells to isolate areas of high concentrations or access higher quality water.
4. Provide slipstream treatment processes which in conjunction with an effective blending plan will meet the requirements.
5. Provide full scale treatment of groundwater.

A three phased approach to the evaluation of wells is employed by Global:

1. Phase 1 – Review available ADWR and ADEQ data, and physical assessment of wells;
2. Phase 2 – Analytical sampling of flow rates and quality (depth specific sampling, spinner logs);
3. Phase 3 – Rehabilitation. Installation of sanitary seal, re-screening, renewal of electrical control system, installation of SCADA control system, and obtain New Source Approval.

If after careful evaluation it is determined the existing well is not adequate, a new replacement well will be drilled.

During Phase 2 of the evaluation program, a full suite of analytical data is taken from the groundwater including:

- Metals
- Inorganics
- Synthetic Organic Compounds
- Volatile Organic Compounds
- Nutrients
- Bacteriological Analyses
- Radiochemical constituents

The results of these analyses will determine any groundwater treatment requirements. The selection of wells for potable water production will take into account the water quality data, so investment into the

conversion is made prudently. Global is prepared to install, operate and maintain any treatment processes that may be required. Global is considering three (3) alternative types of treatment methods for removal of Arsenic and Fluoride from the groundwater. These facilities will be located at the water distribution centers.

3.2 Wells

Global Water prefers to utilize existing high production capacity wells suitable for rehabilitation and outfitting as domestic supply wells. If suitable wells are not available, new groundwater production wells will be drilled near the water distribution centers. Raw water will be conveyed to the distribution centers for disinfection and treatment via raw water pipe networks. Specific well locations will be selected by qualified hydrogeologists. The new wells will be sited and screened to maximize groundwater quality.

4.0 Recommendations

Global Water's Standards for the Planning, Design and Construction of Water and Wastewater Systems along with this master plan provide the necessary guidance and requirements for development in the WUGT service area. Global Water System Design standards were adhered to when not in conflict with MCESD requirements for the creation of the models and assigning demands to the junction nodes.

Global Water has experienced an average use of 250 gallons per day per dwelling unit with 2.6 persons per dwelling unit in their other service areas. The water demand in these service areas results from Global Water's strict water conservation efforts and reclaimed water use requirements. MCESD requires that more conservative values be used for master planning efforts.

The proposed pipelines, reservoirs and booster stations should be constructed as development occurs in the area. In general, each development should provide wells and water storage to meet the water demands of their development. Although this plan calls for specific pipe sizes along certain roadway/section line alignments, detailed hydraulic models of each development's planned area are needed to accurately estimate internal pipeline sizes and locations.

In addition, the existing water infrastructure will be interconnected as development occurs nearby.

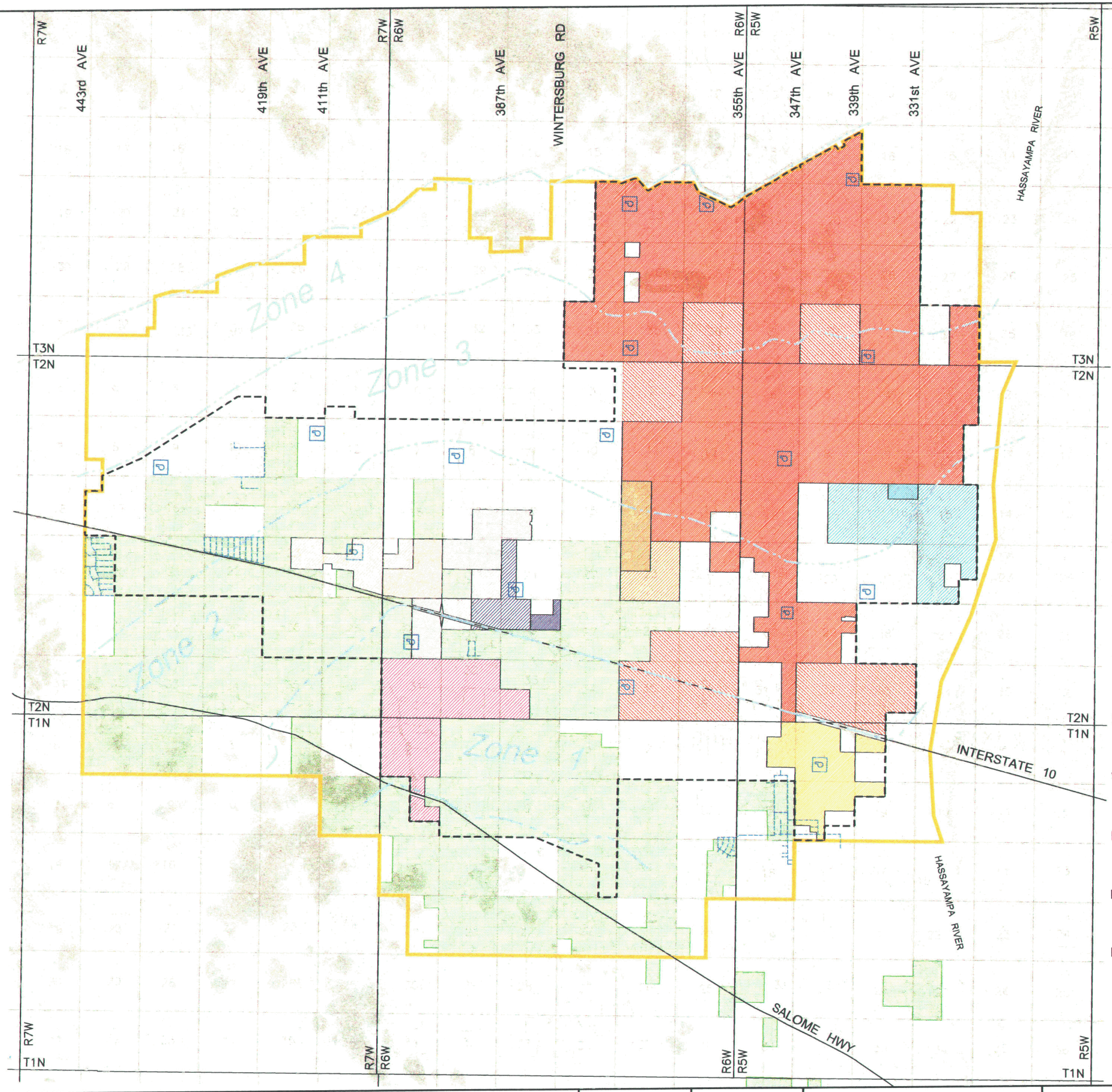
5.0 References

1- *Master Water Plan for Belmont*, by CMX LLC, Phoenix, Arizona, August 2006

2- Bentley Systems, Inc. Haestad Methods Solution Center, Watertown, CT, WaterCAD V8 XM Edition.

EXHIBIT 1-1

Proposed Service Area Location Map



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APPROX SCALE IN FEET

LEGEND

- SERVICE AREA BOUNDARY
- EXISTING WUGT WATER LINE
- PRESSURE ZONE BOUNDARY
- HYDRAULIC MODEL EXTENTS
- WATER DISTRIBUTION CENTER
- BELMONT (Proposed WUGT CC&N*)
- ASLD INCLUDED IN BELMONT MODEL
- COPPER LEAF (Existing WUGT CC&N)
- COPPER LEAF (Proposed WUGT CC&N*)
- BALTERRA (Existing WUGT CC&N)
- BALTERRA (Proposed WUGT CC&N**)
- SILVER WATER RANCH (Existing WUGT CC&N)
- SILVER WATER RANCH (Proposed WUGT CC&N*)
- 339th AVENUE PROJECT (Proposed WUGT CC&N*)
- DESERT WHISPER (Existing WUGT CC&N)
- DESERT WHISPER (Proposed WUGT CC&N*)
- HASSAYAMPA RANCH (Existing WUGT CC&N)
- HASSAYAMPA RANCH (Proposed WUGT CC&N*)
- SILVER SPRINGS RANCH (Existing WUGT CC&N*)
- WUGT (Existing CC&N)

NOTES:
* W-02450A-06-0626
** W-02450A-06-0253

REVISIONS			
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File Name: WUGTWG01.dwg

Designed By GB, VJL
Drawn By CDH
Checked By CHC

DSWA
DAMON S. WILLIAMS ASSOCIATES, LLC

GLOBAL WATER
RELIABLE · RENEWABLE · REINVENTABLE

GLOBAL WATER
WATER UTILITY
OF GREATER TONOPAH

PROPOSED SERVICE AREAS
LOCATION MAP
SHOWING PRESSURE ZONES

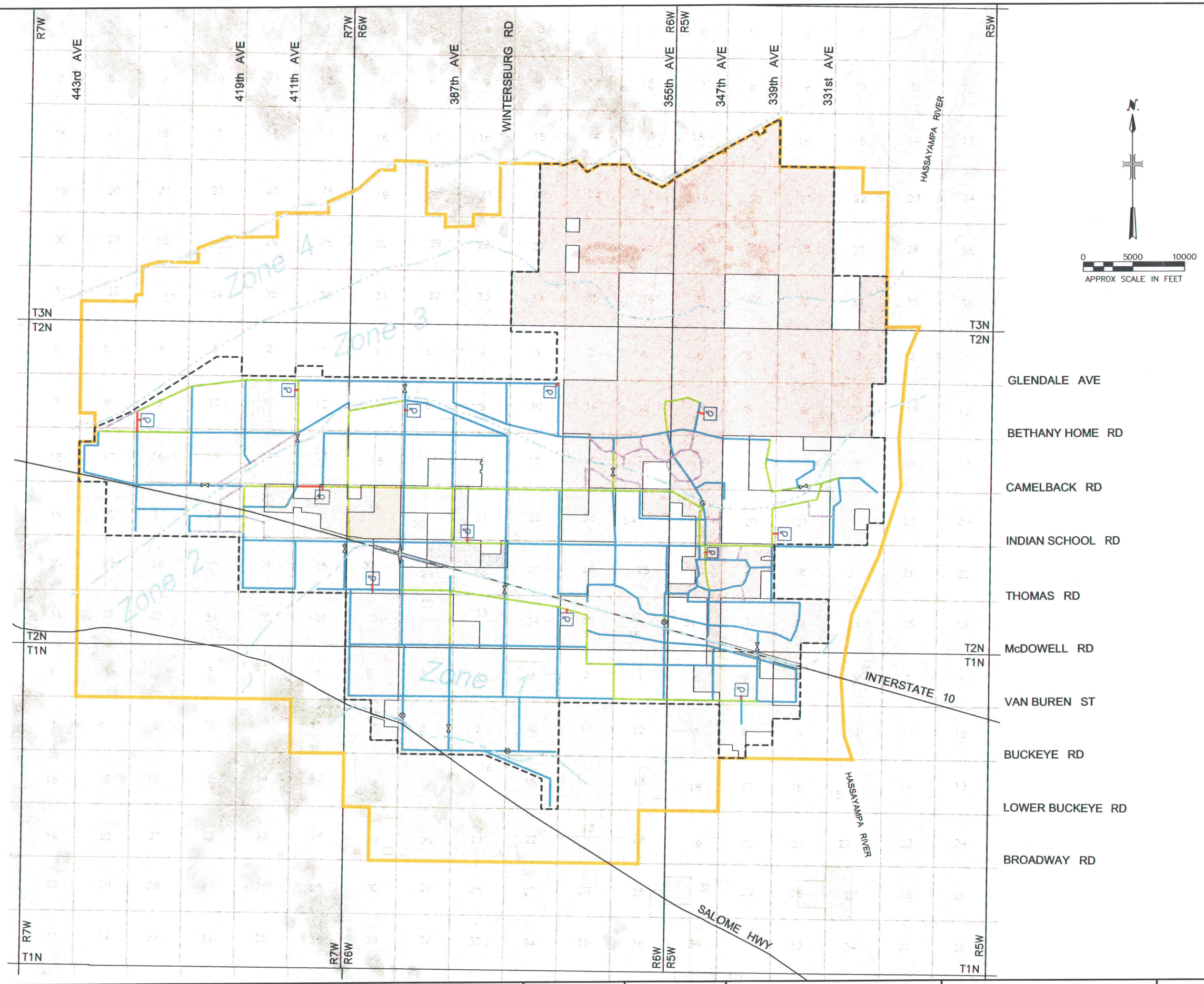
DSWA Project No 060260
Date JUNE 2007

EXHIBIT 1.1

Dwg File: U:\CADD\060250-260\Dwg\060260-W\WUGTWG01.dwg Modified: Jun 25, 2007 - 1:29pm Plotted: Jun 25, 2007 - 2:17pm

EXHIBIT 2-1

Proposed Phase 1 Water Distribution System



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0 5000 10000
APPROX SCALE IN FEET

LEGEND

- SERVICE AREA BOUNDARY
- PRESSURE ZONE BOUNDARY
- HYDRAULIC MODEL EXTENTS
- 12" WATER MAIN
- 16" WATER MAIN
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- 36" WATER MAIN
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- NORMALLY CLOSED VALVE
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NOTES:
* W-02450A-06-0626
** W-02450A-06-0253

REVISIONS			
NO	DATE	BY	DESCRIPTION

File Name: WUGTWG01.dwg

Designed By GB, VJL
Drawn By CDH
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GLOBAL WATER
RELIABLE · RENEWABLE · REUSABLE

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WATER UTILITY
OF GREATER TONOPAH

PROPOSED
PHASE 1
WATER DISTRIBUTION SYSTEM

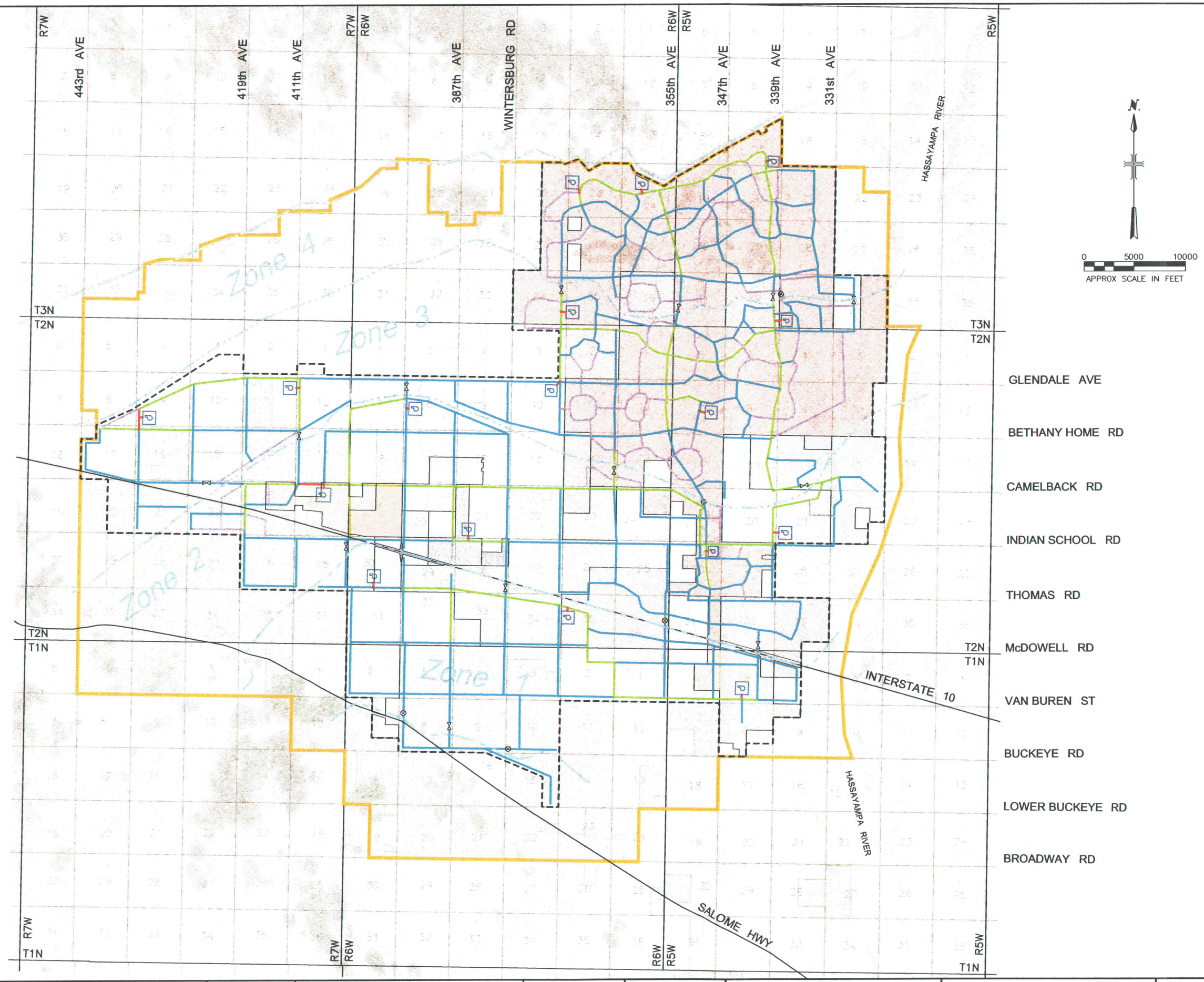
DSWA Project No 060260
Date JUNE 2007

EXHIBIT 2.1

Dwg File: U:\CADD\060250-260\Dwg\060260-WUGTWG01.dwg Modified: Jun 25, 2007 - 1:29pm Plotted: Jun 25, 2007 - 2:20pm

EXHIBIT 2-2

Proposed Ultimate Build-out Water Distribution System



LEGEND

- SERVICE AREA BOUNDARY
- PRESSURE ZONE BOUNDARY
- HYDRAULIC MODEL EXTENTS
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- SILVER SPRINGS RANCH (Existing WUGT CC&N*)
- WUGT (Existing CC&N)

NOTES:
* W-02450A-06-0626
** W-02450A-06-0253

REVISIONS			
NO	DATE	BY	DESCRIPTION

File Name: WUGTWG01.dwg

Designed By GB, VJL
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DSWA
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GLOBAL WATER
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GLOBAL WATER
WATER UTILITY
OF GREATER TONOPAH

PROPOSED
ULTIMATE BUILDOUT
WATER DISTRIBUTION SYSTEM

DSWA Project No 060260
Date JUNE 2007

EXHIBIT 2.2

Dwg File: U:\CADD\060250-260\Dwg\060260-W\WUGTWG01.dwg Modified: Jun 25, 2007 - 1:29pm Plotted: Jun 25, 2007 - 2:23pm

EXHIBIT 3-1

WUGT Existing Water Systems Location Map

GLOBAL WATER

WUGT Developments in CC&N Extension

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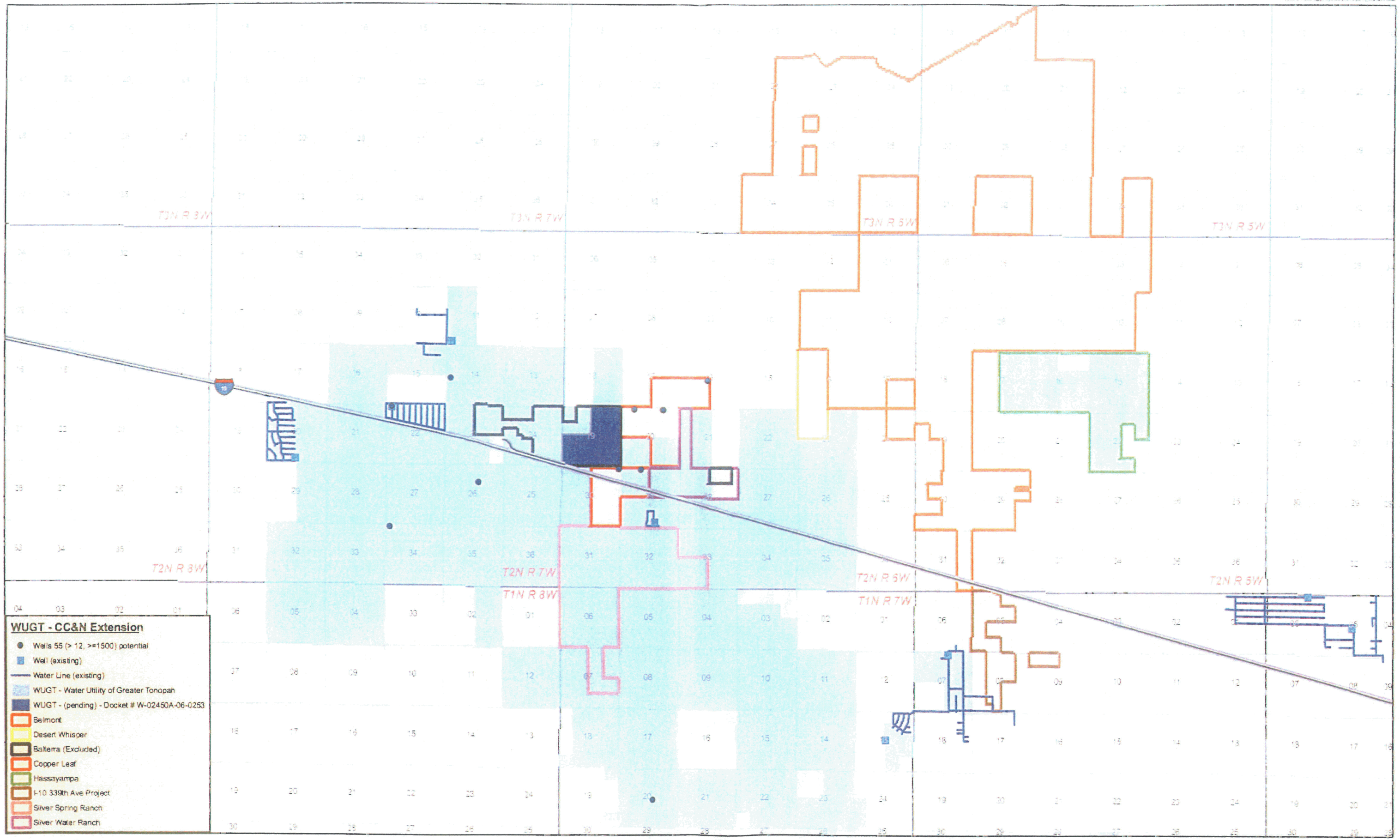

EXHIBIT 3.1 WUGT EXISTING WATER SYSTEMS LOCATION MAP

EXHIBIT 3-2

Well Location Map

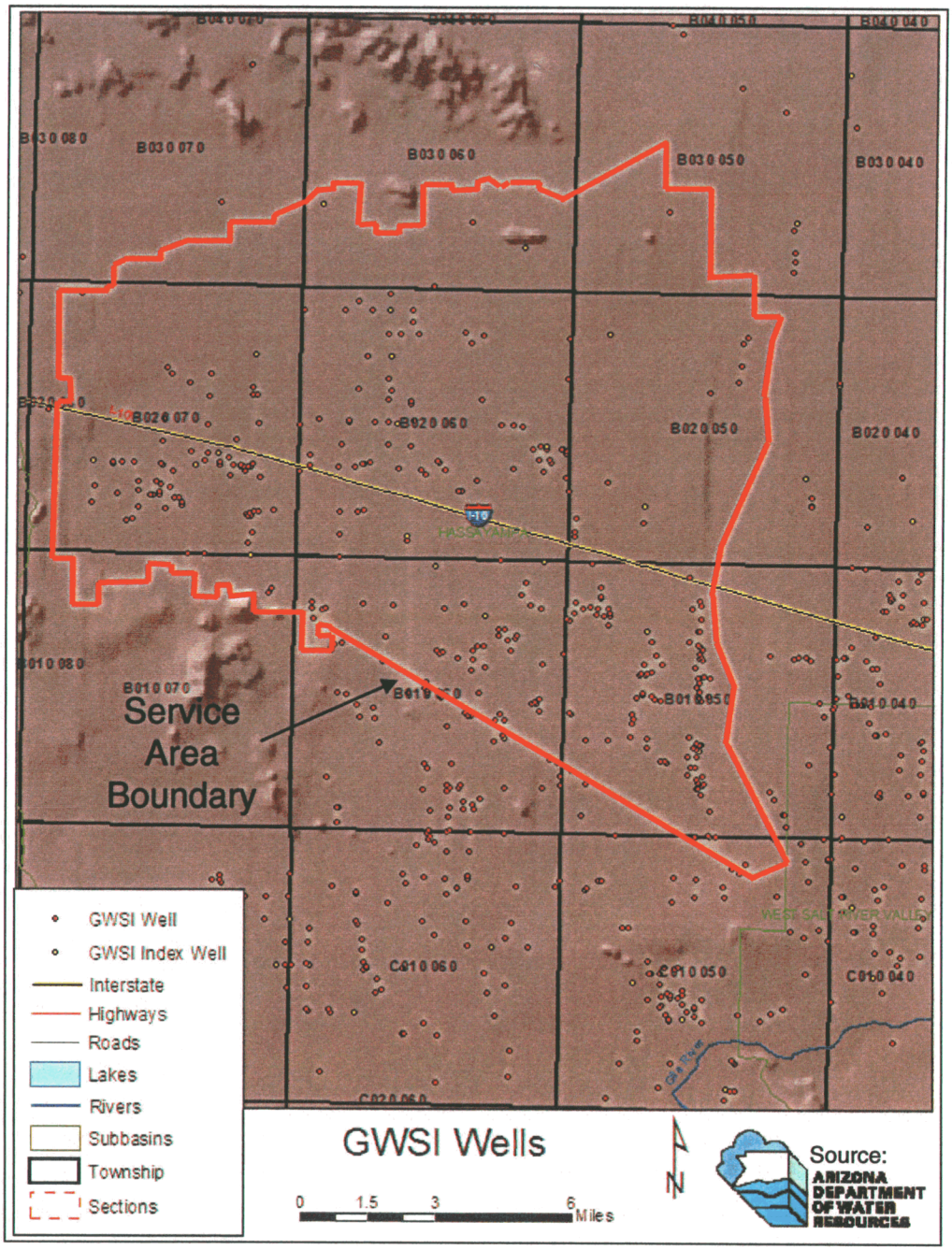

Exhibit 3.2 Well Location Map

APPENDIX A

Water CAD Results

Phase 1

Reservoir Report

Id	Label	Elevation (ft)	Zone	Outflow (gpm)	Hydraulic Grade (ft)
1276	R-29	1,208.00	116: Zone - 1	13,721.06	1,208.00
1274	R-28	1,231.00	116: Zone - 1	11,466.22	1,231.00
1248	R-21	1,240.00	116: Zone - 1	14,881.10	1,240.00
1299	R-31	1,285.00	117: Zone - 2	12,671.29	1,285.00
1267	R-25	1,320.00	117: Zone - 2	15,066.80	1,320.00
1265	Silver	1,288.00	117: Zone - 2	10,513.25	1,288.00
1258	Belmont-ISR	1,281.00	117: Zone - 2	13,642.61	1,281.00
689	Balterra-Res	1,288.00	117: Zone - 2	12,951	1,288.00
1302	R-30	1,390.00	118: Zone - 3	7,202.91	1,390.00
1270	R-26	1,370.00	118: Zone - 3	7,550.30	1,370.00
1260	R-23	1,380.00	118: Zone - 3	10,108.80	1,380.00
1093	R-10	1,372.00	118: Zone - 3	16,508.47	1,372.00

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1103	J-342	1,270.00	18: Zone -	<Collection: 1 item>	318	1,370.70	43.6
769	J-255	1,270.00	18: Zone -	<Collection: 1 item>	636	1,371.00	43.7
1100	J-341	1,270.00	18: Zone -	<Collection: 0 items>	0	1,372.00	44.1
875	J-285	1,170.00	17: Zone -	<Collection: 0 items>	0	1,281.10	48
869	J-283	1,170.00	17: Zone -	<Collection: 0 items>	0	1,282.20	48.6
285	J-171	1,170.00	17: Zone -	<Collection: 1 item>	159	1,282.30	48.6
811	J-271	1,002.00	15: Zone -	<Collection: 1 item>	318	1,114.30	48.6
978	J-317	1,170.00	17: Zone -	<Collection: 1 item>	450	1,282.40	48.6
1295	J-378	1,168.00	17: Zone -	<Collection: 0 items>	0	1,282.10	49.4
732	J-241	1,000.00	15: Zone -	<Collection: 1 item>	479	1,114.30	49.4
1233	J-368	1,000.00	15: Zone -	<Collection: 0 items>	0	1,114.50	49.5
981	J-318	1,168.00	17: Zone -	<Collection: 1 item>	636	1,282.80	49.7
746	J-246	1,000.00	15: Zone -	<Collection: 1 item>	318	1,115.10	49.8
767	J-254	1,256.00	18: Zone -	<Collection: 1 item>	636	1,371.60	50
777	J-259	1,170.00	17: Zone -	<Collection: 1 item>	331	1,286.00	50.2
965	J-313	1,092.00	16: Zone -	<Collection: 1 item>	318	1,208.00	50.2
1127	J-346	1,166.00	17: Zone -	<Collection: 0 items>	0	1,282.60	50.4
241	J-V4-I-Z1	1,165.00	17: Zone -	<Collection: 1 item>	323	1,281.80	50.5
282	J-168	1,165.00	17: Zone -	<Collection: 1 item>	318	1,282.30	50.8
237	J-120	1,164.00	17: Zone -	<Collection: 0 items>	0	1,282.30	51.2
245	J-129	1,163.00	17: Zone -	<Collection: 0 items>	0	1,281.50	51.2
239	J-123	1,164.00	17: Zone -	<Collection: 1 item>	318	1,283.20	51.6
1198	J-361	1,090.00	16: Zone -	<Collection: 0 items>	0	1,209.70	51.8
246	J-V2-I	1,161.00	17: Zone -	<Collection: 1 item>	319	1,281.20	52
288	J-174	1,160.00	17: Zone -	<Collection: 1 item>	159	1,281.10	52.4
214	J-V2-II	1,160.00	17: Zone -	<Collection: 1 item>	319	1,281.10	52.4
289	J-175	1,160.00	17: Zone -	<Collection: 0 items>	0	1,281.10	52.4
1180	J-358	1,090.00	16: Zone -	<Collection: 0 items>	0	1,211.60	52.6
900	J-293	1,170.00	17: Zone -	<Collection: 1 item>	159	1,292.10	52.8
1208	J-363	1,086.00	16: Zone -	<Collection: 0 items>	0	1,209.10	53.2
830	J-279	1,162.00	17: Zone -	<Collection: 1 item>	100	1,285.10	53.3
240	J-124	1,160.00	17: Zone -	<Collection: 1 item>	242	1,283.20	53.3
751	J-247	1,085.00	16: Zone -	<Collection: 1 item>	159	1,208.40	53.4
279	J-165	1,087.00	16: Zone -	<Collection: 1 item>	318	1,211.10	53.7
754	J-248	1,085.00	16: Zone -	<Collection: 1 item>	322	1,209.10	53.7
1067	J-334	1,160.00	17: Zone -	<Collection: 1 item>	172	1,285.70	54.4
958	J-311	1,158.00	17: Zone -	<Collection: 1 item>	242	1,284.30	54.6
908	J-295	1,170.00	17: Zone -	<Collection: 1 item>	159	1,296.90	54.9
257	J-V25-II	1,086.00	16: Zone -	<Collection: 1 item>	0	1,214.60	55.6
771	J-256	1,240.00	18: Zone -	<Collection: 1 item>	159	1,369.80	56.1
826	J-278	1,164.00	17: Zone -	<Collection: 1 item>	159	1,294.30	56.4
1291	J-377	1,150.00	17: Zone -	<Collection: 0 items>	0	1,281.40	56.9
254	J-138	1,090.00	16: Zone -	<Collection: 1 item>	318	1,221.50	56.9
658	J-216	1,079.00	16: Zone -	<Collection: 1 item>	322	1,211.60	57.4
951	J-310	1,148.00	17: Zone -	<Collection: 0 items>	0	1,281.00	57.5
1163	J-355	1,152.00	17: Zone -	<Collection: 0 items>	0	1,285.30	57.7
929	J-301	1,078.00	16: Zone -	<Collection: 1 item>	318	1,211.50	57.7
1218	J-365	1,088.00	16: Zone -	<Collection: 0 items>	0	1,221.50	57.8
761	J-251	1,236.00	18: Zone -	<Collection: 1 item>	159	1,370.20	58.1
906	J-294	1,170.00	17: Zone -	<Collection: 1 item>	159	1,304.30	58.1
898	J-292	1,160.00	17: Zone -	<Collection: 1 item>	318	1,294.60	58.2
710	DZ-South	1,145.00	17: Zone -	<Collection: 0 items>	0	1,281.20	58.9
220	J-103	1,091.00	16: Zone -	<Collection: 1 item>	318	1,227.90	59.2
962	J-312	1,072.00	16: Zone -	<Collection: 1 item>	318	1,208.90	59.2
312	J-199	1,145.00	17: Zone -	<Collection: 1 item>	159	1,282.10	59.3
738	J-244	1,071.00	16: Zone -	<Collection: 1 item>	318	1,208.20	59.4

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1156	J-353	1,149.00	17: Zone -	<Collection: 0 items>	0	1,286.80	59.6
809	J-270	1,160.00	17: Zone -	<Collection: 1 item>	318	1,298.40	59.9
258	J-143	1,083.00	16: Zone -	<Collection: 1 item>	318	1,221.60	60
1286	J-376	1,143.00	17: Zone -	<Collection: 0 items>	0	1,281.60	60
215	J-98	1,141.00	17: Zone -	<Collection: 0 items>	0	1,281.00	60.6
264	J-149	1,092.00	16: Zone -	<Collection: 1 item>	101	1,232.60	60.8
311	J-198	1,140.00	17: Zone -	<Collection: 0 items>	0	1,281.20	61.1
932	J-302	1,075.00	16: Zone -	<Collection: 1 item>	318	1,216.40	61.2
1153	J-352	1,145.00	17: Zone -	<Collection: 0 items>	0	1,286.70	61.3
1213	J-364	1,090.00	16: Zone -	<Collection: 0 items>	0	1,231.80	61.3
765	J-253	1,228.00	18: Zone -	<Collection: 1 item>	636	1,370.60	61.7
683	J-228	1,144.00	17: Zone -	<Collection: 1 item>	318	1,287.10	61.9
794	J-265	1,142.00	17: Zone -	<Collection: 1 item>	318	1,285.30	62
818	J-275	1,090.00	16: Zone -	<Collection: 1 item>	101	1,234.40	62.5
949	J-309	1,136.00	17: Zone -	<Collection: 1 item>	318	1,281.00	62.7
307	J-194	1,135.00	17: Zone -	<Collection: 0 items>	0	1,281.20	63.3
896	J-291	1,152.00	17: Zone -	<Collection: 1 item>	318	1,299.00	63.6
1160	J-354	1,138.00	17: Zone -	<Collection: 1 item>	218	1,285.10	63.6
1250	J-370	1,085.00	16: Zone -	<Collection: 0 items>	0	1,232.80	63.9
216	J-99	1,133.00	17: Zone -	<Collection: 0 items>	0	1,281.00	64
934	J-303	1,074.00	16: Zone -	<Collection: 1 item>	318	1,222.00	64
249	J-V1-II	1,133.00	17: Zone -	<Collection: 1 item>	606	1,281.10	64.1
287	J-173	1,133.00	17: Zone -	<Collection: 0 items>	0	1,281.10	64.1
664	J-219	1,059.00	16: Zone -	<Collection: 1 item>	322	1,208.60	64.7
1053	J-330	1,170.00	17: Zone -	<Collection: 0 items>	0	1,319.80	64.8
697	J-232	1,132.00	17: Zone -	<Collection: 1 item>	450	1,282.30	65
1253	J-371	1,078.00	16: Zone -	<Collection: 0 items>	0	1,228.60	65.2
937	J-304	1,060.00	16: Zone -	<Collection: 1 item>	636	1,210.70	65.2
315	J-202	1,130.00	17: Zone -	<Collection: 0 items>	0	1,280.90	65.3
662	J-218	1,058.00	16: Zone -	<Collection: 1 item>	322	1,209.30	65.4
725	J-238	1,070.00	16: Zone -	<Collection: 1 item>	636	1,221.50	65.5
677	J-225	1,135.00	17: Zone -	<Collection: 1 item>	331	1,287.70	66.1
773	J-257	1,216.00	18: Zone -	<Collection: 1 item>	318	1,368.80	66.1
675	Balterra	1,135.00	17: Zone -	<Collection: 1 item>	172	1,288.00	66.2
1281	J-374	1,128.00	17: Zone -	<Collection: 0 items>	0	1,281.60	66.5
308	J-195	1,130.00	17: Zone -	<Collection: 1 item>	477	1,283.70	66.5
1189	J-359	1,055.00	16: Zone -	<Collection: 0 items>	0	1,208.90	66.6
660	J-217	1,077.00	16: Zone -	<Collection: 1 item>	222	1,231.00	66.6
310	J-197	1,126.00	17: Zone -	<Collection: 0 items>	0	1,281.70	67.4
922	J-299	1,050.00	16: Zone -	<Collection: 1 item>	318	1,206.70	67.8
797	J-266	1,128.00	17: Zone -	<Collection: 1 item>	636	1,285.00	67.9
650	J-212	1,131.00	17: Zone -	<Collection: 1 item>	540	1,288.20	68
217	J-100	1,123.00	17: Zone -	<Collection: 0 items>	0	1,280.90	68.3
1065	J-333	1,129.00	17: Zone -	<Collection: 1 item>	172	1,287.10	68.4
727	J-239	1,052.00	16: Zone -	<Collection: 1 item>	481	1,210.50	68.6
940	J-305	1,059.00	16: Zone -	<Collection: 1 item>	636	1,217.80	68.7
670	J-222	1,130.00	17: Zone -	<Collection: 1 item>	172	1,289.30	68.9
210	J-V7-II	1,220.00	18: Zone -	<Collection: 1 item>	339.5	1,379.40	69
294	J-V7-III	1,220.00	18: Zone -	<Collection: 1 item>	339.5	1,380.00	69.2
759	J-250	1,210.00	18: Zone -	<Collection: 1 item>	318	1,370.00	69.2
652	J-213	1,128.00	17: Zone -	<Collection: 1 item>	222	1,288.60	69.5
313	J-200	1,120.00	17: Zone -	<Collection: 0 items>	0	1,280.90	69.6
1194	J-360	1,062.00	16: Zone -	<Collection: 0 items>	0	1,223.50	69.9
947	J-308	1,120.00	17: Zone -	<Collection: 1 item>	242	1,282.30	70.2
654	J-214	1,126.00	17: Zone -	<Collection: 1 item>	394	1,289.10	70.5
820	J-276	1,072.00	16: Zone -	<Collection: 1 item>	101	1,236.40	71.1

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1167	J-356	1,119.00	17: Zone -	<Collection: 0 items>	0	1,285.00	71.8
250	J-V1-I	1,114.00	17: Zone -	<Collection: 1 item>	606	1,280.60	72.1
816	J-274	1,070.00	16: Zone -	<Collection: 1 item>	101	1,238.80	73
309	J-196	1,112.00	16: Zone -	<Collection: 1 item>	318	1,280.90	73.1
763	J-252	1,200.00	18: Zone -	<Collection: 1 item>	636	1,369.80	73.5
787	J-262	1,196.00	18: Zone -	<Collection: 1 item>	318	1,365.90	73.5
252	J-136	1,110.00	17: Zone -	<Collection: 1 item>	318	1,280.20	73.7
218	J-101	1,110.00	17: Zone -	<Collection: 0 items>	0	1,280.80	73.9
681	J-227	1,116.00	17: Zone -	<Collection: 1 item>	410	1,287.10	74
260	J-V24-I	1,109.00	17: Zone -	<Collection: 1 item>	159	1,280.70	74.3
945	J-307	1,112.00	17: Zone -	<Collection: 1 item>	242	1,284.30	74.5
742	J-245	1,034.00	16: Zone -	<Collection: 1 item>	318	1,206.60	74.7
729	J-240	1,035.00	16: Zone -	<Collection: 1 item>	481	1,208.20	74.9
925	J-300	1,058.00	16: Zone -	<Collection: 1 item>	260	1,231.30	75
799	J-267	1,110.00	17: Zone -	<Collection: 1 item>	477	1,283.80	75.2
691	J-229	1,066.00	16: Zone -	<Collection: 1 item>	101	1,239.90	75.2
278	J-164	1,110.00	17: Zone -	<Collection: 0 items>	0	1,284.30	75.4
804	J-269	1,110.00	17: Zone -	<Collection: 1 item>	795	1,284.80	75.6
251	J-135	1,105.00	17: Zone -	<Collection: 0 items>	0	1,280.50	75.9
259	J-144	1,105.00	17: Zone -	<Collection: 0 items>	0	1,280.50	75.9
887	J-287	1,193.00	18: Zone -	<Collection: 1 item>	318	1,370.30	76.7
666	J-220	1,030.00	16: Zone -	<Collection: 1 item>	481	1,207.70	76.9
208	J-91	1,201.00	18: Zone -	<Collection: 0 items>	0	1,379.10	77.1
314	J-201	1,200.00	18: Zone -	<Collection: 0 items>	0	1,378.70	77.3
207	J-90	1,200.00	18: Zone -	<Collection: 0 items>	0	1,378.90	77.4
775	J-258	1,190.00	18: Zone -	<Collection: 1 item>	477	1,369.20	77.5
265	J-V24-II	1,100.00	17: Zone -	<Collection: 1 item>	318	1,279.30	77.6
305	J-192	1,210.00	18: Zone -	<Collection: 1 item>	159	1,389.70	77.8
253	J-137	1,100.00	17: Zone -	<Collection: 1 item>	318	1,279.80	77.8
679	J-226	1,107.00	17: Zone -	<Collection: 1 item>	431	1,288.00	78.3
893	J-290	1,199.00	18: Zone -	<Collection: 1 item>	318	1,380.10	78.4
219	J-V23-I	1,098.00	17: Zone -	<Collection: 1 item>	318	1,279.60	78.6
891	J-289	1,195.00	18: Zone -	<Collection: 1 item>	318	1,376.90	78.7
813	J-272	1,023.00	16: Zone -	<Collection: 1 item>	318	1,205.20	78.8
734	J-242	1,023.00	16: Zone -	<Collection: 1 item>	318.00	1,205.40	78.9
1130	J-347	1,100.00	17: Zone -	<Collection: 0 items>	0	1,282.50	79
206	J-89	1,196.00	18: Zone -	<Collection: 0 items>	0	1,378.80	79.1
656	J-215	1,105.00	17: Zone -	<Collection: 1 item>	394	1,288.10	79.2
701	J-234	1,098.00	17: Zone -	<Collection: 1 item>	350	1,281.90	79.6
236	J-119	1,195.00	18: Zone -	<Collection: 0 items>	0	1,379.00	79.6
968	J-314	1,100.00	17: Zone -	<Collection: 0 items>	0	1,284.30	79.7
974	J-316	1,100.00	17: Zone -	<Collection: 0 items>	0	1,284.30	79.7
736	J-243	1,022.00	16: Zone -	<Collection: 1 item>	636	1,206.60	79.9
199	J-82	1,192.00	18: Zone -	<Collection: 0 items>	0	1,378.50	80.7
832	J-280	1,093.00	17: Zone -	<Collection: 1 item>	318	1,279.50	80.7
783	J-260	1,178.00	18: Zone -	<Collection: 1 item>	636	1,365.20	81
943	J-306	1,100.00	17: Zone -	<Collection: 1 item>	209	1,287.70	81.2
205	J-88	1,191.00	18: Zone -	<Collection: 0 items>	0	1,378.80	81.2
668	J-221	1,100.00	17: Zone -	<Collection: 1 item>	649	1,288.10	81.4
248	J-V3-I-Z2	1,190.00	18: Zone -	<Collection: 1 item>	606	1,378.40	81.5
318	J-205	1,196.00	18: Zone -	<Collection: 1 item>	159	1,384.90	81.7
228	J-111	1,190.00	18: Zone -	<Collection: 0 items>	0	1,379.00	81.8
757	J-249	1,180.00	18: Zone -	<Collection: 1 item>	318	1,369.90	82.1
699	J-233	1,092.00	17: Zone -	<Collection: 1 item>	409	1,282.50	82.4
889	J-288	1,182.00	18: Zone -	<Collection: 1 item>	318	1,372.60	82.5
244	J-V4-II-Z2	1,186.00	18: Zone -	<Collection: 1 item>	646	1,378.20	83.2

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
243	J-127	1,184.00	18: Zone -	<Collection: 0 items>	0	1,378.20	84
1201	J-362	1,090.00	17: Zone -	<Collection: 0 items>	0	1,284.30	84
232	J-115	1,185.00	18: Zone -	<Collection: 0 items>	0	1,379.40	84.1
211	J-94	1,184.00	18: Zone -	<Collection: 0 items>	0	1,378.60	84.2
823	J-277	1,045.00	16: Zone -	<Collection: 1 item>	101	1,239.90	84.3
785	J-261	1,170.00	18: Zone -	<Collection: 1 item>	477	1,365.00	84.4
801	J-268	1,088.00	17: Zone -	<Collection: 1 item>	636	1,283.80	84.7
306	J-193	1,184.00	18: Zone -	<Collection: 1 item>	159	1,380.90	85.2
970	J-315	1,090.00	17: Zone -	<Collection: 0 items>	0	1,287.10	85.3
275	J-161	1,181.00	18: Zone -	<Collection: 0 items>	0	1,378.50	85.5
1177	J-357	1,090.00	17: Zone -	<Collection: 0 items>	0	1,288.10	85.7
1139	J-348	1,180.00	18: Zone -	<Collection: 1 item>	200	1,378.50	85.9
238	J-V4-I-Z2	1,180.00	18: Zone -	<Collection: 1 item>	646	1,378.50	85.9
242	J-126	1,179.00	18: Zone -	<Collection: 0 items>	0	1,378.20	86.2
1071	J-335	1,170.00	18: Zone -	<Collection: 0 items>	0	1,369.20	86.2
212	J-95	1,179.00	18: Zone -	<Collection: 0 items>	0	1,378.50	86.3
1074	J-336	1,170.00	18: Zone -	<Collection: 1 item>	318	1,369.50	86.3
283	J-169	1,179.00	18: Zone -	<Collection: 0 items>	0	1,378.80	86.5
912	J-297	1,170.00	18: Zone -	<Collection: 1 item>	159	1,369.90	86.5
284	J-170	1,179.00	18: Zone -	<Collection: 0 items>	0	1,378.90	86.5
693	J-230	1,177.00	18: Zone -	<Collection: 1 item>	250	1,378.40	87.1
1142	J-349	1,175.00	18: Zone -	<Collection: 0 items>	0	1,378.40	88
1144	J-350	1,172.00	18: Zone -	<Collection: 1 item>	300	1,378.40	89.3
910	J-296	1,170.00	18: Zone -	<Collection: 1 item>	318	1,377.20	89.6
213	J-V3-I-Z1	1,171.00	18: Zone -	<Collection: 1 item>	67	1,378.50	89.8
713	DZ-North	1,170.00	18: Zone -	<Collection: 0 items>	0	1,378.50	90.2
872	J-284	1,170.00	18: Zone -	<Collection: 0 items>	0	1,378.50	90.2
1262	J-372	1,170.00	18: Zone -	<Collection: 0 items>	0	1,378.50	90.2
918	J-298	1,170.00	18: Zone -	<Collection: 1 item>	318	1,379.40	90.6

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
769	J-255	1,270.00	118: Zone - 3	<Collection: 1 item>	1,259.28	1,368.90	42.8
1103	J-342	1,270.00	118: Zone - 3	<Collection: 1 item>	629.64	1,369.80	43.2
1100	J-341	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,371.90	44.1
978	J-317	1,170.00	117: Zone - 2	<Collection: 1 item>	891	1,277.90	46.7
811	J-271	1,002.00	115: Zone - 0	<Collection: 1 item>	629.64	1,111.00	47.1
869	J-283	1,170.00	117: Zone - 2	<Collection: 0 items>	0	1,280.40	47.8
285	J-171	1,170.00	117: Zone - 2	<Collection: 1 item>	314.82	1,280.40	47.8
875	J-285	1,170.00	117: Zone - 2	<Collection: 0 items>	0	1,280.40	47.8
777	J-259	1,170.00	117: Zone - 2	<Collection: 1 item>	655.38	1,280.50	47.8
732	J-241	1,000.00	115: Zone - 0	<Collection: 1 item>	948.42	1,110.90	48
981	J-318	1,168.00	117: Zone - 2	<Collection: 1 item>	1,259.28	1,279.50	48.3
1233	J-368	1,000.00	115: Zone - 0	<Collection: 0 items>	0	1,111.60	48.3
1295	J-378	1,168.00	117: Zone - 2	<Collection: 0 items>	0	1,280.40	48.6
1127	J-346	1,166.00	117: Zone - 2	<Collection: 0 items>	0	1,278.70	48.8
746	J-246	1,000.00	115: Zone - 0	<Collection: 1 item>	629.64	1,113.80	49.2
767	J-254	1,256.00	118: Zone - 3	<Collection: 1 item>	1,259.28	1,370.70	49.6
830	J-279	1,162.00	117: Zone - 2	<Collection: 1 item>	198	1,277.20	49.9
241	J-V4-I-Z1	1,165.00	117: Zone - 2	<Collection: 1 item>	639.54	1,280.40	49.9
282	J-168	1,165.00	117: Zone - 2	<Collection: 1 item>	629.64	1,280.40	49.9
1180	J-358	1,090.00	116: Zone - 1	<Collection: 0 items>	0	1,205.90	50.1
965	J-313	1,092.00	116: Zone - 1	<Collection: 1 item>	629.64	1,208.00	50.2
237	J-120	1,164.00	117: Zone - 2	<Collection: 0 items>	0	1,280.50	50.4
239	J-123	1,164.00	117: Zone - 2	<Collection: 1 item>	629.64	1,280.80	50.5
245	J-129	1,163.00	117: Zone - 2	<Collection: 0 items>	0	1,280.40	50.8
1208	J-363	1,086.00	116: Zone - 1	<Collection: 0 items>	0	1,204.00	51.1
1198	J-361	1,090.00	116: Zone - 1	<Collection: 0 items>	0	1,208.10	51.1
754	J-248	1,085.00	116: Zone - 1	<Collection: 1 item>	637.56	1,204.00	51.5
246	J-V2-I	1,161.00	117: Zone - 2	<Collection: 1 item>	631.62	1,280.40	51.7
1067	J-334	1,160.00	117: Zone - 2	<Collection: 1 item>	340.56	1,279.40	51.7
900	J-293	1,170.00	117: Zone - 2	<Collection: 1 item>	314.82	1,289.50	51.7
751	J-247	1,085.00	116: Zone - 1	<Collection: 1 item>	314.82	1,204.80	51.8
288	J-174	1,160.00	117: Zone - 2	<Collection: 1 item>	314.82	1,280.40	52.1
214	J-V2-II	1,160.00	117: Zone - 2	<Collection: 1 item>	631.62	1,280.40	52.1
289	J-175	1,160.00	117: Zone - 2	<Collection: 0 items>	0	1,280.50	52.1
240	J-124	1,160.00	117: Zone - 2	<Collection: 1 item>	479.16	1,281.10	52.4
279	J-165	1,087.00	116: Zone - 1	<Collection: 1 item>	629.64	1,208.20	52.4
958	J-311	1,158.00	117: Zone - 2	<Collection: 1 item>	479.16	1,282.20	53.7
908	J-295	1,170.00	117: Zone - 2	<Collection: 1 item>	314.82	1,294.30	53.8
257	J-V25-II	1,086.00	116: Zone - 1	<Collection: 1 item>	0	1,210.60	53.9
771	J-256	1,240.00	118: Zone - 3	<Collection: 1 item>	314.82	1,364.80	54
254	J-138	1,090.00	116: Zone - 1	<Collection: 1 item>	629.64	1,215.00	54.1
1163	J-355	1,152.00	117: Zone - 2	<Collection: 0 items>	0	1,277.70	54.4
1218	J-365	1,088.00	116: Zone - 1	<Collection: 0 items>	0	1,214.10	54.5
658	J-216	1,079.00	116: Zone - 1	<Collection: 1 item>	637.56	1,205.90	54.9
826	J-278	1,164.00	117: Zone - 2	<Collection: 1 item>	314.82	1,292.70	55.7
738	J-244	1,071.00	116: Zone - 1	<Collection: 1 item>	629.64	1,200.80	56.2
929	J-301	1,078.00	116: Zone - 1	<Collection: 1 item>	629.64	1,208.20	56.3
1291	J-377	1,150.00	117: Zone - 2	<Collection: 0 items>	0	1,280.40	56.4
220	J-103	1,091.00	116: Zone - 1	<Collection: 1 item>	629.64	1,222.80	57
898	J-292	1,160.00	117: Zone - 2	<Collection: 1 item>	629.64	1,292.00	57.1
962	J-312	1,072.00	116: Zone - 1	<Collection: 1 item>	629.64	1,204.20	57.2
258	J-143	1,083.00	116: Zone - 1	<Collection: 1 item>	629.64	1,215.30	57.2
951	J-310	1,148.00	117: Zone - 2	<Collection: 0 items>	0.00	1,280.70	57.4
906	J-294	1,170.00	117: Zone - 2	<Collection: 1 item>	314.82	1,302.80	57.4
761	J-251	1,236.00	118: Zone - 3	<Collection: 1 item>	314.82	1,369.50	57.7
1156	J-353	1,149.00	117: Zone - 2	<Collection: 0 items>	0	1,283.50	58.2

710	DZ-South	1,145.00	117: Zone - 2	<Collection: 0 items>	0	1,280.40	58.6
794	J-265	1,142.00	117: Zone - 2	<Collection: 1 item>	629.64	1,277.80	58.8
932	J-302	1,075.00	116: Zone - 1	<Collection: 1 item>	629.64	1,210.90	58.8
312	J-199	1,145.00	117: Zone - 2	<Collection: 1 item>	314.82	1,281.50	59.1
809	J-270	1,160.00	117: Zone - 2	<Collection: 1 item>	629.64	1,296.60	59.1
264	J-149	1,092.00	116: Zone - 1	<Collection: 1 item>	199.98	1,229.10	59.3
1286	J-376	1,143.00	117: Zone - 2	<Collection: 0 items>	0	1,280.30	59.4
1153	J-352	1,145.00	117: Zone - 2	<Collection: 0 items>	0	1,282.90	59.6
1213	J-364	1,090.00	116: Zone - 1	<Collection: 0 items>	0	1,228.00	59.7
1160	J-354	1,138.00	117: Zone - 2	<Collection: 1 item>	431.64	1,276.90	60.1
215	J-98	1,141.00	117: Zone - 2	<Collection: 0 items>	0	1,281.00	60.6
311	J-198	1,140.00	117: Zone - 2	<Collection: 0 items>	0	1,280.20	60.7
765	J-253	1,228.00	118: Zone - 3	<Collection: 1 item>	1,259.28	1,368.40	60.7
937	J-304	1,060.00	116: Zone - 1	<Collection: 1 item>	1,259.28	1,201.00	61
818	J-275	1,090.00	116: Zone - 1	<Collection: 1 item>	199.98	1,231.30	61.1
662	J-218	1,058.00	116: Zone - 1	<Collection: 1 item>	637.56	1,199.50	61.2
683	J-228	1,144.00	117: Zone - 2	<Collection: 1 item>	629.64	1,285.50	61.2
664	J-219	1,059.00	116: Zone - 1	<Collection: 1 item>	637.56	1,200.80	61.3
934	J-303	1,074.00	116: Zone - 1	<Collection: 1 item>	629.64	1,216.00	61.4
922	J-299	1,050.00	116: Zone - 1	<Collection: 1 item>	629.64	1,192.60	61.7
949	J-309	1,136.00	117: Zone - 2	<Collection: 1 item>	629.64	1,279.40	62
725	J-238	1,070.00	116: Zone - 1	<Collection: 1 item>	1,259.28	1,214.10	62.3
1250	J-370	1,085.00	116: Zone - 1	<Collection: 0 items>	0	1,229.50	62.5
1189	J-359	1,055.00	116: Zone - 1	<Collection: 0 items>	0	1,199.80	62.7
896	J-291	1,152.00	117: Zone - 2	<Collection: 1 item>	629.64	1,296.90	62.7
697	J-232	1,132.00	117: Zone - 2	<Collection: 1 item>	891	1,277.60	63
773	J-257	1,216.00	118: Zone - 3	<Collection: 1 item>	629.64	1,361.60	63
307	J-194	1,135.00	117: Zone - 2	<Collection: 0 items>	0	1,281.00	63.2
1253	J-371	1,078.00	116: Zone - 1	<Collection: 0 items>	0	1,224.10	63.2
249	J-V1-II	1,133.00	117: Zone - 2	<Collection: 1 item>	1,199.88	1,279.30	63.3
216	J-99	1,133.00	117: Zone - 2	<Collection: 0 items>	0	1,280.40	63.8
287	J-173	1,133.00	117: Zone - 2	<Collection: 0 items>	0	1,280.40	63.8
727	J-239	1,052.00	116: Zone - 1	<Collection: 1 item>	952.38	1,199.50	63.8
797	J-266	1,128.00	117: Zone - 2	<Collection: 1 item>	1,259.28	1,276.80	64.4
1053	J-330	1,170.00	117: Zone - 2	<Collection: 0 items>	0	1,319.80	64.8
315	J-202	1,130.00	117: Zone - 2	<Collection: 0 items>	0	1,280.30	65
677	J-225	1,135.00	117: Zone - 2	<Collection: 1 item>	655.38	1,286.90	65.7
1281	J-374	1,128.00	117: Zone - 2	<Collection: 0 items>	0	1,280.20	65.8
940	J-305	1,059.00	116: Zone - 1	<Collection: 1 item>	1,259.28	1,211.60	66
308	J-195	1,130.00	117: Zone - 2	<Collection: 1 item>	944.46	1,282.70	66.1
675	Balterra	1,135.00	117: Zone - 2	<Collection: 1 item>	340.56	1,287.90	66.2
310	J-197	1,126.00	117: Zone - 2	<Collection: 0 items>	0	1,279.90	66.6
660	J-217	1,077.00	116: Zone - 1	<Collection: 1 item>	439.56	1,230.90	66.6
787	J-262	1,196.00	118: Zone - 3	<Collection: 1 item>	629.64	1,351.30	67.2
1065	J-333	1,129.00	117: Zone - 2	<Collection: 1 item>	340.56	1,284.70	67.4
650	J-212	1,131.00	117: Zone - 2	<Collection: 1 item>	1,069.20	1,287.30	67.6
1194	J-360	1,062.00	116: Zone - 1	<Collection: 0 items>	0	1,218.40	67.7
217	J-100	1,123.00	117: Zone - 2	<Collection: 0 items>	0	1,279.70	67.8
210	J-V7-II	1,220.00	118: Zone - 3	<Collection: 1 item>	672.21	1,377.10	68
1167	J-356	1,119.00	117: Zone - 2	<Collection: 0 items>	0	1,276.40	68.1
742	J-245	1,034.00	116: Zone - 1	<Collection: 1 item>	629.64	1,191.80	68.3
670	J-222	1,130.00	117: Zone - 2	<Collection: 1 item>	340.56	1,288.20	68.4
313	J-200	1,120.00	117: Zone - 2	<Collection: 0 items>	0	1,279.10	68.8
729	J-240	1,035.00	116: Zone - 1	<Collection: 1 item>	952.38	1,194.30	68.9
652	J-213	1,128.00	117: Zone - 2	<Collection: 1 item>	439.56	1,287.50	69
759	J-250	1,210.00	118: Zone - 3	<Collection: 1 item>	629.64	1,369.50	69
294	J-V7-III	1,220.00	118: Zone - 3	<Collection: 1 item>	672.21	1,380.00	69.2
947	J-308	1,120.00	117: Zone - 2	<Collection: 1 item>	479.16	1,280.40	69.4
654	J-214	1,126.00	117: Zone - 2	<Collection: 1 item>	780.12	1,287.80	70
820	J-276	1,072.00	116: Zone - 1	<Collection: 1 item>	199.98	1,234.20	70.2

799	J-267	1,110.00	117: Zone - 2	<Collection: 1 item>	944.46	1,272.30	70.2
666	J-220	1,030.00	116: Zone - 1	<Collection: 1 item>	952.38	1,193.90	70.9
250	J-V1-I	1,114.00	117: Zone - 2	<Collection: 1 item>	1,199.88	1,278.40	71.1
813	J-272	1,023.00	116: Zone - 1	<Collection: 1 item>	629.64	1,187.40	71.1
734	J-242	1,023.00	116: Zone - 1	<Collection: 1 item>	629.64	1,188.10	71.4
804	J-269	1,110.00	117: Zone - 2	<Collection: 1 item>	1,574.10	1,275.40	71.6
309	J-196	1,112.00	116: Zone - 1	<Collection: 1 item>	629.64	1,278.50	72
252	J-136	1,110.00	117: Zone - 2	<Collection: 1 item>	629.64	1,277.00	72.3
763	J-252	1,200.00	118: Zone - 3	<Collection: 1 item>	1,259.28	1,367.20	72.4
816	J-274	1,070.00	116: Zone - 1	<Collection: 1 item>	199.98	1,238.20	72.8
218	J-101	1,110.00	117: Zone - 2	<Collection: 0 items>	0	1,279.10	73.2
260	J-V24-I	1,109.00	117: Zone - 2	<Collection: 1 item>	314.82	1,278.40	73.3
681	J-227	1,116.00	117: Zone - 2	<Collection: 1 item>	811.8	1,285.90	73.5
925	J-300	1,058.00	116: Zone - 1	<Collection: 1 item>	514.8	1,228.10	73.6
945	J-307	1,112.00	117: Zone - 2	<Collection: 1 item>	479.16	1,282.10	73.6
736	J-243	1,022.00	116: Zone - 1	<Collection: 1 item>	1,259.28	1,192.60	73.8
783	J-260	1,178.00	118: Zone - 3	<Collection: 1 item>	1,259.28	1,348.90	73.9
278	J-164	1,110.00	117: Zone - 2	<Collection: 0 items>	0	1,282.10	74.5
251	J-135	1,105.00	117: Zone - 2	<Collection: 0 items>	0	1,278.10	74.9
259	J-144	1,105.00	117: Zone - 2	<Collection: 0 items>	0	1,278.10	74.9
775	J-258	1,190.00	118: Zone - 3	<Collection: 1 item>	944.46	1,363.50	75.1
265	J-V24-II	1,100.00	117: Zone - 2	<Collection: 1 item>	629.64	1,273.70	75.1
691	J-229	1,066.00	116: Zone - 1	<Collection: 1 item>	199.98	1,239.90	75.2
314	J-201	1,200.00	118: Zone - 3	<Collection: 0 items>	0	1,374.20	75.4
208	J-91	1,201.00	118: Zone - 3	<Collection: 0 items>	0	1,375.40	75.5
893	J-290	1,199.00	118: Zone - 3	<Collection: 1 item>	629.64	1,373.60	75.5
891	J-289	1,195.00	118: Zone - 3	<Collection: 1 item>	629.64	1,369.70	75.6
207	J-90	1,200.00	118: Zone - 3	<Collection: 0 items>	0	1,375.10	75.7
887	J-287	1,193.00	118: Zone - 3	<Collection: 1 item>	629.64	1,368.10	75.7
253	J-137	1,100.00	117: Zone - 2	<Collection: 1 item>	629.64	1,275.50	75.9
219	J-V23-I	1,098.00	117: Zone - 2	<Collection: 1 item>	629.64	1,275.00	76.6
701	J-234	1,098.00	117: Zone - 2	<Collection: 1 item>	693	1,276.20	77.1
236	J-119	1,195.00	118: Zone - 3	<Collection: 0 items>	0	1,373.30	77.1
785	J-261	1,170.00	118: Zone - 3	<Collection: 1 item>	944.46	1,348.30	77.1
1130	J-347	1,100.00	117: Zone - 2	<Collection: 0 items>	0	1,278.30	77.1
206	J-89	1,196.00	118: Zone - 3	<Collection: 0 items>	0	1,374.60	77.3
305	J-192	1,210.00	118: Zone - 3	<Collection: 1 item>	314.82	1,389.50	77.7
679	J-226	1,107.00	117: Zone - 2	<Collection: 1 item>	853.38	1,288.00	78.3
656	J-215	1,105.00	117: Zone - 2	<Collection: 1 item>	780.12	1,286.40	78.5
832	J-280	1,093.00	117: Zone - 2	<Collection: 1 item>	629.64	1,274.60	78.6
199	J-82	1,192.00	118: Zone - 3	<Collection: 0 items>	0	1,373.70	78.6
968	J-314	1,100.00	117: Zone - 2	<Collection: 0 items>	0	1,282.10	78.8
974	J-316	1,100.00	117: Zone - 2	<Collection: 0 items>	0	1,282.10	78.8
248	J-V3-I-Z2	1,190.00	118: Zone - 3	<Collection: 1 item>	1,199.88	1,372.80	79.1
228	J-111	1,190.00	118: Zone - 3	<Collection: 0 items>	0	1,373.00	79.2
205	J-88	1,191.00	118: Zone - 3	<Collection: 0 items>	0	1,374.50	79.4
801	J-268	1,088.00	117: Zone - 2	<Collection: 1 item>	1,259.28	1,272.10	79.7
318	J-205	1,196.00	118: Zone - 3	<Collection: 1 item>	314.82	1,381.20	80.1
244	J-V4-II-Z2	1,186.00	118: Zone - 3	<Collection: 1 item>	1,279.08	1,371.20	80.1
668	J-221	1,100.00	117: Zone - 2	<Collection: 1 item>	1,285.02	1,285.50	80.2
889	J-288	1,182.00	118: Zone - 3	<Collection: 1 item>	629.64	1,368.10	80.5
699	J-233	1,092.00	117: Zone - 2	<Collection: 1 item>	809.82	1,278.40	80.7
943	J-306	1,100.00	117: Zone - 2	<Collection: 1 item>	413.82	1,286.80	80.8
243	J-127	1,184.00	118: Zone - 3	<Collection: 0 items>	0	1,371.20	81
232	J-115	1,185.00	118: Zone - 3	<Collection: 0 items>	0	1,373.10	81.4
757	J-249	1,180.00	118: Zone - 3	<Collection: 1 item>	629.64	1,368.30	81.5
211	J-94	1,184.00	118: Zone - 3	<Collection: 0 items>	0	1,373.40	82
238	J-V4-I-Z2	1,180.00	118: Zone - 3	<Collection: 1 item>	1,279.08	1,370.70	82.5
306	J-193	1,184.00	118: Zone - 3	<Collection: 1 item>	314.82	1,374.90	82.6
275	J-161	1,181.00	118: Zone - 3	<Collection: 0 items>	0	1,373.00	83.1

1201	J-362	1,090.00	117: Zone - 2	<Collection: 0 items>	0	1,282.10	83.1
242	J-126	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,371.20	83.2
283	J-169	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,372.00	83.5
284	J-170	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,372.50	83.7
1139	J-348	1,180.00	118: Zone - 3	<Collection: 1 item>	396	1,373.50	83.7
1071	J-335	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,363.90	83.9
212	J-95	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,373.10	84
823	J-277	1,045.00	116: Zone - 1	<Collection: 1 item>	199.98	1,239.80	84.3
970	J-315	1,090.00	117: Zone - 2	<Collection: 0 items>	0	1,285.90	84.8
1074	J-336	1,170.00	118: Zone - 3	<Collection: 1 item>	629.64	1,366.20	84.9
693	J-230	1,177.00	118: Zone - 3	<Collection: 1 item>	495	1,373.20	84.9
1177	J-357	1,090.00	117: Zone - 2	<Collection: 0 items>	0	1,286.40	85
912	J-297	1,170.00	118: Zone - 3	<Collection: 1 item>	314.82	1,368.00	85.7
1142	J-349	1,175.00	118: Zone - 3	<Collection: 0 items>	0	1,373.40	85.8
910	J-296	1,170.00	118: Zone - 3	<Collection: 1 item>	629.64	1,369.80	86.5
1144	J-350	1,172.00	118: Zone - 3	<Collection: 1 item>	594	1,373.20	87.1
213	J-V3-I-Z1	1,171.00	118: Zone - 3	<Collection: 1 item>	132.66	1,373.10	87.4
918	J-298	1,170.00	118: Zone - 3	<Collection: 1 item>	629.64	1,372.40	87.6
713	DZ-North	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,373.10	87.9
872	J-284	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,373.10	87.9
1262	J-372	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,373.10	87.9

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
769	J-255	1,270.00	118: Zone - 3	<Collection: 1 item>	2,139.50	1,363.80	40.6
830	J-279	1,162.00	117: Zone - 2	<Collection: 1 item>	336.4	1,258.50	41.8
777	J-259	1,170.00	117: Zone - 2	<Collection: 1 item>	1,113.48	1,267.30	42.1
1103	J-342	1,270.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,367.50	42.2
978	J-317	1,170.00	117: Zone - 2	<Collection: 1 item>	1,513.80	1,268.20	42.5
1180	J-358	1,090.00	116: Zone - 1	<Collection: 0 items>	0	1,189.30	43
811	J-271	1,002.00	115: Zone - 0	<Collection: 1 item>	1,069.75	1,103.20	43.8
1208	J-363	1,086.00	116: Zone - 1	<Collection: 0 items>	0	1,187.70	44
1100	J-341	1,270.00	118: Zone - 3	<Collection: 0 items>	0.00	1,371.80	44
754	J-248	1,085.00	116: Zone - 1	<Collection: 1 item>	1,083.21	1,187.70	44.4
732	J-241	1,000.00	115: Zone - 0	<Collection: 1 item>	1,611.36	1,102.90	44.5
1127	J-346	1,166.00	117: Zone - 2	<Collection: 0 items>	0	1,270.40	45.2
1067	J-334	1,160.00	117: Zone - 2	<Collection: 1 item>	578.61	1,264.50	45.2
981	J-318	1,168.00	117: Zone - 2	<Collection: 1 item>	2,139.50	1,272.50	45.2
1233	J-368	1,000.00	115: Zone - 0	<Collection: 0 items>	0.00	1,104.80	45.3
285	J-171	1,170.00	117: Zone - 2	<Collection: 1 item>	534.88	1,275.10	45.5
869	J-283	1,170.00	117: Zone - 2	<Collection: 0 items>	0.00	1,275.10	45.5
922	J-299	1,050.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,156.10	45.9
1295	J-378	1,168.00	117: Zone - 2	<Collection: 0 items>	0	1,275.20	46.4
875	J-285	1,170.00	117: Zone - 2	<Collection: 0 items>	0	1,277.70	46.6
1163	J-355	1,152.00	117: Zone - 2	<Collection: 0 items>	0.00	1,259.70	46.6
1218	J-365	1,088.00	116: Zone - 1	<Collection: 0 items>	0.00	1,195.90	46.7
738	J-244	1,071.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,179.50	47
751	J-247	1,085.00	116: Zone - 1	<Collection: 1 item>	534.88	1,193.90	47.1
282	J-168	1,165.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,275.10	47.6
658	J-216	1,079.00	116: Zone - 1	<Collection: 1 item>	1,083.21	1,189.30	47.7
241	J-V4-I-Z1	1,165.00	117: Zone - 2	<Collection: 1 item>	1,086.57	1,275.40	47.8
746	J-246	1,000.00	115: Zone - 0	<Collection: 1 item>	1,069.75	1,110.70	47.9
239	J-123	1,164.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,274.90	48
237	J-120	1,164.00	117: Zone - 2	<Collection: 0 items>	0	1,275.30	48.2
767	J-254	1,256.00	118: Zone - 3	<Collection: 1 item>	2,139.50	1,368.60	48.7
771	J-256	1,240.00	118: Zone - 3	<Collection: 1 item>	534.88	1,352.90	48.9
245	J-129	1,163.00	117: Zone - 2	<Collection: 0 items>	0	1,276.10	48.9
662	J-218	1,058.00	116: Zone - 1	<Collection: 1 item>	1,083.21	1,171.80	49.2
900	J-293	1,170.00	117: Zone - 2	<Collection: 1 item>	534.88	1,284.30	49.5
254	J-138	1,090.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,204.80	49.7
1198	J-361	1,090.00	116: Zone - 1	<Collection: 0 items>	0.00	1,205.20	49.8
246	J-V2-I	1,161.00	117: Zone - 2	<Collection: 1 item>	1,073.12	1,276.50	50
240	J-124	1,160.00	117: Zone - 2	<Collection: 1 item>	814.09	1,275.70	50.1
965	J-313	1,092.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,207.80	50.1
279	J-165	1,087.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,203.10	50.2
214	J-V2-II	1,160.00	117: Zone - 2	<Collection: 1 item>	1,073.12	1,277.70	50.9
289	J-175	1,160.00	117: Zone - 2	<Collection: 0 items>	0.00	1,277.70	50.9
288	J-174	1,160.00	117: Zone - 2	<Collection: 1 item>	534.88	1,277.70	50.9
937	J-304	1,060.00	116: Zone - 1	<Collection: 1 item>	2,139.50	1,177.80	51
257	J-V25-II	1,086.00	116: Zone - 1	<Collection: 1 item>	0.00	1,203.90	51
727	J-239	1,052.00	116: Zone - 1	<Collection: 1 item>	1,618.08	1,170.20	51.1
794	J-265	1,142.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,260.20	51.1
958	J-311	1,158.00	117: Zone - 2	<Collection: 1 item>	814.09	1,276.80	51.4
962	J-312	1,072.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,191.30	51.6
813	J-272	1,023.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,142.30	51.6
908	J-295	1,170.00	117: Zone - 2	<Collection: 1 item>	534.88	1,289.50	51.7
742	J-245	1,034.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,153.50	51.7
1160	J-354	1,138.00	117: Zone - 2	<Collection: 1 item>	733.35	1,257.70	51.8
664	J-219	1,059.00	116: Zone - 1	<Collection: 1 item>	1,083.21	1,178.70	51.8

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1189	J-359	1,055.00	116: Zone - 1	<Collection: 0 items>	0.00	1,175.60	52.2
787	J-262	1,196.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,317.20	52.4
734	J-242	1,023.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,144.20	52.4
258	J-143	1,083.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,205.50	53
729	J-240	1,035.00	116: Zone - 1	<Collection: 1 item>	1,618.08	1,158.00	53.2
220	J-103	1,091.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,214.60	53.5
929	J-301	1,078.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,201.80	53.6
725	J-238	1,070.00	116: Zone - 1	<Collection: 1 item>	2,139.50	1,195.90	54.5
826	J-278	1,164.00	117: Zone - 2	<Collection: 1 item>	534.88	1,290.20	54.6
1291	J-377	1,150.00	117: Zone - 2	<Collection: 0 items>	0.00	1,276.30	54.7
1156	J-353	1,149.00	117: Zone - 2	<Collection: 0 items>	0.00	1,275.50	54.7
932	J-302	1,075.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,201.90	54.9
898	J-292	1,160.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,287.10	55
666	J-220	1,030.00	116: Zone - 1	<Collection: 1 item>	1,618.08	1,157.40	55.1
773	J-257	1,216.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,344.60	55.6
1153	J-352	1,145.00	117: Zone - 2	<Collection: 0 items>	0.00	1,273.70	55.7
797	J-266	1,128.00	117: Zone - 2	<Collection: 1 item>	2,139.50	1,257.20	55.9
906	J-294	1,170.00	117: Zone - 2	<Collection: 1 item>	534.88	1,300.30	56.4
761	J-251	1,236.00	118: Zone - 3	<Collection: 1 item>	534.88	1,367.20	56.7
951	J-310	1,148.00	117: Zone - 2	<Collection: 0 items>	0.00	1,279.20	56.7
264	J-149	1,092.00	116: Zone - 1	<Collection: 1 item>	339.76	1,223.30	56.8
1213	J-364	1,090.00	116: Zone - 1	<Collection: 0 items>	0	1,221.80	57
710	DZ-South	1,145.00	117: Zone - 2	<Collection: 0 items>	0.00	1,277.10	57.2
1286	J-376	1,143.00	117: Zone - 2	<Collection: 0 items>	0	1,275.40	57.3
934	J-303	1,074.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,206.60	57.4
783	J-260	1,178.00	118: Zone - 3	<Collection: 1 item>	2,139.50	1,310.70	57.4
809	J-270	1,160.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,293.60	57.8
736	J-243	1,022.00	116: Zone - 1	<Collection: 1 item>	2,139.50	1,156.10	58
765	J-253	1,228.00	118: Zone - 3	<Collection: 1 item>	2,139.50	1,363.00	58.4
799	J-267	1,110.00	117: Zone - 2	<Collection: 1 item>	1,604.63	1,245.30	58.5
697	J-232	1,132.00	117: Zone - 2	<Collection: 1 item>	1,513.80	1,267.30	58.5
312	J-199	1,145.00	117: Zone - 2	<Collection: 1 item>	534.88	1,280.60	58.7
818	J-275	1,090.00	116: Zone - 1	<Collection: 1 item>	339.76	1,226.10	58.9
683	J-228	1,144.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,281.10	59.3
1167	J-356	1,119.00	117: Zone - 2	<Collection: 0 items>	0	1,256.20	59.4
311	J-198	1,140.00	117: Zone - 2	<Collection: 0 items>	0	1,277.80	59.6
949	J-309	1,136.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,274.10	59.7
1253	J-371	1,078.00	116: Zone - 1	<Collection: 0 items>	0.00	1,216.80	60.1
1250	J-370	1,085.00	116: Zone - 1	<Collection: 0 items>	0.00	1,224.00	60.1
785	J-261	1,170.00	118: Zone - 3	<Collection: 1 item>	1,604.63	1,309.00	60.2
215	J-98	1,141.00	117: Zone - 2	<Collection: 0 items>	0	1,280.80	60.5
896	J-291	1,152.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,293.60	61.3
249	J-V1-II	1,133.00	117: Zone - 2	<Collection: 1 item>	2,038.58	1,274.90	61.4
940	J-305	1,059.00	116: Zone - 1	<Collection: 1 item>	2,139.50	1,201.90	61.8
804	J-269	1,110.00	117: Zone - 2	<Collection: 1 item>	2,674.38	1,253.50	62.1
307	J-194	1,135.00	117: Zone - 2	<Collection: 0 items>	0.00	1,280.60	63
216	J-99	1,133.00	117: Zone - 2	<Collection: 0 items>	0.00	1,278.70	63
287	J-173	1,133.00	117: Zone - 2	<Collection: 0 items>	0.00	1,278.70	63
1281	J-374	1,128.00	117: Zone - 2	<Collection: 0 items>	0	1,275.00	63.6
315	J-202	1,130.00	117: Zone - 2	<Collection: 0 items>	0	1,278.40	64.2
1194	J-360	1,062.00	116: Zone - 1	<Collection: 0 items>	0	1,210.40	64.2
1065	J-333	1,129.00	117: Zone - 2	<Collection: 1 item>	578.61	1,278.70	64.8
677	J-225	1,135.00	117: Zone - 2	<Collection: 1 item>	1,113.48	1,284.70	64.8
1053	J-330	1,170.00	117: Zone - 2	<Collection: 0 items>	0.00	1,319.80	64.8
310	J-197	1,126.00	117: Zone - 2	<Collection: 0 items>	0.00	1,275.80	64.8

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
308	J-195	1,130.00	117: Zone - 2	<Collection: 1 item>	1,604.63	1,281.00	65.3
210	J-V7-II	1,220.00	118: Zone - 3	<Collection: 1 item>	1,142.08	1,371.70	65.6
675	Balterra	1,135.00	117: Zone - 2	<Collection: 1 item>	578.61	1,287.30	65.9
650	J-212	1,131.00	117: Zone - 2	<Collection: 1 item>	1,816.56	1,284.30	66.3
217	J-100	1,123.00	117: Zone - 2	<Collection: 0 items>	0.00	1,276.70	66.5
660	J-217	1,077.00	116: Zone - 1	<Collection: 1 item>	746.81	1,230.90	66.6
313	J-200	1,120.00	117: Zone - 2	<Collection: 0 items>	0	1,274.60	66.9
947	J-308	1,120.00	117: Zone - 2	<Collection: 1 item>	814.09	1,275.00	67.1
670	J-222	1,130.00	117: Zone - 2	<Collection: 1 item>	578.61	1,286.30	67.6
652	J-213	1,128.00	117: Zone - 2	<Collection: 1 item>	746.81	1,284.40	67.7
801	J-268	1,088.00	117: Zone - 2	<Collection: 1 item>	2,139.50	1,244.70	67.8
759	J-250	1,210.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,367.80	68.3
820	J-276	1,072.00	116: Zone - 1	<Collection: 1 item>	339.76	1,230.50	68.6
252	J-136	1,110.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,268.70	68.7
654	J-214	1,126.00	117: Zone - 2	<Collection: 1 item>	1,325.42	1,284.80	68.7
250	J-V1-I	1,114.00	117: Zone - 2	<Collection: 1 item>	2,038.58	1,272.80	68.7
294	J-V7-III	1,220.00	118: Zone - 3	<Collection: 1 item>	1,142.08	1,379.90	69.2
265	J-V24-II	1,100.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,259.90	69.2
775	J-258	1,190.00	118: Zone - 3	<Collection: 1 item>	1,604.63	1,350.00	69.2
763	J-252	1,200.00	118: Zone - 3	<Collection: 1 item>	2,139.50	1,360.40	69.4
891	J-289	1,195.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,355.50	69.4
309	J-196	1,112.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,272.50	69.5
893	J-290	1,199.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,360.50	69.9
260	J-V24-I	1,109.00	117: Zone - 2	<Collection: 1 item>	534.88	1,272.40	70.7
314	J-201	1,200.00	118: Zone - 3	<Collection: 0 items>	0	1,363.80	70.9
945	J-307	1,112.00	117: Zone - 2	<Collection: 1 item>	814.09	1,276.70	71.2
218	J-101	1,110.00	117: Zone - 2	<Collection: 0 items>	0	1,274.80	71.3
253	J-137	1,100.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,264.80	71.3
236	J-119	1,195.00	118: Zone - 3	<Collection: 0 items>	0.00	1,359.80	71.3
925	J-300	1,058.00	116: Zone - 1	<Collection: 1 item>	874.64	1,223.10	71.4
219	J-V23-I	1,098.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,263.40	71.6
701	J-234	1,098.00	117: Zone - 2	<Collection: 1 item>	1,177.40	1,263.70	71.7
208	J-91	1,201.00	118: Zone - 3	<Collection: 0 items>	0.00	1,366.90	71.8
887	J-287	1,193.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,359.00	71.8
207	J-90	1,200.00	118: Zone - 3	<Collection: 0 items>	0	1,366.10	71.9
681	J-227	1,116.00	117: Zone - 2	<Collection: 1 item>	1,379.24	1,282.20	71.9
278	J-164	1,110.00	117: Zone - 2	<Collection: 0 items>	0.00	1,276.70	72.1
251	J-135	1,105.00	117: Zone - 2	<Collection: 0 items>	0	1,271.80	72.2
259	J-144	1,105.00	117: Zone - 2	<Collection: 0 items>	0	1,271.90	72.2
816	J-274	1,070.00	116: Zone - 1	<Collection: 1 item>	339.76	1,237.10	72.3
228	J-111	1,190.00	118: Zone - 3	<Collection: 0 items>	0	1,358.60	72.9
244	J-V4-II-Z2	1,186.00	118: Zone - 3	<Collection: 1 item>	2,173.14	1,354.80	73
206	J-89	1,196.00	118: Zone - 3	<Collection: 0 items>	0	1,365.00	73.1
1130	J-347	1,100.00	117: Zone - 2	<Collection: 0 items>	0	1,269.30	73.2
832	J-280	1,093.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,262.50	73.3
248	J-V3-I-Z2	1,190.00	118: Zone - 3	<Collection: 1 item>	2,038.58	1,359.70	73.4
199	J-82	1,192.00	118: Zone - 3	<Collection: 0 items>	0	1,362.40	73.7
243	J-127	1,184.00	118: Zone - 3	<Collection: 0 items>	0	1,354.80	73.9
238	J-V4-I-Z2	1,180.00	118: Zone - 3	<Collection: 1 item>	2,173.14	1,352.20	74.5
889	J-288	1,182.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,355.50	75.1
232	J-115	1,185.00	118: Zone - 3	<Collection: 0 items>	0	1,358.60	75.1
205	J-88	1,191.00	118: Zone - 3	<Collection: 0 items>	0	1,364.70	75.1
691	J-229	1,066.00	116: Zone - 1	<Collection: 1 item>	339.76	1,239.80	75.2
242	J-126	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,354.80	76.1
968	J-314	1,100.00	117: Zone - 2	<Collection: 0 items>	0	1,276.70	76.4

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
974	J-316	1,100.00	117: Zone - 2	<Collection: 0 items>	0	1,276.70	76.4
283	J-169	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,355.70	76.4
318	J-205	1,196.00	118: Zone - 3	<Collection: 1 item>	534.88	1,373.20	76.7
656	J-215	1,105.00	117: Zone - 2	<Collection: 1 item>	1,325.42	1,282.30	76.7
211	J-94	1,184.00	118: Zone - 3	<Collection: 0 items>	0	1,361.50	76.8
699	J-233	1,092.00	117: Zone - 2	<Collection: 1 item>	1,375.88	1,269.60	76.8
306	J-193	1,184.00	118: Zone - 3	<Collection: 1 item>	534.88	1,361.80	76.9
284	J-170	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,357.10	77.1
305	J-192	1,210.00	118: Zone - 3	<Collection: 1 item>	534.88	1,389.10	77.5
275	J-161	1,181.00	118: Zone - 3	<Collection: 0 items>	0	1,360.30	77.6
668	J-221	1,100.00	117: Zone - 2	<Collection: 1 item>	2,183.24	1,279.40	77.6
679	J-226	1,107.00	117: Zone - 2	<Collection: 1 item>	1,449.88	1,287.90	78.3
1071	J-335	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,351.10	78.4
212	J-95	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,360.60	78.6
1139	J-348	1,180.00	118: Zone - 3	<Collection: 1 item>	672.8	1,362.00	78.7
757	J-249	1,180.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,363.20	79.3
693	J-230	1,177.00	118: Zone - 3	<Collection: 1 item>	841	1,361.20	79.7
943	J-306	1,100.00	117: Zone - 2	<Collection: 1 item>	703.08	1,284.80	80
910	J-296	1,170.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,355.40	80.2
1142	J-349	1,175.00	118: Zone - 3	<Collection: 0 items>	0	1,361.60	80.7
1201	J-362	1,090.00	117: Zone - 2	<Collection: 0 items>	0	1,276.70	80.8
1074	J-336	1,170.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,357.50	81.1
918	J-298	1,170.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,358.20	81.4
1144	J-350	1,172.00	118: Zone - 3	<Collection: 1 item>	1,009.20	1,361.10	81.8
213	J-V3-I-Z1	1,171.00	118: Zone - 3	<Collection: 1 item>	225.39	1,360.50	82
912	J-297	1,170.00	118: Zone - 3	<Collection: 1 item>	534.88	1,360.00	82.2
713	DZ-North	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,360.50	82.4
872	J-284	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,360.50	82.4
1262	J-372	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,360.50	82.4
970	J-315	1,090.00	117: Zone - 2	<Collection: 0 items>	0	1,281.30	82.8
1177	J-357	1,090.00	117: Zone - 2	<Collection: 0 items>	0	1,282.30	83.2
823	J-277	1,045.00	116: Zone - 1	<Collection: 1 item>	339.76	1,239.60	84.2

Id	Label	Scaled Length (ft)	Diameter (in)	Hazen-Williams C	Has Check Valve?	Minor Loss	Flow (gpm)	Headloss Gradient (ft/ft)	Length (User Defined) (ft)	Velocity (ft/s)
850	P-509	158	12	130	FALSE	0	0.00	0	0	0
851	P-510	243	12	130	FALSE	0	0.00	0	0	0
878	P-527	451	12	130	FALSE	0	-115.81	0	0	0.33
871	P-522	811	12	130	FALSE	0	111.74	0	0	0.32
877	P-526	1,269	12	130	FALSE	0	0	0	0	0
613	P-359	1,326	12	130	FALSE	0	907.73	0.002	1,326	2.58
1297	P-800	1,432	12	130	FALSE	0	-219.04	0	0	0.62
616	P-362	1,484	12	130	FALSE	0	747.55	0.001	1,484	2.12
1159	P-709	1,762	12	130	FALSE	0	-596.72	0.001	0	1.69
1166	P-714	1,805	12	130	FALSE	0	-639.89	0.001	0	1.82
1296	P-799	2,015	12	130	FALSE	0	111.74	0	0	0.32
913	P-546	2,112	12	130	FALSE	0	-400.46	0	0	1.14
944	P-568	2,317	12	130	FALSE	0	703.08	0.001	0	1.99
1162	P-711	2,402	12	130	FALSE	0	-334.91	0	0	0.95
1294	P-798	2,513	12	130	FALSE	0	175.60	0	0	0.5
1161	P-710	2,586	12	130	FALSE	0	-241.45	0	0	0.68
1298	P-801	2,615	12	130	FALSE	0	-107.30	0	0	0.3
1075	P-657	4,087	12	130	FALSE	0	-767.89	0.002	0	2.18
1170	P-717	4,225	12	130	FALSE	0	-587.75	0.001	0	1.67
1171	P-718	4,601	12	130	FALSE	0	-791.85	0.002	0	2.25
1076	P-658	5,050	12	130	FALSE	0	-650.42	0.001	0	1.85
1133	P-692	5,511	12	130	FALSE	0	253.06	0	0	0.72
1107	P-676	5,983	12	130	FALSE	0	709.54	0.001	0	2.01
1290	P-795	8,450	12	130	FALSE	0	640.89	0.001	0	1.82
1264	P-780	553	12	130	FALSE	0	0.00	0	1,097	0
522	P-249	583	12	130	FALSE	0	-969.87	0.002	583	2.75
502	P-223	909	12	130	FALSE	0	-707.32	0.001	909	2.01
456	P-159	1,101	12	130	FALSE	0	0.00	0	1,239	0
602	P-346	1,106	12	130	FALSE	0	822.64	0.002	1,106	2.33
458	P-161	1,227	12	130	FALSE	0	-1,297.10	0.004	1,227	3.68
520	P-246	1,478	12	130	FALSE	0	-969.87	0.002	1,478	2.75
457	P-160	1,805	12	130	FALSE	0	0.00	0	1,800	0
452	P-152	1,809	12	130	FALSE	0	1,203.28	0.004	1,705	3.41
464	P-167	1,865	12	130	FALSE	0	1,179.70	0.003	1,865	3.35
598	P-342	1,871	12	130	FALSE	0	-591.47	0.001	1,871	1.68
601	P-345	2,573	12	130	FALSE	0	-650.68	0.001	2,573	1.85
453	P-155	2,705	12	130	FALSE	0	-307.64	0	1,307	0.87
501	P-222	2,758	12	130	FALSE	0	-876.04	0.002	2,758	2.49
519	P-245	3,085	12	130	FALSE	0	-121.22	0	3,085	0.34
599	P-343	3,544	12	130	FALSE	0	168.73	0	3,544	0.48
465	P-168	4,142	12	130	FALSE	0	-267.42	0	3,112	0.76
715	P-427	239	16	130	FALSE	0	0	0	0	0
1206	P-742	306	16	130	FALSE	0	0	0	2,609	0
714	P-426	473	16	130	FALSE	0	0	0	0	0
1073	P-656	532	16	130	FALSE	0	0	0	0	0
625	P-372	604	16	130	FALSE	0	803.19	0	604	1.28
1146	P-700	669	16	130	FALSE	0	0.00	0	0	0
1232	P-759	675	16	130	FALSE	0	3,750.86	0.007	0	5.99
1202	P-740	686	16	130	FALSE	0	0.00	0	0	0
1186	P-728	806	16	130	FALSE	0	-599.02	0	0	0.96
1215	P-748	868	16	130	FALSE	0	-1,746.70	0.002	4,990	2.79
477	P-186	938	16	130	FALSE	0	2,345.40	0.003	938	3.74
476	P-185	961	16	130	FALSE	0	1,069.75	0.001	961	1.71
868	P-520	966	16	130	FALSE	0	0	0	0	0
975	P-589	1,076	16	130	FALSE	0	0	0	0	0

Id	Label	Scaled Length (ft)	Diameter (in)	Hazen-Williams C	Has Check Valve?	Minor Loss	Flow (gpm)	Headloss Gradient (ft/ft)	Length (User Defined) (ft)	Velocity (ft/s)
542	P-279	1,085	16	130	FALSE	0	-143.98	0	1,085	0.23
1251	P-771	1,099	16	130	FALSE	0	-997.46	0.001	0	1.59
539	P-271	1,156	16	130	FALSE	0	-16.75	0	908	0.03
467	P-173	1,159	16	130	FALSE	0	1,224.17	0.001	1,159	1.95
833	P-497	1,306	16	130	FALSE	0	1,069.75	0.001	0	1.71
1178	P-722	1,337	16	130	FALSE	0	0.00	0	0	0
466	P-172	1,370	16	130	FALSE	0	-1,563.64	0.001	1,370	2.5
1209	P-744	1,375	16	130	FALSE	0	0.00	0	0	0
1174	P-720	1,431	16	130	FALSE	0	0	0	0	0
952	P-572	1,463	16	130	FALSE	0	-895.93	0.001	0	1.43
865	P-518	1,641	16	130	FALSE	0	0.00	0	0	0
709	P-423	1,662	16	130	FALSE	0	225.39	0	0	0.36
610	P-356	1,687	16	130	FALSE	0	1,713.62	0.002	1,687	2.73
1132	P-691	1,743	16	130	FALSE	0	-484.06	0	0	0.77
470	P-176	1,756	16	130	FALSE	0	0.00	0	1,756	0
1066	P-651	1,770	16	130	FALSE	0	2,497.90	0.003	0	3.99
924	P-555	1,811	16	130	FALSE	0	223.06	0	0	0.36
909	P-544	1,871	16	130	FALSE	0	-1,464.51	0.001	0	2.34
712	P-425	1,900	16	130	FALSE	0	-641.66	0	0	1.02
905	P-542	1,931	16	130	FALSE	0	0.00	0	0	0
614	P-360	1,954	16	130	FALSE	0	489.41	0	1,954	0.78
608	P-354	2,014	16	130	FALSE	0	-814.37	0	2,014	1.3
911	P-545	2,052	16	130	FALSE	0	181.22	0	0	0.29
606	P-352	2,065	16	130	FALSE	0	2,114.92	0.002	2,065	3.37
609	P-355	2,077	16	130	FALSE	0	805.89	0	2,077	1.29
469	P-175	2,180	16	130	FALSE	0	1,775.80	0.002	2,180	2.83
1288	P-793	2,184	16	130	FALSE	0	570.85	0	0	0.91
936	P-563	2,228	16	130	FALSE	0	861.56	0	0	1.37
1237	P-763	2,261	16	130	FALSE	0	1,069.75	0.001	0	1.71
468	P-174	2,271	16	130	FALSE	0	1,509.83	0.001	2,271	2.41
1207	P-743	2,303	16	130	FALSE	0	0.00	0	2,609	0
1254	P-773	2,336	16	130	FALSE	0	-1,273.20	0.001	0	2.03
445	P-144	2,349	16	130	FALSE	0	105.35	0	2,349	0.17
1154	P-705	2,374	16	130	FALSE	0	1,919.29	0.002	0	3.06
788	P-470	2,393	16	130	FALSE	0	4,813.88	0.011	0	7.68
977	P-591	2,403	16	130	FALSE	0	0.00	0	0	0
824	P-491	2,415	16	130	FALSE	0	339.76	0	0	0.54
1191	P-732	2,432	16	130	FALSE	0	-1,215.46	0.001	0	1.94
1168	P-715	2,489	16	130	FALSE	0	-1,343.66	0.001	0	2.14
424	P-119	2,499	16	130	FALSE	0	1,960.32	0.002	2,499	3.13
478	P-187	2,506	16	130	FALSE	0	2,503.21	0.003	2,506	3.99
427	P-123	2,523	16	130	FALSE	0	-1,454.98	0.001	2,523	2.32
1283	P-790	2,530	16	130	FALSE	0	734.26	0	0	1.17
789	P-471	2,537	16	130	FALSE	0	2,139.50	0.003	0	3.41
521	P-247	2,544	16	130	FALSE	0	969.87	0.001	2,544	1.55
1282	P-789	2,552	16	130	FALSE	0	163.41	0	0	0.26
637	P-384	2,560	16	130	FALSE	0	2,890.09	0.004	2,560	4.61
449	P-148	2,592	16	130	FALSE	0	-864.52	0	2,592	1.38
636	P-383	2,599	16	130	FALSE	0	3,424.96	0.006	2,599	5.47
964	P-582	2,600	16	130	FALSE	0	-2,733.65	0.004	0	4.36
814	P-486	2,604	16	130	FALSE	0	1,069.75	0.001	0	1.71
605	P-351	2,630	16	130	FALSE	0	230.79	0	2,630	0.37
1164	P-712	2,657	16	130	FALSE	0	519.34	0	0	0.83
419	P-113	2,673	16	130	FALSE	0	-672.17	0	2,642	1.07
1155	P-706	2,691	16	130	FALSE	0	2,516.00	0.003	0	4.01

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808	P-483	2,712	16	130	FALSE	0	-5,130.83	0.013	0	8.19
508	P-231	2,716	16	130	FALSE	0	-672.20	0	2,692	1.07
450	P-149	2,719	16	130	FALSE	0	-2,161.63	0.003	2,719	3.45
828	P-494	2,728	16	130	FALSE	0	-1,470.11	0.001	0	2.35
661	P-396	2,752	16	130	FALSE	0	-5,588.58	0.015	0	8.92
600	P-344	2,775	16	130	FALSE	0	-285.66	0	2,775	0.46
1169	P-716	2,788	16	130	FALSE	0	-755.91	0	0	1.21
873	P-523	2,794	16	130	FALSE	0	0.00	0	0	0
1293	P-797	2,810	16	130	FALSE	0	-863.18	0	0	1.38
1072	P-655	2,827	16	130	FALSE	0	-767.89	0	0	1.23
556	P-297	2,835	16	130	FALSE	0	3,030.53	0.005	2,835	4.84
1287	P-792	2,840	16	130	FALSE	0	-116.73	0	0	0.19
1292	P-796	2,920	16	130	FALSE	0	-687.58	0	0	1.1
1054	P-643	3,010	16	130	FALSE	0	-4,146.42	0.009	0	6.62
425	P-120	3,032	16	130	FALSE	0	661.53	0	3,032	1.06
596	P-340	3,134	16	130	FALSE	0	1,308.62	0.001	3,134	2.09
954	P-574	3,160	16	130	FALSE	0	-1,671.21	0.002	0	2.67
1190	P-731	3,182	16	130	FALSE	0	-3,432.32	0.006	0	5.48
615	P-361	3,214	16	130	FALSE	0	-258.14	0	3,214	0.41
607	P-353	3,220	16	130	FALSE	0	1,300.55	0.001	3,220	2.08
626	P-373	3,356	16	130	FALSE	0	1,699.11	0.002	3,356	2.71
1247	P-769	3,456	16	130	FALSE	0	-1,187.22	0.001	0	1.89
479	P-188	3,476	16	130	FALSE	0	-443.47	0	3,476	0.71
1255	P-774	3,558	16	130	FALSE	0	-1,744.12	0.002	0	2.78
1143	P-698	3,566	16	130	FALSE	0	383.28	0	0	0.61
1182	P-725	3,571	16	130	FALSE	0	0.00	0	0	0
1252	P-772	3,576	16	130	FALSE	0	-2,596.29	0.004	0	4.14
821	P-489	3,589	16	130	FALSE	0	-1,428.76	0.001	0	2.28
1175	P-721	3,637	16	130	FALSE	0	0.00	0	0	0
822	P-490	3,659	16	130	FALSE	0	-1,768.53	0.002	0	2.82
972	P-587	3,847	16	130	FALSE	0	-599.02	0	0	0.96
1220	P-751	3,888	16	130	FALSE	0	0.00	0	0	0
819	P-488	3,891	16	130	FALSE	0	-1,089.00	0.001	0	1.74
935	P-562	3,923	16	130	FALSE	0	-1,414.52	0.001	0	2.26
1197	P-737	3,953	16	130	FALSE	0	-1,276.08	0.001	0	2.04
1165	P-713	4,016	16	130	FALSE	0	671.31	0	0	1.07
772	P-460	4,081	16	130	FALSE	0	2,183.45	0.003	0	3.48
941	P-566	4,104	16	130	FALSE	0	-3,354.96	0.006	0	5.35
1214	P-747	4,123	16	130	FALSE	0	-1,746.70	0.002	4,990	2.79
482	P-193	4,209	16	130	FALSE	0	1,950.14	0.002	4,209	3.11
919	P-551	4,225	16	130	FALSE	0	911.69	0.001	0	1.45
1231	P-758	4,265	16	130	FALSE	0	3,750.86	0.007	0	5.99
1257	P-776	4,280	16	130	FALSE	0	2,069.75	0.002	0	3.3
702	P-418	4,280	16	130	FALSE	0	1,177.40	0.001	0	1.88
1006	P-607	4,289	16	130	FALSE	0	-706.04	0	0	1.13
1147	P-701	4,301	16	130	FALSE	0	383.28	0	0	0.61
966	P-583	4,354	16	130	FALSE	0	-2,646.52	0.004	0	4.22
1104	P-673	4,374	16	130	FALSE	0	-1,308.27	0.001	0	2.09
867	P-519	4,447	16	130	FALSE	0	0	0	0	0
923	P-554	4,680	16	130	FALSE	0	-2,139.50	0.003	0	3.41
963	P-581	4,804	16	130	FALSE	0	-2,093.55	0.002	0	3.34
1256	P-775	4,806	16	130	FALSE	0	1,598.82	0.001	0	2.55
485	P-196	4,867	16	130	FALSE	0	-1,069.75	0.001	4,848	1.71
956	P-576	4,989	16	130	FALSE	0	-1,335.72	0.001	0	2.13
657	P-394	4,990	16	130	FALSE	0	890.04	0.001	0	1.42

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764	P-456	4,997	16	130	FALSE	0	1,515.30	0.001	0	2.42
957	P-577	4,999	16	130	FALSE	0	-294.14	0	0	0.47
802	P-478	5,066	16	130	FALSE	0	412.95	0	0	0.66
766	P-457	5,066	16	130	FALSE	0	-894.47	0.001	0	1.43
890	P-533	5,070	16	130	FALSE	0	1,059.10	0.001	0	1.69
901	P-539	5,075	16	130	FALSE	0	931.78	0.001	0	1.49
686	P-410	5,092	16	130	FALSE	0	574.97	0	0	0.92
665	P-398	5,092	16	130	FALSE	0	-1,528.18	0.001	0	2.44
680	P-406	5,093	16	130	FALSE	0	-1,362.11	0.001	0	2.17
961	P-580	5,093	16	130	FALSE	0	-169.96	0	0	0.27
667	P-399	5,096	16	130	FALSE	0	2,259.59	0.003	0	3.61
827	P-493	5,116	16	130	FALSE	0	-935.23	0.001	0	1.49
888	P-532	5,117	16	130	FALSE	0	1,728.39	0.002	0	2.76
780	P-465	5,136	16	130	FALSE	0	2,126.91	0.003	0	3.39
805	P-480	5,138	16	130	FALSE	0	-1,726.56	0.002	0	2.76
902	P-540	5,150	16	130	FALSE	0	1,001.33	0.001	0	1.6
969	P-585	5,150	16	130	FALSE	0	0.00	0	0	0
730	P-434	5,172	16	130	FALSE	0	2,045.22	0.002	0	3.26
747	P-445	5,172	16	130	FALSE	0	-1,611.36	0.002	0	2.57
895	P-536	5,191	16	130	FALSE	0	-3,243.07	0.006	0	5.17
899	P-538	5,192	16	130	FALSE	0	1,457.64	0.001	0	2.33
892	P-534	5,192	16	130	FALSE	0	-10.65	0	0	0.02
894	P-535	5,194	16	130	FALSE	0	-1,261.63	0.001	0	2.01
669	P-400	5,194	16	130	FALSE	0	926.73	0.001	0	1.48
663	P-397	5,195	16	130	FALSE	0	2,486.60	0.003	0	3.97
781	P-466	5,207	16	130	FALSE	0	2,944.89	0.005	0	4.7
800	P-477	5,207	16	130	FALSE	0	2,017.57	0.002	0	3.22
733	P-436	5,216	16	130	FALSE	0	0.00	0	0	0
807	P-482	5,242	16	130	FALSE	0	-3,057.28	0.005	0	4.88
750	P-448	5,246	16	130	FALSE	0	-671.98	0	0	1.07
897	P-537	5,250	16	130	FALSE	0	63.18	0	0	0.1
731	P-435	5,263	16	130	FALSE	0	427.14	0	0	0.68
782	P-467	5,279	16	130	FALSE	0	916.95	0.001	0	1.46
921	P-553	5,283	16	130	FALSE	0	1,046.59	0.001	0	1.67
946	P-569	5,287	16	130	FALSE	0	1,327.48	0.001	0	2.12
917	P-550	5,287	16	130	FALSE	0	920.62	0.001	0	1.47
774	P-461	5,290	16	130	FALSE	0	1,648.58	0.002	0	2.63
475	P-184	5,308	16	130	FALSE	0	-672.20	0	5,295	1.07
948	P-570	5,350	16	130	FALSE	0	683.35	0	0	1.09
752	P-449	5,375	16	130	FALSE	0	-2,187.83	0.003	0	3.49
916	P-549	5,408	16	130	FALSE	0	1,682.21	0.002	0	2.68
1172	P-719	5,410	16	130	FALSE	0	-2,991.33	0.005	0	4.77
790	P-472	5,418	16	130	FALSE	0	-1,604.63	0.001	0	2.56
776	P-462	5,419	16	130	FALSE	0	-1,290.17	0.001	0	2.06
744	P-443	5,490	16	130	FALSE	0	-1,068.65	0.001	0	1.71
1056	P-645	5,491	16	130	FALSE	0	3,244.71	0.006	0	5.18
1057	P-646	5,492	16	130	FALSE	0	1,245.32	0.001	0	1.99
1131	P-690	5,496	16	130	FALSE	0	-737.12	0	0	1.18
745	P-444	5,594	16	130	FALSE	0	2,909.78	0.005	0	4.64
920	P-552	5,619	16	130	FALSE	0	888.53	0.001	0	1.42
743	P-442	5,664	16	130	FALSE	0	842.18	0	0	1.34
1183	P-726	5,714	16	130	FALSE	0	453.01	0	0	0.72
1188	P-730	5,747	16	130	FALSE	0	2,758.62	0.004	0	4.4
1192	P-733	5,761	16	130	FALSE	0	2,216.86	0.003	0	3.54
829	P-495	5,795	16	130	FALSE	0	1,859.94	0.002	0	2.97

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914	P-547	5,879	16	130	FALSE	0	-935.34	0.001	0	1.49
748	P-446	7,695	16	130	FALSE	0	0.00	0	0	0
1236	P-762	8,386	16	130	FALSE	0	1,069.75	0.001	0	1.71
1055	P-644	250	24	130	FALSE	0	0.00	0	0	0
1187	P-729	446	24	130	FALSE	0	-599.02	0	0	0.42
417	P-111	639	24	130	FALSE	0	-2,523.00	0	639	1.79
1005	P-606	797	24	130	FALSE	0	5,549.43	0.002	0	3.94
603	P-347	837	24	130	FALSE	0	1,684.57	0	837	1.19
979	P-592	905	24	130	FALSE	0	0	0	0	0
1140	P-696	977	24	130	FALSE	0	2,523.00	0	0	1.79
848	P-508	988	24	130	FALSE	0	423.14	0	0	0.3
1098	P-670	1,257	24	130	FALSE	0	2,616.79	0.001	0	1.86
428	P-124	1,278	24	130	FALSE	0	4,953.63	0.002	1,278	3.51
518	P-244	1,365	24	130	FALSE	0	-1,506.81	0	1,365	1.07
1068	P-652	1,397	24	130	FALSE	0	-6,848.39	0.003	0	4.86
430	P-126	1,581	24	130	FALSE	0	4,167.19	0.001	1,581	2.96
429	P-125	1,610	24	130	FALSE	0	4,167.19	0.001	1,610	2.96
931	P-560	1,621	24	130	FALSE	0	-3,350.94	0.001	0	2.38
1069	P-653	1,701	24	130	FALSE	0	-4,910.99	0.002	0	3.48
1097	P-669	1,768	24	130	FALSE	0	-1,975.13	0	0	1.4
618	P-364	1,786	24	130	FALSE	0	-2,523.00	0	1,786	1.79
825	P-492	1,792	24	130	FALSE	0	-4,704.58	0.002	0	3.34
798	P-476	1,971	24	130	FALSE	0	4,671.54	0.002	0	3.31
907	P-543	2,028	24	130	FALSE	0	-7,140.80	0.003	0	5.06
460	P-163	2,082	24	130	FALSE	0	-1,543.67	0	2,082	1.09
1200	P-739	2,095	24	130	FALSE	0	3,748.50	0.001	0	2.66
1145	P-699	2,203	24	130	FALSE	0	625.92	0	0	0.44
1128	P-688	2,207	24	130	FALSE	0	3,720.94	0.001	0	2.64
953	P-573	2,267	24	130	FALSE	0	2,982.29	0.001	0	2.12
418	P-112	2,333	24	130	FALSE	0	-2,523.00	0	2,333	1.79
655	P-393	2,444	24	130	FALSE	0	-1,395.07	0	0	0.99
959	P-578	2,487	24	130	FALSE	0	-2,392.29	0	0	1.7
1129	P-689	2,518	24	130	FALSE	0	3,467.88	0.001	0	2.46
676	P-404	2,546	24	130	FALSE	0	-2,282.95	0	0	1.62
1221	P-752	2,614	24	130	FALSE	0	3,748.50	0.001	0	2.66
1158	P-708	2,617	24	130	FALSE	0	-7,413.05	0.004	0	5.26
611	P-357	2,623	24	130	FALSE	0	211.25	0	2,623	0.15
455	P-157	2,673	24	130	FALSE	0	-530.39	0	1,397	0.38
454	P-156	2,689	24	130	FALSE	0	1,270.56	0	1,239	0.9
1157	P-707	2,702	24	130	FALSE	0	-6,816.33	0.003	0	4.83
653	P-392	2,750	24	130	FALSE	0	-648.26	0	0	0.46
612	P-358	2,791	24	130	FALSE	0	-1,231.36	0	2,791	0.87
617	P-363	2,871	24	130	FALSE	0	-2,523.00	0	2,871	1.79
980	P-593	2,886	24	130	FALSE	0	1,954.08	0	0	1.39
459	P-162	2,919	24	130	FALSE	0	-1,719.27	0	4,198	1.22
927	P-557	2,988	24	130	FALSE	0	-9,497.00	0.006	0	6.74
423	P-118	3,032	24	130	FALSE	0	4,794.11	0.002	3,032	3.4
555	P-296	3,500	24	130	FALSE	0	5,936.19	0.002	3,500	4.21
982	P-594	3,679	24	130	FALSE	0	5,860.44	0.002	0	4.16
1193	P-734	3,927	24	130	FALSE	0	-107.69	0	0	0.08
1195	P-735	4,047	24	130	FALSE	0	-5,602.16	0.002	0	3.97
1196	P-736	4,098	24	130	FALSE	0	-6,878.23	0.003	0	4.88
1141	P-697	4,266	24	130	FALSE	0	1,466.92	0	0	1.04
1105	P-674	4,900	24	130	FALSE	0	870.48	0	0	0.62
760	P-454	4,996	24	130	FALSE	0	-3,572.47	0.001	0	2.53

Id	Label	Scaled Length (ft)	Diameter (in)	Hazen-Williams C	Has Check Valve?	Minor Loss	Flow (gpm)	Headloss Gradient (ft/ft)	Length (User Defined) (ft)	Velocity (ft/s)
703	P-419	5,093	24	130	FALSE	0	-3,117.47	0.001	0	2.21
756	P-452	5,097	24	130	FALSE	0	-2,018.77	0	0	1.43
1184	P-727	5,103	24	130	FALSE	0	5,068.17	0.002	0	3.59
810	P-484	5,130	24	130	FALSE	0	4,537.75	0.001	0	3.22
1269	P-783	5,155	24	130	FALSE	0	7,675.67	0.004	0	5.44
755	P-451	5,168	24	130	FALSE	0	4,132.60	0.001	0	2.93
685	P-409	5,195	24	130	FALSE	0	-2,869.79	0.001	0	2.04
770	P-459	5,208	24	130	FALSE	0	3,613.42	0.001	0	2.56
960	P-579	5,235	24	130	FALSE	0	-3,376.33	0.001	0	2.39
671	P-401	5,297	24	130	FALSE	0	-4,313.78	0.001	0	3.06
682	P-407	5,297	24	130	FALSE	0	3,880.71	0.001	0	2.75
672	P-402	5,305	24	130	FALSE	0	1,928.31	0	0	1.37
768	P-458	5,348	24	130	FALSE	0	-3,852.61	0.001	0	2.73
967	P-584	5,402	24	130	FALSE	0	6,256.29	0.003	0	4.44
762	P-455	5,490	24	130	FALSE	0	1,179.69	0	0	0.84
1106	P-675	5,604	24	130	FALSE	0	-3,248.50	0.001	0	2.3
933	P-561	5,978	24	130	FALSE	0	-452.46	0	0	0.32
1259	P-777	577	30	130	FALSE	0	-13,642.61	0.004	50	6.19
1249	P-770	715	30	130	FALSE	0	-14,881.10	0.004	50	6.75
1303	P-803	796	30	130	FALSE	0	7,202.91	0.001	0	3.27
1275	P-786	907	30	130	FALSE	0	-11,466.22	0.003	50	5.2
1261	P-778	1,030	30	130	FALSE	0	-10,108.80	0.002	50	4.59
1277	P-787	1,066	30	130	FALSE	0	13,721.06	0.004	50	6.23
1268	P-782	1,077	30	130	FALSE	0	-15,066.80	0.004	50	6.84
1266	P-781	1,249	30	130	FALSE	0	-10,513.25	0.002	50	4.77
1300	P-802	1,252	30	130	FALSE	0	12,671.29	0.003	0	5.75
983	P-595	1,593	30	130	FALSE	0	12,950.75	0.003	200	5.88
1271	P-784	1,783	30	130	FALSE	0	-7,550.30	0.001	0	3.43
1134	P-693	1,977	36	130	FALSE	0	-16,508.47	0.002	100	5.2
1102	P-672	2,429	36	130	FALSE	0	12,550.43	0.001	0	3.96
678	P-405	2,546	36	130	FALSE	0	11,024.43	0.001	0	3.47

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
J-82	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	74.1	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-88	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	76.3	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-89	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	74.4	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-90	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.6	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-91	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	74	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-V7-II	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,172.21	2,672.21	20	66.9	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-94	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	78.5	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-95	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.6	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-V3-I-Z1	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,632.66	2,132.66	20	81.3	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-V2-II	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,131.62	2,631.62	20	51.7	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-98	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	60.7	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-99	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	63.6	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-100	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	67.3	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-101	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	72.5	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-V23-I	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	72.7	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-103	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	53.7	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-111	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	75	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-115	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	77.3	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-119	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.8	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-120	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	49.8	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-V4-I-Z2	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,779.08	3,279.08	20	73.6	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-123	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	47.3	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-124	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,979.16	2,479.16	20	51.6	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-V4-I-Z1	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,139.54	2,639.54	20	49.3	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-126	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	65.1	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-127	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	67.3	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-V4-II-Z2	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,779.08	3,279.08	20	73.6	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-129	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	50.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-V2-I	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,131.62	2,631.62	20	51.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-V3-I-Z2	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,699.88	3,199.88	20	74.2	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-V1-II	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,699.88	3,199.88	20	62.3	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-V1-I	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,699.88	3,199.88	20	70	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-135	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.5	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-136	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	70	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-137	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	72.5	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-138	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	50.1	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-V25-II	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	52.5	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-143	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	54.7	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-144	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.7	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-V24-I	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	71.7	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-149	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	56	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-V24-II	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	64	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-161	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	78.7	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-164	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	64.6	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-165	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	52.2	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-168	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	49.1	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-169	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	76	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-170	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	77.3	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-171	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	46.8	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-173	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	63.3	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-174	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	50.7	20	46.3	875: J-285	20	42.9	769: J-255	TRUE
J-175	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	51.8	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-V7-III	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,172.21	2,672.21	20	69.3	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-192	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	77.7	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-193	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	79.5	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-194	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	63.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-195	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,444.46	2,944.46	20	65.9	20	46.5	978: J-317	20	42.9	769: J-255	TRUE
J-196	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	70	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-197	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	65.6	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-198	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	59.8	20	46.7	978: J-317	20	42.9	769: J-255	TRUE

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
J-199	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	58.9	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-200	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	67.7	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-201	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	71.8	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-202	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	64.6	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-205	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	76.5	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-212	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,569.20	3,069.20	20	67.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-213	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,939.56	2,439.56	20	68.6	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-214	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,280.12	2,780.12	20	69.6	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-215	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,280.12	2,780.12	20	77.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-216	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,137.56	2,637.56	20	52.7	20	48	1180: J-358	20	42.9	769: J-255	TRUE
J-217	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,939.56	2,439.56	20	66.7	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-218	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,137.56	2,637.56	20	57.8	20	48.8	1180: J-358	20	42.9	769: J-255	TRUE
J-219	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,137.56	2,637.56	20	59.2	20	48.9	1180: J-358	20	42.9	769: J-255	TRUE
J-220	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,452.38	2,952.38	20	66.3	20	49	1180: J-358	20	42.9	769: J-255	TRUE
J-221	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,785.02	3,285.02	20	78.9	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-222	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,840.56	2,340.56	20	68.4	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
Balterra	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,840.56	2,340.56	20	66.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-225	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,155.38	2,655.38	20	65.6	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-226	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,353.38	2,853.38	20	78.4	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-227	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,311.80	2,811.80	20	72.8	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-228	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	60.4	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-229	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	75.3	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-230	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,995.00	2,495.00	20	79.4	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-232	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,391.00	2,891.00	20	59.8	20	43.9	978: J-317	20	42.9	769: J-255	TRUE
J-233	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,309.82	2,809.82	20	77.3	20	44.7	978: J-317	20	42.9	769: J-255	TRUE
J-234	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,193.00	2,693.00	20	67.3	20	43.9	978: J-317	20	42.9	769: J-255	TRUE
DZ-South	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	58.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
DZ-North	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	81.2	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-238	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	56.9	20	49.1	1218: J-365	20	42.9	769: J-255	TRUE
J-239	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,452.38	2,952.38	20	59.4	20	49	1180: J-358	20	42.9	769: J-255	TRUE
J-240	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,452.38	2,952.38	20	63.3	20	49	1180: J-358	20	42.9	769: J-255	TRUE
J-241	115: Zone - 0	2	TRUE	1,500.00	2,000.00	2,448.42	2,948.42	20	37.1	20	45.4	811: J-271	20	42.9	769: J-255	TRUE
J-242	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	57.7	20	49.3	1180: J-358	20	42.9	769: J-255	TRUE
J-243	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	69.8	20	49.2	1180: J-358	20	42.9	769: J-255	TRUE
J-244	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	53.7	20	49.2	1180: J-358	20	42.9	769: J-255	TRUE
J-245	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	63.5	20	49.1	1180: J-358	20	42.9	769: J-255	TRUE
J-246	115: Zone - 0	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	47.5	20	45.4	811: J-271	20	42.9	769: J-255	TRUE
J-247	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	50.5	20	49.2	1180: J-358	20	42.9	769: J-255	TRUE
J-248	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,137.56	2,637.56	20	49.7	20	48.7	1180: J-358	20	42.9	769: J-255	TRUE
J-249	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	80.6	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-250	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	68.9	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-251	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	57.3	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-252	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	70.8	20	42.7	769: J-255	20	42.7	769: J-255	TRUE
J-253	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	59.8	20	42.7	769: J-255	20	42.7	769: J-255	TRUE
J-254	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	49.4	20	42.6	769: J-255	20	42.6	769: J-255	TRUE
J-255	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	41.2	20	43.2	1103: J-342	20	43.2	1103: J-342	TRUE
J-256	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	50	20	42	769: J-255	20	42	769: J-255	TRUE
J-257	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	59.1	20	42.3	769: J-255	20	42.3	769: J-255	TRUE
J-258	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,444.46	2,944.46	20	71.8	20	42.4	769: J-255	20	42.4	769: J-255	TRUE
J-259	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,155.38	2,655.38	20	45.7	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-260	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	57.5	20	42.3	769: J-255	20	42.3	769: J-255	TRUE
J-261	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,444.46	2,944.46	20	56.3	20	42.3	769: J-255	20	42.3	769: J-255	TRUE
J-262	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	55.8	20	42.3	769: J-255	20	42.3	769: J-255	TRUE
J-265	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	56.1	20	46	777: J-259	20	42.9	769: J-255	TRUE
J-266	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	61.4	20	46.1	777: J-259	20	42.9	769: J-255	TRUE
J-267	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,444.46	2,944.46	20	63	20	46.2	777: J-259	20	42.9	769: J-255	TRUE
J-268	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	72	20	46.3	777: J-259	20	42.9	769: J-255	TRUE
J-269	117: Zone - 2	2	TRUE	1,500.00	2,000.00	3,074.10	3,574.10	20	67.2	20	46.4	777: J-259	20	42.9	769: J-255	TRUE
J-270	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	58	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-271	115: Zone - 0	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	29.4	20	33.9	1233: J-368	20	33.9	1233: J-368	TRUE

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
J-272	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	53.5	20	49.3	1180: J-358	20	42.9	769: J-255	TRUE
J-274	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	72	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-275	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	57.1	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-276	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	66.1	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-277	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	81.6	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-278	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	53.7	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-279	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,698.00	2,198.00	20	44.3	20	46	777: J-259	20	42.9	769: J-255	TRUE
J-280	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	72.8	20	46.7	978: J-317	20	42.9	769: J-255	TRUE
J-283	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	45.5	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-284	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-285	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	41.3	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-287	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	73.1	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-288	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	76.3	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-289	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	71.7	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-290	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	71.9	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-291	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	61.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-292	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	55.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-293	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	49.5	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-294	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	55.8	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-295	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	51.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-296	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	82.1	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-297	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	82.2	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-298	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	83.8	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-299	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	57.3	20	49.3	1180: J-358	20	42.9	769: J-255	TRUE
J-300	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,014.80	2,514.80	20	72.2	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-301	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	56	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-302	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	57.7	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-303	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	59.4	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-304	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	57	20	49.7	1180: J-358	20	42.9	769: J-255	TRUE
J-305	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	64.7	20	50.1	1180: J-358	20	42.9	769: J-255	TRUE
J-306	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,913.82	2,413.82	20	68.5	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-307	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,979.16	2,479.16	20	72.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-308	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,979.16	2,479.16	20	68.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-309	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	60.6	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-310	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	57.3	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-311	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,979.16	2,479.16	20	52.8	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-312	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	55.5	20	49.8	1180: J-358	20	42.9	769: J-255	TRUE
J-313	116: Zone - 1	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	50.3	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-314	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	72.4	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-315	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	80.3	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-316	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	70	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-317	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,391.00	2,891.00	20	43.8	20	46.6	1127: J-346	20	42.9	769: J-255	TRUE
J-318	117: Zone - 2	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	46.6	20	45.1	978: J-317	20	42.9	769: J-255	TRUE
J-330	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	64.9	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-333	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,840.56	2,340.56	20	65.2	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-334	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,840.56	2,340.56	20	49.4	20	45.9	777: J-259	20	42.9	769: J-255	TRUE
J-335	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.9	20	42.5	769: J-255	20	42.5	769: J-255	TRUE
J-336	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	82.1	20	42.7	769: J-255	20	42.7	769: J-255	TRUE
J-341	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	44.2	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-342	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	42.7	20	42.8	769: J-255	20	42.8	769: J-255	TRUE
J-346	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	46.6	20	44.5	978: J-317	20	42.9	769: J-255	TRUE
J-347	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.9	20	44.5	978: J-317	20	42.9	769: J-255	TRUE
J-348	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,896.00	2,396.00	20	79	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-349	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.7	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-350	118: Zone - 3	2	TRUE	1,500.00	2,000.00	2,094.00	2,594.00	20	81.4	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-352	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	57.3	20	46.5	777: J-259	20	42.9	769: J-255	TRUE
J-353	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	56.9	20	46.6	777: J-259	20	42.9	769: J-255	TRUE
J-354	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,931.64	2,431.64	20	55.3	20	46	830: J-279	20	42.9	769: J-255	TRUE
J-355	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	50.6	20	46	777: J-259	20	42.9	769: J-255	TRUE
J-356	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	64.3	20	46.2	777: J-259	20	42.9	769: J-255	TRUE

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
J-357	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	82.4	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-358	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	44.5	20	49.5	1208: J-363	20	42.9	769: J-255	TRUE
J-359	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	58.8	20	49.6	1180: J-358	20	42.9	769: J-255	TRUE
J-360	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	66	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-361	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	51	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-362	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.7	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-363	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	47.9	20	48.7	1180: J-358	20	42.9	769: J-255	TRUE
J-364	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	55.8	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-365	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	45.3	20	49.6	1180: J-358	20	42.9	769: J-255	TRUE
J-368	115: Zone - 0	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	33.9	20	32.8	811: J-271	20	32.8	811: J-271	TRUE
J-370	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	59.5	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-371	116: Zone - 1	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	60.6	20	50.2	1180: J-358	20	42.9	769: J-255	TRUE
J-372	118: Zone - 3	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.5	20	42.9	769: J-255	20	42.9	769: J-255	TRUE
J-374	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	64.7	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-376	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	58.5	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-377	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	55.5	20	46.8	978: J-317	20	42.9	769: J-255	TRUE
J-378	117: Zone - 2	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	46.9	20	46.7	869: J-283	20	42.9	769: J-255	TRUE

Ultimate Build-out

OVERSIZED MAP

-Watercad Model Ultimate Buildout

TO REVIEW SEE DOCKET SUPERVISOR

DOCKET W-02450A-06-0253

Reservoir Report

Id	Label	Elevation (ft)	Zone	Outflow (gpm)	Hydraulic Grade (ft)
1276	R-29	1,208.00	116: Zone - 1	16,685.21	1,208.00
1274	R-28	1,231.00	116: Zone - 1	11,678.58	1,231.00
1248	R-21	1,240.00	116: Zone - 1	16,004.01	1,240.00
1265	Silver	1,288.00	117: Zone - 2	11,151.34	1,288.00
689	Balterra-Res	1,288.00	117: Zone - 2	13,186.61	1,288.00
1258	Belmont-ISR	1,281.00	117: Zone - 2	16,810.49	1,281.00
1299	R-31	1,285.00	117: Zone - 2	17,060.66	1,285.00
1267	R-25	1,320.00	117: Zone - 2	15,183	1,320.00
1270	R-26	1,370.00	118: Zone - 3	7,743.04	1,370.00
1093	R-10	1,372.00	118: Zone - 3	16,320.13	1,372.00
1089	R-8	1,365.00	118: Zone - 3	15,046.51	1,365.00
1086	R-7	1,390.00	118: Zone - 3	15,856.26	1,390.00
1278	R-30	1,390.00	118: Zone - 3	13,619.12	1,390.00
1260	R-23	1,380.00	118: Zone - 3	15,370.78	1,380.00
319	Belm-Vill-18	1,487.00	1115: Zone - 4	15,314.37	1,487.00
1272	R-27	1,498.00	1115: Zone - 4	14,697.88	1,498.00
1095	R-11	1,470.00	1115: Zone - 4	15,471.47	1,470.00

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
675	Balterra	1,135.00	<None>	<Collection: 1 item>	172	1,290.00	67.1
120	CAP-Belmont	1,363.00	18: Zone -	<Collection: 1 item>	0	1,514.00	65.4
1058	CAP-west	1,370.00	<None>	<Collection: 0 items>	0	1,484.70	49.6
713	DZ-North	1,170.00	<None>	<Collection: 0 items>	0	1,355.00	80.1
710	DZ-South	1,145.00	<None>	<Collection: 0 items>	0	1,309.90	71.3
121	J-2	1,354.00	18: Zone -	<Collection: 0 items>	0	1,506.60	66
122	J-3	1,335.00	18: Zone -	<Collection: 0 items>	0	1,502.80	72.6
124	J-5	1,341.00	18: Zone -	<Collection: 0 items>	0	1,500.40	69
125	J-6	1,343.00	18: Zone -	<Collection: 0 items>	0	1,498.40	67.2
126	J-7	1,325.00	18: Zone -	<Collection: 0 items>	0	1,496.70	74.3
127	J-8	1,318.00	18: Zone -	<Collection: 0 items>	0	1,492.70	75.6
128	J-9	1,301.00	18: Zone -	<Collection: 0 items>	0	1,489.60	81.6
129	J-10	1,281.00	18: Zone -	<Collection: 0 items>	0	1,484.80	88.2
131	J-12	1,335.00	18: Zone -	<Collection: 0 items>	0	1,498.40	70.7
132	J-13	1,314.00	18: Zone -	<Collection: 0 items>	0	1,495.50	78.5
134	J-15	1,320.00	18: Zone -	<Collection: 0 items>	0	1,495.90	76.1
136	J-17	1,330.00	18: Zone -	<Collection: 0 items>	0	1,496.60	72.1
137	J-18	1,323.00	18: Zone -	<Collection: 0 items>	0	1,497.00	75.3
139	J-20	1,311.00	18: Zone -	<Collection: 0 items>	0	1,497.10	80.5
140	J-21	1,330.00	18: Zone -	<Collection: 0 items>	0	1,503.30	75
141	J-22	1,350.00	18: Zone -	<Collection: 0 items>	0	1,504.30	66.8
142	J-23	1,346.00	18: Zone -	<Collection: 0 items>	0	1,500.50	66.8
143	J-24	1,346.00	18: Zone -	<Collection: 0 items>	0	1,499.30	66.3
144	J-25	1,345.00	18: Zone -	<Collection: 0 items>	0	1,496.70	65.6
145	J-26	1,344.00	18: Zone -	<Collection: 0 items>	0	1,496.30	65.9
153	J-34	1,355.00	18: Zone -	<Collection: 0 items>	0	1,497.70	61.7
155	J-36	1,340.00	18: Zone -	<Collection: 0 items>	0	1,494.80	67
156	J-37	1,330.00	18: Zone -	<Collection: 0 items>	0	1,496.50	72
158	J-39	1,354.00	18: Zone -	<Collection: 0 items>	0	1,501.90	64
160	J-41	1,355.00	18: Zone -	<Collection: 0 items>	0	1,499.40	62.5
163	J-44	1,280.00	18: Zone -	<Collection: 0 items>	0	1,485.10	88.8
166	J-47	1,300.00	18: Zone -	<Collection: 0 items>	0	1,492.90	83.4
167	J-48	1,303.00	18: Zone -	<Collection: 0 items>	0	1,493.60	82.4
169	J-50	1,260.00	17: Zone -	<Collection: 0 items>	0	1,405.20	62.8
171	J-52	1,240.00	17: Zone -	<Collection: 0 items>	0	1,403.10	70.6
172	J-53	1,255.00	17: Zone -	<Collection: 0 items>	0	1,398.10	61.9
174	J-55	1,255.00	17: Zone -	<Collection: 0 items>	0	1,396.10	61
177	J-58	1,265.00	17: Zone -	<Collection: 0 items>	0	1,402.20	59.4
178	J-59	1,282.00	18: Zone -	<Collection: 0 items>	0	1,491.10	90.5
179	J-60	1,295.00	18: Zone -	<Collection: 0 items>	0	1,491.00	84.8
181	J-62	1,281.00	18: Zone -	<Collection: 0 items>	0	1,487.20	89.2
183	J-64	1,290.00	18: Zone -	<Collection: 0 items>	0	1,489.40	86.3
184	J-65	1,290.00	18: Zone -	<Collection: 0 items>	0	1,487.60	85.5
186	J-67	1,310.00	18: Zone -	<Collection: 0 items>	0	1,482.70	74.7
188	J-70	1,255.00	17: Zone -	<Collection: 0 items>	0	1,400.80	63.1
189	J-71	1,243.00	17: Zone -	<Collection: 0 items>	0	1,398.20	67.1
194	J-76	1,243.00	17: Zone -	<Collection: 0 items>	0	1,405.30	70.2
196	J-79	1,245.00	17: Zone -	<Collection: 0 items>	0	1,406.30	69.8
199	J-82	1,192.00	17: Zone -	<Collection: 0 items>	0	1,394.00	87.4
200	J-83	1,197.00	17: Zone -	<Collection: 0 items>	0	1,394.70	85.5
201	J-84	1,240.00	17: Zone -	<Collection: 0 items>	0	1,399.10	68.8
203	J-86	1,210.00	17: Zone -	<Collection: 0 items>	0	1,391.40	78.5
204	J-87	1,235.00	17: Zone -	<Collection: 0 items>	0	1,393.60	68.6
205	J-88	1,191.00	17: Zone -	<Collection: 0 items>	0	1,384.80	83.9
206	J-89	1,196.00	17: Zone -	<Collection: 0 items>	0	1,382.90	80.9
207	J-90	1,200.00	17: Zone -	<Collection: 0 items>	0	1,375.80	76

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
208	J-91	1,201.00	17: Zone -	<Collection: 0 items>	0	1,372.50	74.2
209	J-92	1,227.00	17: Zone -	<Collection: 0 items>	0	1,380.60	66.4
211	J-94	1,184.00	17: Zone -	<Collection: 0 items>	0	1,367.00	79.2
212	J-95	1,179.00	17: Zone -	<Collection: 0 items>	0	1,360.50	78.5
215	J-98	1,141.00	16: Zone -	<Collection: 0 items>	0	1,304.90	70.9
216	J-99	1,133.00	16: Zone -	<Collection: 0 items>	0	1,303.40	73.7
217	J-100	1,123.00	16: Zone -	<Collection: 0 items>	0	1,301.40	77.2
218	J-101	1,110.00	16: Zone -	<Collection: 0 items>	0	1,299.50	82
220	J-103	1,091.00	16: Zone -	<Collection: 1 item>	318	1,288.10	85.3
221	J-104	1,245.00	17: Zone -	<Collection: 0 items>	0	1,394.80	64.8
223	J-106	1,225.00	17: Zone -	<Collection: 0 items>	0	1,389.80	71.3
225	J-108	1,225.00	17: Zone -	<Collection: 0 items>	0	1,382.00	67.9
227	J-110	1,208.00	17: Zone -	<Collection: 0 items>	0	1,379.40	74.2
228	J-111	1,190.00	17: Zone -	<Collection: 0 items>	0	1,377.10	81
229	J-112	1,208.00	17: Zone -	<Collection: 0 items>	0	1,381.20	74.9
230	J-113	1,200.00	17: Zone -	<Collection: 0 items>	0	1,380.60	78.1
232	J-115	1,185.00	17: Zone -	<Collection: 0 items>	0	1,377.80	83.4
233	J-116	1,221.00	17: Zone -	<Collection: 0 items>	0	1,378.70	68.2
234	J-117	1,210.00	17: Zone -	<Collection: 0 items>	0	1,378.60	72.9
236	J-119	1,195.00	17: Zone -	<Collection: 0 items>	0	1,374.40	77.6
237	J-120	1,164.00	16: Zone -	<Collection: 0 items>	0	1,295.70	57
239	J-123	1,164.00	16: Zone -	<Collection: 1 item>	318	1,294.30	56.4
240	J-124	1,160.00	16: Zone -	<Collection: 1 item>	242	1,294.30	58.1
242	J-126	1,179.00	17: Zone -	<Collection: 0 items>	0	1,369.40	82.4
243	J-127	1,184.00	17: Zone -	<Collection: 0 items>	0	1,369.40	80.2
245	J-129	1,163.00	16: Zone -	<Collection: 0 items>	0	1,296.90	57.9
247	J-131	1,245.00	17: Zone -	<Collection: 0 items>	0	1,397.00	65.8
251	J-135	1,105.00	16: Zone -	<Collection: 0 items>	0	1,298.60	83.8
252	J-136	1,110.00	16: Zone -	<Collection: 1 item>	318	1,297.40	81.1
253	J-137	1,100.00	16: Zone -	<Collection: 1 item>	318	1,293.40	83.7
254	J-138	1,090.00	16: Zone -	<Collection: 1 item>	318	1,290.10	86.6
256	J-140	1,110.00	16: Zone -	<Collection: 0 items>	0	1,292.30	78.9
258	J-143	1,083.00	16: Zone -	<Collection: 1 item>	318	1,288.80	89.1
259	J-144	1,105.00	16: Zone -	<Collection: 0 items>	0	1,298.60	83.7
261	J-146	1,085.00	16: Zone -	<Collection: 1 item>	318	1,294.50	90.6
262	J-147	1,085.00	16: Zone -	<Collection: 1 item>	159	1,292.20	89.6
263	J-148	1,100.00	16: Zone -	<Collection: 1 item>	260	1,291.30	82.8
264	J-149	1,092.00	16: Zone -	<Collection: 1 item>	101	1,289.30	85.4
275	J-161	1,181.00	17: Zone -	<Collection: 0 items>	0	1,366.80	80.4
276	J-162	1,256.00	17: Zone -	<Collection: 0 items>	0	1,404.20	64.1
278	J-164	1,110.00	16: Zone -	<Collection: 0 items>	0	1,291.50	78.5
279	J-165	1,087.00	16: Zone -	<Collection: 1 item>	318	1,289.60	87.7
280	J-166	1,285.00	18: Zone -	<Collection: 0 items>	0	1,490.80	89
281	J-167	1,283.00	18: Zone -	<Collection: 0 items>	0	1,482.20	86.2
282	J-168	1,165.00	16: Zone -	<Collection: 1 item>	318	1,295.30	56.4
283	J-169	1,179.00	17: Zone -	<Collection: 0 items>	0	1,376.70	85.5
284	J-170	1,179.00	17: Zone -	<Collection: 0 items>	0	1,376.80	85.6
285	J-171	1,170.00	17: Zone -	<Collection: 1 item>	159	1,295.20	54.2
286	J-172	1,230.00	17: Zone -	<Collection: 0 items>	0	1,405.40	75.9
287	J-173	1,133.00	16: Zone -	<Collection: 0 items>	0	1,303.20	73.6
288	J-174	1,160.00	16: Zone -	<Collection: 1 item>	159	1,306.90	63.6
289	J-175	1,160.00	16: Zone -	<Collection: 0 items>	0	1,306.30	63.3
290	J-176	1,320.00	18: Zone -	<Collection: 0 items>	0	1,493.00	74.9
291	J-177	1,245.00	17: Zone -	<Collection: 0 items>	0	1,392.60	63.9
292	J-178	1,241.00	17: Zone -	<Collection: 0 items>	0	1,393.30	65.9
293	J-180	1,221.00	17: Zone -	<Collection: 0 items>	0	1,391.50	73.8

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
295	J-182	1,218.00	17: Zone -	<Collection: 0 items>	0	1,376.90	68.8
296	J-183	1,205.00	17: Zone -	<Collection: 0 items>	0	1,379.50	75.5
297	J-184	1,225.00	17: Zone -	<Collection: 0 items>	0	1,396.50	74.2
298	J-185	1,247.00	17: Zone -	<Collection: 0 items>	0	1,404.70	68.2
299	J-186	1,240.00	17: Zone -	<Collection: 0 items>	0	1,396.10	67.5
300	J-187	1,360.00	18: Zone -	<Collection: 0 items>	0	1,508.70	64.3
301	J-188	1,260.00	17: Zone -	<Collection: 0 items>	0	1,402.20	61.5
302	J-189	1,282.00	18: Zone -	<Collection: 0 items>	0	1,479.30	85.4
303	J-190	1,335.00	18: Zone -	<Collection: 0 items>	0	1,495.10	69.2
304	J-191	1,270.00	17: Zone -	<Collection: 0 items>	0	1,464.40	84.1
305	J-192	1,210.00	17: Zone -	<Collection: 1 item>	159	1,384.20	75.4
306	J-193	1,184.00	17: Zone -	<Collection: 1 item>	159	1,378.80	84.3
307	J-194	1,135.00	16: Zone -	<Collection: 0 items>	0	1,304.20	73.2
308	J-195	1,130.00	16: Zone -	<Collection: 1 item>	159	1,300.00	73.5
309	J-196	1,112.00	16: Zone -	<Collection: 1 item>	159	1,297.30	80.2
310	J-197	1,126.00	16: Zone -	<Collection: 0 items>	0	1,299.30	75
311	J-198	1,140.00	16: Zone -	<Collection: 0 items>	0	1,301.50	69.9
312	J-199	1,145.00	16: Zone -	<Collection: 1 item>	159	1,301.90	67.9
313	J-200	1,120.00	16: Zone -	<Collection: 0 items>	0	1,299.30	77.6
314	J-201	1,200.00	17: Zone -	<Collection: 0 items>	0	1,390.30	82.3
315	J-202	1,130.00	16: Zone -	<Collection: 0 items>	0	1,303.50	75.1
316	J-203	1,225.00	17: Zone -	<Collection: 0 items>	0	1,393.40	72.9
317	J-204	1,268.00	17: Zone -	<Collection: 0 items>	0	1,399.40	56.8
318	J-205	1,196.00	17: Zone -	<Collection: 1 item>	159	1,380.80	79.9
650	J-212	1,131.00	<None>	<Collection: 1 item>	222	1,290.60	69.1
652	J-213	1,128.00	<None>	<Collection: 1 item>	222	1,290.40	70.3
654	J-214	1,126.00	<None>	<Collection: 1 item>	394	1,290.30	71.1
656	J-215	1,105.00	<None>	<Collection: 1 item>	394	1,287.90	79.1
658	J-216	1,079.00	<None>	<Collection: 1 item>	322	1,286.70	89.9
660	J-217	1,077.00	<None>	<Collection: 1 item>	222	1,285.80	90.3
662	J-218	1,058.00	<None>	<Collection: 1 item>	322	1,195.50	59.5
664	J-219	1,059.00	<None>	<Collection: 1 item>	322	1,194.60	58.7
666	J-220	1,030.00	<None>	<Collection: 1 item>	322	1,194.90	71.4
668	J-221	1,100.00	<None>	<Collection: 1 item>	331	1,287.30	81
670	J-222	1,130.00	<None>	<Collection: 1 item>	172	1,290.00	69.2
677	J-225	1,135.00	<None>	<Collection: 1 item>	331	1,289.90	67
679	J-226	1,107.00	<None>	<Collection: 1 item>	431	1,289.10	78.8
681	J-227	1,116.00	<None>	<Collection: 1 item>	209	1,290.20	75.4
683	J-228	1,144.00	<None>	<Collection: 1 item>	318	1,291.10	63.6
691	J-229	1,066.00	<None>	<Collection: 1 item>	101	1,194.30	55.5
693	J-230	1,177.00	<None>	<Collection: 1 item>	450	1,392.20	93.1
697	J-232	1,132.00	<None>	<Collection: 1 item>	450	1,299.10	72.3
699	J-233	1,092.00	<None>	<Collection: 1 item>	609	1,299.30	89.7
701	J-234	1,098.00	<None>	<Collection: 1 item>	450	1,298.30	86.7
704	J-235	1,264.00	<None>	<Collection: 0 items>	0	1,407.50	62.1
725	J-238	1,070.00	<None>	<Collection: 1 item>	318	1,285.40	93.2
727	J-239	1,052.00	<None>	<Collection: 1 item>	322	1,200.40	64.2
729	J-240	1,035.00	<None>	<Collection: 1 item>	322	1,196.70	70
732	J-241	1,000.00	<None>	<Collection: 1 item>	161.2	1,194.20	84
734	J-242	1,023.00	<None>	<Collection: 1 item>	318	1,193.10	73.6
736	J-243	1,022.00	<None>	<Collection: 1 item>	318	1,194.90	74.8
738	J-244	1,071.00	<None>	<Collection: 1 item>	318	1,289.00	94.3
742	J-245	1,034.00	<None>	<Collection: 1 item>	318	1,194.50	69.5
746	J-246	1,000.00	<None>	<Collection: 1 item>	318	1,193.90	83.9
751	J-247	1,085.00	<None>	<Collection: 1 item>	159	1,289.40	88.5
754	J-248	1,085.00	<None>	<Collection: 1 item>	322	1,287.40	87.6

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
757	J-249	1,180.00	<None>	<Collection: 1 item>	318	1,383.60	88.1
759	J-250	1,210.00	<None>	<Collection: 1 item>	318	1,379.70	73.4
761	J-251	1,236.00	<None>	<Collection: 1 item>	159	1,386.40	65.1
763	J-252	1,200.00	<None>	<Collection: 1 item>	318	1,388.20	81.4
765	J-253	1,228.00	<None>	<Collection: 1 item>	318	1,390.70	70.4
767	J-254	1,256.00	<None>	<Collection: 1 item>	318	1,395.50	60.3
769	J-255	1,270.00	<None>	<Collection: 1 item>	159	1,393.20	53.3
771	J-256	1,240.00	<None>	<Collection: 1 item>	159	1,392.00	65.8
773	J-257	1,216.00	<None>	<Collection: 1 item>	318	1,391.20	75.8
775	J-258	1,190.00	<None>	<Collection: 1 item>	477	1,389.80	86.4
777	J-259	1,170.00	<None>	<Collection: 1 item>	331	1,288.40	51.2
783	J-260	1,178.00	<None>	<Collection: 1 item>	159	1,390.40	91.9
785	J-261	1,170.00	<None>	<Collection: 1 item>	318	1,389.90	95.2
787	J-262	1,196.00	<None>	<Collection: 1 item>	159	1,390.40	84.1
794	J-265	1,142.00	<None>	<Collection: 1 item>	318	1,287.70	63
797	J-266	1,128.00	<None>	<Collection: 1 item>	318	1,286.80	68.7
799	J-267	1,110.00	<None>	<Collection: 1 item>	159	1,286.10	76.2
801	J-268	1,088.00	<None>	<Collection: 1 item>	318	1,285.90	85.6
804	J-269	1,110.00	<None>	<Collection: 1 item>	159	1,286.60	76.4
809	J-270	1,160.00	<None>	<Collection: 1 item>	318	1,290.20	56.3
811	J-271	1,002.00	<None>	<Collection: 1 item>	318	1,192.60	82.5
813	J-272	1,023.00	<None>	<Collection: 1 item>	318	1,192.90	73.5
816	J-274	1,070.00	<None>	<Collection: 1 item>	101	1,289.20	94.8
818	J-275	1,061.00	<None>	<Collection: 1 item>	101	1,289.20	98.7
820	J-276	1,072.00	<None>	<Collection: 1 item>	101	1,289.20	94
823	J-277	1,045.00	<None>	<Collection: 1 item>	101	1,194.30	64.6
826	J-278	1,164.00	<None>	<Collection: 1 item>	159	1,290.00	54.5
830	J-279	1,162.00	<None>	<Collection: 1 item>	318	1,286.90	54
832	J-280	1,093.00	<None>	<Collection: 1 item>	318	1,296.60	88.1
835	J-281	1,270.00	<None>	<Collection: 0 items>	0	1,407.70	59.6
838	J-282	1,270.00	<None>	<Collection: 0 items>	0	1,474.20	88.4
869	J-283	1,170.00	<None>	<Collection: 0 items>	0	1,295.20	54.2
872	J-284	1,170.00	<None>	<Collection: 0 items>	0	1,356.20	80.6
875	J-285	1,170.00	<None>	<Collection: 0 items>	0	1,306.90	59.2
882	J-286	1,270.00	<None>	<Collection: 0 items>	0	1,406.60	59.1
887	J-287	1,193.00	<None>	<Collection: 1 item>	318	1,377.70	79.9
889	J-288	1,182.00	<None>	<Collection: 1 item>	318	1,375.10	83.5
891	J-289	1,195.00	<None>	<Collection: 1 item>	318	1,377.30	78.9
893	J-290	1,199.00	<None>	<Collection: 1 item>	318	1,379.70	78.2
896	J-291	1,152.00	<None>	<Collection: 1 item>	318	1,293.60	61.3
898	J-292	1,160.00	<None>	<Collection: 1 item>	318	1,292.90	57.5
900	J-293	1,170.00	<None>	<Collection: 1 item>	159	1,292.90	53.2
906	J-294	1,170.00	<None>	<Collection: 1 item>	159	1,290.10	52
908	J-295	1,170.00	<None>	<Collection: 1 item>	159	1,295.70	54.4
910	J-296	1,170.00	<None>	<Collection: 1 item>	318	1,377.30	89.7
912	J-297	1,170.00	<None>	<Collection: 1 item>	159	1,380.60	91.1
918	J-298	1,170.00	<None>	<Collection: 1 item>	318	1,378.50	90.2
922	J-299	1,050.00	<None>	<Collection: 1 item>	318	1,194.40	62.5
925	J-300	1,058.00	<None>	<Collection: 1 item>	260	1,194.40	59
929	J-301	1,078.00	<None>	<Collection: 1 item>	318	1,289.40	91.5
932	J-302	1,075.00	<None>	<Collection: 1 item>	318	1,288.70	92.5
934	J-303	1,074.00	<None>	<Collection: 1 item>	318	1,288.70	92.9
937	J-304	1,060.00	<None>	<Collection: 1 item>	318	1,194.30	58.1
940	J-305	1,059.00	<None>	<Collection: 1 item>	318	1,194.30	58.5
943	J-306	1,100.00	<None>	<Collection: 1 item>	209	1,288.70	81.6
945	J-307	1,112.00	<None>	<Collection: 1 item>	242	1,292.00	77.9

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
947	J-308	1,120.00	<None>	<Collection: 1 item>	242	1,294.30	75.4
949	J-309	1,136.00	<None>	<Collection: 1 item>	318	1,301.80	71.7
951	J-310	1,148.00	<None>	<Collection: 0 items>	0	1,304.00	67.5
958	J-311	1,158.00	<None>	<Collection: 1 item>	242	1,293.10	58.5
962	J-312	1,072.00	<None>	<Collection: 1 item>	318	1,289.10	93.9
965	J-313	1,108.00	<None>	<Collection: 1 item>	318	1,289.10	78.3
968	J-314	1,100.00	<None>	<Collection: 0 items>	0	1,291.40	82.8
970	J-315	1,090.00	<None>	<Collection: 0 items>	0	1,289.60	86.4
974	J-316	1,100.00	<None>	<Collection: 0 items>	0	1,291.10	82.7
978	J-317	1,170.00	<None>	<Collection: 1 item>	450	1,299.40	56
981	J-318	1,170.00	<None>	<Collection: 1 item>	318	1,299.60	56.1
992	J-319	1,270.00	<None>	<Collection: 0 items>	0	1,477.60	89.8
1019	J-322	1,270.00	<None>	<Collection: 0 items>	0	1,412.80	61.8
1023	J-323	1,270.00	<None>	<Collection: 0 items>	0	1,409.60	60.4
1030	J-324	1,270.00	<None>	<Collection: 0 items>	0	1,408.90	60.1
1033	J-325	1,258.00	<None>	<Collection: 0 items>	0	1,408.00	64.9
1042	J-327	1,270.00	<None>	<Collection: 0 items>	0	1,408.50	59.9
1046	J-328	1,311.00	<None>	<Collection: 0 items>	0	1,491.60	78.1
1049	J-329	1,308.00	<None>	<Collection: 0 items>	0	1,488.70	78.2
1053	J-330	1,170.00	<None>	<Collection: 0 items>	0	1,306.10	58.9
1062	J-332	1,072.00	<None>	<Collection: 1 item>	322	1,287.40	93.2
1065	J-333	1,129.00	<None>	<Collection: 1 item>	172	1,289.00	69.2
1067	J-334	1,160.00	<None>	<Collection: 1 item>	172	1,288.00	55.4
1071	J-335	1,170.00	<None>	<Collection: 0 items>	0	1,389.10	94.8
1074	J-336	1,170.00	<None>	<Collection: 1 item>	318	1,384.80	92.9
1077	J-337	1,270.00	<None>	<Collection: 0 items>	0	1,472.60	87.7
1081	J-338	1,300.00	<None>	<Collection: 0 items>	0	1,490.50	82.4
250	J-V1-I	1,114.00	16: Zone -	<Collection: 1 item>	606	1,299.40	80.2
249	J-V1-II	1,133.00	16: Zone -	<Collection: 1 item>	606	1,299.50	72.1
246	J-V2-I	1,161.00	16: Zone -	<Collection: 1 item>	319	1,296.10	58.5
214	J-V2-II	1,160.00	16: Zone -	<Collection: 1 item>	319	1,307.70	63.9
213	J-V3-I-Z1	1,163.00	16: Zone -	<Collection: 1 item>	67	1,356.20	83.6
248	J-V3-I-Z2	1,190.00	17: Zone -	<Collection: 1 item>	606	1,367.00	76.6
244	J-V4-II-Z2	1,186.00	17: Zone -	<Collection: 1 item>	646	1,369.40	79.4
241	J-V4-I-Z1	1,165.00	16: Zone -	<Collection: 1 item>	323	1,297.90	57.5
238	J-V4-I-Z2	1,180.00	17: Zone -	<Collection: 1 item>	646	1,376.50	85
224	J-V5-I	1,217.00	17: Zone -	<Collection: 1 item>	472	1,383.40	72
231	J-V5-II	1,195.00	17: Zone -	<Collection: 1 item>	472	1,378.70	79.5
226	J-V6-I	1,227.00	18: Zone -	<Collection: 1 item>	446	1,380.70	66.5
235	J-V6-II	1,203.00	17: Zone -	<Collection: 1 item>	446	1,375.80	74.8
268	J-V7-I	1,231.00	17: Zone -	<Collection: 1 item>	679	1,390.50	69
210	J-V7-II	1,220.00	17: Zone -	<Collection: 1 item>	339.5	1,376.20	67.6
294	J-V7-III	1,220.00	17: Zone -	<Collection: 1 item>	339.5	1,377.70	68.2
190	J-V8-I	1,245.00	17: Zone -	<Collection: 1 item>	564	1,401.00	67.5
202	J-V8-II	1,223.00	17: Zone -	<Collection: 1 item>	564	1,393.40	73.7
192	J-V9-I	1,240.00	17: Zone -	<Collection: 1 item>	651	1,398.90	68.8
269	J-V9-II	1,225.00	17: Zone -	<Collection: 1 item>	651	1,394.70	73.4
271	J-V10-I-Z2	1,258.00	17: Zone -	<Collection: 1 item>	756	1,401.20	62
187	J-V10-I-Z3	1,282.00	18: Zone -	<Collection: 1 item>	84	1,486.00	88.2
267	J-V11-III-Z2	1,240.00	17: Zone -	<Collection: 1 item>	670	1,388.70	64.3
175	J-V11-II-Z2	1,247.00	17: Zone -	<Collection: 1 item>	335	1,396.00	64.5
182	J-V11-IV-Z2	1,264.00	17: Zone -	<Collection: 1 item>	335	1,406.00	61.4
266	J-V11-I-Z2	1,237.00	17: Zone -	<Collection: 1 item>	670	1,382.90	63.1
168	J-V11-I-Z3	1,300.00	18: Zone -	<Collection: 1 item>	223	1,494.10	84
173	J-V12-I	1,261.00	17: Zone -	<Collection: 1 item>	435	1,396.50	58.6
222	J-V12-II	1,227.00	17: Zone -	<Collection: 1 item>	435	1,393.30	71.9

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
273	J-V13-III-Z2	1,263.00	17: Zone -	<Collection: 1 item>	557	1,399.30	59
176	J-V13-II-Z2	1,260.00	17: Zone -	<Collection: 1 item>	557	1,406.50	63.4
170	J-V13-I-Z2	1,237.00	17: Zone -	<Collection: 1 item>	557	1,402.80	71.8
162	J-V13-I-Z3	1,285.00	18: Zone -	<Collection: 1 item>	418	1,485.50	86.7
180	J-V14-II-Z3	1,282.00	18: Zone -	<Collection: 1 item>	367	1,485.90	88.2
272	J-V14-I-Z2	1,264.00	17: Zone -	<Collection: 1 item>	82	1,402.40	59.9
165	J-V14-I-Z3	1,289.00	18: Zone -	<Collection: 1 item>	367	1,491.30	87.5
277	J-V15-III-Z2	1,260.00	17: Zone -	<Collection: 1 item>	532	1,408.90	64.4
193	J-V15-III-Z3	1,271.00	18: Zone -	<Collection: 1 item>	532	1,462.70	83
191	J-V15-II-Z2	1,245.00	17: Zone -	<Collection: 1 item>	532	1,402.90	68.3
152	J-V15-II-Z3	1,290.00	18: Zone -	<Collection: 1 item>	532	1,481.00	82.7
270	J-V15-I-Z2	1,269.00	17: Zone -	<Collection: 1 item>	532	1,471.30	87.5
185	J-V15-I-Z3	1,300.00	18: Zone -	<Collection: 1 item>	532	1,484.70	79.9
161	J-V16-I	1,319.00	18: Zone -	<Collection: 1 item>	572	1,495.90	76.6
159	J-V16-II	1,341.00	18: Zone -	<Collection: 1 item>	572	1,497.60	67.7
151	J-V16-III	1,310.00	18: Zone -	<Collection: 1 item>	572	1,491.80	78.6
135	J-V17-I	1,320.00	18: Zone -	<Collection: 1 item>	613	1,495.90	76.1
138	J-V17-II	1,315.00	18: Zone -	<Collection: 1 item>	613	1,496.50	78.5
164	J-V17-III	1,280.00	18: Zone -	<Collection: 1 item>	613	1,487.80	89.9
123	J-V18-I	1,340.00	18: Zone -	<Collection: 1 item>	472	1,500.90	69.6
130	J-V18-II	1,352.00	18: Zone -	<Collection: 1 item>	472	1,505.30	66.3
133	J-V18-III	1,300.00	18: Zone -	<Collection: 1 item>	472	1,492.80	83.4
157	J-V19-I	1,371.00	18: Zone -	<Collection: 1 item>	672	1,504.70	57.8
154	J-V19-II	1,360.00	18: Zone -	<Collection: 1 item>	672	1,499.90	60.5
150	J-V20-II-Z3	1,320.00	18: Zone -	<Collection: 1 item>	600	1,493.90	75.3
274	J-V20-I-Z2	1,256.00	17: Zone -	<Collection: 1 item>	300	1,408.40	65.9
146	J-V20-I-Z3	1,329.00	18: Zone -	<Collection: 1 item>	600	1,495.80	72.2
148	J-V21-II-Z3	1,318.00	18: Zone -	<Collection: 1 item>	439	1,491.30	75
149	J-V21-I-Z2	1,270.00	17: Zone -	<Collection: 1 item>	219	1,475.60	88.9
147	J-V21-I-Z3	1,335.00	18: Zone -	<Collection: 1 item>	439	1,492.60	68.2
197	J-V22-I	1,269.00	17: Zone -	<Collection: 1 item>	549	1,473.00	88.3
195	J-V22-II	1,255.00	17: Zone -	<Collection: 1 item>	549	1,405.40	65.1
198	J-V22-III	1,193.00	17: Zone -	<Collection: 1 item>	549	1,394.80	87.3
219	J-V23-I	1,098.00	16: Zone -	<Collection: 1 item>	276	1,296.70	86
260	J-V24-I	1,109.00	16: Zone -	<Collection: 1 item>	780	1,297.60	81.6
265	J-V24-II	1,100.00	16: Zone -	<Collection: 1 item>	780	1,291.10	82.7
255	J-V25-I	1,110.00	16: Zone -	<Collection: 1 item>	1,100.00	1,292.00	78.7
257	J-V25-II	1,086.00	16: Zone -	<Collection: 1 item>	1,100.00	1,288.40	87.6

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
1042	J-327	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,364.30	40.8
835	J-281	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,364.60	40.9
1023	J-323	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,364.90	41.1
1019	J-322	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,365.00	41.1
1030	J-324	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,365.40	41.3
882	J-286	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,365.60	41.4
1103	J-342	1,270.00	118: Zone - 3	<Collection: 1 item>	318.00	1,370.70	43.6
769	J-255	1,270.00	118: Zone - 3	<Collection: 1 item>	636	1,371.00	43.7
1100	J-341	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,372.00	44.1
277	J-V15-III-Z2	1,260.00	118: Zone - 3	<Collection: 1 item>	532.00	1,365.00	45.4
157	J-V19-I	1,371.00	1115: Zone - 4	<Collection: 1 item>	672.00	1,476.90	45.8
1033	J-325	1,258.00	118: Zone - 3	<Collection: 0 items>	0	1,365.40	46.5
274	J-V20-I-Z2	1,256.00	118: Zone - 3	<Collection: 1 item>	300.00	1,364.90	47.1
271	J-V10-I-Z2	1,258.00	118: Zone - 3	<Collection: 1 item>	756	1,367.00	47.2
195	J-V22-II	1,255.00	118: Zone - 3	<Collection: 1 item>	549	1,364.10	47.2
276	J-162	1,256.00	118: Zone - 3	<Collection: 0 items>	0	1,365.90	47.6
875	J-285	1,170.00	117: Zone - 2	<Collection: 0 items>	0.00	1,281.00	48
317	J-204	1,268.00	118: Zone - 3	<Collection: 0 items>	0	1,379.30	48.2
182	J-V11-IV-Z2	1,264.00	118: Zone - 3	<Collection: 1 item>	335	1,375.40	48.2
704	J-235	1,264.00	118: Zone - 3	<Collection: 0 items>	0	1,375.40	48.2
869	J-283	1,170.00	117: Zone - 2	<Collection: 0 items>	0	1,281.70	48.3
285	J-171	1,170.00	117: Zone - 2	<Collection: 1 item>	159	1,281.70	48.3
154	J-V19-II	1,360.00	1115: Zone - 4	<Collection: 1 item>	672	1,472.20	48.5
811	J-271	1,002.00	115: Zone - 0	<Collection: 1 item>	318	1,114.30	48.6
301	J-188	1,260.00	118: Zone - 3	<Collection: 0 items>	0	1,372.50	48.7
272	J-V14-I-Z2	1,264.00	118: Zone - 3	<Collection: 1 item>	82	1,377.20	49
978	J-317	1,170.00	117: Zone - 2	<Collection: 1 item>	450	1,283.60	49.1
1295	J-378	1,168.00	117: Zone - 2	<Collection: 0 items>	0.00	1,281.60	49.1
732	J-241	1,000.00	115: Zone - 0	<Collection: 1 item>	479	1,114.30	49.4
1233	J-368	1,000.00	115: Zone - 0	<Collection: 0 items>	0	1,114.50	49.5
188	J-70	1,255.00	118: Zone - 3	<Collection: 0 items>	0	1,369.80	49.7
746	J-246	1,000.00	115: Zone - 0	<Collection: 1 item>	318	1,115.10	49.8
767	J-254	1,256.00	118: Zone - 3	<Collection: 1 item>	636.00	1,371.60	50
153	J-34	1,355.00	1115: Zone - 4	<Collection: 0 items>	0	1,470.90	50.1
777	J-259	1,170.00	117: Zone - 2	<Collection: 1 item>	331	1,286.00	50.2
965	J-313	1,092.00	116: Zone - 1	<Collection: 1 item>	318	1,208.00	50.2
981	J-318	1,168.00	117: Zone - 2	<Collection: 1 item>	636.00	1,284.00	50.2
241	J-V4-I-Z1	1,165.00	117: Zone - 2	<Collection: 1 item>	323	1,281.40	50.3
282	J-168	1,165.00	117: Zone - 2	<Collection: 1 item>	318	1,281.70	50.5
237	J-120	1,164.00	117: Zone - 2	<Collection: 0 items>	0	1,281.70	50.9
1127	J-346	1,166.00	117: Zone - 2	<Collection: 0 items>	0	1,283.80	51
298	J-185	1,247.00	118: Zone - 3	<Collection: 0 items>	0	1,365.00	51.1
245	J-129	1,163.00	117: Zone - 2	<Collection: 0 items>	0	1,281.20	51.1
239	J-123	1,164.00	117: Zone - 2	<Collection: 1 item>	318	1,282.60	51.3
1198	J-361	1,090.00	116: Zone - 1	<Collection: 0 items>	0	1,209.10	51.5
196	J-79	1,245.00	118: Zone - 3	<Collection: 0 items>	0	1,364.20	51.6
246	J-V2-I	1,161.00	117: Zone - 2	<Collection: 1 item>	319.00	1,281.10	51.9
191	J-V15-II-Z2	1,245.00	118: Zone - 3	<Collection: 1 item>	532	1,365.90	52.3
214	J-V2-II	1,160.00	117: Zone - 2	<Collection: 1 item>	319	1,281.00	52.4
288	J-174	1,160.00	117: Zone - 2	<Collection: 1 item>	159	1,281.00	52.4
289	J-175	1,160.00	117: Zone - 2	<Collection: 0 items>	0	1,281.00	52.4
273	J-V13-III-Z2	1,263.00	118: Zone - 3	<Collection: 1 item>	875	1,384.10	52.4
177	J-58	1,265.00	118: Zone - 3	<Collection: 0 items>	0	1,386.20	52.4
173	J-V12-I	1,261.00	118: Zone - 3	<Collection: 1 item>	435	1,382.40	52.5
160	J-41	1,355.00	1115: Zone - 4	<Collection: 0 items>	0	1,476.40	52.5
1180	J-358	1,090.00	116: Zone - 1	<Collection: 0 items>	0	1,211.50	52.6

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
194	J-76	1,243.00	118: Zone - 3	<Collection: 0 items>	0	1,364.90	52.7
900	J-293	1,170.00	117: Zone - 2	<Collection: 1 item>	159	1,291.90	52.8
190	J-V8-I	1,245.00	118: Zone - 3	<Collection: 1 item>	564	1,367.10	52.8
240	J-124	1,160.00	117: Zone - 2	<Collection: 1 item>	242	1,282.60	53
1208	J-363	1,086.00	116: Zone - 1	<Collection: 0 items>	0	1,209.00	53.2
279	J-165	1,087.00	116: Zone - 1	<Collection: 1 item>	318	1,210.00	53.2
158	J-39	1,354.00	1115: Zone - 4	<Collection: 0 items>	0	1,477.00	53.2
830	J-279	1,162.00	117: Zone - 2	<Collection: 1 item>	100	1,285.10	53.3
174	J-55	1,255.00	118: Zone - 3	<Collection: 0 items>	0.00	1,378.20	53.3
751	J-247	1,085.00	116: Zone - 1	<Collection: 1 item>	159.00	1,208.30	53.4
754	J-248	1,085.00	116: Zone - 1	<Collection: 1 item>	322	1,209.00	53.6
120	CAP-Belmont	1,363.00	1115: Zone - 4	<Collection: 1 item>	0.00	1,487.00	53.6
257	J-V25-II	1,086.00	116: Zone - 1	<Collection: 1 item>	1,100.00	1,210.80	54
192	J-V9-I	1,240.00	118: Zone - 3	<Collection: 1 item>	651	1,364.90	54
201	J-84	1,240.00	118: Zone - 3	<Collection: 0 items>	0.00	1,365.50	54.3
144	J-25	1,345.00	1115: Zone - 4	<Collection: 0 items>	0	1,470.50	54.3
958	J-311	1,158.00	117: Zone - 2	<Collection: 1 item>	242	1,283.50	54.3
1067	J-334	1,160.00	117: Zone - 2	<Collection: 1 item>	172	1,285.70	54.4
145	J-26	1,344.00	1115: Zone - 4	<Collection: 0 items>	0	1,470.00	54.5
908	J-295	1,170.00	117: Zone - 2	<Collection: 1 item>	159	1,296.70	54.8
189	J-71	1,243.00	118: Zone - 3	<Collection: 0 items>	0	1,369.90	54.9
247	J-131	1,245.00	118: Zone - 3	<Collection: 0 items>	0	1,372.20	55
299	J-186	1,240.00	118: Zone - 3	<Collection: 0 items>	0	1,367.50	55.2
143	J-24	1,346.00	1115: Zone - 4	<Collection: 0 items>	0	1,474.20	55.5
175	J-V11-II-Z2	1,247.00	118: Zone - 3	<Collection: 1 item>	335	1,375.80	55.7
169	J-50	1,260.00	118: Zone - 3	<Collection: 0 items>	0	1,388.90	55.8
300	J-187	1,360.00	1115: Zone - 4	<Collection: 0 items>	0	1,488.90	55.8
176	J-V13-II-Z2	1,260.00	118: Zone - 3	<Collection: 1 item>	557	1,389.10	55.9
142	J-23	1,346.00	1115: Zone - 4	<Collection: 0 items>	0	1,475.50	56
172	J-53	1,255.00	118: Zone - 3	<Collection: 0 items>	0	1,384.70	56.1
771	J-256	1,240.00	118: Zone - 3	<Collection: 1 item>	159	1,369.80	56.1
141	J-22	1,350.00	1115: Zone - 4	<Collection: 0 items>	0	1,480.00	56.3
254	J-138	1,090.00	116: Zone - 1	<Collection: 1 item>	318	1,220.10	56.3
121	J-2	1,354.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,484.20	56.3
826	J-278	1,164.00	117: Zone - 2	<Collection: 1 item>	159	1,294.30	56.4
1291	J-377	1,150.00	117: Zone - 2	<Collection: 0 items>	0	1,281.10	56.7
267	J-V11-III-Z2	1,240.00	118: Zone - 3	<Collection: 1 item>	670.00	1,371.80	57
658	J-216	1,079.00	116: Zone - 1	<Collection: 1 item>	322	1,211.50	57.3
929	J-301	1,078.00	116: Zone - 1	<Collection: 1 item>	318	1,210.50	57.3
159	J-V16-II	1,341.00	1115: Zone - 4	<Collection: 1 item>	572.00	1,473.80	57.5
951	J-310	1,148.00	117: Zone - 2	<Collection: 0 items>	0	1,281.00	57.5
155	J-36	1,340.00	1115: Zone - 4	<Collection: 0 items>	0	1,473.10	57.6
1163	J-355	1,152.00	117: Zone - 2	<Collection: 0 items>	0	1,285.30	57.7
1218	J-365	1,088.00	116: Zone - 1	<Collection: 0 items>	0	1,221.50	57.7
761	J-251	1,236.00	118: Zone - 3	<Collection: 1 item>	159	1,370.20	58.1
906	J-294	1,170.00	117: Zone - 2	<Collection: 1 item>	159	1,304.20	58.1
898	J-292	1,160.00	117: Zone - 2	<Collection: 1 item>	318	1,294.50	58.2
147	J-V21-I-Z3	1,335.00	1115: Zone - 4	<Collection: 1 item>	439	1,469.50	58.2
286	J-172	1,230.00	118: Zone - 3	<Collection: 0 items>	0	1,364.60	58.2
204	J-87	1,235.00	118: Zone - 3	<Collection: 0 items>	0	1,369.80	58.3
710	DZ-South	1,145.00	117: Zone - 2	<Collection: 0 items>	0	1,281.00	58.9
220	J-103	1,091.00	116: Zone - 1	<Collection: 1 item>	318	1,227.10	58.9
962	J-312	1,072.00	116: Zone - 1	<Collection: 1 item>	318	1,208.60	59.1
738	J-244	1,071.00	116: Zone - 1	<Collection: 1 item>	318.00	1,208.10	59.3
258	J-143	1,083.00	116: Zone - 1	<Collection: 1 item>	318	1,220.20	59.3
291	J-177	1,245.00	118: Zone - 3	<Collection: 0 items>	0	1,382.50	59.5

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
312	J-199	1,145.00	117: Zone - 2	<Collection: 1 item>	159.00	1,282.60	59.5
1156	J-353	1,149.00	117: Zone - 2	<Collection: 0 items>	0	1,286.80	59.6
1286	J-376	1,143.00	117: Zone - 2	<Collection: 0 items>	0	1,281.10	59.8
809	J-270	1,160.00	117: Zone - 2	<Collection: 1 item>	318.00	1,298.40	59.9
268	J-V7-I	1,231.00	118: Zone - 3	<Collection: 1 item>	679	1,370.10	60.2
269	J-V9-II	1,225.00	118: Zone - 3	<Collection: 1 item>	651	1,364.20	60.2
130	J-V18-II	1,352.00	1115: Zone - 4	<Collection: 1 item>	472	1,491.30	60.3
221	J-104	1,245.00	118: Zone - 3	<Collection: 0 items>	0	1,384.80	60.5
215	J-98	1,141.00	117: Zone - 2	<Collection: 0 items>	0	1,281.00	60.6
264	J-149	1,092.00	116: Zone - 1	<Collection: 1 item>	101	1,232.20	60.6
266	J-V11-I-Z2	1,237.00	118: Zone - 3	<Collection: 1 item>	670	1,377.20	60.7
303	J-190	1,335.00	1115: Zone - 4	<Collection: 0 items>	0	1,475.30	60.7
932	J-302	1,075.00	116: Zone - 1	<Collection: 1 item>	318	1,215.50	60.8
146	J-V20-I-Z3	1,329.00	1115: Zone - 4	<Collection: 1 item>	600	1,469.90	61
311	J-198	1,140.00	117: Zone - 2	<Collection: 0 items>	0	1,281.00	61
297	J-184	1,225.00	118: Zone - 3	<Collection: 0 items>	0	1,366.20	61.1
1213	J-364	1,090.00	116: Zone - 1	<Collection: 0 items>	0	1,231.30	61.1
1153	J-352	1,145.00	117: Zone - 2	<Collection: 0 items>	0	1,286.70	61.3
765	J-253	1,228.00	118: Zone - 3	<Collection: 1 item>	636	1,370.60	61.7
683	J-228	1,144.00	117: Zone - 2	<Collection: 1 item>	318	1,286.80	61.8
292	J-178	1,241.00	118: Zone - 3	<Collection: 0 items>	0	1,384.10	61.9
794	J-265	1,142.00	117: Zone - 2	<Collection: 1 item>	318	1,285.30	62
156	J-37	1,330.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,473.60	62.1
818	J-275	1,090.00	116: Zone - 1	<Collection: 1 item>	101.00	1,234.00	62.3
123	J-V18-I	1,340.00	1115: Zone - 4	<Collection: 1 item>	472.00	1,484.20	62.4
949	J-309	1,136.00	117: Zone - 2	<Collection: 1 item>	318	1,280.60	62.6
202	J-V8-II	1,223.00	118: Zone - 3	<Collection: 1 item>	564	1,369.20	63.3
307	J-194	1,135.00	117: Zone - 2	<Collection: 0 items>	0	1,281.30	63.3
124	J-5	1,341.00	1115: Zone - 4	<Collection: 0 items>	0	1,487.70	63.5
934	J-303	1,074.00	116: Zone - 1	<Collection: 1 item>	318	1,220.90	63.6
896	J-291	1,152.00	117: Zone - 2	<Collection: 1 item>	318	1,298.90	63.6
1160	J-354	1,138.00	117: Zone - 2	<Collection: 1 item>	218	1,285.10	63.6
1250	J-370	1,085.00	116: Zone - 1	<Collection: 0 items>	0.00	1,232.40	63.8
249	J-V1-II	1,133.00	117: Zone - 2	<Collection: 1 item>	606	1,280.80	63.9
216	J-99	1,133.00	117: Zone - 2	<Collection: 0 items>	0	1,280.80	64
122	J-3	1,335.00	1115: Zone - 4	<Collection: 0 items>	0	1,483.00	64
287	J-173	1,133.00	117: Zone - 2	<Collection: 0 items>	0.00	1,281.00	64
125	J-6	1,343.00	1115: Zone - 4	<Collection: 0 items>	0	1,492.20	64.5
209	J-92	1,227.00	118: Zone - 3	<Collection: 0 items>	0.00	1,376.50	64.7
664	J-219	1,059.00	116: Zone - 1	<Collection: 1 item>	322	1,208.50	64.7
1053	J-330	1,170.00	117: Zone - 2	<Collection: 0 items>	0	1,319.80	64.8
290	J-176	1,320.00	1115: Zone - 4	<Collection: 0 items>	0	1,469.90	64.9
1253	J-371	1,078.00	116: Zone - 1	<Collection: 0 items>	0.00	1,227.90	64.9
171	J-52	1,240.00	118: Zone - 3	<Collection: 0 items>	0	1,389.90	64.9
150	J-V20-II-Z3	1,320.00	1115: Zone - 4	<Collection: 1 item>	600	1,470.00	64.9
293	J-180	1,221.00	118: Zone - 3	<Collection: 0 items>	0	1,371.10	64.9
937	J-304	1,060.00	116: Zone - 1	<Collection: 1 item>	636	1,210.20	65
226	J-V6-I	1,227.00	118: Zone - 3	<Collection: 1 item>	446	1,377.60	65.2
315	J-202	1,130.00	117: Zone - 2	<Collection: 0 items>	0	1,280.80	65.2
662	J-218	1,058.00	116: Zone - 1	<Collection: 1 item>	322	1,209.10	65.4
725	J-238	1,070.00	116: Zone - 1	<Collection: 1 item>	636.00	1,221.50	65.5
170	J-V13-I-Z2	1,237.00	118: Zone - 3	<Collection: 1 item>	557	1,388.50	65.5
697	J-232	1,132.00	117: Zone - 2	<Collection: 1 item>	450	1,283.50	65.5
148	J-V21-II-Z3	1,318.00	1115: Zone - 4	<Collection: 1 item>	439	1,469.60	65.6
140	J-21	1,330.00	1115: Zone - 4	<Collection: 0 items>	0	1,481.90	65.7
677	J-225	1,135.00	117: Zone - 2	<Collection: 1 item>	331.00	1,287.70	66.1

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
773	J-257	1,216.00	118: Zone - 3	<Collection: 1 item>	318.00	1,368.80	66.1
675	Balterra	1,135.00	117: Zone - 2	<Collection: 1 item>	172	1,288.00	66.2
1281	J-374	1,128.00	117: Zone - 2	<Collection: 0 items>	0	1,281.10	66.2
1189	J-359	1,055.00	116: Zone - 1	<Collection: 0 items>	0	1,208.60	66.4
660	J-217	1,077.00	116: Zone - 1	<Collection: 1 item>	222	1,231.00	66.6
308	J-195	1,130.00	117: Zone - 2	<Collection: 1 item>	477	1,284.90	67
310	J-197	1,126.00	117: Zone - 2	<Collection: 0 items>	0	1,281.40	67.2
225	J-108	1,225.00	118: Zone - 3	<Collection: 0 items>	0.00	1,380.70	67.3
922	J-299	1,050.00	116: Zone - 1	<Collection: 1 item>	318	1,206.40	67.7
233	J-116	1,221.00	118: Zone - 3	<Collection: 0 items>	0	1,377.70	67.8
797	J-266	1,128.00	117: Zone - 2	<Collection: 1 item>	636.00	1,285.00	67.9
650	J-212	1,131.00	117: Zone - 2	<Collection: 1 item>	540	1,288.10	68
136	J-17	1,330.00	1115: Zone - 4	<Collection: 0 items>	0	1,487.20	68
210	J-V7-II	1,220.00	118: Zone - 3	<Collection: 1 item>	339.5	1,377.30	68
217	J-100	1,123.00	117: Zone - 2	<Collection: 0 items>	0	1,280.50	68.2
161	J-V16-I	1,319.00	1115: Zone - 4	<Collection: 1 item>	572	1,476.90	68.3
940	J-305	1,059.00	116: Zone - 1	<Collection: 1 item>	636	1,217.00	68.4
1065	J-333	1,129.00	117: Zone - 2	<Collection: 1 item>	172	1,287.10	68.4
727	J-239	1,052.00	116: Zone - 1	<Collection: 1 item>	481	1,210.30	68.5
1046	J-328	1,311.00	1115: Zone - 4	<Collection: 0 items>	0	1,469.90	68.8
670	J-222	1,130.00	117: Zone - 2	<Collection: 1 item>	172	1,289.30	68.9
295	J-182	1,218.00	118: Zone - 3	<Collection: 0 items>	0	1,377.50	69
223	J-106	1,225.00	118: Zone - 3	<Collection: 0 items>	0	1,384.90	69.2
294	J-V7-III	1,220.00	118: Zone - 3	<Collection: 1 item>	339.5	1,379.90	69.2
759	J-250	1,210.00	118: Zone - 3	<Collection: 1 item>	318.00	1,370.00	69.2
151	J-V16-III	1,310.00	1115: Zone - 4	<Collection: 1 item>	572.00	1,470.00	69.2
203	J-86	1,210.00	118: Zone - 3	<Collection: 0 items>	0	1,370.20	69.3
313	J-200	1,120.00	117: Zone - 2	<Collection: 0 items>	0	1,280.30	69.3
222	J-V12-II	1,227.00	118: Zone - 3	<Collection: 1 item>	435	1,387.40	69.4
652	J-213	1,128.00	117: Zone - 2	<Collection: 1 item>	222	1,288.50	69.4
1194	J-360	1,062.00	116: Zone - 1	<Collection: 0 items>	0	1,222.80	69.6
137	J-18	1,323.00	1115: Zone - 4	<Collection: 0 items>	0	1,484.10	69.7
947	J-308	1,120.00	117: Zone - 2	<Collection: 1 item>	242	1,281.30	69.8
186	J-67	1,310.00	1115: Zone - 4	<Collection: 0 items>	0	1,471.40	69.8
1049	J-329	1,308.00	1115: Zone - 4	<Collection: 0 items>	0	1,469.60	69.9
131	J-12	1,335.00	1115: Zone - 4	<Collection: 0 items>	0	1,497.90	70.5
654	J-214	1,126.00	117: Zone - 2	<Collection: 1 item>	394	1,289.00	70.5
820	J-276	1,072.00	116: Zone - 1	<Collection: 1 item>	101.00	1,236.20	71
316	J-203	1,225.00	118: Zone - 3	<Collection: 0 items>	0	1,389.70	71.2
250	J-V1-I	1,114.00	117: Zone - 2	<Collection: 1 item>	606	1,279.90	71.8
1167	J-356	1,119.00	117: Zone - 2	<Collection: 0 items>	0.00	1,285.00	71.8
138	J-V17-II	1,315.00	1115: Zone - 4	<Collection: 1 item>	613	1,481.40	72
309	J-196	1,112.00	117: Zone - 2	<Collection: 1 item>	159.00	1,279.30	72.4
224	J-V5-I	1,217.00	118: Zone - 3	<Collection: 1 item>	472	1,384.50	72.5
234	J-117	1,210.00	118: Zone - 3	<Collection: 0 items>	0	1,378.30	72.8
135	J-V17-I	1,320.00	1115: Zone - 4	<Collection: 1 item>	613	1,488.40	72.8
255	J-V25-I	1,110.00	117: Zone - 2	<Collection: 1 item>	1,100.00	1,278.60	73
816	J-274	1,070.00	116: Zone - 1	<Collection: 1 item>	101	1,238.80	73
252	J-136	1,110.00	117: Zone - 2	<Collection: 1 item>	318	1,279.40	73.3
200	J-83	1,197.00	118: Zone - 3	<Collection: 0 items>	0.00	1,366.40	73.3
763	J-252	1,200.00	118: Zone - 3	<Collection: 1 item>	636.00	1,369.80	73.5
787	J-262	1,196.00	118: Zone - 3	<Collection: 1 item>	318	1,365.90	73.5
1081	J-338	1,300.00	1115: Zone - 4	<Collection: 0 items>	0	1,470.00	73.6
314	J-201	1,200.00	118: Zone - 3	<Collection: 0 items>	0.00	1,370.20	73.7
218	J-101	1,110.00	117: Zone - 2	<Collection: 0 items>	0.00	1,280.20	73.7
198	J-V22-III	1,193.00	118: Zone - 3	<Collection: 1 item>	549	1,363.30	73.7

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
260	J-V24-I	1,109.00	117: Zone - 2	<Collection: 1 item>	780	1,279.30	73.7
139	J-20	1,311.00	1115: Zone - 4	<Collection: 0 items>	0	1,481.40	73.7
256	J-140	1,110.00	117: Zone - 2	<Collection: 0 items>	0	1,280.60	73.8
681	J-227	1,116.00	117: Zone - 2	<Collection: 1 item>	410	1,286.90	73.9
126	J-7	1,325.00	1115: Zone - 4	<Collection: 0 items>	0	1,495.90	74
945	J-307	1,112.00	117: Zone - 2	<Collection: 1 item>	242.00	1,283.00	74
278	J-164	1,110.00	117: Zone - 2	<Collection: 0 items>	0	1,281.10	74
134	J-15	1,320.00	1115: Zone - 4	<Collection: 0 items>	0	1,491.40	74.2
227	J-110	1,208.00	118: Zone - 3	<Collection: 0 items>	0	1,379.60	74.2
742	J-245	1,034.00	116: Zone - 1	<Collection: 1 item>	318.00	1,206.40	74.6
925	J-300	1,058.00	116: Zone - 1	<Collection: 1 item>	260	1,230.80	74.8
729	J-240	1,035.00	116: Zone - 1	<Collection: 1 item>	481.00	1,208.00	74.9
185	J-V15-I-Z3	1,300.00	1115: Zone - 4	<Collection: 1 item>	532	1,473.00	74.9
799	J-267	1,110.00	117: Zone - 2	<Collection: 1 item>	477	1,283.80	75.2
691	J-229	1,066.00	116: Zone - 1	<Collection: 1 item>	101	1,239.90	75.2
199	J-82	1,192.00	118: Zone - 3	<Collection: 0 items>	0	1,366.40	75.5
235	J-V6-II	1,203.00	118: Zone - 3	<Collection: 1 item>	446	1,377.40	75.5
259	J-144	1,105.00	117: Zone - 2	<Collection: 0 items>	0	1,279.60	75.5
251	J-135	1,105.00	117: Zone - 2	<Collection: 0 items>	0	1,279.70	75.6
804	J-269	1,110.00	117: Zone - 2	<Collection: 1 item>	795	1,284.80	75.6
229	J-112	1,208.00	118: Zone - 3	<Collection: 0 items>	0	1,382.80	75.6
127	J-8	1,318.00	1115: Zone - 4	<Collection: 0 items>	0	1,493.10	75.8
296	J-183	1,205.00	118: Zone - 3	<Collection: 0 items>	0	1,380.40	75.9
208	J-91	1,201.00	118: Zone - 3	<Collection: 0 items>	0	1,377.20	76.2
207	J-90	1,200.00	118: Zone - 3	<Collection: 0 items>	0	1,376.80	76.5
265	J-V24-II	1,100.00	117: Zone - 2	<Collection: 1 item>	780	1,276.90	76.5
263	J-148	1,100.00	117: Zone - 2	<Collection: 1 item>	260.00	1,276.90	76.6
887	J-287	1,193.00	118: Zone - 3	<Collection: 1 item>	318.00	1,370.30	76.7
666	J-220	1,030.00	116: Zone - 1	<Collection: 1 item>	481.00	1,207.50	76.8
206	J-89	1,196.00	118: Zone - 3	<Collection: 0 items>	0	1,373.60	76.8
253	J-137	1,100.00	117: Zone - 2	<Collection: 1 item>	318	1,278.60	77.3
775	J-258	1,190.00	118: Zone - 3	<Collection: 1 item>	477	1,369.20	77.5
167	J-48	1,303.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,482.30	77.6
305	J-192	1,210.00	118: Zone - 3	<Collection: 1 item>	159.00	1,389.90	77.9
152	J-V15-II-Z3	1,290.00	1115: Zone - 4	<Collection: 1 item>	532	1,470.00	77.9
219	J-V23-I	1,098.00	117: Zone - 2	<Collection: 1 item>	276.00	1,278.30	78
893	J-290	1,199.00	118: Zone - 3	<Collection: 1 item>	318	1,380.00	78.3
679	J-226	1,107.00	117: Zone - 2	<Collection: 1 item>	431	1,288.00	78.3
168	J-V11-I-Z3	1,300.00	1115: Zone - 4	<Collection: 1 item>	223	1,481.20	78.4
974	J-316	1,100.00	117: Zone - 2	<Collection: 0 items>	0.00	1,281.40	78.5
132	J-13	1,314.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,495.50	78.5
205	J-88	1,191.00	118: Zone - 3	<Collection: 0 items>	0	1,372.70	78.6
891	J-289	1,195.00	118: Zone - 3	<Collection: 1 item>	318	1,376.70	78.6
968	J-314	1,100.00	117: Zone - 2	<Collection: 0 items>	0.00	1,281.90	78.7
813	J-272	1,023.00	116: Zone - 1	<Collection: 1 item>	318.00	1,205.00	78.7
734	J-242	1,023.00	116: Zone - 1	<Collection: 1 item>	318.00	1,205.20	78.8
236	J-119	1,195.00	118: Zone - 3	<Collection: 0 items>	0.00	1,377.50	78.9
230	J-113	1,200.00	118: Zone - 3	<Collection: 0 items>	0.00	1,382.80	79.1
656	J-215	1,105.00	117: Zone - 2	<Collection: 1 item>	394	1,288.10	79.2
166	J-47	1,300.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,483.70	79.5
1130	J-347	1,100.00	117: Zone - 2	<Collection: 0 items>	0	1,283.70	79.5
736	J-243	1,022.00	116: Zone - 1	<Collection: 1 item>	636	1,206.40	79.8
701	J-234	1,098.00	117: Zone - 2	<Collection: 1 item>	350.00	1,283.10	80.1
231	J-V5-II	1,195.00	118: Zone - 3	<Collection: 1 item>	472	1,380.10	80.1
832	J-280	1,093.00	117: Zone - 2	<Collection: 1 item>	318	1,278.20	80.1
1139	J-348	1,180.00	118: Zone - 3	<Collection: 1 item>	200.00	1,366.40	80.6

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
248	J-V3-I-Z2	1,190.00	118: Zone - 3	<Collection: 1 item>	606.00	1,376.40	80.6
184	J-65	1,290.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,476.50	80.7
783	J-260	1,178.00	118: Zone - 3	<Collection: 1 item>	636.00	1,365.20	81
302	J-189	1,282.00	1115: Zone - 4	<Collection: 0 items>	0	1,469.50	81.1
318	J-205	1,196.00	118: Zone - 3	<Collection: 1 item>	159	1,383.50	81.1
943	J-306	1,100.00	117: Zone - 2	<Collection: 1 item>	209	1,287.70	81.2
668	J-221	1,100.00	117: Zone - 2	<Collection: 1 item>	649	1,288.10	81.4
179	J-60	1,295.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,483.30	81.5
183	J-64	1,290.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,478.70	81.7
228	J-111	1,190.00	118: Zone - 3	<Collection: 0 items>	0.00	1,378.90	81.7
693	J-230	1,177.00	118: Zone - 3	<Collection: 1 item>	250.00	1,366.30	81.9
128	J-9	1,301.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,490.70	82.1
757	J-249	1,180.00	118: Zone - 3	<Collection: 1 item>	318.00	1,369.90	82.1
244	J-V4-II-Z2	1,186.00	118: Zone - 3	<Collection: 1 item>	646.00	1,376.50	82.4
889	J-288	1,182.00	118: Zone - 3	<Collection: 1 item>	318.00	1,372.50	82.4
1142	J-349	1,175.00	118: Zone - 3	<Collection: 0 items>	0.00	1,366.30	82.8
1201	J-362	1,090.00	117: Zone - 2	<Collection: 0 items>	0.00	1,281.40	82.8
699	J-233	1,092.00	117: Zone - 2	<Collection: 1 item>	409.00	1,283.70	83
262	J-147	1,085.00	117: Zone - 2	<Collection: 1 item>	159.00	1,277.20	83.1
243	J-127	1,184.00	118: Zone - 3	<Collection: 0 items>	0	1,376.50	83.3
211	J-94	1,184.00	118: Zone - 3	<Collection: 0 items>	0	1,376.70	83.4
261	J-146	1,085.00	117: Zone - 2	<Collection: 1 item>	318	1,278.00	83.5
133	J-V18-III	1,300.00	1115: Zone - 4	<Collection: 1 item>	472.00	1,493.20	83.6
1144	J-350	1,172.00	118: Zone - 3	<Collection: 1 item>	300.00	1,366.30	84.1
232	J-115	1,185.00	118: Zone - 3	<Collection: 0 items>	0.00	1,379.50	84.2
823	J-277	1,045.00	116: Zone - 1	<Collection: 1 item>	101	1,239.90	84.3
785	J-261	1,170.00	118: Zone - 3	<Collection: 1 item>	477.00	1,365.00	84.4
165	J-V14-I-Z3	1,289.00	1115: Zone - 4	<Collection: 1 item>	367	1,484.40	84.5
275	J-161	1,181.00	118: Zone - 3	<Collection: 0 items>	0	1,376.60	84.6
801	J-268	1,088.00	117: Zone - 2	<Collection: 1 item>	636.00	1,283.80	84.7
306	J-193	1,184.00	118: Zone - 3	<Collection: 1 item>	159.00	1,380.50	85
970	J-315	1,090.00	117: Zone - 2	<Collection: 0 items>	0.00	1,286.90	85.2
242	J-126	1,179.00	118: Zone - 3	<Collection: 0 items>	0.00	1,376.50	85.4
187	J-V10-I-Z3	1,282.00	1115: Zone - 4	<Collection: 1 item>	84	1,479.50	85.5
212	J-95	1,179.00	118: Zone - 3	<Collection: 0 items>	0.00	1,376.60	85.5
281	J-167	1,283.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,481.00	85.7
1177	J-357	1,090.00	117: Zone - 2	<Collection: 0 items>	0.00	1,288.10	85.7
280	J-166	1,285.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,483.40	85.8
238	J-V4-I-Z2	1,180.00	118: Zone - 3	<Collection: 1 item>	646	1,378.60	85.9
193	J-V15-III-Z3	1,271.00	1115: Zone - 4	<Collection: 1 item>	532.00	1,469.70	86
1077	J-337	1,270.00	1115: Zone - 4	<Collection: 0 items>	0	1,469.10	86.1
180	J-V14-II-Z3	1,282.00	1115: Zone - 4	<Collection: 1 item>	367	1,481.20	86.2
1071	J-335	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,369.20	86.2
838	J-282	1,270.00	1115: Zone - 4	<Collection: 0 items>	0	1,469.20	86.2
149	J-V21-I-Z2	1,270.00	1115: Zone - 4	<Collection: 1 item>	219	1,469.30	86.2
1074	J-336	1,170.00	118: Zone - 3	<Collection: 1 item>	318	1,369.50	86.3
304	J-191	1,270.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,469.70	86.4
283	J-169	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,378.80	86.4
284	J-170	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,378.90	86.5
912	J-297	1,170.00	118: Zone - 3	<Collection: 1 item>	159	1,369.90	86.5
197	J-V22-I	1,269.00	1115: Zone - 4	<Collection: 1 item>	549	1,469.00	86.5
181	J-62	1,281.00	1115: Zone - 4	<Collection: 1 item>	318	1,481.30	86.6
270	J-V15-I-Z2	1,269.00	1115: Zone - 4	<Collection: 1 item>	532	1,470.10	87
178	J-59	1,282.00	1115: Zone - 4	<Collection: 0 items>	0	1,484.00	87.4
162	J-V13-I-Z3	1,285.00	1115: Zone - 4	<Collection: 1 item>	418.00	1,488.30	87.9
164	J-V17-III	1,280.00	1115: Zone - 4	<Collection: 1 item>	613	1,484.80	88.6

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
213	J-V3-I-Z1	1,171.00	118: Zone - 3	<Collection: 1 item>	67	1,376.60	89
713	DZ-North	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,376.60	89.4
872	J-284	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,376.60	89.4
1262	J-372	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,376.60	89.4
910	J-296	1,170.00	118: Zone - 3	<Collection: 1 item>	318	1,377.00	89.6
129	J-10	1,281.00	1115: Zone - 4	<Collection: 0 items>	0	1,488.10	89.6
163	J-44	1,280.00	1115: Zone - 4	<Collection: 0 items>	0	1,488.20	90.1
918	J-298	1,170.00	118: Zone - 3	<Collection: 1 item>	318	1,379.20	90.5

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
835	J-281	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,361.70	39.7
882	J-286	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,362.20	39.9
1023	J-323	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,362.20	39.9
1042	J-327	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,362.20	39.9
1030	J-324	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,362.40	40
1019	J-322	1,270.00	118: Zone - 3	<Collection: 0 items>	0	1,362.70	40.1
769	J-255	1,270.00	118: Zone - 3	<Collection: 1 item>	2,139.50	1,363.80	40.6
830	J-279	1,162.00	117: Zone - 2	<Collection: 1 item>	336.4	1,258.40	41.7
777	J-259	1,170.00	117: Zone - 2	<Collection: 1 item>	1,113.48	1,267.20	42.1
1180	J-358	1,090.00	116: Zone - 1	<Collection: 0 items>	0	1,187.30	42.1
1103	J-342	1,270.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,367.80	42.3
182	J-V11-IV-Z2	1,264.00	118: Zone - 3	<Collection: 1 item>	1,126.94	1,362.80	42.8
704	J-235	1,264.00	118: Zone - 3	<Collection: 0 items>	0	1,362.80	42.8
317	J-204	1,268.00	118: Zone - 3	<Collection: 0 items>	0	1,366.80	42.8
1208	J-363	1,086.00	116: Zone - 1	<Collection: 0 items>	0.00	1,185.40	43
272	J-V14-I-Z2	1,264.00	118: Zone - 3	<Collection: 1 item>	275.85	1,364.20	43.3
157	J-V19-I	1,371.00	1115: Zone - 4	<Collection: 1 item>	2,260.61	1,471.20	43.3
754	J-248	1,085.00	116: Zone - 1	<Collection: 1 item>	1,083.21	1,185.40	43.5
285	J-171	1,170.00	117: Zone - 2	<Collection: 1 item>	534.88	1,270.70	43.6
869	J-283	1,170.00	117: Zone - 2	<Collection: 0 items>	0	1,270.70	43.6
811	J-271	1,002.00	115: Zone - 0	<Collection: 1 item>	1,069.75	1,103.20	43.8
1100	J-341	1,270.00	118: Zone - 3	<Collection: 0 items>	0.00	1,371.80	44
301	J-188	1,260.00	118: Zone - 3	<Collection: 0 items>	0	1,361.90	44.1
978	J-317	1,170.00	117: Zone - 2	<Collection: 1 item>	1,513.80	1,271.90	44.1
271	J-V10-I-Z2	1,258.00	118: Zone - 3	<Collection: 1 item>	2,543.18	1,360.20	44.2
1295	J-378	1,168.00	117: Zone - 2	<Collection: 0 items>	0	1,270.80	44.5
277	J-V15-III-Z2	1,260.00	118: Zone - 3	<Collection: 1 item>	1,789.65	1,362.90	44.5
732	J-241	1,000.00	115: Zone - 0	<Collection: 1 item>	1,611.36	1,102.90	44.5
922	J-299	1,050.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,153.10	44.6
195	J-V22-II	1,255.00	118: Zone - 3	<Collection: 1 item>	1,846.84	1,358.20	44.6
257	J-V25-II	1,086.00	116: Zone - 1	<Collection: 1 item>	3,700.40	1,190.00	45
1067	J-334	1,160.00	117: Zone - 2	<Collection: 1 item>	578.61	1,264.40	45.2
1033	J-325	1,258.00	118: Zone - 3	<Collection: 0 items>	0	1,362.40	45.2
1233	J-368	1,000.00	115: Zone - 0	<Collection: 0 items>	0	1,104.80	45.3
282	J-168	1,165.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,270.70	45.7
875	J-285	1,170.00	117: Zone - 2	<Collection: 0 items>	0	1,275.80	45.8
276	J-162	1,256.00	118: Zone - 3	<Collection: 0 items>	0.00	1,361.90	45.8
738	J-244	1,071.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,176.90	45.8
274	J-V20-I-Z2	1,256.00	118: Zone - 3	<Collection: 1 item>	1,009.20	1,362.10	45.9
241	J-V4-I-Z1	1,165.00	117: Zone - 2	<Collection: 1 item>	1,086.57	1,271.10	45.9
188	J-70	1,255.00	118: Zone - 3	<Collection: 0 items>	0.00	1,361.20	45.9
751	J-247	1,085.00	116: Zone - 1	<Collection: 1 item>	534.88	1,191.40	46
239	J-123	1,164.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,270.70	46.2
237	J-120	1,164.00	117: Zone - 2	<Collection: 0 items>	0.00	1,270.90	46.3
1218	J-365	1,088.00	116: Zone - 1	<Collection: 0 items>	0	1,195.00	46.3
254	J-138	1,090.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,197.10	46.3
1163	J-355	1,152.00	117: Zone - 2	<Collection: 0 items>	0.00	1,259.60	46.6
1127	J-346	1,166.00	117: Zone - 2	<Collection: 0 items>	0	1,274.10	46.8
658	J-216	1,079.00	116: Zone - 1	<Collection: 1 item>	1,083.21	1,187.30	46.8
981	J-318	1,168.00	117: Zone - 2	<Collection: 1 item>	2,139.50	1,276.30	46.9
273	J-V13-III-Z2	1,263.00	118: Zone - 3	<Collection: 1 item>	2,943.50	1,372.50	47.4
160	J-41	1,355.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,464.50	47.4
245	J-129	1,163.00	117: Zone - 2	<Collection: 0 items>	0.00	1,272.70	47.4
154	J-V19-II	1,360.00	1115: Zone - 4	<Collection: 1 item>	2,260.61	1,469.70	47.5
279	J-165	1,087.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,196.90	47.5
173	J-V12-I	1,261.00	118: Zone - 3	<Collection: 1 item>	1,463.34	1,371.50	47.8
174	J-55	1,255.00	118: Zone - 3	<Collection: 0 items>	0.00	1,365.70	47.9
746	J-246	1,000.00	115: Zone - 0	<Collection: 1 item>	1,069.75	1,110.70	47.9
240	J-124	1,160.00	117: Zone - 2	<Collection: 1 item>	814.09	1,271.40	48.2
662	J-218	1,058.00	116: Zone - 1	<Collection: 1 item>	1,083.21	1,169.60	48.3
1198	J-361	1,090.00	116: Zone - 1	<Collection: 0 items>	0.00	1,201.70	48.3

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
246	J-V2-I	1,161.00	117: Zone - 2	<Collection: 1 item>	1,073.12	1,273.60	48.7
767	J-254	1,256.00	118: Zone - 3	<Collection: 1 item>	2,139.50	1,368.70	48.7
900	J-293	1,170.00	117: Zone - 2	<Collection: 1 item>	534.88	1,282.80	48.8
177	J-58	1,265.00	118: Zone - 3	<Collection: 0 items>	0.00	1,377.90	48.9
771	J-256	1,240.00	118: Zone - 3	<Collection: 1 item>	534.88	1,353.00	48.9
937	J-304	1,060.00	116: Zone - 1	<Collection: 1 item>	2,139.50	1,173.70	49.2
158	J-39	1,354.00	1115: Zone - 4	<Collection: 0 items>	0	1,468.20	49.4
196	J-79	1,245.00	118: Zone - 3	<Collection: 0 items>	0.00	1,359.30	49.5
958	J-311	1,158.00	117: Zone - 2	<Collection: 1 item>	814.09	1,272.60	49.6
153	J-34	1,355.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,469.70	49.6
258	J-143	1,083.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,197.70	49.6
289	J-175	1,160.00	117: Zone - 2	<Collection: 0 items>	0	1,275.70	50
214	J-V2-II	1,160.00	117: Zone - 2	<Collection: 1 item>	1,073.12	1,275.70	50.1
965	J-313	1,092.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,207.70	50.1
962	J-312	1,072.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,187.80	50.1
288	J-174	1,160.00	117: Zone - 2	<Collection: 1 item>	534.88	1,275.80	50.1
192	J-V9-I	1,240.00	118: Zone - 3	<Collection: 1 item>	2,189.96	1,355.90	50.2
190	J-V8-I	1,245.00	118: Zone - 3	<Collection: 1 item>	1,897.30	1,361.20	50.3
727	J-239	1,052.00	116: Zone - 1	<Collection: 1 item>	1,618.08	1,168.20	50.3
175	J-V11-II-Z2	1,247.00	118: Zone - 3	<Collection: 1 item>	1,126.94	1,363.30	50.3
813	J-272	1,023.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,139.30	50.3
247	J-131	1,245.00	118: Zone - 3	<Collection: 0 items>	0.00	1,361.70	50.5
1189	J-359	1,055.00	116: Zone - 1	<Collection: 0 items>	0	1,171.80	50.5
742	J-245	1,034.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,150.80	50.5
191	J-V15-II-Z2	1,245.00	118: Zone - 3	<Collection: 1 item>	1,789.65	1,362.00	50.6
664	J-219	1,059.00	116: Zone - 1	<Collection: 1 item>	1,083.21	1,176.30	50.8
267	J-V11-III-Z2	1,240.00	118: Zone - 3	<Collection: 1 item>	2,253.88	1,357.60	50.9
155	J-36	1,340.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,457.80	51
298	J-185	1,247.00	118: Zone - 3	<Collection: 0 items>	0	1,364.80	51
929	J-301	1,078.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,196.00	51.1
794	J-265	1,142.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,260.10	51.1
734	J-242	1,023.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,141.20	51.1
189	J-71	1,243.00	118: Zone - 3	<Collection: 0 items>	0.00	1,361.20	51.1
908	J-295	1,170.00	117: Zone - 2	<Collection: 1 item>	534.88	1,288.50	51.3
194	J-76	1,243.00	118: Zone - 3	<Collection: 0 items>	0	1,362.00	51.5
220	J-103	1,091.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,210.00	51.5
299	J-186	1,240.00	118: Zone - 3	<Collection: 0 items>	0.00	1,359.40	51.7
1160	J-354	1,138.00	117: Zone - 2	<Collection: 1 item>	733.35	1,257.60	51.8
201	J-84	1,240.00	118: Zone - 3	<Collection: 0 items>	0.00	1,359.80	51.8
147	J-V21-I-Z3	1,335.00	1115: Zone - 4	<Collection: 1 item>	1,476.80	1,454.80	51.8
269	J-V9-II	1,225.00	118: Zone - 3	<Collection: 1 item>	2,189.96	1,345.20	52
141	J-22	1,350.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,470.20	52
159	J-V16-II	1,341.00	1115: Zone - 4	<Collection: 1 item>	1,924.21	1,461.60	52.2
266	J-V11-I-Z2	1,237.00	118: Zone - 3	<Collection: 1 item>	2,253.88	1,357.70	52.2
729	J-240	1,035.00	116: Zone - 1	<Collection: 1 item>	1,618.08	1,155.80	52.3
172	J-53	1,255.00	118: Zone - 3	<Collection: 0 items>	0.00	1,376.20	52.4
787	J-262	1,196.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,317.30	52.5
932	J-302	1,075.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,196.30	52.5
121	J-2	1,354.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,475.30	52.5
143	J-24	1,346.00	1115: Zone - 4	<Collection: 0 items>	0	1,467.90	52.8
142	J-23	1,346.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,468.10	52.8
169	J-50	1,260.00	118: Zone - 3	<Collection: 0 items>	0.00	1,383.00	53.2
1291	J-377	1,150.00	117: Zone - 2	<Collection: 0 items>	0.00	1,273.00	53.2
303	J-190	1,335.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,458.30	53.4
120	CAP-Belmont	1,363.00	1115: Zone - 4	<Collection: 1 item>	0.00	1,486.90	53.6
204	J-87	1,235.00	118: Zone - 3	<Collection: 0 items>	0	1,359.10	53.7
144	J-25	1,345.00	1115: Zone - 4	<Collection: 0 items>	0	1,469.40	53.8
725	J-238	1,070.00	116: Zone - 1	<Collection: 1 item>	2,139.50	1,195.00	54.1
666	J-220	1,030.00	116: Zone - 1	<Collection: 1 item>	1,618.08	1,155.00	54.1
176	J-V13-II-Z2	1,260.00	118: Zone - 3	<Collection: 1 item>	1,873.75	1,385.70	54.4
145	J-26	1,344.00	1115: Zone - 4	<Collection: 0 items>	0	1,469.80	54.4

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
826	J-278	1,164.00	117: Zone - 2	<Collection: 1 item>	534.88	1,290.00	54.5
268	J-V7-I	1,231.00	118: Zone - 3	<Collection: 1 item>	2,284.16	1,357.10	54.6
898	J-292	1,160.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,286.20	54.6
934	J-303	1,074.00	116: Zone - 1	<Collection: 1 item>	1,069.75	1,200.40	54.7
1156	J-353	1,149.00	117: Zone - 2	<Collection: 0 items>	0	1,275.40	54.7
291	J-177	1,245.00	118: Zone - 3	<Collection: 0 items>	0.00	1,371.50	54.7
300	J-187	1,360.00	1115: Zone - 4	<Collection: 0 items>	0	1,487.20	55
1286	J-376	1,143.00	117: Zone - 2	<Collection: 0 items>	0	1,270.90	55.4
264	J-149	1,092.00	116: Zone - 1	<Collection: 1 item>	339.76	1,220.60	55.6
1153	J-352	1,145.00	117: Zone - 2	<Collection: 0 items>	0.00	1,273.70	55.7
773	J-257	1,216.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,344.70	55.7
1213	J-364	1,090.00	116: Zone - 1	<Collection: 0 items>	0	1,218.70	55.7
797	J-266	1,128.00	117: Zone - 2	<Collection: 1 item>	2,139.50	1,257.20	55.9
710	DZ-South	1,145.00	117: Zone - 2	<Collection: 0 items>	0.00	1,274.70	56.1
951	J-310	1,148.00	117: Zone - 2	<Collection: 0 items>	0	1,277.80	56.2
156	J-37	1,330.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,460.10	56.3
906	J-294	1,170.00	117: Zone - 2	<Collection: 1 item>	534.88	1,300.10	56.3
286	J-172	1,230.00	118: Zone - 3	<Collection: 0 items>	0.00	1,361.00	56.7
736	J-243	1,022.00	116: Zone - 1	<Collection: 1 item>	2,139.50	1,153.10	56.7
221	J-104	1,245.00	118: Zone - 3	<Collection: 0 items>	0	1,376.30	56.8
123	J-V18-I	1,340.00	1115: Zone - 4	<Collection: 1 item>	1,587.81	1,471.30	56.8
761	J-251	1,236.00	118: Zone - 3	<Collection: 1 item>	534.88	1,367.60	56.9
949	J-309	1,136.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,267.80	57
265	J-V24-II	1,100.00	117: Zone - 2	<Collection: 1 item>	2,623.92	1,232.70	57.4
783	J-260	1,178.00	118: Zone - 3	<Collection: 1 item>	2,139.50	1,310.80	57.5
263	J-148	1,100.00	117: Zone - 2	<Collection: 1 item>	874.64	1,232.90	57.5
809	J-270	1,160.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,293.40	57.7
292	J-178	1,241.00	118: Zone - 3	<Collection: 0 items>	0	1,374.70	57.8
297	J-184	1,225.00	118: Zone - 3	<Collection: 0 items>	0.00	1,359.00	58
818	J-275	1,090.00	116: Zone - 1	<Collection: 1 item>	339.76	1,224.10	58
148	J-V21-II-Z3	1,318.00	1115: Zone - 4	<Collection: 1 item>	1,476.80	1,452.40	58.2
1253	J-371	1,078.00	116: Zone - 1	<Collection: 0 items>	0.00	1,212.80	58.3
311	J-198	1,140.00	117: Zone - 2	<Collection: 0 items>	0.00	1,274.90	58.4
765	J-253	1,228.00	118: Zone - 3	<Collection: 1 item>	2,139.50	1,363.20	58.5
683	J-228	1,144.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,279.20	58.5
799	J-267	1,110.00	117: Zone - 2	<Collection: 1 item>	1,604.63	1,245.20	58.5
226	J-V6-I	1,227.00	118: Zone - 3	<Collection: 1 item>	1,500.34	1,362.50	58.6
122	J-3	1,335.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,470.80	58.7
249	J-V1-II	1,133.00	117: Zone - 2	<Collection: 1 item>	2,038.58	1,269.10	58.9
202	J-V8-II	1,223.00	118: Zone - 3	<Collection: 1 item>	1,897.30	1,359.10	58.9
1250	J-370	1,085.00	116: Zone - 1	<Collection: 0 items>	0.00	1,221.40	59
312	J-199	1,145.00	117: Zone - 2	<Collection: 1 item>	534.88	1,281.60	59.1
209	J-92	1,227.00	118: Zone - 3	<Collection: 0 items>	0.00	1,363.60	59.1
255	J-V25-I	1,110.00	117: Zone - 2	<Collection: 1 item>	3,700.40	1,246.60	59.1
290	J-176	1,320.00	1115: Zone - 4	<Collection: 0 items>	0	1,456.90	59.2
124	J-5	1,341.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,477.90	59.2
1167	J-356	1,119.00	117: Zone - 2	<Collection: 0 items>	0.00	1,256.10	59.3
130	J-V18-II	1,352.00	1115: Zone - 4	<Collection: 1 item>	1,587.81	1,489.20	59.3
186	J-67	1,310.00	1115: Zone - 4	<Collection: 0 items>	0	1,447.40	59.5
940	J-305	1,059.00	116: Zone - 1	<Collection: 1 item>	2,139.50	1,196.40	59.5
146	J-V20-I-Z3	1,329.00	1115: Zone - 4	<Collection: 1 item>	2,018.40	1,467.20	59.8
150	J-V20-II-Z3	1,320.00	1115: Zone - 4	<Collection: 1 item>	2,018.40	1,459.00	60.1
697	J-232	1,132.00	117: Zone - 2	<Collection: 1 item>	1,513.80	1,271.10	60.2
785	J-261	1,170.00	118: Zone - 3	<Collection: 1 item>	1,604.63	1,309.20	60.2
215	J-98	1,141.00	117: Zone - 2	<Collection: 0 items>	0.00	1,280.70	60.5
161	J-V16-I	1,319.00	1115: Zone - 4	<Collection: 1 item>	1,924.21	1,458.90	60.5
1281	J-374	1,128.00	117: Zone - 2	<Collection: 0 items>	0.00	1,268.50	60.8
140	J-21	1,330.00	1115: Zone - 4	<Collection: 0 items>	0	1,470.60	60.8
170	J-V13-I-Z2	1,237.00	118: Zone - 3	<Collection: 1 item>	1,873.75	1,377.80	60.9
896	J-291	1,152.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,293.30	61.1
233	J-116	1,221.00	118: Zone - 3	<Collection: 0 items>	0.00	1,362.50	61.2

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
293	J-180	1,221.00	118: Zone - 3	<Collection: 0 items>	0.00	1,362.70	61.3
225	J-108	1,225.00	118: Zone - 3	<Collection: 0 items>	0	1,367.00	61.4
1046	J-328	1,311.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,453.20	61.5
1049	J-329	1,308.00	1115: Zone - 4	<Collection: 0 items>	0	1,450.20	61.5
136	J-17	1,330.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,472.50	61.7
125	J-6	1,343.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,485.80	61.8
151	J-V16-III	1,310.00	1115: Zone - 4	<Collection: 1 item>	1,924.21	1,453.20	61.9
216	J-99	1,133.00	117: Zone - 2	<Collection: 0 items>	0	1,276.30	62
287	J-173	1,133.00	117: Zone - 2	<Collection: 0 items>	0	1,276.40	62
804	J-269	1,110.00	117: Zone - 2	<Collection: 1 item>	2,674.38	1,253.40	62
309	J-196	1,112.00	117: Zone - 2	<Collection: 1 item>	534.88	1,255.50	62.1
1194	J-360	1,062.00	116: Zone - 1	<Collection: 0 items>	0	1,205.80	62.2
310	J-197	1,126.00	117: Zone - 2	<Collection: 0 items>	0.00	1,270.00	62.3
295	J-182	1,218.00	118: Zone - 3	<Collection: 0 items>	0.00	1,362.60	62.6
137	J-18	1,323.00	1115: Zone - 4	<Collection: 0 items>	0	1,468.00	62.7
210	J-V7-II	1,220.00	118: Zone - 3	<Collection: 1 item>	1,142.08	1,365.20	62.8
138	J-V17-II	1,315.00	1115: Zone - 4	<Collection: 1 item>	2,062.13	1,460.20	62.8
307	J-194	1,135.00	117: Zone - 2	<Collection: 0 items>	0	1,280.70	63
315	J-202	1,130.00	117: Zone - 2	<Collection: 0 items>	0	1,275.90	63.1
252	J-136	1,110.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,256.60	63.4
260	J-V24-I	1,109.00	117: Zone - 2	<Collection: 1 item>	2,623.92	1,256.00	63.6
313	J-200	1,120.00	117: Zone - 2	<Collection: 0 items>	0.00	1,267.10	63.6
947	J-308	1,120.00	117: Zone - 2	<Collection: 1 item>	814.09	1,267.60	63.9
219	J-V23-I	1,098.00	117: Zone - 2	<Collection: 1 item>	928.46	1,245.70	63.9
253	J-137	1,100.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,247.90	64
185	J-V15-I-Z3	1,300.00	1115: Zone - 4	<Collection: 1 item>	1,789.65	1,448.10	64.1
198	J-V22-III	1,193.00	118: Zone - 3	<Collection: 1 item>	1,846.84	1,341.40	64.2
217	J-100	1,123.00	117: Zone - 2	<Collection: 0 items>	0	1,271.90	64.4
1065	J-333	1,129.00	117: Zone - 2	<Collection: 1 item>	578.61	1,278.70	64.8
677	J-225	1,135.00	117: Zone - 2	<Collection: 1 item>	1,113.48	1,284.70	64.8
171	J-52	1,240.00	118: Zone - 3	<Collection: 0 items>	0	1,389.80	64.8
1053	J-330	1,170.00	117: Zone - 2	<Collection: 0 items>	0.00	1,319.80	64.8
256	J-140	1,110.00	117: Zone - 2	<Collection: 0 items>	0.00	1,260.00	64.9
262	J-147	1,085.00	117: Zone - 2	<Collection: 1 item>	534.88	1,235.00	64.9
1081	J-338	1,300.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,450.10	65
250	J-V1-I	1,114.00	117: Zone - 2	<Collection: 1 item>	2,038.58	1,264.50	65.1
223	J-106	1,225.00	118: Zone - 3	<Collection: 0 items>	0.00	1,375.50	65.1
203	J-86	1,210.00	118: Zone - 3	<Collection: 0 items>	0.00	1,361.20	65.4
832	J-280	1,093.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,244.80	65.7
675	Balterra	1,135.00	117: Zone - 2	<Collection: 1 item>	578.61	1,287.30	65.9
278	J-164	1,110.00	117: Zone - 2	<Collection: 0 items>	0	1,262.40	65.9
234	J-117	1,210.00	118: Zone - 3	<Collection: 0 items>	0	1,362.50	66
139	J-20	1,311.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,463.50	66
650	J-212	1,131.00	117: Zone - 2	<Collection: 1 item>	1,816.56	1,283.50	66
135	J-V17-I	1,320.00	1115: Zone - 4	<Collection: 1 item>	2,062.13	1,472.90	66.1
660	J-217	1,077.00	116: Zone - 1	<Collection: 1 item>	746.81	1,230.90	66.6
222	J-V12-II	1,227.00	118: Zone - 3	<Collection: 1 item>	1,463.34	1,381.50	66.9
308	J-195	1,130.00	117: Zone - 2	<Collection: 1 item>	1,604.63	1,284.70	66.9
259	J-144	1,105.00	117: Zone - 2	<Collection: 0 items>	0	1,259.90	67
227	J-110	1,208.00	118: Zone - 3	<Collection: 0 items>	0	1,363.30	67.2
251	J-135	1,105.00	117: Zone - 2	<Collection: 0 items>	0.00	1,260.70	67.4
652	J-213	1,128.00	117: Zone - 2	<Collection: 1 item>	746.81	1,283.70	67.4
670	J-222	1,130.00	117: Zone - 2	<Collection: 1 item>	578.61	1,286.10	67.5
801	J-268	1,088.00	117: Zone - 2	<Collection: 1 item>	2,139.50	1,244.60	67.8
224	J-V5-I	1,217.00	118: Zone - 3	<Collection: 1 item>	1,587.81	1,373.70	67.8
152	J-V15-II-Z3	1,290.00	1115: Zone - 4	<Collection: 1 item>	1,789.65	1,446.80	67.9
235	J-V6-II	1,203.00	118: Zone - 3	<Collection: 1 item>	1,500.34	1,360.10	68
820	J-276	1,072.00	116: Zone - 1	<Collection: 1 item>	339.76	1,229.20	68
218	J-101	1,110.00	117: Zone - 2	<Collection: 0 items>	0	1,267.60	68.2
261	J-146	1,085.00	117: Zone - 2	<Collection: 1 item>	1,069.75	1,243.00	68.3
945	J-307	1,112.00	117: Zone - 2	<Collection: 1 item>	814.09	1,270.00	68.4

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
654	J-214	1,126.00	117: Zone - 2	<Collection: 1 item>	1,325.42	1,284.30	68.5
759	J-250	1,210.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,368.40	68.5
296	J-183	1,205.00	118: Zone - 3	<Collection: 0 items>	0	1,363.50	68.6
1077	J-337	1,270.00	1115: Zone - 4	<Collection: 0 items>	0	1,428.80	68.7
302	J-189	1,282.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,441.30	68.9
167	J-48	1,303.00	1115: Zone - 4	<Collection: 0 items>	0	1,462.50	69
294	J-V7-III	1,220.00	118: Zone - 3	<Collection: 1 item>	1,142.08	1,379.80	69.1
197	J-V22-I	1,269.00	1115: Zone - 4	<Collection: 1 item>	1,846.84	1,428.80	69.1
134	J-15	1,320.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,480.00	69.2
775	J-258	1,190.00	118: Zone - 3	<Collection: 1 item>	1,604.63	1,350.20	69.3
763	J-252	1,200.00	118: Zone - 3	<Collection: 1 item>	2,139.50	1,360.80	69.6
200	J-83	1,197.00	118: Zone - 3	<Collection: 0 items>	0	1,357.80	69.6
891	J-289	1,195.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,356.00	69.6
314	J-201	1,200.00	118: Zone - 3	<Collection: 0 items>	0.00	1,361.00	69.6
229	J-112	1,208.00	118: Zone - 3	<Collection: 0 items>	0.00	1,369.10	69.7
893	J-290	1,199.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,361.00	70.1
168	J-V11-I-Z3	1,300.00	1115: Zone - 4	<Collection: 1 item>	750.17	1,462.00	70.1
925	J-300	1,058.00	116: Zone - 1	<Collection: 1 item>	874.64	1,220.40	70.3
131	J-12	1,335.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,497.80	70.4
208	J-91	1,201.00	118: Zone - 3	<Collection: 0 items>	0.00	1,363.80	70.4
166	J-47	1,300.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,463.00	70.5
838	J-282	1,270.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,433.00	70.5
974	J-316	1,100.00	117: Zone - 2	<Collection: 0 items>	0.00	1,263.30	70.7
127	J-8	1,318.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,481.40	70.7
184	J-65	1,290.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,453.60	70.8
316	J-203	1,225.00	118: Zone - 3	<Collection: 0 items>	0.00	1,388.90	70.9
207	J-90	1,200.00	118: Zone - 3	<Collection: 0 items>	0.00	1,364.90	71.3
199	J-82	1,192.00	118: Zone - 3	<Collection: 0 items>	0.00	1,357.30	71.5
681	J-227	1,116.00	117: Zone - 2	<Collection: 1 item>	1,379.24	1,281.40	71.6
236	J-119	1,195.00	118: Zone - 3	<Collection: 0 items>	0.00	1,360.50	71.6
968	J-314	1,100.00	117: Zone - 2	<Collection: 0 items>	0.00	1,265.50	71.6
231	J-V5-II	1,195.00	118: Zone - 3	<Collection: 1 item>	1,587.81	1,361.00	71.8
149	J-V21-I-Z2	1,270.00	1115: Zone - 4	<Collection: 1 item>	736.72	1,436.20	71.9
179	J-60	1,295.00	1115: Zone - 4	<Collection: 0 items>	0	1,461.40	72
887	J-287	1,193.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,359.50	72
816	J-274	1,070.00	116: Zone - 1	<Collection: 1 item>	339.76	1,236.60	72.1
206	J-89	1,196.00	118: Zone - 3	<Collection: 0 items>	0.00	1,362.90	72.2
183	J-64	1,290.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,457.00	72.3
126	J-7	1,325.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,492.50	72.5
248	J-V3-I-Z2	1,190.00	118: Zone - 3	<Collection: 1 item>	2,038.58	1,357.80	72.6
193	J-V15-III-Z3	1,271.00	1115: Zone - 4	<Collection: 1 item>	1,789.65	1,439.00	72.7
244	J-V4-II-Z2	1,186.00	118: Zone - 3	<Collection: 1 item>	2,173.14	1,354.40	72.9
304	J-191	1,270.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,438.60	73
230	J-113	1,200.00	118: Zone - 3	<Collection: 0 items>	0.00	1,368.70	73
270	J-V15-I-Z2	1,269.00	1115: Zone - 4	<Collection: 1 item>	1,789.65	1,438.20	73.2
701	J-234	1,098.00	117: Zone - 2	<Collection: 1 item>	1,177.40	1,267.50	73.3
243	J-127	1,184.00	118: Zone - 3	<Collection: 0 items>	0.00	1,354.40	73.7
228	J-111	1,190.00	118: Zone - 3	<Collection: 0 items>	0.00	1,360.60	73.8
205	J-88	1,191.00	118: Zone - 3	<Collection: 0 items>	0.00	1,362.40	74.2
1130	J-347	1,100.00	117: Zone - 2	<Collection: 0 items>	0.00	1,273.00	74.9
1201	J-362	1,090.00	117: Zone - 2	<Collection: 0 items>	0.00	1,263.30	75
180	J-V14-II-Z3	1,282.00	1115: Zone - 4	<Collection: 1 item>	1,234.59	1,455.70	75.2
691	J-229	1,066.00	116: Zone - 1	<Collection: 1 item>	339.76	1,239.80	75.2
165	J-V14-I-Z3	1,289.00	1115: Zone - 4	<Collection: 1 item>	1,234.59	1,462.90	75.2
889	J-288	1,182.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,356.00	75.3
128	J-9	1,301.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,475.10	75.3
238	J-V4-I-Z2	1,180.00	118: Zone - 3	<Collection: 1 item>	2,173.14	1,354.10	75.3
181	J-62	1,281.00	1115: Zone - 4	<Collection: 1 item>	1,069.75	1,455.30	75.4
318	J-205	1,196.00	118: Zone - 3	<Collection: 1 item>	534.88	1,370.60	75.5
132	J-13	1,314.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,488.90	75.7
187	J-V10-I-Z3	1,282.00	1115: Zone - 4	<Collection: 1 item>	282.58	1,457.40	75.9

Id	Label	Elevation (ft)	Zone	Demand Collection	Demand (gpm)	Hydraulic Grade (ft)	Pressure (psi)
211	J-94	1,184.00	118: Zone - 3	<Collection: 0 items>	0.00	1,359.40	75.9
242	J-126	1,179.00	118: Zone - 3	<Collection: 0 items>	0.00	1,354.40	75.9
232	J-115	1,185.00	118: Zone - 3	<Collection: 0 items>	0.00	1,360.60	76
281	J-167	1,283.00	1115: Zone - 4	<Collection: 0 items>	0	1,459.20	76.3
280	J-166	1,285.00	1115: Zone - 4	<Collection: 0 items>	0.00	1,461.30	76.3
1139	J-348	1,180.00	118: Zone - 3	<Collection: 1 item>	672.80	1,356.80	76.5
656	J-215	1,105.00	117: Zone - 2	<Collection: 1 item>	1,325.42	1,282.00	76.6
275	J-161	1,181.00	118: Zone - 3	<Collection: 0 items>	0.00	1,358.40	76.8
306	J-193	1,184.00	118: Zone - 3	<Collection: 1 item>	534.88	1,362.20	77.1
283	J-169	1,179.00	118: Zone - 3	<Collection: 0 items>	0.00	1,357.70	77.3
693	J-230	1,177.00	118: Zone - 3	<Collection: 1 item>	841.00	1,356.00	77.5
668	J-221	1,100.00	117: Zone - 2	<Collection: 1 item>	2,183.24	1,279.20	77.5
212	J-95	1,179.00	118: Zone - 3	<Collection: 0 items>	0.00	1,358.60	77.7
305	J-192	1,210.00	118: Zone - 3	<Collection: 1 item>	534.88	1,389.80	77.8
284	J-170	1,179.00	118: Zone - 3	<Collection: 0 items>	0	1,359.10	77.9
178	J-59	1,282.00	1115: Zone - 4	<Collection: 0 items>	0	1,462.40	78
133	J-V18-III	1,300.00	1115: Zone - 4	<Collection: 1 item>	1,587.81	1,480.50	78.1
679	J-226	1,107.00	117: Zone - 2	<Collection: 1 item>	1,449.88	1,287.90	78.3
699	J-233	1,092.00	117: Zone - 2	<Collection: 1 item>	1,375.88	1,273.30	78.4
1071	J-335	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,351.30	78.4
1142	J-349	1,175.00	118: Zone - 3	<Collection: 0 items>	0	1,356.40	78.5
162	J-V13-I-Z3	1,285.00	1115: Zone - 4	<Collection: 1 item>	1,406.15	1,466.90	78.7
164	J-V17-III	1,280.00	1115: Zone - 4	<Collection: 1 item>	2,062.13	1,462.60	79
757	J-249	1,180.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,363.70	79.5
1144	J-350	1,172.00	118: Zone - 3	<Collection: 1 item>	1,009.20	1,356.00	79.6
943	J-306	1,100.00	117: Zone - 2	<Collection: 1 item>	703.08	1,284.80	80
910	J-296	1,170.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,355.90	80.4
129	J-10	1,281.00	1115: Zone - 4	<Collection: 0 items>	0	1,468.00	80.9
163	J-44	1,280.00	1115: Zone - 4	<Collection: 0 items>	0	1,467.50	81.1
213	J-V3-I-Z1	1,171.00	118: Zone - 3	<Collection: 1 item>	225.39	1,358.60	81.1
1074	J-336	1,170.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,357.80	81.3
713	DZ-North	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,358.60	81.6
872	J-284	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,358.60	81.6
1262	J-372	1,170.00	118: Zone - 3	<Collection: 0 items>	0	1,358.60	81.6
918	J-298	1,170.00	118: Zone - 3	<Collection: 1 item>	1,069.75	1,358.70	81.6
912	J-297	1,170.00	118: Zone - 3	<Collection: 1 item>	534.88	1,360.50	82.4
970	J-315	1,090.00	117: Zone - 2	<Collection: 0 items>	0	1,281.40	82.8
1177	J-357	1,090.00	117: Zone - 2	<Collection: 0 items>	0	1,282.00	83.1
823	J-277	1,045.00	116: Zone - 1	<Collection: 1 item>	339.76	1,239.50	84.2

Id	Label	Scaled Length (ft)	Diameter (in)	Hazen-Williams C	Has Check Valve?	Minor Loss	Flow (gpm)	Headloss Gradient (ft/ft)	Length (User Defined) (ft)	Velocity (ft/s)
850	P-509	158	12	130	FALSE	0	0.00	0	0	0
851	P-510	243	12	130	FALSE	0	0.00	0	0	0
1024	P-620	419	12	130	FALSE	0	0.00	0	0	0
878	P-527	451	12	130	FALSE	0	-321.20	0	0	0.91
871	P-522	811	12	130	FALSE	0	129.96	0	0	0.37
1036	P-630	1,128	12	130	FALSE	0	31.82	0	0	0.09
877	P-526	1,269	12	130	FALSE	0	0.00	0	0	0
613	P-359	1,326	12	130	FALSE	0	1,447.59	0.005	1,326	4.11
1297	P-800	1,432	12	130	FALSE	0	-258.13	0	0	0.73
616	P-362	1,484	12	130	FALSE	0	1,788.61	0.007	1,484	5.07
1035	P-629	1,522	12	130	FALSE	0	-310.91	0	0	0.88
1034	P-628	1,563	12	130	FALSE	0	-342.73	0	0	0.97
1159	P-709	1,762	12	130	FALSE	0	-597.12	0.001	0	1.69
1166	P-714	1,805	12	130	FALSE	0	-640.35	0.001	0	1.82
1018	P-616	1,900	12	130	FALSE	0	-1,475.93	0.005	0	4.19
1296	P-799	2,015	12	130	FALSE	0	129.96	0	0	0.37
913	P-546	2,112	12	130	FALSE	0	-398.70	0	0	1.13
944	P-568	2,317	12	130	FALSE	0	703.08	0.001	0	1.99
1162	P-711	2,402	12	130	FALSE	0	-335.25	0	0	0.95
1294	P-798	2,513	12	130	FALSE	0	194.28	0	0	0.55
1161	P-710	2,586	12	130	FALSE	0	-242.25	0	0	0.69
1298	P-801	2,615	12	130	FALSE	0	-128.17	0	0	0.36
1045	P-637	3,389	12	130	FALSE	0	221.92	0	0	0.63
587	P-329	3,501	12	130	FALSE	0	-725.24	0.001	3,501	2.06
1075	P-657	4,087	12	130	FALSE	0	-777.05	0.002	0	2.2
1170	P-717	4,225	12	130	FALSE	0	-589.09	0.001	0	1.67
1171	P-718	4,601	12	130	FALSE	0	-792.55	0.002	0	2.25
1076	P-658	5,050	12	130	FALSE	0	-659.32	0.001	0	1.87
1133	P-692	5,511	12	130	FALSE	0	253.06	0	0	0.72
1107	P-676	5,983	12	130	FALSE	0	707.93	0.001	0	2.01
1290	P-795	8,450	12	130	FALSE	0	736.12	0.001	0	2.09
544	P-281	319	12	130	FALSE	0	-1,649.79	0.006	501	4.68
1264	P-780	553	12	130	FALSE	0	0.00	0	1,097	0
522	P-249	583	12	130	FALSE	0	-971.02	0.002	583	2.75
593	P-335	819	12	130	FALSE	0	384.79	0	819	1.09
396	P-76	841	12	130	FALSE	0	856.09	0.002	841	2.43
502	P-223	909	12	130	FALSE	0	-614.82	0.001	909	1.74
446	P-145	941	12	130	FALSE	0	-17.16	0	941	0.05
535	P-267	1,047	12	130	FALSE	0	-608.40	0.001	1,047	1.73
638	P-385	1,064	12	130	FALSE	0	-817.50	0.002	1,064	2.32
456	P-159	1,101	12	130	FALSE	0	0.00	0	1,239	0
560	P-301	1,104	12	130	FALSE	0	-518.74	0.001	1,104	1.47
602	P-346	1,106	12	130	FALSE	0	1,268.55	0.004	1,106	3.6
557	P-298	1,119	12	130	FALSE	0	-117.82	0	1,119	0.33
458	P-161	1,227	12	130	FALSE	0	-1,432.03	0.005	1,227	4.06
435	P-132	1,236	12	130	FALSE	0	749.59	0.001	1,236	2.13
441	P-140	1,240	12	130	FALSE	0	1,228.00	0.004	1,240	3.48
350	P-22	1,313	12	130	FALSE	0	-994.65	0.003	1,313	2.82
495	P-211	1,325	12	130	FALSE	0	-513.64	0.001	1,325	1.46
634	P-381	1,340	12	130	FALSE	0	875.31	0.002	1,340	2.48
451	P-150	1,373	12	130	FALSE	0	-280.05	0	1,373	0.79
496	P-213	1,383	12	130	FALSE	0	599.46	0.001	1,383	1.7
497	P-216	1,425	12	130	FALSE	0	1,069.68	0.003	1,425	3.03
380	P-56	1,436	12	130	FALSE	0	-344.91	0	1,436	0.98
398	P-78	1,441	12	130	FALSE	0	322.46	0	1,427	0.91

Id	Label	Scaled Length (ft)	Diameter (in)	Hazen-Williams C	Has Check Valve?	Minor Loss	Flow (gpm)	Headloss Gradient (ft/ft)	Length (User Defined) (ft)	Velocity (ft/s)
514	P-238	1,442	12	130	FALSE	0	-138.89	0	1,442	0.39
562	P-303	1,452	12	130	FALSE	0	807.54	0.002	1,452	2.29
365	P-40	1,469	12	130	FALSE	0	270.37	0	1,419	0.77
520	P-246	1,478	12	130	FALSE	0	-971.02	0.002	1,478	2.75
487	P-198	1,485	12	130	FALSE	0	1,139.02	0.003	1,485	3.23
624	P-371	1,486	12	130	FALSE	0	0.00	0	1,486	0
379	P-55	1,580	12	130	FALSE	0	-344.91	0	1,580	0.98
444	P-143	1,625	12	130	FALSE	0	280.61	0	1,625	0.8
343	P-15	1,648	12	130	FALSE	0	-431.44	0.001	1,648	1.22
563	P-304	1,772	12	130	FALSE	0	-177.09	0	1,772	0.5
457	P-160	1,805	12	130	FALSE	0	0.00	0	1,800	0
404	P-85	1,807	12	130	FALSE	0	-248.70	0	1,807	0.71
452	P-152	1,809	12	130	FALSE	0	1,202.12	0.004	1,705	3.41
464	P-167	1,865	12	130	FALSE	0	1,239.98	0.004	1,865	3.52
598	P-342	1,871	12	130	FALSE	0	-547.45	0.001	1,871	1.55
559	P-300	1,908	12	130	FALSE	0	-718.72	0.001	1,908	2.04
516	P-242	1,910	12	130	FALSE	0	-839.85	0.002	1,910	2.38
633	P-380	2,026	12	130	FALSE	0	-433.95	0.001	2,026	1.23
393	P-71	2,045	12	130	FALSE	0	-703.64	0.001	2,040	2
434	P-131	2,093	12	130	FALSE	0	1,066.15	0.003	1,989	3.02
348	P-20	2,108	12	130	FALSE	0	911.79	0.002	2,037	2.59
442	P-141	2,147	12	130	FALSE	0	243.38	0	2,147	0.69
447	P-146	2,210	12	130	FALSE	0	100.66	0	2,066	0.29
448	P-147	2,223	12	130	FALSE	0	619.40	0.001	1,882	1.76
561	P-302	2,290	12	130	FALSE	0	984.63	0.002	2,290	2.79
414	P-107	2,326	12	130	FALSE	0	732.59	0.001	2,320	2.08
517	P-243	2,398	12	130	FALSE	0	-531.28	0.001	2,398	1.51
558	P-299	2,487	12	130	FALSE	0	600.89	0.001	2,487	1.7
342	P-14	2,546	12	130	FALSE	0	1,156.36	0.003	2,526	3.28
493	P-207	2,564	12	130	FALSE	0	313.72	0	2,557	0.89
601	P-345	2,573	12	130	FALSE	0	-856.08	0.002	2,573	2.43
488	P-199	2,577	12	130	FALSE	0	-1,114.86	0.003	2,329	3.16
576	P-317	2,615	12	130	FALSE	0	195.75	0	2,615	0.56
341	P-13	2,674	12	130	FALSE	0	1,156.36	0.003	2,674	3.28
453	P-155	2,705	12	130	FALSE	0	-290.23	0	1,307	0.82
349	P-21	2,725	12	130	FALSE	0	1,067.48	0.003	2,665	3.03
443	P-142	2,730	12	130	FALSE	0	1,060.88	0.003	2,730	3.01
501	P-222	2,758	12	130	FALSE	0	-741.12	0.001	2,758	2.1
378	P-54	2,916	12	130	FALSE	0	1,061.24	0.003	2,851	3.01
551	P-289	2,934	12	130	FALSE	0	-316.56	0	2,934	0.9
583	P-324	2,937	12	130	FALSE	0	144.16	0	2,937	0.41
572	P-313	3,023	12	130	FALSE	0	879.18	0.002	3,032	2.49
575	P-316	3,023	12	130	FALSE	0	195.75	0	3,023	0.56
374	P-50	3,024	12	130	FALSE	0	-597.09	0.001	2,826	1.69
519	P-245	3,085	12	130	FALSE	0	-43.41	0	3,085	0.12
574	P-315	3,162	12	130	FALSE	0	1,168.96	0.003	3,365	3.32
545	P-282	3,171	12	130	FALSE	0	1,142.22	0.003	3,160	3.24
388	P-65	3,516	12	130	FALSE	0	-1,170.11	0.003	3,516	3.32
599	P-343	3,544	12	130	FALSE	0	126.3	0	3,544	0.36
546	P-283	3,600	12	130	FALSE	0	-1,073.35	0.003	3,600	3.04
387	P-64	3,878	12	130	FALSE	0	703.64	0.001	3,878	2
513	P-237	4,069	12	130	FALSE	0	-747.30	0.001	4,069	2.12
397	P-77	4,132	12	130	FALSE	0	717.19	0.001	4,132	2.03
465	P-168	4,142	12	130	FALSE	0	-251.16	0	3,112	0.71
375	P-51	4,329	12	130	FALSE	0	695.68	0.001	4,165	1.97

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492	P-206	4,794	12	130	FALSE	0	-1,021.01	0.003	4,748	2.9
595	P-337	5,654	12	130	FALSE	0	-384.79	0	5,654	1.09
411	P-100	6,853	12	130	FALSE	0	979.81	0.002	6,853	2.78
412	P-101	8,142	12	130	FALSE	0	-867.03	0.002	8,142	2.46
1044	P-636	190	16	130	FALSE	0	-1,530.13	0.001	0	2.44
1078	P-659	236	16	130	FALSE	0	-1,529.69	0.001	0	2.44
715	P-427	239	16	130	FALSE	0	0.00	0	0	0
847	P-507	294	16	130	FALSE	0	0	0	0	0
1206	P-742	306	16	130	FALSE	0	0.00	0	2,609	0
714	P-426	473	16	130	FALSE	0	0	0	0	0
1073	P-656	532	16	130	FALSE	0	0.00	0	0	0
625	P-372	604	16	130	FALSE	0	1,024.16	0.001	604	1.63
417	P-111	639	16	130	FALSE	0	-1,155.68	0.001	639	1.84
1146	P-700	669	16	130	FALSE	0	0	0	0	0
1232	P-759	675	16	130	FALSE	0	3,750.86	0.007	0	5.99
1202	P-740	686	16	130	FALSE	0	0.00	0	0	0
997	P-604	721	16	130	FALSE	0	-3,728.45	0.007	0	5.95
377	P-53	768	16	130	FALSE	0	-3,021.45	0.005	768	4.82
1186	P-728	806	16	130	FALSE	0	0.00	0	0	0
632	P-379	832	16	130	FALSE	0	-4,191.74	0.009	832	6.69
1215	P-748	868	16	130	FALSE	0	-1,938.40	0.002	4,990	3.09
369	P-45	876	16	130	FALSE	0	2,021.68	0.002	876	3.23
477	P-186	938	16	130	FALSE	0	4,004.03	0.008	938	6.39
476	P-185	961	16	130	FALSE	0	1,069.75	0.001	961	1.71
868	P-520	966	16	130	FALSE	0	0.00	0	0	0
975	P-589	1,076	16	130	FALSE	0	-1,204.34	0.001	0	1.92
542	P-279	1,085	16	130	FALSE	0	228.14	0	1,085	0.36
1251	P-771	1,099	16	130	FALSE	0	-1,061.93	0.001	0	1.69
408	P-97	1,127	16	130	FALSE	0	-1,308.21	0.001	1,127	2.09
432	P-129	1,149	16	130	FALSE	0	-212.03	0	1,141	0.34
573	P-314	1,151	16	130	FALSE	0	-2,479.74	0.003	1,933	3.96
539	P-271	1,156	16	130	FALSE	0	-196.14	0	908	0.31
467	P-173	1,159	16	130	FALSE	0	2,446.62	0.003	1,159	3.9
1037	P-631	1,162	16	130	FALSE	0	831.57	0	0	1.33
372	P-48	1,210	16	130	FALSE	0	-1,432.64	0.001	1,210	2.29
1047	P-638	1,264	16	130	FALSE	0	-159.44	0	0	0.25
491	P-202	1,289	16	130	FALSE	0	-1,618.33	0.002	1,289	2.58
550	P-288	1,290	16	130	FALSE	0	1,450.22	0.001	1,290	2.31
1025	P-621	1,294	16	130	FALSE	0	376.05	0	0	0.6
833	P-497	1,306	16	130	FALSE	0	1,069.75	0.001	0	1.71
1178	P-722	1,337	16	130	FALSE	0	0	0	0	0
525	P-252	1,344	16	130	FALSE	0	0.00	0	1,344	0
352	P-24	1,354	16	130	FALSE	0	444.87	0	1,354	0.71
466	P-172	1,370	16	130	FALSE	0	-1,986.01	0.002	1,370	3.17
400	P-81	1,371	16	130	FALSE	0	2,115.92	0.003	1,371	3.38
1209	P-744	1,375	16	130	FALSE	0	0.00	0	0	0
484	P-195	1,411	16	130	FALSE	0	427.09	0	1,411	0.68
1031	P-626	1,420	16	130	FALSE	0	-522.52	0	0	0.83
1174	P-720	1,431	16	130	FALSE	0	0	0	0	0
1032	P-627	1,439	16	130	FALSE	0	-554.34	0	0	0.88
403	P-84	1,444	16	130	FALSE	0	789.38	0	1,444	1.26
623	P-370	1,452	16	130	FALSE	0	925.15	0.001	1,452	1.48
952	P-572	1,463	16	130	FALSE	0	-1,475.04	0.001	0	2.35
415	P-108	1,467	16	130	FALSE	0	1,576.75	0.001	1,440	2.52
884	P-531	1,512	16	130	FALSE	0	522.52	0	0	0.83

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499	P-218	1,519	16	130	FALSE	0	-2,097.05	0.002	1,519	3.35
416	P-109	1,532	16	130	FALSE	0	-41.58	0	1,497	0.07
354	P-27	1,551	16	130	FALSE	0	343.48	0	1,551	0.55
373	P-49	1,559	16	130	FALSE	0	-2,759.77	0.004	1,559	4.4
865	P-518	1,641	16	130	FALSE	0	0.00	0	0	0
709	P-423	1,662	16	130	FALSE	0	225.39	0	0	0.36
589	P-331	1,682	16	130	FALSE	0	-1,859.98	0.002	1,682	2.97
610	P-356	1,687	16	130	FALSE	0	2,520.00	0.003	1,687	4.02
490	P-201	1,695	16	130	FALSE	0	665.83	0	1,695	1.06
382	P-58	1,715	16	130	FALSE	0	-419.77	0	1,715	0.67
552	P-293	1,736	16	130	FALSE	0	-1,921.65	0.002	1,736	3.07
1132	P-691	1,743	16	130	FALSE	0	-484.06	0	0	0.77
549	P-287	1,754	16	130	FALSE	0	-1,766.78	0.002	1,817	2.82
470	P-176	1,756	16	130	FALSE	0	0	0	1,756	0
383	P-59	1,762	16	130	FALSE	0	-321.07	0	1,762	0.51
504	P-225	1,765	16	130	FALSE	0	-289.08	0	1,765	0.46
1066	P-651	1,770	16	130	FALSE	0	2,499.50	0.003	0	3.99
370	P-46	1,779	16	130	FALSE	0	343.48	0	1,779	0.55
618	P-364	1,786	16	130	FALSE	0	-1,155.68	0.001	1,786	1.84
402	P-83	1,791	16	130	FALSE	0	789.38	0	1,791	1.26
924	P-555	1,811	16	130	FALSE	0	145.15	0	0	0.23
346	P-18	1,818	16	130	FALSE	0	537.95	0	1,684	0.86
347	P-19	1,831	16	130	FALSE	0	-2,315.53	0.003	1,750	3.69
909	P-544	1,871	16	130	FALSE	0	-1,452.26	0.001	0	2.32
712	P-425	1,900	16	130	FALSE	0	-892.21	0.001	0	1.42
494	P-210	1,904	16	130	FALSE	0	875.22	0	1,892	1.4
367	P-42	1,907	16	130	FALSE	0	-1,432.64	0.001	1,799	2.29
905	P-542	1,931	16	130	FALSE	0	0.00	0	0	0
1016	P-614	1,932	16	130	FALSE	0	0.00	0	0	0
345	P-17	1,951	16	130	FALSE	0	2,600.08	0.004	1,951	4.15
614	P-360	1,954	16	130	FALSE	0	1,310.22	0.001	1,954	2.09
1079	P-660	1,967	16	130	FALSE	0	-70.86	0	0	0.11
500	P-221	1,977	16	130	FALSE	0	292.01	0	1,977	0.47
355	P-28	1,977	16	130	FALSE	0	-1,087.62	0.001	1,967	1.74
405	P-88	1,981	16	130	FALSE	0	-176.42	0	1,969	0.28
608	P-354	2,014	16	130	FALSE	0	-828.8	0	2,014	1.32
395	P-74	2,017	16	130	FALSE	0	608.4	0	2,017	0.97
581	P-322	2,021	16	130	FALSE	0	1,154.33	0.001	2,021	1.84
333	P-4	2,040	16	130	FALSE	0	-2,431.62	0.003	2,040	3.88
591	P-333	2,051	16	130	FALSE	0	-655.84	0	1,256	1.05
911	P-545	2,052	16	130	FALSE	0	187.42	0	0	0.3
597	P-341	2,057	16	130	FALSE	0	-3,919.30	0.008	2,057	6.25
606	P-352	2,065	16	130	FALSE	0	3,731.32	0.007	2,065	5.95
582	P-323	2,067	16	130	FALSE	0	842.96	0	2,067	1.35
537	P-269	2,070	16	130	FALSE	0	1,518.43	0.001	2,070	2.42
609	P-355	2,077	16	130	FALSE	0	1,072.41	0.001	2,077	1.71
337	P-8	2,087	16	130	FALSE	0	2,323.27	0.003	2,087	3.71
498	P-217	2,097	16	130	FALSE	0	2,155.70	0.003	2,097	3.44
481	P-191	2,148	16	130	FALSE	0	1,301.73	0.001	2,148	2.08
344	P-16	2,150	16	130	FALSE	0	3,325.32	0.006	2,150	5.31
401	P-82	2,177	16	130	FALSE	0	2,115.92	0.003	2,177	3.38
469	P-175	2,180	16	130	FALSE	0	2,711.73	0.004	2,180	4.33
1288	P-793	2,184	16	130	FALSE	0	1,371.72	0.001	0	2.19
548	P-285	2,187	16	130	FALSE	0	177.68	0	2,187	0.28
536	P-268	2,205	16	130	FALSE	0	841	0	2,205	1.34

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385	P-61	2,225	16	130	FALSE	0	527.14	0	2,225	0.84
936	P-563	2,228	16	130	FALSE	0	1,423.33	0.001	0	2.27
584	P-325	2,237	16	130	FALSE	0	-698.80	0	2,237	1.12
553	P-294	2,258	16	130	FALSE	0	1,055.70	0.001	2,258	1.68
1237	P-763	2,261	16	130	FALSE	0	1,069.75	0.001	0	1.71
468	P-174	2,271	16	130	FALSE	0	1,785.95	0.002	2,271	2.85
376	P-52	2,296	16	130	FALSE	0	-1,884.37	0.002	2,216	3.01
366	P-41	2,296	16	130	FALSE	0	-1,878.15	0.002	2,296	3
1207	P-743	2,303	16	130	FALSE	0	0.00	0	2,609	0
844	P-505	2,322	16	130	FALSE	0	-2,488.16	0.003	0	3.97
437	P-135	2,324	16	130	FALSE	0	1,830.90	0.002	2,324	2.92
418	P-112	2,333	16	130	FALSE	0	-1,155.68	0.001	2,333	1.84
1254	P-773	2,336	16	130	FALSE	0	-1,425.27	0.001	0	2.27
570	P-311	2,342	16	130	FALSE	0	1,428.17	0.001	2,618	2.28
445	P-144	2,349	16	130	FALSE	0	-34.82	0	2,349	0.06
1154	P-705	2,374	16	130	FALSE	0	1,920.89	0.002	0	3.07
788	P-470	2,393	16	130	FALSE	0	4,813.88	0.011	0	7.68
977	P-591	2,403	16	130	FALSE	0	1,204.34	0.001	0	1.92
619	P-365	2,404	16	130	FALSE	0	323.11	0	2,404	0.52
824	P-491	2,415	16	130	FALSE	0	339.76	0	0	0.54
1191	P-732	2,432	16	130	FALSE	0	-1,113.32	0.001	0	1.78
439	P-137	2,447	16	130	FALSE	0	1,611.27	0.002	2,447	2.57
332	P-3	2,455	16	130	FALSE	0	-590.77	0	2,455	0.94
837	P-500	2,457	16	130	FALSE	0	677.43	0	0	1.08
1168	P-715	2,489	16	130	FALSE	0	-1,349.36	0.001	0	2.15
353	P-25	2,492	16	130	FALSE	0	444.87	0	2,454	0.71
515	P-240	2,493	16	130	FALSE	0	1,371.13	0.001	2,493	2.19
424	P-119	2,499	16	130	FALSE	0	1,765.11	0.002	2,499	2.82
335	P-6	2,504	16	130	FALSE	0	-2,192.80	0.003	2,504	3.5
478	P-187	2,506	16	130	FALSE	0	3,290.67	0.006	2,506	5.25
427	P-123	2,523	16	130	FALSE	0	-1,872.26	0.002	2,523	2.99
1283	P-790	2,530	16	130	FALSE	0	656.47	0	0	1.05
399	P-80	2,532	16	130	FALSE	0	1,867.22	0.002	2,532	2.98
789	P-471	2,537	16	130	FALSE	0	2,139.50	0.003	0	3.41
839	P-501	2,539	16	130	FALSE	0	1,458.82	0.001	0	2.33
521	P-247	2,544	16	130	FALSE	0	971.02	0.001	2,544	1.55
1282	P-789	2,552	16	130	FALSE	0	-715.25	0	0	1.14
637	P-384	2,560	16	130	FALSE	0	2,450.30	0.003	2,560	3.91
449	P-148	2,592	16	130	FALSE	0	263.79	0	2,592	0.42
636	P-383	2,599	16	130	FALSE	0	3,802.68	0.007	2,599	6.07
964	P-582	2,600	16	130	FALSE	0	-2,392.74	0.003	0	3.82
578	P-319	2,603	16	130	FALSE	0	-2,554.36	0.004	2,603	4.08
814	P-486	2,604	16	130	FALSE	0	1,069.75	0.001	0	1.71
605	P-351	2,630	16	130	FALSE	0	-538.72	0	2,630	0.86
640	P-387	2,643	16	130	FALSE	0	1,606.94	0.002	2,643	2.56
438	P-136	2,645	16	130	FALSE	0	-791.30	0	2,645	1.26
1164	P-712	2,657	16	130	FALSE	0	519.46	0	0	0.83
419	P-113	2,673	16	130	FALSE	0	766.03	0	2,642	1.22
1155	P-706	2,691	16	130	FALSE	0	2,518.02	0.003	0	4.02
506	P-229	2,700	16	130	FALSE	0	-1,204.34	0.001	2,700	1.92
808	P-483	2,712	16	130	FALSE	0	-5,199.03	0.013	0	8.3
508	P-231	2,716	16	130	FALSE	0	2,122.67	0.003	2,692	3.39
450	P-149	2,719	16	130	FALSE	0	-1,448.29	0.001	2,719	2.31
336	P-7	2,725	16	130	FALSE	0	2,754.72	0.004	2,725	4.4
828	P-494	2,728	16	130	FALSE	0	-1,448.43	0.001	0	2.31

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371	P-47	2,749	16	130	FALSE	0	1,343.25	0.001	2,749	2.14
661	P-396	2,752	16	130	FALSE	0	-5,732.74	0.016	0	9.15
440	P-138	2,763	16	130	FALSE	0	1,269.63	0.001	2,763	2.03
600	P-344	2,775	16	130	FALSE	0	660.67	0	2,775	1.05
604	P-350	2,783	16	130	FALSE	0	-2,906.36	0.005	2,783	4.64
1169	P-716	2,788	16	130	FALSE	0	-760.26	0	0	1.21
873	P-523	2,794	16	130	FALSE	0	0.00	0	0	0
1293	P-797	2,810	16	130	FALSE	0	-1,255.91	0.001	0	2
384	P-60	2,815	16	130	FALSE	0	527.14	0	2,815	0.84
1072	P-655	2,827	16	130	FALSE	0	-777.05	0	0	1.24
556	P-297	2,835	16	130	FALSE	0	3,161.69	0.005	2,835	5.05
1287	P-792	2,840	16	130	FALSE	0	310.09	0	0	0.49
1043	P-635	2,842	16	130	FALSE	0	-1,308.21	0.001	0	2.09
474	P-181	2,870	16	130	FALSE	0	-2,962.79	0.005	2,845	4.73
617	P-363	2,871	16	130	FALSE	0	-1,478.79	0.001	2,871	2.36
1292	P-796	2,920	16	130	FALSE	0	-1,061.64	0.001	0	1.69
334	P-5	2,929	16	130	FALSE	0	-2,192.80	0.003	2,929	3.5
394	P-72	2,995	16	130	FALSE	0	2,155.70	0.003	2,976	3.44
588	P-330	3,005	16	130	FALSE	0	-1,704.30	0.002	3,005	2.72
1054	P-643	3,010	16	130	FALSE	0	-4,171.41	0.009	0	6.66
425	P-120	3,032	16	130	FALSE	0	602.84	0	3,032	0.96
489	P-200	3,071	16	130	FALSE	0	1,850.03	0.002	2,917	2.95
368	P-44	3,077	16	130	FALSE	0	-1,328.67	0.001	2,935	2.12
547	P-284	3,082	16	130	FALSE	0	-1,589.10	0.001	3,082	2.54
596	P-340	3,134	16	130	FALSE	0	886.69	0	3,134	1.41
1051	P-641	3,146	16	130	FALSE	0	2,258.16	0.003	0	3.6
954	P-574	3,160	16	130	FALSE	0	-2,408.81	0.003	0	3.84
359	P-32	3,172	16	130	FALSE	0	1,102.39	0.001	3,172	1.76
1190	P-731	3,182	16	130	FALSE	0	-3,354.41	0.006	0	5.35
615	P-361	3,214	16	130	FALSE	0	-478.39	0	3,214	0.76
607	P-353	3,220	16	130	FALSE	0	2,902.52	0.004	3,220	4.63
1052	P-642	3,224	16	130	FALSE	0	1,232.39	0.001	0	1.97
338	P-9	3,227	16	130	FALSE	0	1,987.28	0.002	3,227	3.17
1048	P-639	3,247	16	130	FALSE	0	-1,391.84	0.001	0	2.22
433	P-130	3,284	16	130	FALSE	0	-1,662.25	0.002	2,841	2.65
626	P-373	3,356	16	130	FALSE	0	2,499.19	0.003	3,356	3.99
1080	P-661	3,379	16	130	FALSE	0	1,458.82	0.001	0	2.33
381	P-57	3,396	16	130	FALSE	0	1,642.36	0.002	3,387	2.62
1050	P-640	3,396	16	130	FALSE	0	1,025.77	0.001	0	1.64
358	P-31	3,433	16	130	FALSE	0	2,579.18	0.004	3,433	4.12
436	P-133	3,437	16	130	FALSE	0	1,853.08	0.002	3,437	2.96
1247	P-769	3,456	16	130	FALSE	0	-1,187.49	0.001	0	1.89
479	P-188	3,476	16	130	FALSE	0	1,374.03	0.001	3,476	2.19
639	P-386	3,505	16	130	FALSE	0	1,576.81	0.001	3,505	2.52
1026	P-622	3,515	16	130	FALSE	0	-455.51	0	0	0.73
1255	P-774	3,558	16	130	FALSE	0	-1,949.72	0.002	0	3.11
410	P-99	3,562	16	130	FALSE	0	-1,917.70	0.002	3,562	3.06
1143	P-698	3,566	16	130	FALSE	0	383.28	0	0	0.61
1182	P-725	3,571	16	130	FALSE	0	0.00	0	0	0
1252	P-772	3,576	16	130	FALSE	0	-2,824.46	0.004	0	4.51
821	P-489	3,589	16	130	FALSE	0	-1,555.99	0.001	0	2.48
622	P-369	3,598	16	130	FALSE	0	-1,728.69	0.002	3,598	2.76
554	P-295	3,623	16	130	FALSE	0	-2,977.34	0.005	3,623	4.75
1175	P-721	3,637	16	130	FALSE	0	0.00	0	0	0
822	P-490	3,659	16	130	FALSE	0	-1,895.76	0.002	0	3.03

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473	P-180	3,685	16	130	FALSE	0	737.61	0	3,196	1.18
972	P-587	3,847	16	130	FALSE	0	0.00	0	0	0
1028	P-624	3,848	16	130	FALSE	0	1,400.18	0.001	0	2.23
1220	P-751	3,888	16	130	FALSE	0	0.00	0	0	0
819	P-488	3,891	16	130	FALSE	0	-1,216.23	0.001	0	1.94
590	P-332	3,913	16	130	FALSE	0	-445.50	0	4,907	0.71
935	P-562	3,923	16	130	FALSE	0	-1,322.12	0.001	0	2.11
1197	P-737	3,953	16	130	FALSE	0	-1,528.22	0.001	0	2.44
1165	P-713	4,016	16	130	FALSE	0	671.65	0	0	1.07
772	P-460	4,081	16	130	FALSE	0	2,179.62	0.003	0	3.48
941	P-566	4,104	16	130	FALSE	0	-3,252.83	0.006	0	5.19
480	P-190	4,117	16	130	FALSE	0	1,836.61	0.002	4,117	2.93
1214	P-747	4,123	16	130	FALSE	0	-1,938.40	0.002	4,990	3.09
482	P-193	4,209	16	130	FALSE	0	2,293.91	0.003	4,209	3.66
919	P-551	4,225	16	130	FALSE	0	923.36	0.001	0	1.47
1231	P-758	4,265	16	130	FALSE	0	3,750.86	0.007	0	5.99
1257	P-776	4,280	16	130	FALSE	0	2,286.98	0.003	0	3.65
702	P-418	4,280	16	130	FALSE	0	1,177.40	0.001	0	1.88
955	P-575	4,289	16	130	FALSE	0	-1,758.45	0.002	0	2.81
1006	P-607	4,289	16	130	FALSE	0	-904.37	0.001	0	1.44
1147	P-701	4,301	16	130	FALSE	0	383.28	0	0	0.61
586	P-328	4,305	16	130	FALSE	0	-1,470.29	0.001	4,305	2.35
566	P-307	4,318	16	130	FALSE	0	-178.52	0	4,318	0.28
966	P-583	4,354	16	130	FALSE	0	-2,930.26	0.005	0	4.68
1104	P-673	4,374	16	130	FALSE	0	-1,329.01	0.001	0	2.12
867	P-519	4,447	16	130	FALSE	0	0	0	0	0
621	P-368	4,534	16	130	FALSE	0	-1,941.69	0.002	4,534	3.1
923	P-554	4,680	16	130	FALSE	0	-2,139.50	0.003	0	3.41
592	P-334	4,782	16	130	FALSE	0	1,939.03	0.002	4,411	3.09
963	P-581	4,804	16	130	FALSE	0	-2,012.16	0.002	0	3.21
1256	P-775	4,806	16	130	FALSE	0	1,762.53	0.002	0	2.81
485	P-196	4,867	16	130	FALSE	0	-2,196.83	0.003	4,848	3.51
956	P-576	4,989	16	130	FALSE	0	-1,995.53	0.002	0	3.18
657	P-394	4,990	16	130	FALSE	0	845.95	0	0	1.35
764	P-456	4,997	16	130	FALSE	0	1,522.41	0.001	0	2.43
957	P-577	4,999	16	130	FALSE	0	-1,027.54	0.001	0	1.64
802	P-478	5,066	16	130	FALSE	0	414.34	0	0	0.66
766	P-457	5,066	16	130	FALSE	0	-862.19	0	0	1.38
890	P-533	5,070	16	130	FALSE	0	1,063.50	0.001	0	1.7
901	P-539	5,075	16	130	FALSE	0	1,029.64	0.001	0	1.64
686	P-410	5,092	16	130	FALSE	0	831.33	0	0	1.33
665	P-398	5,092	16	130	FALSE	0	-1,494.75	0.001	0	2.39
680	P-406	5,093	16	130	FALSE	0	-1,395.45	0.001	0	2.23
961	P-580	5,093	16	130	FALSE	0	-892.88	0.001	0	1.42
667	P-399	5,096	16	130	FALSE	0	2,277.04	0.003	0	3.63
827	P-493	5,116	16	130	FALSE	0	-913.55	0.001	0	1.46
888	P-532	5,117	16	130	FALSE	0	1,734.56	0.002	0	2.77
780	P-465	5,136	16	130	FALSE	0	2,126.65	0.003	0	3.39
805	P-480	5,138	16	130	FALSE	0	-1,725.17	0.002	0	2.75
902	P-540	5,150	16	130	FALSE	0	1,071.42	0.001	0	1.71
969	P-585	5,150	16	130	FALSE	0	1,204.34	0.001	0	1.92
730	P-434	5,172	16	130	FALSE	0	2,072.20	0.002	0	3.31
747	P-445	5,172	16	130	FALSE	0	-1,611.36	0.002	0	2.57
895	P-536	5,191	16	130	FALSE	0	-3,256.53	0.006	0	5.2
899	P-538	5,192	16	130	FALSE	0	1,532.46	0.001	0	2.45

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892	P-534	5,192	16	130	FALSE	0	-6.25	0	0	0.01
894	P-535	5,194	16	130	FALSE	0	-1,263.42	0.001	0	2.02
669	P-400	5,194	16	130	FALSE	0	915.98	0.001	0	1.46
663	P-397	5,195	16	130	FALSE	0	2,496.26	0.003	0	3.98
800	P-477	5,207	16	130	FALSE	0	2,018.96	0.002	0	3.22
781	P-466	5,207	16	130	FALSE	0	2,939.82	0.005	0	4.69
733	P-436	5,216	16	130	FALSE	0	0.00	0	0	0
807	P-482	5,242	16	130	FALSE	0	-3,050.19	0.005	0	4.87
750	P-448	5,246	16	130	FALSE	0	-630.76	0	0	1.01
897	P-537	5,250	16	130	FALSE	0	133.51	0	0	0.21
731	P-435	5,263	16	130	FALSE	0	454.12	0	0	0.72
782	P-467	5,279	16	130	FALSE	0	942.39	0.001	0	1.5
921	P-553	5,283	16	130	FALSE	0	1,028.73	0.001	0	1.64
946	P-569	5,287	16	130	FALSE	0	1,955.30	0.002	0	3.12
917	P-550	5,287	16	130	FALSE	0	885.32	0	0	1.41
774	P-461	5,290	16	130	FALSE	0	1,644.74	0.002	0	2.62
475	P-184	5,308	16	130	FALSE	0	-1,577.74	0.001	5,295	2.52
948	P-570	5,350	16	130	FALSE	0	829.75	0	0	1.32
752	P-449	5,375	16	130	FALSE	0	-2,208.18	0.003	0	3.52
916	P-549	5,408	16	130	FALSE	0	1,702.71	0.002	0	2.72
1172	P-719	5,410	16	130	FALSE	0	-3,059.52	0.005	0	4.88
790	P-472	5,418	16	130	FALSE	0	-1,604.63	0.001	0	2.56
776	P-462	5,419	16	130	FALSE	0	-1,299.08	0.001	0	2.07
744	P-443	5,490	16	130	FALSE	0	-1,113.07	0.001	0	1.78
1056	P-645	5,491	16	130	FALSE	0	3,299.90	0.006	0	5.27
1057	P-646	5,492	16	130	FALSE	0	1,312.77	0.001	0	2.09
1131	P-690	5,496	16	130	FALSE	0	-737.12	0	0	1.18
635	P-382	5,502	16	130	FALSE	0	1,309.25	0.001	5,502	2.09
745	P-444	5,594	16	130	FALSE	0	2,924.09	0.005	0	4.67
920	P-552	5,619	16	130	FALSE	0	882.33	0	0	1.41
743	P-442	5,664	16	130	FALSE	0	783.45	0	0	1.25
1183	P-726	5,714	16	130	FALSE	0	372.80	0	0	0.59
1188	P-730	5,747	16	130	FALSE	0	2,777.80	0.004	0	4.43
1192	P-733	5,761	16	130	FALSE	0	2,241.08	0.003	0	3.58
829	P-495	5,795	16	130	FALSE	0	1,859.94	0.002	0	2.97
914	P-547	5,879	16	130	FALSE	0	-933.57	0.001	0	1.49
748	P-446	7,695	16	130	FALSE	0	0.00	0	0	0
1236	P-762	8,386	16	130	FALSE	0	1,069.75	0.001	0	1.71
1017	P-615	191	24	130	FALSE	0	0.00	0	0	0
706	P-421	225	24	130	FALSE	0	0.00	0	0	0
1055	P-644	250	24	130	FALSE	0	0.00	0	0	0
1021	P-618	409	24	130	FALSE	0	0.00	0	0	0
1187	P-729	446	24	130	FALSE	0	0.00	0	0	0
1005	P-606	797	24	130	FALSE	0	7,539.02	0.004	0	5.35
603	P-347	837	24	130	FALSE	0	102.76	0	837	0.07
1020	P-617	866	24	130	FALSE	0	1,385.91	0	0	0.98
979	P-592	905	24	130	FALSE	0	0.00	0	0	0
1140	P-696	977	24	130	FALSE	0	2,523.00	0	0	1.79
848	P-508	988	24	130	FALSE	0	404.92	0	0	0.29
340	P-12	1,228	24	130	FALSE	0	8,272.84	0.004	1,228	5.87
526	P-253	1,246	24	130	FALSE	0	0.00	0	1,246	0
1098	P-670	1,257	24	130	FALSE	0	3,519.61	0.001	0	2.5
428	P-124	1,278	24	130	FALSE	0	7,296.45	0.003	1,278	5.17
518	P-244	1,365	24	130	FALSE	0	-1,389.91	0	1,365	0.99
1068	P-652	1,397	24	130	FALSE	0	-6,854.78	0.003	0	4.86

Id	Label	Scaled Length (ft)	Diameter (in)	Hazen-Williams C	Has Check Valve?	Minor Loss	Flow (gpm)	Headloss Gradient (ft/ft)	Length (User Defined) (ft)	Velocity (ft/s)
422	P-117	1,581	24	130	FALSE	0	-3,781.50	0.001	1,581	2.68
430	P-126	1,581	24	130	FALSE	0	6,468.43	0.003	1,581	4.59
363	P-38	1,603	24	130	FALSE	0	400.88	0	2,320	0.28
429	P-125	1,610	24	130	FALSE	0	6,468.43	0.003	1,610	4.59
931	P-560	1,621	24	130	FALSE	0	-2,690.53	0.001	0	1.91
1069	P-653	1,701	24	130	FALSE	0	-4,915.38	0.002	0	3.49
386	P-62	1,733	24	130	FALSE	0	-3,461.38	0.001	1,733	2.45
1097	P-669	1,768	24	130	FALSE	0	-2,627.40	0.001	0	1.86
825	P-492	1,792	24	130	FALSE	0	-5,059.98	0.002	0	3.59
331	P-2	1,793	24	130	FALSE	0	6,194.51	0.003	1,793	4.39
1082	P-662	1,807	24	130	FALSE	0	4,958.72	0.002	3,765	3.52
1083	P-663	1,958	24	130	FALSE	0	4,958.72	0.002	3,765	3.52
798	P-476	1,971	24	130	FALSE	0	4,676.48	0.002	0	3.32
568	P-309	1,983	24	130	FALSE	0	4,510.08	0.001	1,694	3.2
413	P-102	1,985	24	130	FALSE	0	-1,911.24	0	1,985	1.36
907	P-543	2,028	24	130	FALSE	0	-7,177.09	0.003	0	5.09
579	P-320	2,063	24	130	FALSE	0	-3,680.87	0.001	2,063	2.61
460	P-163	2,082	24	130	FALSE	0	-2,446.49	0	2,082	1.74
463	P-166	2,083	24	130	FALSE	0	1,732.74	0	2,083	1.23
1200	P-739	2,095	24	130	FALSE	0	5,882.95	0.002	0	4.17
330	P-1	2,119	24	130	FALSE	0	9,378.26	0.005	2,119	6.65
392	P-69	2,154	24	130	FALSE	0	4,015.46	0.001	2,125	2.85
1145	P-699	2,203	24	130	FALSE	0	625.92	0	0	0.44
1128	P-688	2,207	24	130	FALSE	0	3,720.94	0.001	0	2.64
953	P-573	2,267	24	130	FALSE	0	3,655.17	0.001	0	2.59
655	P-393	2,444	24	130	FALSE	0	-1,650.74	0	0	1.17
580	P-321	2,477	24	130	FALSE	0	-1,126.51	0	2,477	0.8
959	P-578	2,487	24	130	FALSE	0	-2,535.78	0	0	1.8
364	P-39	2,493	24	130	FALSE	0	400.88	0	2,584	0.28
1129	P-689	2,518	24	130	FALSE	0	3,467.88	0.001	0	2.46
676	P-404	2,546	24	130	FALSE	0	-2,490.04	0	0	1.77
630	P-377	2,551	24	130	FALSE	0	2,086.01	0	2,551	1.48
1221	P-752	2,614	24	130	FALSE	0	5,882.95	0.002	0	4.17
1158	P-708	2,617	24	130	FALSE	0	-7,418.53	0.004	0	5.26
611	P-357	2,623	24	130	FALSE	0	-2,021.87	0	2,623	1.43
472	P-179	2,654	24	130	FALSE	0	-4,733.09	0.002	2,654	3.36
455	P-157	2,673	24	130	FALSE	0	-985.99	0	1,397	0.7
631	P-378	2,681	24	130	FALSE	0	-2,105.73	0	2,681	1.49
454	P-156	2,689	24	130	FALSE	0	1,431.46	0	1,239	1.02
1157	P-707	2,702	24	130	FALSE	0	-6,821.40	0.003	0	4.84
351	P-23	2,731	24	130	FALSE	0	6,340.40	0.003	2,731	4.5
653	P-392	2,750	24	130	FALSE	0	-903.93	0	0	0.64
612	P-358	2,791	24	130	FALSE	0	-4,004.33	0.001	2,791	2.84
980	P-593	2,886	24	130	FALSE	0	1,954.08	0	0	1.39
421	P-116	2,901	24	130	FALSE	0	-1,140.17	0	2,901	0.81
459	P-162	2,919	24	130	FALSE	0	-2,640.77	0.001	4,198	1.87
406	P-89	2,977	24	130	FALSE	0	-20.43	0	2,977	0.01
462	P-165	2,980	24	130	FALSE	0	2,658.25	0.001	2,980	1.89
927	P-557	2,988	24	130	FALSE	0	-10,264.50	0.006	0	7.28
564	P-305	3,024	24	130	FALSE	0	-2,199.66	0	3,024	1.56
420	P-115	3,028	24	130	FALSE	0	-1,370.44	0	3,028	0.97
360	P-34	3,031	24	130	FALSE	0	7,440.19	0.004	3,031	5.28
423	P-118	3,032	24	130	FALSE	0	2,447.37	0	3,032	1.74
555	P-296	3,500	24	130	FALSE	0	8,089.67	0.004	3,500	5.74
361	P-35	3,608	24	130	FALSE	0	4,845.34	0.002	3,739	3.44

Id	Label	Scaled Length (ft)	Diameter (in)	Hazen-Williams C	Has Check Valve?	Minor Loss	Flow (gpm)	Headloss Gradient (ft/ft)	Length (User Defined) (ft)	Velocity (ft/s)
982	P-594	3,679	24	130	FALSE	0	5,860.44	0.002	0	4.16
391	P-68	3,770	24	130	FALSE	0	4,696.37	0.002	3,531	3.33
1193	P-734	3,927	24	130	FALSE	0	-519.59	0	0	0.37
1195	P-735	4,047	24	130	FALSE	0	-5,911.92	0.002	0	4.19
1196	P-736	4,098	24	130	FALSE	0	-7,440.14	0.004	0	5.28
620	P-366	4,209	24	130	FALSE	0	2,130.10	0	4,209	1.51
1141	P-697	4,266	24	130	FALSE	0	1,466.92	0	0	1.04
339	P-11	4,584	24	130	FALSE	0	-5,268.68	0.002	4,584	3.74
577	P-318	4,861	24	130	FALSE	0	-7,062.62	0.003	4,861	5.01
1105	P-674	4,900	24	130	FALSE	0	723.59	0	0	0.51
760	P-454	4,996	24	130	FALSE	0	-3,605.04	0.001	0	2.56
703	P-419	5,093	24	130	FALSE	0	-3,437.07	0.001	0	2.44
756	P-452	5,097	24	130	FALSE	0	-2,153.27	0	0	1.53
1184	P-727	5,103	24	130	FALSE	0	5,129.25	0.002	0	3.64
810	P-484	5,130	24	130	FALSE	0	4,525.40	0.001	0	3.21
1269	P-783	5,155	24	130	FALSE	0	7,711.97	0.004	0	5.47
755	P-451	5,168	24	130	FALSE	0	4,059.19	0.001	0	2.88
685	P-409	5,195	24	130	FALSE	0	-3,409.76	0.001	0	2.42
770	P-459	5,208	24	130	FALSE	0	3,611.19	0.001	0	2.56
960	P-579	5,235	24	130	FALSE	0	-4,242.75	0.001	0	3.01
671	P-401	5,297	24	130	FALSE	0	-4,317.45	0.001	0	3.06
682	P-407	5,297	24	130	FALSE	0	4,165.87	0.001	0	2.95
672	P-402	5,305	24	130	FALSE	0	2,119.39	0	0	1.5
768	P-458	5,348	24	130	FALSE	0	-3,799.34	0.001	0	2.69
967	P-584	5,402	24	130	FALSE	0	6,802.25	0.003	0	4.82
762	P-455	5,490	24	130	FALSE	0	1,333.70	0	0	0.95
1106	P-675	5,604	24	130	FALSE	0	-3,122.35	0.001	0	2.21
933	P-561	5,978	24	130	FALSE	0	-771.96	0	0	0.55
357	P-30	1,162	24	130	FALSE	0	5,739.80	0.002	1,162	4.07
356	P-29	1,404	24	130	FALSE	0	-1,890.60	0	1,404	1.34
569	P-310	1,417	24	130	FALSE	0	4,411.62	0.001	1,791	3.13
407	P-90	1,734	24	130	FALSE	0	-2,431.36	0	1,734	1.72
390	P-67	2,001	24	130	FALSE	0	5,982.03	0.002	2,001	4.24
565	P-306	2,534	24	130	FALSE	0	-2,021.14	0	2,534	1.43
567	P-308	3,292	24	130	FALSE	0	4,696.63	0.002	2,975	3.33
389	P-66	3,427	24	130	FALSE	0	7,867.05	0.004	3,427	5.58
1096	P-668	402	30	130	FALSE	0	15,471.47	0.005	50	7.02
1090	P-665	576	30	130	FALSE	0	15,046.51	0.004	50	6.83
1249	P-770	715	30	130	FALSE	0	-16,004.01	0.005	50	7.26
1259	P-777	716	30	130	FALSE	0	-16,810.49	0.005	50	7.63
1273	P-785	857	30	130	FALSE	0	-14,697.88	0.004	50	6.67
1261	P-778	1,030	30	130	FALSE	0	15,370.78	0.005	50	6.98
1087	P-664	1,033	30	130	FALSE	0	15,856.26	0.005	50	7.2
1268	P-782	1,077	30	130	FALSE	0	-15,183.28	0.005	50	6.89
1279	P-788	1,082	30	130	FALSE	0	13,619.12	0.004	50	6.18
1275	P-786	1,154	30	130	FALSE	0	-11,678.58	0.003	50	5.3
1266	P-781	1,249	30	130	FALSE	0	-11,151.34	0.003	50	5.06
1271	P-784	1,262	30	130	FALSE	0	-7,743.04	0.001	0	3.51
1300	P-802	1,557	30	130	FALSE	0	17,060.66	0.006	50	7.74
983	P-595	1,593	30	130	FALSE	0	13,186.61	0.003	200	5.99
1277	P-787	1,659	30	130	FALSE	0	16,685.21	0.005	50	7.57
471	CAP-bel	498	36	130	FALSE	0	15,314.37	0.002	50	4.83
1134	P-693	1,504	36	130	FALSE	0	-16,320.13	0.002	100	5.14
1102	P-672	2,429	36	130	FALSE	0	12,489.85	0.001	0	3.94
678	P-405	2,546	36	130	FALSE	0	11,031.51	0.001	0	3.48

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
CAP-Belmont	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	53.7	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-2	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	54.2	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-3	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	61.2	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V18-I	115: Zone -	2	TRUE	1,500.00	2,000.00	2,434.56	2,934.56	20	59.4	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-5	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	60.6	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-6	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	60.8	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-7	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	72.8	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-8	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	71	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-9	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	76.4	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-10	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	83.1	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V18-II	115: Zone -	2	TRUE	1,500.00	2,000.00	2,434.56	2,934.56	20	59.1	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-12	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	70.6	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-13	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	71.3	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V18-III	115: Zone -	2	TRUE	1,500.00	2,000.00	2,434.56	2,934.56	20	75.3	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-15	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	70.1	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V17-I	115: Zone -	2	TRUE	1,500.00	2,000.00	2,713.74	3,213.74	20	68.2	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-17	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	63.9	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-18	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	65.6	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V17-II	115: Zone -	2	TRUE	1,500.00	2,000.00	2,713.74	3,213.74	20	64.1	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-20	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	69.9	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-21	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	62.4	20	44.5	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-22	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	53.2	20	44.4	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-23	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	53.7	20	44.4	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-24	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	53.7	20	44.5	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-25	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	54.1	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-26	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	54.6	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V20-I-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	2,688.00	3,188.00	20	60.3	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V21-I-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	2,369.22	2,869.22	20	54.4	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V21-II-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	2,369.22	2,869.22	20	61.8	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V21-I-Z2	115: Zone -	2	TRUE	1,500.00	2,000.00	1,933.62	2,433.62	20	79	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V20-II-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	2,688.00	3,188.00	20	63	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V16-III	115: Zone -	2	TRUE	1,500.00	2,000.00	2,632.56	3,132.56	20	66.6	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V15-II-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	2,553.36	3,053.36	20	74	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-34	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	49.8	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V19-II	115: Zone -	2	TRUE	1,500.00	2,000.00	2,830.56	3,330.56	20	47.7	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-36	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	54.1	20	44.5	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-37	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	58.6	20	44.5	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V19-I	115: Zone -	2	TRUE	1,500.00	2,000.00	2,830.56	3,330.56	20	44	20	47.8	154: J-V19-II	20	40.1	1042: J-327	TRUE
J-39	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	50.8	20	44.3	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V16-II	115: Zone -	2	TRUE	1,500.00	2,000.00	2,632.56	3,132.56	20	54.2	20	44.5	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-41	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	49.3	20	44.4	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V16-I	115: Zone -	2	TRUE	1,500.00	2,000.00	2,632.56	3,132.56	20	64.1	20	44.5	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V13-I-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	2,327.64	2,827.64	20	76.7	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-44	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	80.5	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V17-III	115: Zone -	2	TRUE	1,500.00	2,000.00	2,713.74	3,213.74	20	82.6	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V14-I-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	2,226.66	2,726.66	20	79.4	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-47	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	74.7	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-48	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	72.8	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V11-I-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	1,941.54	2,441.54	20	74.2	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-50	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	48.7	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
J-V13-I-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,602.86	3,102.86	20	54.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-52	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	65	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-53	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	53.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V12-I	18: Zone -	2	TRUE	1,500.00	2,000.00	2,361.30	2,861.30	20	49.7	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-55	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	50.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V11-II-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,163.30	2,663.30	20	52.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V13-II-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,602.86	3,102.86	20	54.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-58	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	48.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-59	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	81.1	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-60	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	74.9	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V14-II-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	2,226.66	2,726.66	20	77.3	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-62	115: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	75.5	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V11-IV-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,163.30	2,663.30	20	45	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-64	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	75.9	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-65	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	74.9	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V15-I-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	2,553.36	3,053.36	20	70	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-67	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	65.3	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V10-I-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	1,666.32	2,166.32	20	77.9	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-70	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	47.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-71	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	53	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V8-I	18: Zone -	2	TRUE	1,500.00	2,000.00	2,616.72	3,116.72	20	51.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V15-II-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,553.36	3,053.36	20	51.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V9-I	18: Zone -	2	TRUE	1,500.00	2,000.00	2,788.98	3,288.98	20	51.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V15-III-Z3	115: Zone -	2	TRUE	1,500.00	2,000.00	2,553.36	3,053.36	20	79.4	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-76	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	51.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V22-II	18: Zone -	2	TRUE	1,500.00	2,000.00	2,587.02	3,087.02	20	44.2	20	40	1042: J-327	20	40	1042: J-327	TRUE
J-79	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	48.8	20	40	1042: J-327	20	40	1042: J-327	TRUE
J-V22-I	115: Zone -	2	TRUE	1,500.00	2,000.00	2,587.02	3,087.02	20	76	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V22-III	18: Zone -	2	TRUE	1,500.00	2,000.00	2,587.02	3,087.02	20	54.6	20	40	1042: J-327	20	40	1042: J-327	TRUE
J-82	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-83	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	71.5	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-84	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	53.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V8-II	18: Zone -	2	TRUE	1,500.00	2,000.00	2,616.72	3,116.72	20	60.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-86	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	66.5	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-87	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	55.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-88	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	75.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-89	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-90	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-91	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.3	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-92	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	62	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V7-II	18: Zone -	2	TRUE	1,500.00	2,000.00	2,172.21	2,672.21	20	65.5	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-94	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	78.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-95	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V3-I-Z1	18: Zone -	2	TRUE	1,500.00	2,000.00	1,632.66	2,132.66	20	80.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V2-II	17: Zone -	2	TRUE	1,500.00	2,000.00	2,131.62	2,631.62	20	51.3	20	46.9	285: J-171	20	40.1	1042: J-327	TRUE
J-98	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	60.7	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-99	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	63.1	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-100	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	66.3	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-101	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	71.1	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-V23-I	17: Zone -	2	TRUE	1,500.00	2,000.00	2,046.48	2,546.48	20	70.3	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
J-103	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	53.1	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-104	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	58	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V12-II	18: Zone -	2	TRUE	1,500.00	2,000.00	2,361.30	2,861.30	20	67.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-106	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	66	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V5-I	18: Zone -	2	TRUE	1,500.00	2,000.00	2,434.56	2,934.56	20	69.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-108	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	63.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V6-I	18: Zone -	2	TRUE	1,500.00	2,000.00	2,383.08	2,883.08	20	61.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-110	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	70.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-111	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	77.5	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-112	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	70.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-113	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	73.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V5-II	18: Zone -	2	TRUE	1,500.00	2,000.00	2,434.56	2,934.56	20	74.5	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-115	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.5	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-116	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	63.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-117	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	68.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V6-II	18: Zone -	2	TRUE	1,500.00	2,000.00	2,383.08	2,883.08	20	70.3	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-119	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	75	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-120	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	48.9	20	46.3	285: J-171	20	40.1	1042: J-327	TRUE
J-V4-I-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,779.08	3,279.08	20	75.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-123	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	46.6	20	46.3	285: J-171	20	40.1	1042: J-327	TRUE
J-124	17: Zone -	2	TRUE	1,500.00	2,000.00	1,979.16	2,479.16	20	50.8	20	46.4	285: J-171	20	40.1	1042: J-327	TRUE
J-V4-I-Z1	17: Zone -	2	TRUE	1,500.00	2,000.00	2,139.54	2,639.54	20	48.5	20	46.3	869: J-283	20	40.1	1042: J-327	TRUE
J-126	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	65.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-127	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	67.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V4-II-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,779.08	3,279.08	20	73.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-129	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	49.5	20	46.5	869: J-283	20	40.1	1042: J-327	TRUE
J-V2-I	17: Zone -	2	TRUE	1,500.00	2,000.00	2,131.62	2,631.62	20	50.5	20	46.6	869: J-283	20	40.1	1042: J-327	TRUE
J-131	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	52.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V3-I-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,699.88	3,199.88	20	73.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V1-II	17: Zone -	2	TRUE	1,500.00	2,000.00	2,699.88	3,199.88	20	61	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-V1-I	17: Zone -	2	TRUE	1,500.00	2,000.00	2,699.88	3,199.88	20	68.4	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-135	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	71.6	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-136	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	68	20	47	285: J-171	20	40.1	1042: J-327	TRUE
J-137	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	70.6	20	47	285: J-171	20	40.1	1042: J-327	TRUE
J-138	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	48.8	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-V25-I	17: Zone -	2	TRUE	1,500.00	2,000.00	3,678.00	4,178.00	20	64.6	20	46.9	285: J-171	20	40.1	1042: J-327	TRUE
J-140	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	67.8	20	46.8	285: J-171	20	40.1	1042: J-327	TRUE
J-V25-II	16: Zone -	2	TRUE	1,500.00	2,000.00	3,678.00	4,178.00	20	48.8	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-143	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	53.4	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-144	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	71.4	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-V24-I	17: Zone -	2	TRUE	1,500.00	2,000.00	3,044.40	3,544.40	20	68.1	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-146	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	73	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-147	17: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	70.5	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-148	17: Zone -	2	TRUE	1,500.00	2,000.00	2,014.80	2,514.80	20	63.3	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-149	16: Zone -	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	55.6	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-V24-II	17: Zone -	2	TRUE	1,500.00	2,000.00	3,044.40	3,544.40	20	63.3	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-V11-I-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,826.60	3,326.60	20	52.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V11-III-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,826.60	3,326.60	20	53.3	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V7-I	18: Zone -	2	TRUE	1,500.00	2,000.00	2,844.42	3,344.42	20	56.7	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V9-II	18: Zone -	2	TRUE	1,500.00	2,000.00	2,788.98	3,288.98	20	48.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
J-V15-I-Z2	115: Zone -	2	TRUE	1,500.00	2,000.00	2,553.36	3,053.36	20	77.3	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-V10-I-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,996.88	3,496.88	20	45.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V14-I-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	1,662.36	2,162.36	20	44.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V13-III-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	3,232.50	3,732.50	20	48.5	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V20-I-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,094.00	2,594.00	20	46.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-161	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	78.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-162	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	46.7	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V15-III-Z2	18: Zone -	2	TRUE	1,500.00	2,000.00	2,553.36	3,053.36	20	45	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-164	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	67.8	20	46.8	285: J-171	20	40.1	1042: J-327	TRUE
J-165	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	51.4	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-166	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	78.8	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-167	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.9	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-168	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	48.2	20	46.1	285: J-171	20	40.1	1042: J-327	TRUE
J-169	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	78.3	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-170	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.7	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-171	17: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	45.9	20	46	869: J-283	20	40.1	1042: J-327	TRUE
J-172	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	56.4	20	39.8	835: J-281	20	39.8	835: J-281	TRUE
J-173	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	62.9	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-174	17: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	50.4	20	46	875: J-285	20	40.1	1042: J-327	TRUE
J-175	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	51.4	20	46.9	285: J-171	20	40.1	1042: J-327	TRUE
J-176	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	62.4	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-177	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	56.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-178	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	58.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-180	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	62.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-V7-III	18: Zone -	2	TRUE	1,500.00	2,000.00	2,172.21	2,672.21	20	69.3	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-182	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	64.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-183	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	71.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-184	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	59.7	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-185	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	51.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-186	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	50.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-187	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	55.1	20	44.7	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-188	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	45.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-189	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	75.3	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-190	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	56.9	20	44.5	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-191	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	78.5	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-192	18: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	78	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-193	18: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	80.3	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-194	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	63.2	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-195	17: Zone -	2	TRUE	1,500.00	2,000.00	2,444.46	2,944.46	20	67.1	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-196	17: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	66.2	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-197	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	64.3	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-198	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	59.1	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-199	17: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	59.1	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-200	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	65.9	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-201	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	70.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-202	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	64.1	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-203	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	70.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-204	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	44	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-205	18: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	76.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-212	17: Zone -	2	TRUE	1,500.00	2,000.00	2,569.20	3,069.20	20	67.1	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
J-213	17: Zone -	2	TRUE	1,500.00	2,000.00	1,939.56	2,439.56	20	68.5	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-214	17: Zone -	2	TRUE	1,500.00	2,000.00	2,280.12	2,780.12	20	69.5	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-215	17: Zone -	2	TRUE	1,500.00	2,000.00	2,280.12	2,780.12	20	77.2	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-216	16: Zone -	2	TRUE	1,500.00	2,000.00	2,137.56	2,637.56	20	52.7	20	47.9	1180: J-358	20	40.1	1042: J-327	TRUE
J-217	16: Zone -	2	TRUE	1,500.00	2,000.00	1,939.56	2,439.56	20	66.7	20	50.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-218	16: Zone -	2	TRUE	1,500.00	2,000.00	2,137.56	2,637.56	20	57.7	20	48.8	1180: J-358	20	40.1	1042: J-327	TRUE
J-219	16: Zone -	2	TRUE	1,500.00	2,000.00	2,137.56	2,637.56	20	59.1	20	48.8	1180: J-358	20	40.1	1042: J-327	TRUE
J-220	16: Zone -	2	TRUE	1,500.00	2,000.00	2,452.38	2,952.38	20	66.2	20	49	1180: J-358	20	40.1	1042: J-327	TRUE
J-221	17: Zone -	2	TRUE	1,500.00	2,000.00	2,785.02	3,285.02	20	78.9	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-222	17: Zone -	2	TRUE	1,500.00	2,000.00	1,840.56	2,340.56	20	68.4	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
Balterra	17: Zone -	2	TRUE	1,500.00	2,000.00	1,840.56	2,340.56	20	66.2	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-225	17: Zone -	2	TRUE	1,500.00	2,000.00	2,155.38	2,655.38	20	65.6	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-226	17: Zone -	2	TRUE	1,500.00	2,000.00	2,353.38	2,853.38	20	78.4	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-227	17: Zone -	2	TRUE	1,500.00	2,000.00	2,311.80	2,811.80	20	72.4	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-228	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	60	20	47	285: J-171	20	40.1	1042: J-327	TRUE
J-229	16: Zone -	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	75.3	20	50.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-230	18: Zone -	2	TRUE	1,500.00	2,000.00	1,995.00	2,495.00	20	78.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-232	17: Zone -	2	TRUE	1,500.00	2,000.00	2,391.00	2,891.00	20	61	20	45.2	978: J-317	20	40.1	1042: J-327	TRUE
J-233	17: Zone -	2	TRUE	1,500.00	2,000.00	2,309.82	2,809.82	20	78.5	20	45.9	978: J-317	20	40.1	1042: J-327	TRUE
J-234	17: Zone -	2	TRUE	1,500.00	2,000.00	2,193.00	2,693.00	20	68.5	20	45.2	978: J-317	20	40.1	1042: J-327	TRUE
J-235	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	44.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
DZ-South	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	57.7	20	46.8	285: J-171	20	40.1	1042: J-327	TRUE
DZ-North	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	80.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-238	16: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	56.9	20	49.1	1218: J-365	20	40.1	1042: J-327	TRUE
J-239	16: Zone -	2	TRUE	1,500.00	2,000.00	2,452.38	2,952.38	20	59.3	20	48.9	1180: J-358	20	40.1	1042: J-327	TRUE
J-240	16: Zone -	2	TRUE	1,500.00	2,000.00	2,452.38	2,952.38	20	63.2	20	48.9	1180: J-358	20	40.1	1042: J-327	TRUE
J-241	15: Zone -	2	TRUE	1,500.00	2,000.00	2,448.42	2,948.42	20	37.1	20	45.4	811: J-271	20	40.1	1042: J-327	TRUE
J-242	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	57.5	20	49.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-243	16: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	69.6	20	49.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-244	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	53.6	20	49.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-245	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	63.4	20	49.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-246	15: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	47.5	20	45.4	811: J-271	20	40.1	1042: J-327	TRUE
J-247	16: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	50.4	20	49.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-248	16: Zone -	2	TRUE	1,500.00	2,000.00	2,137.56	2,637.56	20	49.7	20	48.6	1180: J-358	20	40.1	1042: J-327	TRUE
J-249	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	80.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-250	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	69	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-251	18: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	57.3	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-252	18: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	70.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-253	18: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	59.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-254	18: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	49.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-255	18: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	41.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-256	18: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	50	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-257	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	59.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-258	18: Zone -	2	TRUE	1,500.00	2,000.00	2,444.46	2,944.46	20	71.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-259	17: Zone -	2	TRUE	1,500.00	2,000.00	2,155.38	2,655.38	20	45.7	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-260	18: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	57.5	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-261	18: Zone -	2	TRUE	1,500.00	2,000.00	2,444.46	2,944.46	20	56.3	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-262	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	55.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-265	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	56.1	20	46	777: J-259	20	40.1	1042: J-327	TRUE
J-266	17: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	61.4	20	46.1	777: J-259	20	40.1	1042: J-327	TRUE

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
J-267	17: Zone -	2	TRUE	1,500.00	2,000.00	2,444.46	2,944.46	20	63	20	46.2	777: J-259	20	40.1	1042: J-327	TRUE
J-268	17: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	72	20	46.3	777: J-259	20	40.1	1042: J-327	TRUE
J-269	17: Zone -	2	TRUE	1,500.00	2,000.00	3,074.10	3,574.10	20	67.2	20	46.4	777: J-259	20	40.1	1042: J-327	TRUE
J-270	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	58	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-271	15: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	29.4	20	33.9	1233: J-368	20	33.9	1233: J-368	TRUE
J-272	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	53.3	20	49.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-274	16: Zone -	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	72	20	50.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-275	16: Zone -	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	56.9	20	50.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-276	16: Zone -	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	65.9	20	50.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-277	16: Zone -	2	TRUE	1,500.00	2,000.00	1,699.98	2,199.98	20	81.6	20	50.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-278	17: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	53.7	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-279	17: Zone -	2	TRUE	1,500.00	2,000.00	1,698.00	2,198.00	20	44.3	20	46	777: J-259	20	40.1	1042: J-327	TRUE
J-280	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	70.3	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-281	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	39.3	20	40	1042: J-327	20	40	1042: J-327	TRUE
J-282	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	76.9	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-283	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	44.7	20	46	285: J-171	20	40.1	1042: J-327	TRUE
J-284	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	78.5	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-285	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	41	20	46.9	285: J-171	20	40.1	1042: J-327	TRUE
J-286	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	40.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-287	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	73.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-288	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	76.3	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-289	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	71.8	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-290	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	72.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-291	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	61.2	20	47.2	285: J-171	20	40.1	1042: J-327	TRUE
J-292	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	55	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-293	17: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	49.1	20	47	285: J-171	20	40.1	1042: J-327	TRUE
J-294	17: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	55.8	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-295	17: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	51	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-296	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	82.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-297	18: Zone -	2	TRUE	1,500.00	2,000.00	1,814.82	2,314.82	20	82.3	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-298	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	84	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-299	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	57.1	20	49.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-300	16: Zone -	2	TRUE	1,500.00	2,000.00	2,014.80	2,514.80	20	71.9	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-301	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	55.2	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-302	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	57	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-303	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	58.6	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-304	16: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	56.7	20	49.6	1180: J-358	20	40.1	1042: J-327	TRUE
J-305	16: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	64.1	20	50	1180: J-358	20	40.1	1042: J-327	TRUE
J-306	17: Zone -	2	TRUE	1,500.00	2,000.00	1,913.82	2,413.82	20	68.5	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-307	17: Zone -	2	TRUE	1,500.00	2,000.00	1,979.16	2,479.16	20	70.6	20	46.7	285: J-171	20	40.1	1042: J-327	TRUE
J-308	17: Zone -	2	TRUE	1,500.00	2,000.00	1,979.16	2,479.16	20	66.6	20	46.7	285: J-171	20	40.1	1042: J-327	TRUE
J-309	17: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	59.3	20	46.9	285: J-171	20	40.1	1042: J-327	TRUE
J-310	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	57	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-311	17: Zone -	2	TRUE	1,500.00	2,000.00	1,979.16	2,479.16	20	52	20	46.5	285: J-171	20	40.1	1042: J-327	TRUE
J-312	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	55.3	20	49.7	1180: J-358	20	40.1	1042: J-327	TRUE
J-313	16: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	50.3	20	50.2	1180: J-358	20	40.1	1042: J-327	TRUE
J-314	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	72.8	20	46.8	285: J-171	20	40.1	1042: J-327	TRUE
J-315	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.9	20	47.1	285: J-171	20	40.1	1042: J-327	TRUE
J-316	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	72.3	20	46.8	285: J-171	20	40.1	1042: J-327	TRUE
J-317	17: Zone -	2	TRUE	1,500.00	2,000.00	2,391.00	2,891.00	20	45.1	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE

Label	Zone	Fire Flow Iterations	Satisfies Fire Flow Constraints?	Fire Flow (Needed) (gpm)	Fire Flow (Available) (gpm)	Flow (Total Needed) (gpm)	Flow (Total Available) (gpm)	Pressure (Residual Lower Limit) (psi)	Pressure (Calculated Residual Lower Limit) (psi)	Pressure (Zone Lower Limit) (psi)	Calculated Minimum Zone Pressure (psi)	Junction w/Minimum Pressure (Zone)	Pressure (System Lower Limit) (psi)	Pressure (Calculated System Lower Limit) (psi)	Junction w/Minimum Pressure (System)	Is Fire Flow Run Balanced?
J-318	17: Zone -	2	TRUE	1,500.00	2,000.00	2,759.28	3,259.28	20	47.8	20	46.3	978: J-317	20	40.1	1042: J-327	TRUE
J-322	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	40.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-323	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	40.1	20	40.1	835: J-281	20	40.1	835: J-281	TRUE
J-324	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	40.4	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-325	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	45.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-327	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	39.9	20	40.4	835: J-281	20	40.4	835: J-281	TRUE
J-328	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	65.8	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-329	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	65.8	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-330	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	64.9	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-333	17: Zone -	2	TRUE	1,500.00	2,000.00	1,840.56	2,340.56	20	65.2	20	47	777: J-259	20	40.1	1042: J-327	TRUE
J-334	17: Zone -	2	TRUE	1,500.00	2,000.00	1,840.56	2,340.56	20	49.4	20	45.9	777: J-259	20	40.1	1042: J-327	TRUE
J-335	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.9	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-336	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	82.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-337	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	75.7	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-338	115: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	70.2	20	44.6	157: J-V19-I	20	40.1	1042: J-327	TRUE
J-341	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	44.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-342	18: Zone -	2	TRUE	1,500.00	2,000.00	2,129.64	2,629.64	20	42.7	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-346	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	47.8	20	45.7	978: J-317	20	40.1	1042: J-327	TRUE
J-347	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	75.1	20	45.7	978: J-317	20	40.1	1042: J-327	TRUE
J-348	18: Zone -	2	TRUE	1,500.00	2,000.00	1,896.00	2,396.00	20	78.2	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-349	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-350	18: Zone -	2	TRUE	1,500.00	2,000.00	2,094.00	2,594.00	20	80.6	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-352	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	57.2	20	46.5	777: J-259	20	40.1	1042: J-327	TRUE
J-353	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	56.9	20	46.6	777: J-259	20	40.1	1042: J-327	TRUE
J-354	17: Zone -	2	TRUE	1,500.00	2,000.00	1,931.64	2,431.64	20	55.3	20	46	830: J-279	20	40.1	1042: J-327	TRUE
J-355	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	50.6	20	46	777: J-259	20	40.1	1042: J-327	TRUE
J-356	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	64.3	20	46.2	777: J-259	20	40.1	1042: J-327	TRUE
J-357	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	82.4	20	47.3	285: J-171	20	40.1	1042: J-327	TRUE
J-358	16: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	44.4	20	49.5	1208: J-363	20	40.1	1042: J-327	TRUE
J-359	16: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	58.5	20	49.6	1180: J-358	20	40.1	1042: J-327	TRUE
J-360	16: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	65.5	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-361	16: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	50.5	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-362	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	76	20	46.8	285: J-171	20	40.1	1042: J-327	TRUE
J-363	16: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	47.9	20	48.6	1180: J-358	20	40.1	1042: J-327	TRUE
J-364	16: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	55.4	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-365	16: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	45.3	20	49.6	1180: J-358	20	40.1	1042: J-327	TRUE
J-368	15: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	33.9	20	32.8	811: J-271	20	32.8	811: J-271	TRUE
J-370	16: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	59.2	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-371	16: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	60.1	20	50.1	1180: J-358	20	40.1	1042: J-327	TRUE
J-372	18: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	79.1	20	40.1	1042: J-327	20	40.1	1042: J-327	TRUE
J-374	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	63.5	20	46.7	285: J-171	20	40.1	1042: J-327	TRUE
J-376	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	57.5	20	46.6	285: J-171	20	40.1	1042: J-327	TRUE
J-377	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	54.8	20	46.6	285: J-171	20	40.1	1042: J-327	TRUE
J-378	17: Zone -	2	TRUE	1,500.00	2,000.00	1,500.00	2,000.00	20	46	20	45.9	869: J-283	20	40.1	1042: J-327	TRUE

APPENDIX B

Typical Water Distribution Center Layout

GLOBAL WATER - SANTA CRUZ WATER COMPANY, LLC
LEGENDS WATER DISTRIBUTION CENTER
SITE PLAN

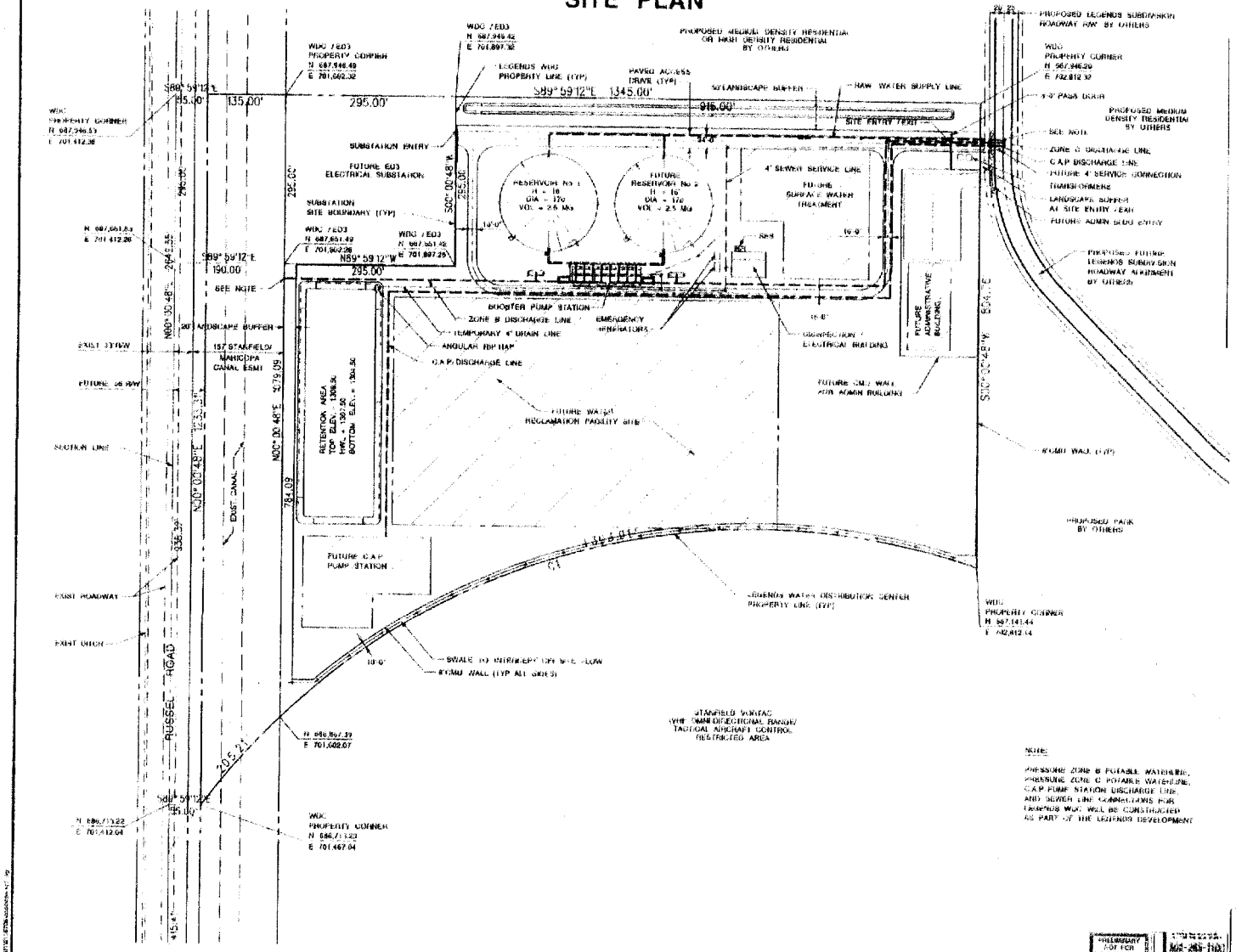

EXHIBIT 5

BEFORE THE ARIZONA CORPORATION COMMISSION

RECEIVED

2007 JAN 31 P 12: 02

AZ CORP COMMISSION
DOCUMENT CONTROL

EXHIBIT
A-5
admitted

COMMISSIONERS
JEFF HATCH–MILLER – Chairman
WILLIAM A. MUNDELL
MIKE GLEASON
KRISTIN K. MAYES
GARY PIERCE

IN THE MATTER OF THE APPLICATION OF WATER UTILITY OF GREATER TONOPAH, INC., AN ARIZONA CORPORATION, FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY.	DOCKET NO. W-02450A-06-0253 **NOTICE OF FILING**

Water Utility of Greater Tonopah, Inc. ("WUGT") provides notice of filing of its Analysis of Assured Water Supply.

RESPECTFULLY SUBMITTED this 31st day of September 2006.

ROSHKA DEWULF & PATTEN, PLC

By Timothy J. Sabo

Michael W. Patten
Timothy J. Sabo
One Arizona Center
400 East Van Buren Street, Suite 800
Phoenix, Arizona 85004

Original and 13 copies of the foregoing filed this 31st day of January 2007 with:

Docket Control
Arizona Corporation Commission
1200 West Washington Street
Phoenix, Arizona 85007

Copy of the foregoing hand-delivered/mailed
this 31st day of January 2007 to:

Lyn Farmer, Esq.
Chief Administrative Law Judge
Hearing Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Christopher C. Kempley
Chief Counsel, Legal Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Ernest G. Johnson, Esq.
Director, Utilities Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

By Mary Ippolito

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ONE ARIZONA CENTER
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TELEPHONE NO 602-256-6100
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8,850

ARIZONA DEPARTMENT OF WATER RESOURCES
Office of Assured and Adequate Water Supply
500 North Third Street, Phoenix, Arizona 85004
Telephone (602) 417-2465
Fax (602) 417-2467

JANET NAPOLITANO
Governor

HERB GUENTHER
Director

ANALYSIS OF ASSURED WATER SUPPLY

March 1, 2005

File Number:	28-401555.0000
Development:	Balterra
Location:	Township 2 North, Range 7 West, Sections 23 & 24, and Township 2 North, Range 6 West, Sections 19 Maricopa County, Arizona Phoenix AMA
Land Owner:	Roman Freeway LP, Harris Freeway LP, Nelson I Freeway LP, Kitzsteiner Freeway LP, L & L Freeway LP, L & B Freeway LP, Counts-Ashmann Freeway LP, Davis-Condon Freeway LP, Balterra, LLC, WT Freeway LP, Skinner Freeway LP, Chessen Freeway LP, SP Freeway LP, AC Freeway LP, W-O-K Freeway LP, Nelson II Freeway LP, Stratemeier PM Freeway LP

The Arizona Department of Water Resources has evaluated the Analysis of Assured Water Supply application for Balterra pursuant to A.A.C. R12-15-712. The proposed development includes 4,314 single-family residential lots, 881 multifamily residential lots and 334 non-residential acres containing commercial and open space areas, schools, parks and rights-of-way. The water provider will be Water Utility of Greater Tonopah. Conclusions of the review are indicated below based on the assured water supply criteria referenced in A.R.S. § 45-576 and A.A.C. R12-15-701 *et seq.*

- **Physical, Continuous, and Legal Availability of Water for 100 Years**
  On the basis of the hydrologic study submitted and the Department's review, the Department has determined that 3,057 acre-feet per year of groundwater will be physically and continuously available, which equals the applicant's projected demands for the development of 3,057 acre-feet per year. The legal availability of the water is not proven at this time. The development is not located within the current service area of the Water Utility of Greater Tonopah. A portion of the development falls within the Certificate of Convenience and Necessity boundary of the Water Utility of Greater Tonopah. Applications for Certificates of Assured Water Supply that follow the Analysis of Assured Water Supply will need to provide a detailed plan of how water service will be established. This may include use of Type 1 or Type 2 water rights or recovery of long term storage credits to create a new or satellite service area, or extension of existing service area lines to include the proposed development. Individual Notices of Intent to Serve will be required for each application for a Certificate of Assured Water Supply.

- **Adequate Water Quality**
  Adequate water quality has not been demonstrated at this time. The proposed development lies outside the provider's current service area, therefore, no drinking water compliance data are available. No water quality data was submitted with the application.

To provide service in this area, a provider will likely have to construct new wells. The Arizona Department of Environmental Quality will require water quality analyses for new source approval for each well. This requirement of an Analysis of Assured Water Supply will be reevaluated for each application for a Certificate of Assured Water Supply.

- **Consistency with Management Plan for the Phoenix Active Management Area**
  The projected demand for the development is consistent with the Third Management Plan for the Phoenix AMA. Balterra will use low water use landscaping and plumbing fixtures will comply with the statewide Low Flow Plumbing Code.

- **Consistency with Management Goal of the Phoenix Active Management Area**
  The Assured and Adequate Water Supply Rules (A.A.C. § R12-15-705) allocate a volume of groundwater to each new subdivision in an AMA to allow for the phasing in of renewable supplies. This groundwater allowance may be increased by extinguishing irrigation grandfathered groundwater rights (IGFR). Any groundwater delivery in excess of the groundwater allowance must be met through the direct or indirect use of renewable water supplies (surface water or effluent). Options for demonstrating "consistency with management goal" include: 1) direct use of surface water or effluent; 2) recharge and recovery of surface water or effluent; or 3) membership in the Central Arizona Groundwater Replenishment District (CAGRD).

  The application indicates that the proposed development will enroll the lands of the entire development, including the commercial and open space areas, schools, parks and other non-residential areas, in the CAGRD to meet this requirement. The membership documents must be executed and recorded before a Certificate of Assured Water Supply will be issued.

  Prior to preparing an application for a Certificate of Assured Water Supply for an individual subdivision plat, the Phoenix AMA Office or the Office of Assured Water Supply may be contacted for further guidance.

- **Financial Capability of the Owner to Construct the Necessary Distribution System**
  Pursuant to A.A.C. R12-15-707, financial capability will be evaluated by the local platting authority as a part of the process for obtaining a Certificate of Assured Water Supply for each subdivision. The application for a Certificate of Assured Water Supply includes a Verification of Construction Assurance for a Proposed Subdivision form. This form should be signed by the appropriate platting entity to provide evidence of financial capability. This requirement of an assured water supply will be evaluated upon application for a Certificate of Assured Water Supply.

The term of this Analysis of Assured Water Supply is ten years from the date of this letter and may be renewed upon request, subject to approval by the Department. Throughout the term of this determination, the projected demand of this development will be considered when reviewing other requests for assured water supply in the area.

Prior to obtaining plat approval by the local platting authority and approval of the public report by the Department of Real Estate, a Certificate of Assured Water Supply must be obtained for each subdivision plat. The findings of this Analysis of Assured Water Supply may be used to demonstrate that certain requirements for a Certificate have been met. This determination may be invalidated if the development plan or other conditions change prior to filing for a Certificate of Assured Water Supply.

Questions may be directed to the Office of Assured Water Supply at (602) 417-2465.

Mark Frank

Mark Frank, Acting Assistant Director
Water Management Division

cc: Phoenix Active Management Area

ARIZONA CORPORATION COMMISSION

APPLICATION FOR AN EXTENSION OF CERTIFICATE OF CONVENIENCE AND NECESSITY

WATER AND/OR SEWER

General Information:

The attached forms have been prepared by the Utilities Division of the Arizona Corporation Commission to assist Applicants filing for an extension to the area covered by an existing Certificate of Convenience and Necessity. The information required in this application corresponds to the provisions of Arizona Revised Statutes Section 40-101 et. seq., and the Arizona Administrative Code R14-2-402.C/R14-2-602.B.

Use of the attached form is suggested, unless, a formal pleading format is used by an attorney. The information requested in this application must be included within the pleading.

Attachment "A" is a sample of a transmittal letter addressed to the Utilities Division Docket Control Center. Please add information to the letter indicating the purpose and reasons for the application. This format should be used unless you are using a Company letterhead. Place this letter at the beginning of the application. Keep this instruction sheet for your information. Do not attach it to the application.

Instructions:

1. Complete the forms accurately and attach all required documents. This will expedite the processing of the application.

2. Complete all the items that apply to your utility. If an item requested does not apply, mark it "Not applicable" or "N/A". If you do not complete an item, processing of your application could be delayed.

3. If the space provided is insufficient, put the information on a separate sheet of paper and label it clearly.

4. If an item is to be filed at a later date, mark the item "to be late filed by" and give the date by which it will be filed.

5. Have the application notarized.

6. Submit an original and ten copies of this application.

7. NOTICING: Notice of the application should be provided to all property owners in the proposed extension area, as well as to all customers and property owners in the existing certificated area. If there are fewer than 100 property owners in the extension area and/or customers in the existing area, notice should be mailed to them within 15 days after the application is filed. If there are more than 100 property owners in the extension area and/or customers in the existing area, notice should be given by mail or by publication at least once in a newspaper of general circulation in the service area within 15 days after the application is filed. Proof of notice should be filed with the Commission within 10 days after the notice was mailed or published. Hearings will always be held pursuant to law. The Hearing Officer will specify any additional notice in a Procedural Order. Attached as Attachment "C" is a form of notice to be provided in accordance with the above instruction.

8. If you plan to finance plant through debt (long term loans) or equity (stock issuance) a separate financing application must be made with separate notice to the public. A requirement sheet for filing a financing application will be provided to you at your request.

Filing:

When you have completed the application, mail or deliver it to:

Docket Control Center
Arizona Corporation Commission
1200 W. Washington Street
Phoenix, Arizona 85007

ARIZONA CORPORATION COMMISSION

APPLICATION FOR AN EXTENSION OF CERTIFICATE OF CONVENIENCE AND NECESSITY

WATER AND/OR SEWER

A. The name, address and telephone number of the Applicant is:

_____

_____

_____

B. The name, address and telephone number of management contact is:

_____

_____

_____

C. List the name, address and telephone number of the operator certified by the Arizona Department of Environmental Quality:

_____

_____

_____

D. List the name, address and telephone number of the attorney for the Applicant:

_____

_____

_____

E. Attach the following documents that apply to you:

1. Certificate of Good Standing (if corporation)

2. Corporate Resolution Authorizing this application (if required by the corporation's Articles of Incorporation)

F. Attach a legal description of the area requested by either **CADASTRAL** (quarter section description) or **Metes and Bounds** survey. References to parcels and dockets will not be accepted.

G. Attach a detailed map using the form provided as attachment B. Shade and outline the area requested. Also indicate the present certificated area by using different colors.

H. Attach a current balance sheet and profit and loss statement.

I. Provide the following information:

1. Indicate the estimated number of customers, by class, to be served in the new area in each of the next five years:

Residential:

First Year_____ Second Year_____ Third Year_____ Fourth Year_____

Fifth Year_____

Commercial:

First Year_____ Second Year_____ Third Year_____ Fourth Year_____

Fifth Year_____

Industrial:

First Year_____ Second Year_____ Third Year_____ Fourth Year_____

Fifth Year_____

Irrigation:

First Year_____ Second Year_____ Third Year_____ Fourth Year_____

Fifth Year_____

Other: (specify)

_____

First Year_____ Second Year_____ Third Year_____ Fourth Year_____

Fifth Year_____

2. (WATER ONLY) Indicate the projected annual water consumption, in gallons, for each of the customer classes in the new area for each of the next five years:

Residential:

First Year_____ Second Year_____ Third Year_____

Fourth Year_____ Fifth Year_____

Commercial:

First Year_____ Second Year_____ Third Year_____

Fourth Year_____ Fifth Year_____

Industrial:

First Year_____ Second Year_____ Third Year_____

Fourth Year_____ Fifth Year_____

Irrigation:

First Year_____ Second Year_____ Third Year_____

Fourth Year_____ Fifth Year_____

3. Indicate the total estimated annual operating revenue from the new area for each of the next five years:

First Year_____ Second Year_____ Third Year_____

Fourth Year_____ Fifth Year_____

- **Complete Attachment "D" (Water Use Data Sheet) for the past 13 months**

4. Indicate the total estimated annual operating expenses attributable to the new area for each of the next five years:

First Year_____ Second Year_____ Third Year_____

Fourth Year_____ Fifth Year_____

J. Total estimated cost to construct utility facilities to serve customers in the requested area:

_____

K. Explain method of financing utility facilities (see paragraph 8 of instructions)

_____

_____

L. Estimated starting and completion date of construction of utility facilities:

Starting date_____Completion date_____

M. Attach the following permits:

1. Franchise from either the City or County for the area requested.

2. Arizona Department of Environmental Quality or designee's approval to construct facilities.

3. Arizona State Land Department approval. (If you are including any State land in your requested area this approval is needed.)

4. U.S. Forest Service approval. (If you are including any U.S. Forest Service land in your requested area this approval is needed.)

5. (WATER ONLY) If the area requested is within an Active Management Area, attach a copy of, either the utility's Designation of an Assured Water Supply, or the developer's Certificate of 100 Year Assured Water Supply issued by the Arizona Department of Water Resources.

- If the area requested is outside an Active Management Area, attach the developer's Adequacy Statement issued by the Arizona Department of Water Resources if applied for by the developer.

- If the area requested is outside an Active Management Area and the developer does not obtain an Adequacy Statement, provide sufficient detailed information to prove that adequate water exists to provide water to the area requested.

_____
(Signature of Authorized Representative)

_____
(Print or Type Name Here)

_____
(Title)

SUBSCRIBED AND SWORN to before me this _____day of _____, 20__

_____
NOTARY PUBLIC

My Commission Expires_____

ATTACHMENT "A"

(Company Name)
(Mailing Address)
(City or Town and Zip Code)

EXAMPLE ONLY

(Date)

Docket Control
Arizona Corporation Commission
1200 W. Washington St.
Phoenix, Arizona

Attached is an application by (Name of Company) for (indicate the type of application this is for). The purpose of this application is to (Explain the purpose for and reasons behind the application).

_____
(Type Name Here and Sign)

ATTACHMENT "C"

PUBLIC NOTICE OF AN APPLICATION FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY BY [name of Company]

[Name of Company] has filed with the Arizona Corporation Commission ("Commission") an application for authority for an extension of its Certificate of Convenience and Necessity to provide [specific type of service] service. Our records indicate that you are either currently a customer of [Name of Company] or are a property owner in the proposed extension area. If the application is granted, [name of Company] would be the exclusive provider of [type of service] service to the proposed area. [Name of Company] will be required by the Commission to provide this service under the rates and charges and terms and conditions established by the Commission. The granting of the application would not necessarily prohibit an individual from providing service to themselves from individually owned facilities on their property. The application is available for inspection during regular business hours at the offices of the Commission in [Phoenix at 1200 West Washington Street/Tucson at 400 West Congress, North Building, Room 218], and at [name of Company and address].

The Commission will hold a hearing on this matter. As a property owner, or customer, you may be entitled to intervene in the proceeding. If you do not want to intervene, you may appear at the hearing and make a statement on your own behalf. You may contact the Commission at the address and telephone number listed below for the date and time of the hearing and for more information on intervention. You may not receive any further notice of the proceeding unless requested by you.

If you have any questions or concerns about this application or have any objections to its approval, or wish to make a statement in support of it, you may contact the Consumer Services Section of the Commission at [1200 West Washington Street, Phoenix, Arizona 85007 or call 1-800-222-7000/400 West Congress, North Building, Room 218, Tucson, Arizona 85701 or call 1-800-535-0148].

ATTACHMENT "D"

WATER USE DATA SHEET

NAME OF COMPANY →	
ADEQ Public Water System No. →	

MONTH/YEAR (Last 13 Months	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)

Other Water Sources in Gallons per Minute →	GPM
Fire Hydrants on System →	Yes No
Total Water Pumped Last 13 Months (Gallons in Thousands) →	

ATTACHMENT "B"

COUNTY	SECTION	TOWNSHIP	RANGE

	6				5				4				3				2				1		
	7				8				9				1	0			1	1			1	2	
	1	8			1	7			1	6			1	5			1	4			1	3	
	1	9			2	0			2	1			2	2			2	3			2	4	
	3	0			2	9			2	8			2	7			2	6			2	5	
	3	1			3	2			3	3			3	4			3	5			3	6	

Type or Print Description Here:

_____

_____

_____

EXHIBIT 6

FILE COPY

BEFORE THE ARIZONA CORPORATION COMMISSION

RECEIVED

2007 JUN 12 P 4: 14

AZ CORP COMMISSION
DOCKET CONTROL

EXHIBIT
A-6
admitted

COMMISSIONERS
MIKE GLEASON – Chairman
WILLIAM A. MUNDELL
JEFF HATCH–MILLER
KRISTIN K. MAYES
GARY PIERCE

IN THE MATTER OF THE APPLICATION OF WATER UTILITY OF GREATER TONOPAH, INC., AN ARIZONA CORPORATION, FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY.	DOCKET NO. W-02450A-06-0253 **NOTICE OF FILING**

The Water Utility of Greater Tonopah ("Tonopah") files the attached storage calculations which have previously been provided to Staff. The calculations demonstrate that 7 out of 8 Tonopah systems meet Arizona Department of Environmental Quality ("ADEQ") storage requirements, as set out in A.A.C. R18-5-503. The remaining system (Dixie) has well capacity almost 4 times higher then peak month demand. In addition, Tonopah plans to add a 4,000 gallon storage tank to the Dixie system as soon as possible (3-6 months).

In addition, attached is a copy of Tonopah's current deprecation rates, and a breakdown of the projected booster pump costs. This additional information has previously been provided to Staff in response to a question from Staff's Engineering Section.

RESPECTFULLY SUBMITTED this 12th day of June 2007.

ROSHKA DEWULF & PATTEN, PLC

By _____

Michael W. Patten
Timothy J. Sabo
One Arizona Center
400 East Van Buren Street, Suite 800
Phoenix, Arizona 85004

Original and 13 copies of the foregoing filed this 12th day of June 2007 with:

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Copy of the foregoing hand-delivered/mailed this 12th day of June 2007 to:

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Chief Counsel, Legal Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Ernest G. Johnson, Esq.
Director, Utilities Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

By _____

ROSHKA DEWULF & PATTEN, PLC
ONE ARIZONA CENTER
400 EAST VAN BUREN STREET - SUITE 800
PHOENIX, ARIZONA 85004
TELEPHONE NO 602-256-6100
FACSIMILE 602-256-6800

Water Utility of Greater Buckeye/Water Utility of Greater Tonopah
Storage and Well Capacity Evaluation

A.A.C. R18-5-503 Storage Requirements
Minimum Storage Capacity = Average Daily Demand during Peak Month

Assumed 20 hour/day maximum pump run time

								Storage Capacity			Well Pump Capacity			
Water System	Actual Average Day Use 2006 (gpd)	# Customers (Average 2006)	Average Day Use per Customer (gpd)	Actual Peak Mth Use 2006 (gpd)	# Customers (Peak Month 2006)	Average Day Peak Mth Use per Customer (gpd)	# Customers (March 2007)	Average Day Use 2007 (gpd)	Average Day Peak Mth Use 2007 (gpd)	Available Storage (gal)	Average Day Demand (gpm)	Peak Month Demand (gpm)	Available Pump Capacity (gpm)	Max # Customers @ Peak Mth Demand
Water Utility of Greater Tonopah														
Sunshine	32,989	120	276	53,700	136	395	143	39,476	56,464	100,000	33	47	50	152
Buckeye Ranch	25,910	89	291	67,833	92	737	99	28,821	72,995	150,000	24	61	125	203
Rose View	4,501	16	286	7,935	16	496	17	4,859	8,431	10,000	4	7	30	73
Dixie	6,208	26	235	8,167	26	314	42	9,870	13,192	10,000	8	11	40	153
West Phx 1	345	2	143	1,233	2	617	4	571	2,467	5,000	0	2	20	39
West Phx 7	1,227	6	202	1,933	6	322	6	1,211	1,933	5,000	1	2	20	74
West Phx 4,5,6	4,611	23	199	6,161	23	268	23	4,578	6,161	7,500	4	5	20	90
Garden City	4,123	17	247	6,833	16	427	20	4,948	8,542	45,000	4	7	30	84

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	Garden City/Big Horn System PWS #07-037

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
12/05	15	101
01/06	15	91
02/06	15	85
03/06	16	117
04/06	16	107
05/06	16	144
06/06	16	205
07/06	16	144
08/06	16	124
09/06	18	147
10/06	18	107
11/06	19	150
12/06	19	84
Total		**1,606**

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
20,000	1	55-804131	30
25,000	1		

Other Water Sources in Gallons per Minute →	**GPM** -
Fire Hydrants on System →	**Yes** X **No**
***Total Water Pumped Last 13 Months (Gallons in Thousands)** →	#REF!

* Well casing damaged in 2005. New well in production. High water usage due to flushing of lines and tank.

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	WPE #1 System PWS # N/A

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
12/05	2	5
01/06	2	4
02/06	2	4
03/06	2	5
04/06	2	5
05/06	2	6
06/06	2	37
07/06	2	6
08/06	2	5
09/06	3	13
10/06	3	20
11/06	3	11
12/06	4	10
Total		**131**

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
5,000	1	55-600209	20

Other Water Sources in Gallons per Minute →	**GPM** -
Fire Hydrants on System →	**Yes** **No X**
Total Water Pumped Last 13 Months (Gallons in Thousands) →	#REF!

* High water usage due to the construction of a new well in 2005.

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah.
ADEQ Public Water System No. →	WPE #6 System PWS #07-733

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	G
12/05	23	
01/06	23	
02/06	23	
03/06	23	
04/06	23	
05/06	23	
06/06	23	
07/06	23	
08/06	23	
09/06	24	
10/06	24	
11/06	23	
12/06	23	
Total		

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER
7,500	1	55-802145

Other Water Sources in Gallons per Minute →	
Fire Hydrants on System →	
Total Water Pumped Last 13 Months (Gallons in Thousands) →	

, Inc.

GALLONS SOLD (Thousands)
86
94
97
105
137
185
191
191
175
187
127
110
84
1,769

WELL PRODUCTION (Gallons per Minute)
20

▸ **GPM**	-
Yes	**No X**
▸	#REF!

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	Tufte WPE #7 System PWS #07-617

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
12/05	6	28
01/06	6	30
02/06	6	26
03/06	6	33
04/06	6	37
05/06	6	37
06/06	6	58
07/06	6	50
08/06	6	36
09/06	7	46
10/06	6	29
11/06	6	34
12/06	6	32
Total		**476**

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
5,000	1	55-802144	20

Other Water Sources in Gallons per Minute →	**GPM** -
Fire Hydrants on System →	**Yes** **No X**
Total Water Pumped Last 13 Months (Gallons in Thousands) →	#REF!

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	Dixie System PWS #07-030

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
12/05	23	129
01/06	23	143
02/06	23	135
03/06	23	140
04/06	24	154
05/06	24	209
06/06	26	245
07/06	26	227
08/06	27	211
09/06	28	225
10/06	28	156
11/06	32	168
12/06	33	253
Total		**2,395**

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
10,000	1	55-639586	40

Other Water Sources in Gallons per Minute →	**GPM** -
Fire Hydrants on System →	**Yes** **No X**
Total Water Pumped Last 13 Months (Gallons in Thousands) →	#REF!

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	Rose View System PWS #07-082

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
12/05	14	118
01/06	15	139
02/06	15	169
03/06	15	97
04/06	15	120
05/06	15	118
06/06	15	191
07/06	16	246
08/06	16	139
09/06	16	114
10/06	17	107
11/06	17	130
12/06	17	73
Total		**1,761**

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
10,000	1	55-802143	30

Other Water Sources in Gallons per Minute →	**GPM** -
Fire Hydrants on System →	**Yes** **No X**
Total Water Pumped Last 13 Months (Gallons in Thousands) →	#REF!

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	B&D/Buckeye Ranch System PWS #07-618

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)
12/05	75	336
01/06	76	339
02/06	77	343
03/06	85	394
04/06	85	432
05/06	91	1,117
06/06	92	2,035
07/06	92	1,014
08/06	94	786
09/06	94	865
10/06	94	725
11/06	95	651
12/06	93	756
Total		**9,793**

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
150,000	1	55-802962	125
5,000	1	55-803811	20

Other Water Sources in Gallons per Minute →	**GPM** -
Fire Hydrants on System →	**Yes** X **No**
Total Water Pumped Last 13 Months (Gallons in Thousands) →	#REF!

WATER USE DATA SHEET

NAME OF COMPANY →	Water Utility of Greater Tonopah, Inc.
ADEQ Public Water System No. →	Sunshine System PWS #07-071

MONTH/YEAR (Last 13 Months)	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)	
12/05	92	698	
01/06	91	463	
02/06	104	744	
03/06	107	625	
04/06	110	914	
05/06	116	1,250	
06/06	117	1,170	
07/06	116	1,352	
08/06	121	818	
09/06	136	1,611	
10/06	140	1,286	1061583
11/06	139	1,023	127.1667
12/06	137	785	8347.969
Total		**12,739**	278.2656

STORAGE TANK CAPACITY (Gallons)	NUMBER OF EACH	ARIZONA DEPT. OF WATER RESOURCES WELL I.D. NUMBER	WELL PRODUCTION (Gallons per Minute)
100,000	1	55-802141	130

Other Water Sources in Gallons per Minute →	GPM -
Fire Hydrants on System →	Yes X No
Total Water Pumped Last 13 Months (Gallons in Thousands) →	#REF!

CC&N Extension for Balterra - Breakdown of Booster Pump Station

Description	Build out Entire System	Five Year Entire System	Build out CC&N Expansion Only	Five Year Expansion Only
Pumps and Control	$1,555,500	$865,500	$678,764	$377,673
Structure Improvement	$777,750	$432,750	$339,382	$188,836
On-site Power Generation	$259,250	$144,250	$113,127	$62,945
Totals	$2,592,500	$1,442,500	$1,131,273	$629,455

COMPANY NAME: Water Utility of Greater Tonopah

CALCULATION OF DEPRECIATION EXPENSE FOR CURRENT YEAR

Acct. No.	DESCRIPTION	Original Cost (1)	Depreciation Percentage (2)	Depreciation Expense (1x2)
301	Organization	5,448	0	0
302	Franchises	1,330	0	0
303	Land and Land Rights	66,651	0	0
304	Structures and Improvements	37,094	5.00%	1,519
305	Collection/Impounding Reservoirs	0		
307	Wells and Springs	151,693	5.00%	7,509
309	Supply Mains	0		
310	Power Generation Equipment	0		
311	Pumping Equipment	242,946	5.00%	11,616
320	Water Treatment Equipment	86,393	5.00%	3,661
330	Distribution Reservoirs and Standpipes	175,360	5.00%	8,744
331	Transmission and Distribution Mains	487,555	5.00%	24,159
333	Services	38,187	5.00%	1,885
334	Meters and Meter Installations	47,062	5.00%	2,103
335	Hydrants	38,210	5.00%	1,903
336	Backflow Prevention Devices	5,432	5.00%	136
339	Other Plant and Misc. Equipment	154	5.00%	4
340	Office Furniture and Equipment	0		
341	Transportation Equipment	0		
342	Stores Equipment	0		
343	Tools, Shop and Garage Equipment	706	5.00%	18
344	Laboratory Equipment	0		
345	Power Operated Equipment	840	5.00%	21
346	Communication Equipment	0		
347	Miscellaneous Equipment	5,087	5.00%	127
348	Other Tangible Plant	0		
	Plus Depreciation on Non-Utility Assets			
	Less: CIAC amortization			(2,194)
	TOTALS	1,390,148		61,211

This amount goes on the Comparative Statement of Income and Expense Acct. No. 403.

EXHIBIT 7

FILE COPY

BEFORE THE ARIZONA CORPORATION COMMISSION

RECEIVED

2007 MAY 18 P 4: 03

AZ CORP COMMISSION
DOCKET CONTROL

EXHIBIT
A-7
admitted

COMMISSIONERS
Mike Gleason, Chairman
William A. Mundell
Jeff Hatch-Miller
Kristin K. Mayes
Gary Pierce

IN THE MATTER OF THE APPLICATION OF WATER UTILITY OF GREATER TONOPAH, INC., AN ARIZONA CORPORATION, FOR AN EXTENSION OF ITS EXISTING CERTIFICATE OF CONVENIENCE AND NECESSITY.

Docket No. W-02450A-06-0253

NOTICE OF FILING

The Water Utility of Greater Tonopah ("Tonopah") provides notice of filing of the attached compliance status reports from the Maricopa County Environmental Services Department (MCESD). The reports are for the following systems:

System	PWS No.	Status
Garden City	07-037	Compliant
Dixie	07-030	Compliant
Sunshine	07-071	Compliant
Roseview	07-082	Compliant
B&D	07-618	Complaint
WPE # 6	07-733	Complaint

Tonopah has a seventh system, WPE # 7 that is not a community system and is therefore not regulated by MCESD. Therefore, no report can be provided for that system. Thus, all six systems regulated by MCESD are considered "compliant" by MCESD.

...

...

...

...

RESPECTFULLY SUBMITTED this 18th day of May 2007.

ROSHKA DEWULF & PATTEN, PLC

By _____
Timothy J. Sabo
One Arizona Center
400 East Van Buren Street, Suite 800
Phoenix, Arizona 85004

Original + 13 copies of the foregoing filed this 18th day of May 2007, with:

Docket Control
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Copies of the foregoing hand-delivered/mailed this 18th day of May 2007, to:

Lyn A. Farmer, Esq.
Chief Administrative Law Judge
Hearing Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Christopher C. Kempley, Esq.
Chief Counsel, Legal Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Ernest G. Johnson, Esq.
Director, Utilities Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

By _____

ROSHKA DEWULF & PATTEN, PLC
ONE ARIZONA CENTER
400 EAST VAN BUREN STREET - SUITE 800
PHOENIX, ARIZONA 85004
TELEPHONE NO 602-256-6100
FACSIMILE 602-256-6800

Maricopa County
Environmental Services Department

PUBLIC WATER SYSTEM COMPLIANCE STATUS REPORT

System Name: Water Utilities of Tonopah
PWS ID#: 07-037

Type of System: Community Number of POE's: 1 Surface Water: n/a
Number of Service Connections: 16 Population Served: 51

Assigned Monitoring Dates - Initial: 1/1/98 Phase II: 1/1/98 Phase V: 1/1/98

Does the water system have a Certified Operator? Yes

Does the system have major treatment plant deficiencies? No
Please describe: _____

Date of last inspection: November 15, 2007

Does the system have major O & M deficiencies? No
Please describe: _____

Does the system have water quality monitoring/reporting deficiencies? No
Please describe: _____

General Public Water System Compliance Status? **Compliant**

Date of compliance review: **4/11/2007** By: **Duncan Wright** Initials: **dw**
Phone: **(602) 506-5173**

Requested By: Global Fax Number/ Contact: _____ Tracking Number: 1298
Supervisor Initials: GY Date: 4/11/07

Drinking Water Program
John Kolman, Manager
1001 N. Central Ave., Suite 150Phoenix, Arizona 85004-1940 Phone: (602) 506-6666 Fax: (602) 506-6925

Maricopa County
Environmental Services Department

PUBLIC WATER SYSTEM COMPLIANCE STATUS REPORT

System Name: Water Utility of Greater Tonopah – Dixie Water
PWS ID#: 07-030

Type of System: Community Number of POE's: 1 Surface Water: no
Number of Service Connections: 26 Population Served: 81

Assigned Monitoring Dates - Initial: 1/1/99 Phase II: 1/1/99 Phase V: 1/1/99

Does the water system have a Certified Operator? yes

Does the system have major treatment plant deficiencies? no
Please describe: _____

Date of last inspection: 3/6/07

Does the system have major O & M deficiencies? no
Please describe: _____

Does the system have water quality monitoring/reporting deficiencies? no
Please describe: _____

General Public Water System Compliance Status? **Compliant**

Date of compliance review: **3/21/07** By: **Laura Moorhead** Initials: _____
Phone: **(602) 506-6631**

Requested By: ACC Fax Number/ Contact: _____ Tracking Number: 1280
Supervisor Initials: GY Date: 3/23/07

Drinking Water Program
John Kolman, Manager
1001 N. Central Ave., Suite 150Phoenix, Arizona 85004-1940 Phone: (602) 506-6666 Fax: (602) 506-6925

Maricopa County
Environmental Services Department

PUBLIC WATER SYSTEM COMPLIANCE STATUS REPORT

System Name: WUGT - Sunshine Water Company
PWS ID#: 07-071

Type of System: Community Number of EPDS's: 1 Surface Water: N/A
Number of Service Connections: 117 Population Served: 362

Assigned Monitoring Dates - Initial: 1/1/94 Phase II: 1/1/94 Phase V: 1/1/94

Does the water system have a Certified Operator? yes

Does the system have major treatment plant deficiencies? No
Please describe: _____

Date of last Sanitary Survey: November 15, 2005

Does the system have major O & M deficiencies? No
Please describe: _____

Does the system have water quality monitoring/reporting deficiencies? No
Please describe: System is reporting arsenic levels that may be higher than MCL after further submittal and quarterly averaging. System has submitted a blending plan to address high arsenic levels but has not fulfilled requirements for approval of the plan.

General Public Water System Compliance Status? **Compliant**

Date of compliance review: **March 28, 2006** By: **Rob Collins** Initials: _____
Phone: **(602) 506-0719**

Requested By:Dorothy Hains, ACC Fax Number/ Contact: :602 542 0766 Tracking Number:1284
Supervisor Initials:GY Date: 3/30/07

Drinking Water Program
John Kolman, Manager
1001 N. Central Ave., Suite 150Phoenix, Arizona 85004-1940 Phone: (602) 506-6666 Fax: (602) 506-6925

Maricopa County
Environmental Services Department

PUBLIC WATER SYSTEM COMPLIANCE STATUS REPORT

System Name: WUGT- Rose View Water
PWS ID#: 07- 082

Type of System: Community Number of POE's: 1 Surface Water: No
Number of Service Connections: 51 Population Served: 16

Assigned Monitoring Dates - Initial: 1/1/02 Phase II: 1/1/02 Phase V: 1/1/02

Does the water system have a Certified Operator? Robert Garcia: 623-386-4252 x-106

Does the system have major treatment plant deficiencies? N/A
Please describe: _____

Date of last inspection: November 15, 2005

Does the system have major O & M deficiencies? None
Please describe: All deficiencies from 11/15/05 inspection corrected per system letter in file dated: 12/21/05

Does the system have water quality monitoring/reporting deficiencies? Note:
Please describe: System has arsenic levels which will violate the new standard eff 12/31/07

General Public Water System Compliance Status? **Compliant**

Date of compliance review: **03/21/07** By: **Mike Mallette** Initials: **MKM**
Phone: **(602) 506-6644**

Requested By: Dorothy Haines
Fax Number/ Contact: 602-542-7274 Tracking Number: 1282
Supervisor Initials: GY Date: 3/23/07

Drinking Water Program
John Kolman, Manager
1001 N. Central Ave., Suite 150Phoenix, Arizona 85004-1940 Phone: (602) 506-6666 Fax: (602) 506-6925

Maricopa County
Environmental Services Department

PUBLIC WATER SYSTEM COMPLIANCE STATUS REPORT

System Name: B&D/Buckeye Ranch
PWS ID#: 07-618

Type of System: Community Number of POE's: 2 Surface Water: no

Number of Service Connections: 92 Population Served: 285

Assigned Monitoring Dates – Initial: 1998 Phase II: 1998 Phase V: 1998

Does the water system have a Certified Operator? D. Blain Harold

Does the system have major treatment plant deficiencies? no
Please describe:

Date of last inspection: 2/20/07

Does the system have major O & M deficiencies? minor
Please describe: Buckeye Ranch site booster 2 has leak that needs repair

Does the system have water quality monitoring/reporting deficiencies? no
Please describe:

General Public Water System Compliance Status? **Compliant**

Date of compliance review: 2/21/07 By: **Laura Moorhead** Initials: _____
Phone: **(602) 506-6631**

Requested By: post-insp Fax Number/ Contact: _____ Tracking Number: 1268
Supervisor Initials: GY Date: 2/22/07

Drinking Water Program
John Kolman, Manager
1001 N. Central Ave., Suite 150Phoenix, Arizona 85004-1940 Phone: (602) 506-6666 Fax: (602) 506-6925

Maricopa County
Environmental Services Department

PUBLIC WATER SYSTEM COMPLIANCE STATUS REPORT

System Name: West Phoenix Estates #6
PWS ID#: 07-733

Type of System: Community Number of POE's: 1 Surface Water: no
Number of Service Connections: 23 Population Served: 71

Assigned Monitoring Dates - Initial: 1/1/02 Phase II: 1/1/02 Phase V: 1/1/02

Does the water system have a Certified Operator? yes

Does the system have major treatment plant deficiencies? no
Please describe: _____

Date of last inspection: August 19, 2005

Does the system have major O & M deficiencies? no
Please describe: _____

Does the system have water quality monitoring/reporting deficiencies? no
Please describe: _____

General Public Water System Compliance Status? **Compliant**

Date of compliance review: **3/20/07** By: **Laura Moorhead** Initials: _____
Phone: **(602) 506-0462**

Requested By: ACC Fax Number/ Contact: _____ Tracking Number: 1281
Supervisor Initials: GY Date: 3/21/07

Drinking Water Program
John Kolman, Manager
1001 N. Central Ave., Suite 150Phoenix, Arizona 85004-1940 Phone: (602) 506-6666 Fax: (602) 506-6925

EXHIBIT 8

FILE COPY

BEFORE THE ARIZONA CORPORATION COMMISSION

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2007 JUL 13 P 4: 04

AZ CORP COMMISSION
DOCKET CONTROL

EXHIBIT
A-8
admitted

COMMISSIONERS
MIKE GLEASON – Chairman
WILLIAM A. MUNDELL
JEFF HATCH–MILLER
KRISTIN K. MAYES
GARY PIERCE

IN THE MATTER OF THE APPLICATION OF WATER UTILITY OF GREATER TONOPAH, INC., AN ARIZONA CORPORATION, FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY.	DOCKET NO. W-02450A-06-0253 **RESPONSE TO STAFF REPORT**

The Water Utility of Greater Tonopah ("Tonopah") agrees with much of the Staff Report dated June 29, 2007. However, Tonopah believes that minor modifications or clarifications should be made regarding two of Staff's proposed conditions.

Staff Condition 5. This condition requires that Tonopah obtain an Aquifer Protection Permit ("APP") for the proposed water treatment plant within 18 months of the final decision in this matter. Based on the currently anticipated schedule, it may be difficult to meet this timeframe. Tonopah requests that this condition be extended to 24 months. In addition, Tonopah requests that this condition be clarified. The APP is for a pond that will be built as part of the water treatment plant. The pond is covered by a Type 3 General Permit issued by the Arizona Department of Environmental Quality ("ADEQ") under "A.A.C. R18-9-D301. 3.01 General Permit: Lined Impoundments". This general permit will be the APP for the pond. Under the Type 3 General Permit, ADEQ will issue a discharge authorization letter. See A.A.C. R18-9-A301(A)(3)(c) and A.A.C. R18-9-A301(C)(2). Tonopah requests clarification that this ADEQ discharge authorization letter will satisfy this condition.

Staff Condition 8. This condition requires that Tonopah file a cross-connection / backflow prevention tariff within 45 days of the final decision in this matter. Tonopah agrees with this condition. However, the Staff Report also states that the tariff "should generally conform to the sample tariff found on the Commission's web site." Tonopah's affiliate, Water Utility of Greater Buckeye ("WUGB") has a backflow prevention program that has been approved by the Maricopa County Environmental Services Department ("MCESD"). A copy of this program is attached as Exhibit A. This MCESD-approved program is generally similar to Staff's sample tariff, but does not exactly match the sample tariff. Tonopah's intent is to prepare a proposed tariff based on the WUGB program. Tonopah requests a clarification indicating that a proposed tariff based on the MCESD-approved backflow prevention program would be acceptable.

RESPECTFULLY SUBMITTED this 13th day of July 2007.

ROSHKA DEWULF & PATTEN, PLC

By _____

Michael W. Patten
Timothy J. Sabo
One Arizona Center
400 East Van Buren Street, Suite 800
Phoenix, Arizona 85004

Original and 13 copies of the foregoing filed this 13th day of July 2007 with:

Docket Control
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1200 West Washington Street
Phoenix, Arizona 85007

ROSHKA DEWULF & PATTEN, PLC
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TELEPHONE NO 602-256-6100
FACSIMILE 602-256-6800

Copy of the foregoing hand-delivered/mailed this 13th day of July 2007 to:

Lyn Farmer, Esq.
Chief Administrative Law Judge
Hearing Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Christopher C. Kempley
Chief Counsel, Legal Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Ernest G. Johnson, Esq.
Director, Utilities Division
Arizona Corporation Commission
1200 West Washington
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By Debbie Amaral

ROSHKA DEWULF & PATTEN, PLC
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TELEPHONE NO 602-256-6100
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EXHIBIT A

WATER UTILITY OF GREATER BUCKEYE

Backflow-Prevention Program

Rationale

In accordance with Arizona Administrative Code (AAC) R18-04-115, a public water system shall protect its system from contamination caused by backflow through unprotected cross-connections by requiring the installation and periodic testing of backflow-prevention assemblies. AAC R14-2-405.B.6 requires that any customer's lines be installed so as to prevent cross-contamination or backflow.

Accordingly, the public water systems of the Water Utility of Greater Buckeye will require backflow-prevention assemblies to be installed and/or retrofitted at the service connection of those establishments where there exists a possibility of contamination caused by backflow through unprotected cross-connections and/or which are not specifically exempted by the subject rule.

In all cases, the need for and the type of backflow prevention assembly will be specified by the water utility, and will be located on the customer's side of the service connection. The approved backflow-prevention device will be acquired, installed, owned, tested and maintained by the customer. The minimum level of backflow protection that is provided to protect a public water system shall be the level recommended in:

Section 7.2 of the Manual of Cross-Connection Control
Ninth Edition, USC-FCCCHR
KAP-200 University Park MC-2531
Los Angeles, California 90089-2531
December 1993 (and no future editions or amendments)

The type of backflow-prevention assembly (BPA) installed will be determined by the relative hazards posed by each customer account in its category. Inspections and testing of installed BPA's must be conducted by a certified backflow tester who shall submit a written report to the utility. All BPA's will be subjected to annual inspections and testing to be performed by a certified backflow tester.

Procedure for Existing Customers

All customer accounts will be reviewed by customer listing and subject to on site surveys as needed, and placed into one of five categories.

Category #1: Animal clinics, car washes, laundries, pest control, some restaurants, etc.
BPA required: **Reduced Pressure Backflow Assembly**

Category #2: Restaurants, schools, medical/dental offices, retail establishments
BPA required: **Reduced Pressure Backflow Assembly or Double Check**

Category #3: Multifamily residences with common plumbing and a master meter
BPA required: **Double Check**

Category #4: Non chemical dispensing irrigation systems and commercial horse farms
BPA required: **Double Check or Vacuum Breaker**

Category #5: Class 1 and 2 fire protection systems
BPA required: **To be determined**

The type of BPA required will depend upon the level of potential contamination. If the potential is low, then a lower grade of BPA may be installed dependant upon the approval of the utility.

Non-Exempt Single Family Residences

If the following conditions exist in services to single family residences, backflow-prevention assemblies will be required:

1. Customer owns a private well and is served additionally by the utility
   BPA required: **Double check or Vacuum breaker**

2. Zoned horse and/or animal acreage properties
   BPA required: **Double check or Reduced Pressure**

3. Operating a home business whose business is subjected to hazardous materials
   BPA required: **Double check or Reduced Pressure**

4. Residential properties where the potential for existing cross connection occurs – landscape irrigation via reclaimed water
   BPA required: **Double check or Reduced Pressure**

Procedure for New Construction

The Utility has sole the discretion to require the installation of a backflow-prevention assembly (BPA) as it deems necessary in order to protect the public water supply. This requirement and type of BPA will be determined at the plan review stage, and may be amended by a Cross-Connection Survey (see Appendix A) completed by the Utility.

Installation and Testing

The following types of notification will be provided to utility customers:

1. Information letter – This letter is for existing and new customers and explains backflow prevention and the need for compliance. See **Appendix B**.

2. Notice to install a backflow-prevention assembly – Initial notice sent to the customer after the utility establishes the customer's requirement to have a BPA determined by the survey results. See **Appendix C**.

3. Second notice to install or test a BPA – Reminder notice of the requirement to install or test. The customer is given notice to comply with this requirement within 45 days. **Appendix D**.

4. Final Notice to install or test a BPA – Final notice to the customer to comply with the requirement of the backflow-prevention program and a determination to disconnect service. See **Appendix E**.

5. Disconnection Notice – Notice to disconnect service with the date of disconnect if customer does not comply with the requirements of the backflow-prevention program. See **Appendix F**.

Termination of Service

All customers who fail to comply with the requirements of the backflow-prevention program will be notified in accordance with AAC R14-2-410 of the termination of their water service.

If service is terminated, service will not be restored until an approved BPA is installed and tested. Re-connection of service is also subject to the fees included in the Utility's approved tariff rate schedule.

Notice

The Backflow-prevention Program is subject to periodic review therefore the procedures may be changed or altered as the utility deems necessary in the protection of public health. All changes shall comply with the current and/or future laws as well as the rules and regulations of the regulatory agencies. Any and all changes in procedure shall be forwarded to the Maricopa County Environmental Services Department for review.

Appendix A

CROSS CONNECTION SURVEY

Date:

Customer:

Water service address:

Account #:

Meter #:

Does the property have a:

Private operating well or other alternate water supply	YES ☐	NO ☐
Retention area (pond) supplied by potable water supply	YES ☐	NO ☐
Automatic irrigation system or other facility with potential for dispensing chemical contamination	YES ☐	NO ☐
Solar energy system	YES ☐	NO ☐
Agricultural use or livestock (horses) related activity	YES ☐	NO ☐
All commercial business	YES ☐	NO ☐
Home business using possible hazardous material	YES ☐	NO ☐

If you answered **"YES"** to any of the above, you are required to **INSTALL** a Backflow-prevention assembly. It must be **tested** at the time of installation and **ANNUALLY** thereafter. Reminder letters will be sent out each year prior to the anniversary date of the previous year's test.

Type of device required:

- Livestock - Double Check Assembly
- All others - Reduced Pressure Assembly

Thank you for your assistance in the protection of your water supply.

The Backflow-prevention program is instituted and enforced to help supply all of our customers with potable water that meets the requirements of the Federal Safe Drinking Water Act.

Appendix B

Backflow-Prevention Information

Dear Customer,

This letter is to inform you the Water Utility of Greater Buckeye will be implementing a backflow-prevention program in your service area.

What is backflow-prevention?

Backflow-prevention protects a public water supply from contamination caused by backflow through unprotected cross-connections. A Backflow-prevention program is a requirement of the Safe Drinking Water Act and AAC R18-4 *et seq.*

What is a Backflow-Prevention Program?

A Backflow-Prevention Program requires the installation and annual testing of backflow-prevention assemblies in all areas considered to be a potential cross-contamination hazard. A public water system shall maintain records of installations and tests performed on backflow-prevention assemblies in its service area. Records shall be retained by the public water system for at least three years and shall be made available for review by the Arizona Department of Environmental Quality (or its designee) upon request.

What is a backflow-prevention assembly device?

A backflow-prevention device is a device that prevents the reversal of flow when pressures change within a distribution system.

Who is Responsible for Acquiring, Installing, Maintaining and Testing a Backfkow Prevention Assembly?

The Customer is responsible for acquiring, installing, maintaining and testing an approved BPA. Testing is required annually. The Customer must contact a certified installer in order to have the BPA properly installed. Installation and annual test certificates must be provided to the Utility.

Where is a backflow-prevention assembly installed?

A backflow-prevention assembly shall be installed as close as practicable to the service connection. (Usually just past the water meter on the customer's side).

Who is required to have a backflow-prevention assembly installed?

1. Any residential service connection with livestock on the premises.
2. Any residential service connection with on site irrigation.

3. Any residential service connection with a water supply that is not accepted as an additional source by the public water system or is not approved by ADEQ or its designee. (This source is commonly a private well).
4. All commercial establishments.
5. Any connections considered by ADEQ, MCESD or the Utility to be a hazard.

Who installs the backflow-prevention assemblies?

Installation and testing must be performed by a person who is currently certified as a general tester by the California-Nevada section of the American Water Works Association (CA-NV Section, AWWA), the Arizona State Environmental Technical Training (ASETT) Center, or other certifying authority approved by ADEQ or its designee.

Who will supply the installation and certification information?

Once you have hired a certified tester, the tester will provide the utility with the original certificate of installation and test. We recommend you retain a copy for your records. It is the customer's responsibility to provide proof of test and certification.

The information that must be supplied:

1. Assembly identification number and description,
2. Location
3. Date of test
4. Description of repairs and recommendations for repairs made by the tester, and
5. The tester's name and certificate number.

****Important Information****

In accordance with the Federal Safe Drinking Water Act Amendments of 1986 and the provisions of the Arizona Administrative Code R18-4-115, failure to comply with this requirement shall be sufficient cause for termination of your water service. Upon request the utility can provide you with a copy of the Arizona Administrative Code R18-4-115.

We appreciate your cooperation in this very important matter. If you have any questions feel free to contact our office at 623-580-9600.

Appendix C

NOTICE TO INSTALL AND TEST BACKFLOW PREVENTION ASSEMBLY

Date:

Customer:

Water service address:

Account #:

The Arizona Administrative Code, R18-04-115, as adopted by the Arizona Department of Environmental Quality for Cross-Connection requires mandatory installation and periodic testing of backflow assemblies, where it is determined that backflow is likely to occur.

In accordance with the Federal Safe Drinking Water Act Amendments of 1986 and the provisions of the R18-04-115, you are required to install and annually test one of the following approved backflow-prevention assemblies for the purpose of protecting the potable water supply from substances which could endanger public health.

() Double Check Valve Assembly
() Reduced Pressure Principal Device
() Pressure Vacuum Breaker

Reason for installation:

_____

A list of reduced pressure principle backflow prevention assemblies that have been evaluated and approved by the Foundation for Cross-Connection Control and Hydraulic Research of the University of California should be available through certified plumbers. These assemblies have been adopted and approved by the State of Arizona and must be installed within **60** days from the date of this letter.

Backflow-prevention assemblies are to be purchased, installed, maintained and annually tested at the customer's expense. The backflow prevention assemblies must be **tested by a Certified Backflow-prevention Assembly Tester at the time of installation.** Once the assembly has been installed and tested you should receive a copy of the certification. The Certified Tester will need to forward the original test report to our office.

If you should have any questions or require further information, please contact the main office at 623-580-9600.

Thank you for your cooperation in this very important matter.

Appendix D

SECOND NOTICE

NOTICE TO INSTALL/ TEST BACKFLOW PREVENTION ASSEMBLY

Date:

Customer:

Water service address:

Account #

Dear Customer,

We recently wrote to you explaining the regulatory requirements for installing and /or testing your backflow-prevention assembly. Installing and /or testing your BFP assembly are of the utmost importance as it is in place to protect the public water supply from possible contamination. We previously sent you **a** notice to comply with the requirements of the Arizona Administrative Code R18-4-115 regarding the requirements of backflow-prevention.

If you have had your backflow-prevention assembly installed and / or tested, please forward the report to:

Water Utility of Greater Buckeye
21410 N. 19th Avenue Suite 201
Phoenix, AZ 85027

If you have not complied with the requirements, please call us with the approximate date you expect to have your BFP assembly tested. You are required to comply with this requirement within 45 days of this notice.

If you should have any questions or require further information, please contact our office at 623-580-9600.

Thank you for cooperation in this very important matter.

Appendix E

FINAL NOTICE

TO INSTALL AND TEST BACKFLOW PREVENTION ASSEMBLY

Date:

Customer:

Water service address:

Account #

Dear Customer,

We recently wrote to you explaining the regulatory requirements for installing and /or testing your backflow-prevention assembly. Installing and /or testing your BFP assembly are of the utmost importance as it is in place to protect the public water supply from contamination. We previously sent you **2** reminder notices to comply with the requirements of the Arizona Administrative Code R18-4-115 regarding the requirements of backflow-prevention.

If you have had your backflow-prevention assembly installed and / or tested, please forward the report to:

Water Utility of Greater Buckeye
21410 N. 19th Avenue Suite 201
Phoenix, AZ 85027

If you have not complied with the requirements, please call us with the approximate date you expect to have your BFP assembly tested. You are required to comply with this requirement within 15 days of this notice

Failure to comply with the requirements of the Backflow-prevention program will result in a disconnection of your service.

If you should have any questions or require further information, please contact our office at 623-580-9600.

Thank you for your cooperation in this very important matter.

Appendix F

DISCONNECT NOTICE

FAILURE TO INSTALL AND/OR TEST BACKFLOW PREVENTION ASSEMBLY

Date:

Customer:

Water service address:

Account #

Dear Customer,

We recently wrote to you explaining the regulatory requirements for installing and /or testing your backflow-prevention assembly. Installing and /or testing your BFP assembly are of the utmost importance as it is in place to protect the public water supply from contamination. We previously sent you **3** reminder notices to comply with the requirements of the Arizona Administrative Code R18-4-115 regarding the requirements of backflow-prevention.

Our records indicate you have failed to comply with the requirements of the backflow-prevention program.

Your service will be **DISCONNECTED** on:

If you have had your backflow-prevention assembly installed and / or tested, please forward the report to:

Water Utility Of Greater Buckeye
21410 N. 19th Avenue Suite 201
Phoenix, AZ 85027

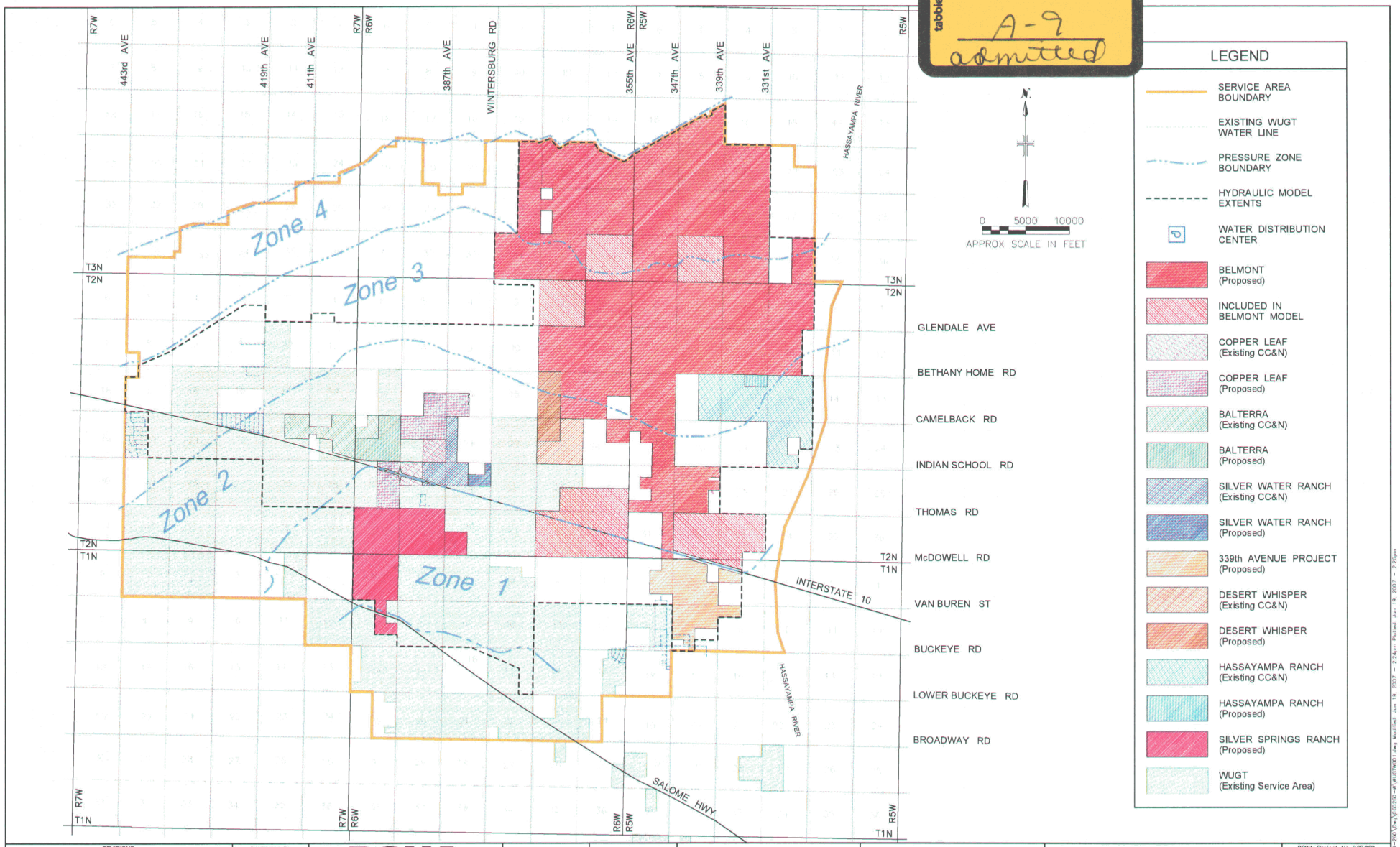
If your backflow-prevention assembly is scheduled for testing, please have the company performing the testing contact our office at the numbers listed below to avoid any service interruption.

If you should have any questions or require further information, please contact our office at 623-580-9600.

Thank you for your cooperation in this very important matter.

EXHIBIT 9

EXHIBIT
A-9
admitted



REVISIONS			
NO	DATE	BY	DESCRIPTION

File Name: WUGTWG01.dwg

Designed By GB, VJL
Drawn By CDH
Checked By CHC

DSWA
DAMON S. WILLIAMS ASSOCIATES, LLC

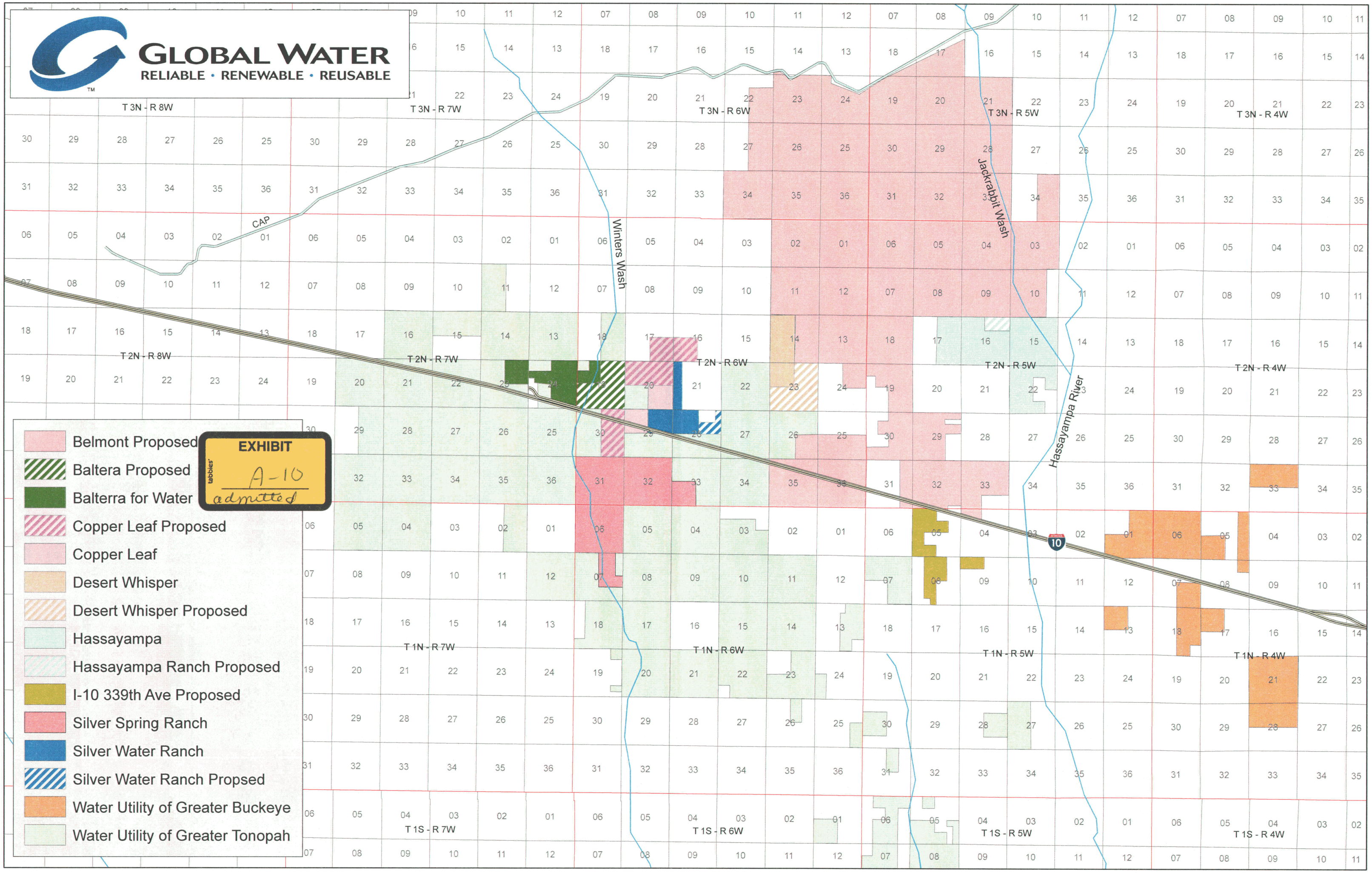
GLOBAL WATER
RELIABLE · RENEWABLE · REUSABLE

GLOBAL WATER
WATER UTILITY
OF GREATER TONOPAH

PROPOSED SERVICE AREAS
LOCATION MAP
SHOWING PRESSURE ZONES

DSWA Project No 060260
Date MAY 2007

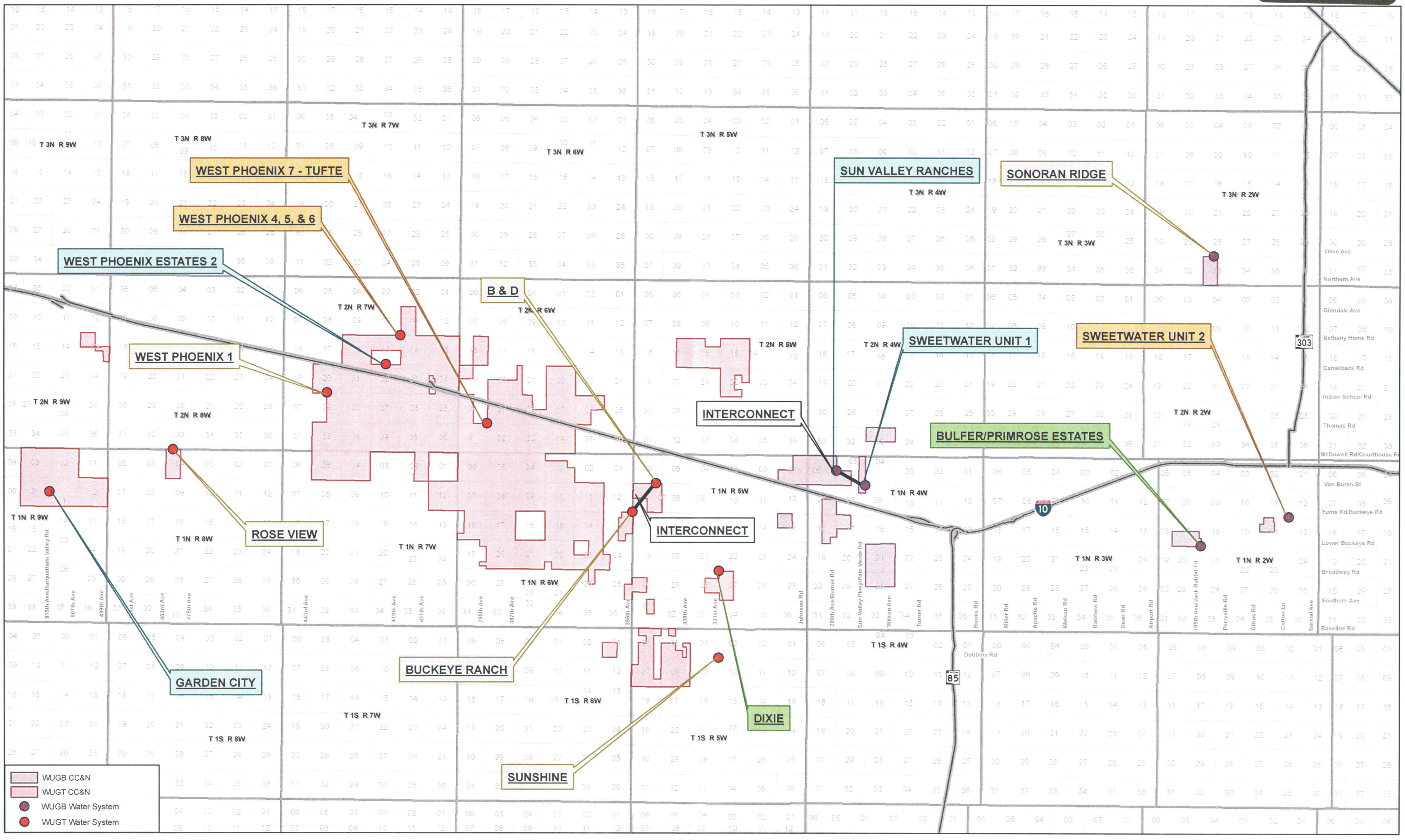
EXHIBIT 1.1


GLOBAL WATER
RELIABLE • RENEWABLE • REUSABLE
EXHIBIT
A-10
admitted
Belmont Proposed
Baltera Proposed
Balterra for Water
Copper Leaf Proposed
Copper Leaf
Desert Whisper
Desert Whisper Proposed
Hassayampa
Hassayampa Ranch Proposed
I-10 339th Ave Proposed
Silver Spring Ranch
Silver Water Ranch
Silver Water Ranch Propsed
Water Utility of Greater Buckeye
Water Utility of Greater Tonopah
T 3N - R 8W
T 3N - R 7W
T 3N - R 6W
T 3N - R 5W
T 3N - R 4W
T 2N - R 8W
T 2N - R 7W
T 2N - R 6W
T 2N - R 5W
T 2N - R 4W
T 1N - R 7W
T 1N - R 6W
T 1N - R 5W
T 1N - R 4W
T 1S - R 7W
T 1S - R 6W
T 1S - R 5W
T 1S - R 4W
CAP
Winters Wash
Jackrabbit Wash
Hassayampa River
10

GLOBAL WATER
RELIABLE · RENEWABLE · REUSABLE

Water System Locations

EXHIBIT
A-11
admitted



LEGAL FILE COPY

MEMORANDUM

RECEIVED

2007 JUN 29 P 12: 18

AZ CORP COMMISSION
DOCKET CONTROL

TO: Docket Control

FROM: Ernest G. Johnson
Director
Utilities Division

Date: June 29, 2005

RE: STAFF REPORT FOR THE APPLICATION FOR THE APPLICATION OF THE WATER UTILITY OF GREATER TONOPAH, INC. FOR AN EXTENSION OF ITS CERTIFICATE OF CONVENIENCE AND NECESSITY (DOCKET NO. W-02450A-06-0253)

Attached is the Staff Report for the Water Utility of Greater Tonopah, Inc. application for approval to extend its Certificate of Convenience and Necessity. Staff recommends approval with conditions.

EGJ:LAJ:tdp

Originator: Linda A. Jaress

RECEIVED

JUN 29 2007

ARIZ. CORP. COMM.

EXHIBIT
S-1
admitted
ALL-STATE LEGAL®

Service List for: Water Utility of Greater Tonopah, Inc.
Docket No. W-02450A-06-0253

Mr. Tim Sabo
Roshka, Dewulf & Patten
One Arizona Center
400 East Van Buren Street, Suite 800
Phoenix, Arizona 85004

Mr. Christopher C. Kempley
Chief, Legal Division
Arizona Corporation Commission
1200 West Washington Street
Phoenix, Arizona 85007

Mr. Ernest G. Johnson
Director, Utilities Division
Arizona Corporation Commission
1200 West Washington Street
Phoenix, Arizona 85007

Ms. Lyn Farmer
Chief, Hearing Division
Arizona Corporation Commission
1200 West Washington Street
Phoenix, Arizona 85007

STAFF REPORT
UTILITIES DIVISION
ARIZONA CORPORATION COMMISSION

WATER UTILITY OF GREATER TONOPAH, INC.
DOCKET NO. W-02450A-06-0253

APPLICATION FOR EXTENSION
OF CERTIFICATE OF
CONVENIENCE & NECESSITY

JUNE 29, 2007

STAFF ACKNOWLEDGMENT

The Staff Report for Water Utility of Greater Tonopah, Inc., Docket No. W-02450A-06-0253 was prepared by the Staff members signed below. Linda Jaress prepared the Staff Report and Dorothy Hains prepared the Engineering Report.

Linda A. Jaress
Executive Consultant

Dorothy Hains
Utilities Engineer

EXECUTIVE SUMMARY
WATER UTILITY OF GREATER TONOPAH, INC.
FOR AN EXTENSION OF CERTIFICATE OF CONVENIENCE AND NECESSITY
DOCKET NO. W-02450A-06-0253

On April 14, 2006, the Water Utility of Greater Tonopah, Inc. ("WUGT" or "Company") filed an application with the Arizona Corporation Commission ("ACC" or "Commission") for the extension of its Certificate of Convenience and Necessity ("CC&N") to a ¾ section area which is part of a development known as Balterra.

WUGT operates eight individual water systems of varying sizes. Staff analyzed data regarding the systems in the 2006 Annual Report along with updated information provided by WUGT and concluded that the Dixie System, which serves 33 customers, has inadequate production and storage. Arsenic levels in the WUGT's systems, except the Dixie and the Garden City systems, exceed the new arsenic standard of 10 parts per billion. However, all the systems are in compliance with Maricopa County Environmental Services Department ("MCESD"), Arizona Department of Environmental Quality ("ADEQ") and Arizona Department of Water Resources ("ADWR").

WUGT proposes to install a new water system which would include two wells, a water treatment plant, a reservoir system, booster pump stations and a distribution system to serve the projected 1,209 customers in the extension area along with the rest of the Balterra development. The Company's estimate of the total cost of plant to serve the extension area during the first five years of operation is $4,621,867. Staff concludes that the costs of the plant to serve the extension area estimated by the Company are reasonable.

1. WUGT should resolve the storage and production deficiencies in the Dixie System before entering any new Main Extension Agreements or CC&N extensions involving the Dixie System.

2. WUGT should file by December 31, 2007, evidence in Docket Control that the arsenic removal plans for the systems have been approved by MCESD.

3. WUGT should file by March 31, 2008, with Docket Control, documents showing that its systems are in compliance with the new arsenic standard.

4. WUGT should file within two years of the decision in this docket, a copy of the Certificates of Approval of Construction for its water source, treatment plant, storage tanks and water distribution system for the proposed water system issued by MCESD or ADEQ.

5. WUGT should file within eighteen months of the effective date of the final decision in this docket with Docket Control a copy of the APP issued by ADEQ for the proposed water treatment plant.

6. WUGT should file with Docket Control, as a compliance item in this docket, by July 31, 2009, a copy of ADWR's Designation of Assured Water Supply stating that there is adequate water for the area being requested and/or a copy of the Certificate of Assured Water Supply for the requested area.

7. WUGT should file with Docket Control, as a compliance item in this docket, within one year of the decision, a copy of the franchise agreement with the city or county in which the extension area is located.

8. WUGT should file a Cross Connection/Backflow Tariff with the Commission's Docket Control within 45 days of the effective date of the final decision in this matter for Staff's review and certification.

9. The decision approving this extension should be deemed null and void after due process if WUGT does not comply with the above requirements in the time ordered.

TABLE OF CONTENTS

Page

INTRODUCTION 1

EXISTING WATER SYSTEMS 1

PROPOSED WATER SYSTEM 2

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT 2

ARIZONA DEPARTMENT OF WATER RESOURCES 3

CROSS CONNECTION/BACKFLOW TARIFF 3

CONCLUSIONS AND RECOMMENDATIONS 3

EXHIBITS

ENGINEERING MAP 1

ENGINEERING REPORT 2

Introduction

On April 14, 2006, the Water Utility of Greater Tonopah, Inc. ("WUGT" or "Company") filed an application with the Arizona Corporation Commission ("ACC" or "Commission") for the extension of its Certificate of Convenience and Necessity ("CC&N") to a ¾ section area which is part of a development known as Balterra. The Company is located west of Phoenix and serves various locations between 331st Avenue and 555th Avenue and between Elliot Road and Glendale Avenue. A map and legal description of the extension area is attached as Exhibit 1. According to the 2006 annual report to the Commission, the Company serves 332 customers.

The extension area is located in the vicinity of 395th Avenue and Camelback in Maricopa County. The largest portion of the Balterra development is within WUGT's current service territory. The extension area is contiguous to the rest of the Balterra development. At build-out, the Balterra development is expected to encompass approximately 6,100 residential units. The development will receive wastewater service from Balterra Sewer Corporation, a utility independent from WUGT, which received its CC&N in Decision No. 68742, dated June 5, 2006.

WUGT operates under rates and charges effective January 1, 2002. The Company was formed by the combination of several other water companies over many years which accounts for its eight distinct water systems. During 2006, the Company was acquired by Global Water Resources, L.L.C. ("Global"). Global has several years of experience owning and operating Arizona water and wastewater companies and employs certified operators to operate them.

The Company is a corporation in good standing with the Corporations Division of the Commission and has no outstanding compliance issues in the records of the Compliance Section of the Utilities Division.

Existing Water Systems

WUGT operates eight individual water systems. The smallest system, WPE #1, serves 2 customers while the largest system, the Sunshine System serves 137 customers. Attached as Exhibit 2 is Staff's Engineering Report which further describes the current and proposed systems and the estimated costs of the extension. Staff analyzed data from the 2006 Annual Report and updated information provided by WUGT and concluded that the Dixie System, which serves 33 customers, has inadequate production and storage.

Staff recommends that WUGT take action to correct the production and storage problem. Such action could include the installation of a well, a storage tank, a combination of the two, or interconnection with another system. Staff recommends that the Commission require WUGT to resolve the storage and production deficiencies in the Dixie System before allowing any new Main Extension Agreements or CC&N extensions involving the Dixie System.

Proposed Water System

WUGT proposes to install a new water system which would include two wells, a water treatment plant, a reservoir system, booster pump stations and a distribution system to serve the projected 1,209 customers in the extension area along with the rest of the Balterra development. WUGT expects that during the initial phase of the water system construction one well and a one million gallon storage tank will be installed.

The Company's estimate of the total cost of plant to serve the extension area during the first five years of operation is $4,621,867. Staff concludes that the costs of the plant to serve the extension area estimated by the Company are reasonable.

Maricopa County Environmental Services Department

The Maricopa County Environmental Services Department ("MCESD") has determined that all WUGT's regulated systems are delivering water that meets the water quality standards set forth in the Arizona Administrative Code, Title 18, Chapter 4. Two of the systems are not regulated by MCESD due to their small size.

Arsenic levels in the WUGT's systems, except the Dixie and the Garden City systems, exceed the new arsenic standard of 10 parts per billion. The compliance date for meeting the arsenic standard is December 31, 2007. MCESD has issued an Approval to Construct for the arsenic removal plant for one system, the WPE #6 system. Staff recommends the WUGT file by December 31, 2007, evidence in Docket Control that the arsenic removal plans for its systems have been approved by MCESD. Staff further recommends that the Company file by March 31, 2008, documents showing that its systems are in compliance with the new arsenic standard.

Staff also recommends that WUGT file with Docket Control Section a copy of the Certificates of Approval of Construction for its water source, treatment plant, storage tanks and water distribution system for the proposed water system issued by MCESD or the Arizona Department of Environmental Quality ("ADEQ") within two years of the effective date of the final decision issued in this docket.

WUGT plans to treat the water using an Arsenic Activated Alumina system and granular ferric hydroxide. The backwash water from this treatment plant will be treated by a reverse osmosis unit to reduce the waste water volume before disposal. The final waste water will be disposed of in an on-site, lined, 0.6 acre evaporation pond. An Aquifer Protection Permit ("APP") will be required for this waste water disposal system. Staff recommends that WUGT file with Docket Control a copy of the APP issued by ADEQ for the proposed treatment plant within eighteen months of the effective date of the final decision in this docket.

Arizona Department of Water Resources

WUGT is located in the Phoenix Active Management Area ("AMA"), as designated by the Arizona Department of Water Resources ("ADWR"). ADWR has indicated that the Company is in compliance with the Phoenix AMA requirements. WUGT intends to apply to ADWR for a Designation of Assured Water Supply. Staff recommends that WUGT file with Docket Control, as a compliance item in this docket, a copy of ADWR's Designation of Assured Water Supply stating that there is adequate water for the area being requested and/or a copy of the Certificate of Assured Water Supply for the requested area by July 31, 2009.

Cross Connection/Backflow Tariff

WUGT's tariff does not contain provisions regarding cross connections or backflow. Staff recommends that WUGT file a Cross Connection/Backflow Tariff with the Commission's Docket Control within 45 days of the effective date of the final decision in this matter for Staff's review and certification. The tariff should generally conform to the sample tariff found on the Commission's web site at www.azcc.gov.

Conclusions and Recommendations

Based upon the experience operating water and wastewater utilities in Arizona of WUGT and its affiliates and their compliance record with Arizona regulatory agencies, Staff believes that WUGT is a fit and proper entity to serve the extension area. Based upon the documented need for service, Staff also believes it is in the public interest for WUGT to serve the extension area. Staff recommends approval of the requested CC&N extension.

Staff also recommends that the Company be ordered to complete the following:

1. WUGT should resolve the storage and production deficiencies in the Dixie System before allowing any new Main Extension Agreements or CC&N extensions involving the Dixie System.

2. WUGT should file by December 31, 2007, evidence in Docket Control, as a compliance item in this docket, that the arsenic removal plans for the systems have been approved by MCESD.

3. WUGT should file by March 31, 2008, with Docket Control, as a compliance item in this docket, documents showing that its systems are in compliance with the new arsenic standard.

4. WUGT should file with Docket Control, as a compliance item in this docket, within two years of the decision in this docket, a copy of the Certificates of Approval of Construction for its water source, treatment plant, storage tanks and water distribution system for the proposed water system issued by MCESD or ADEQ.

5. WUGT should file within eighteen months of the effective date of the final decision in this docket with Docket Control, as a compliance item in this docket, a copy of the APP issued by ADEQ for the proposed treatment plant.

6. WUGT should file with Docket Control, as a compliance item in this docket, by July 31, 2009, a copy of ADWR's Designation of Assured Water Supply stating that there is adequate water for the area being requested and/or a copy of the Certificate of Assured Water Supply for the requested area.

7. WUGT should file with Docket Control as a compliance item in this docket, within one year of the decision, a copy of the franchise agreement with the city or county in which the extension area is located.

8. Staff recommends that WUGT file a Cross Connection/Backflow Tariff with the Commission's Docket Control, as a compliance item in this docket, within 45 days of the effective date of the final decision in this matter for Staff's review and certification.

9. The decision approving this extension should be deemed null and void after due process if WUGT does not comply with the above requirements in the time ordered.

EXHIBIT 1

MEMORANDUM

TO: Linda Jaress
Executive Consultant III
Utilities Division

FROM: Barb Wells
Information Technology Specialist
Utilities Division

THRU: Del Smith
Engineering Supervisor
Utilities Division

DATE: May 10, 2006

RE: **WATER UTILITY OF GREATER TONOPAH, INC. (DOCKET NO. W-02450A-06-0253)**

The area requested by Tonopah for an extension has been plotted with no complications using the legal description provided with the application (a copy of which is attached).

Also attached is a copy of the map for your files.

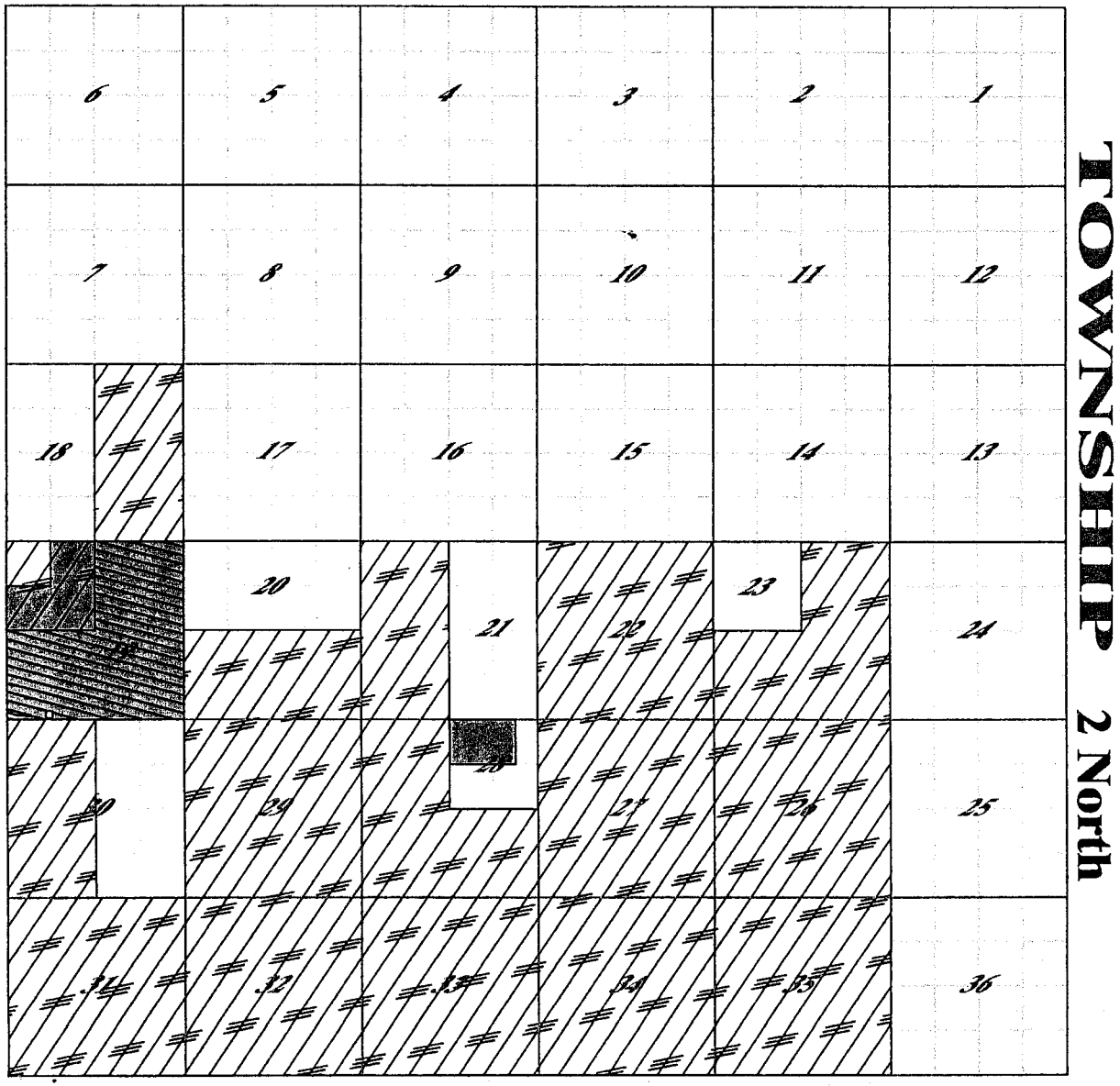
:bsw

Attachment

cc: Docket Control
Mr. William Sullivan
Mr. John Mihlik
Ms. Deb Person (Hand Carried)
File

COUNTY: *Maricopa*

RANGE 6 West



W-2450 (11)
Water Utility of Greater Tonopah, Inc.
(West Phoenix)

(2)
Balterra Sewer Corporation
Docket No. SW-20403A-05-0586
Application for CC&N

(1)
Water Utility of Greater Tonopah, Inc.
Docket No. W-02450A-06-0253
Application for Extension

TR2N6W 02 FEB 2006

WATER SERVICE AREA DESCRIPTION

BALTERRA

THE NORTHEAST QUARTER AND THE SOUTH HALF OF SECTION 19, TOWNSHIP 2 NORTH, RANGE 6 WEST,
GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA;

EXCEPT THAT PORTION OF THE SOUTHWEST QUARTER OF SAID SECTION 19 DESCRIBED AS FOLLOWS:

COMMENCING AT A BRASS CAP FOUND AT THE SOUTH QUARTER CORNER OF SAID SECTION 19, FROM WHICH AN ARIZONA DEPARTMENT OF TRANSPORTATION BRASS CAP AT THE SOUTHEAST CORNER OF SAID SECTION 19 BEARS SOUTH 89°28'08" EAST, A DISTANCE OF 2640.04 FEET; THENCE NORTH 89°28'43" WEST, ALONG THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19, A DISTANCE OF 1482.82 FEET; THENCE NORTH 00°31'17" EAST, A DISTANCE OF 40.00 FEET TO A HALF INCH REBAR AT A POINT ON A LINE LYING 40.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19 AND THE **TRUE POINT OF BEGINNING**;

THENCE CONTINUING NORTH 00°31'17" EAST, A DISTANCE OF 200.00 FEET TO A HALF IN REBAR AT A POINT ON A LINE LYING 240.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19;

THENCE SOUTH 89°28'43" EAST, ALONG SAID LINE LYING 240.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19, A DISTANCE OF 200.00 FEET TO A HALF IN REBAR;

THENCE SOUTH 00°31'17" WEST, A DISTANCE OF 200.00 FEET TO A HALF IN REBAR AT A POINT ON SAID LINE LYING 40.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19;

THENCE NORTH 89°28'43" WEST, ALONG SAID LINE LYING 40.00 FEET NORTH OF AND PARALLEL TO THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 19, A DISTANCE OF 200.00 FEET TO A HALF IN REBAR AT THE **POINT OF BEGINNING**;

ALSO EXCEPT ANY PORTION OF THE SOUTHWEST QUARTER OF SAID SECTION 19 LYING WITHIN THAT CERTAIN TRACT OF LAND CONDEMNED FOR HIGHWAY PURPOSES BY INSTRUMENT RECORDED UNDER DOCKET 7553, PAGE 749, RECORDS OF MARICOPA COUNTY ARIZONA.

SITUATE IN THE COUNTY OF MARICOPA, STATE OF ARIZONA.

CONTAINS 475.815 ACRES MORE OR LESS.

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
40622
BRYAN L.
CAMPBELL
Date Signed 11-28-05
ARIZONA, U.S.A.

MEMORANDUM

DATE June 14, 2007

TO: Linda Jaress
Executive Consultant III

FROM: Dorothy Hains, P.E. DH
Utilities Engineer-Water/Wastewater

RE: **Engineering Report For Water Utility of Greater Tonopah, Inc. Application to extend its CC&N to provide water service Docket Nos. W-02450A-06-0253**

I. Introduction

The Water Utility of Greater Tonopah ("WUGT") has submitted a Certificate of Convenience and Necessity ("CC&N") extension application to provide water services near the Town of Tonopah in western Maricopa County. WUGT currently serves approximately a 62 square mile area. The requested extension area is approximately ¾ square mile in size[1] and northeast of the existing CC&N area.

II. Water System Analysis

A. Existing Water Systems

WUGT operates eight individual water systems: (1) B&D/Buckeye Ranch System; (2) Dixie System; (3) Garden City/Big Horn System; (4) Rose View System; (5) Sunshine System; (6) West Phoenix Estates ("WPE"); #6 System; (7) Tufte & WPE #7 System and (8) WPE #1 System. Staff analyzed data from the 2006 Annual Report and updated information provided by WUGT. Staff's conclusion regarding the adequacy of each system is listed in the following table.

System Name	B&D/Buckeye Ranch	Dixie	Garden City/Big Horn	Rose View	Sunshine	WPE #6	Tuft WPE #7	WPE #1
PWS ID # (07-xxx)	618	030	037	082	071	733	617[1]	N/A[1]
# of wells	2	1	1	1	1	1	1	1

[1] The area is located in the Balterra Development ("Balterra").

Total well production[2]	145	40	30	30	130	20	20	20
# of storage tank	2	1	2	1	1	1	1	1
Total storage capacity (gallons)	155,000	10,000	35,000	5,000	100,000	6,000	5,700	5,000
# of existing customers	93	33	19	17	137	23	6	2
Are any FH[3] in the system?	Yes	No	No	No	Yes	No	No	N/A[4]
Does system contain fire flow[5]?	Yes	No	No	No	Yes	No	No	No
Does the system have adequate storage and production capacity?	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes
Is arsenic exceeding 10 µg/l standard in the system[6]?	Yes	No	No	Yes	Yes	Yes	Yes	Yes

Note:
1. The system is not regulated by either ADEQ or MCESD yet, because it is a semi-public system.
2. Reported in gallons per minute ("GPM").
3. FH stands for fire hydrant.
4. Staff assumes that there is no fire hydrant in this system.
5. Staff used 500 GPM for one hour to calculate fire flow reservation.
6. Data came from 2006 WUGT's Annual Report and e-mail from WUGT.

Due to rapid grow in WUGT's service area, the Dixie System's existing production and storage capacity is inadequate to serve the existing base of customers. Staff recommends that WUGT take action to correct the production and storage problem[2] in the Dixie System. Staff further recommends that the Commission not approve any new Main Extension Agreements or CC&N extension involving the Dixie System until WUGT demonstrates to Staff that it has corrected the inadequate storage and production problem.

[2] WUGT can choose to take action either to install additional well or to install additional storage tank or to install combination of additional well and additional storage tank in Dixie System. WUGT can also choose to interconnect Dixie System with either Sunshine System or B&D/Buckeye System.

B. Proposed Water System

In order to serve the requested area, WUGT proposes to install a separate, new water system that includes two wells[3], an arsenic/fluoride removal treatment plant[4], a reservoir system[5], booster pump station systems and a distribution system to serve the projected 1,209 customers within next five years. However, WUGT plans to utilize this proposed system for serving the entire Balterra Development[6] area that includes the requested area and additional eighteen square miles. The proposed water system will be located on a parcel of land[7] at 407th Ave. and Camelback Rd. According to WUGT, one well and a one million gallon storage tank will be installed initially. Staff recommends that WUGT submit to the Commission's Docket Control Section a copy of the Certificates of Approval of Construction ("AOC") for water source/treatment plant/storage tanks and water distribution system for the proposed water system issued by Maricopa County Environmental Services Department ("MCESD") or Arizona Department of Environmental Quality ("ADEQ") within two years of the effective date of the final decision and order issued pursuant to this Application.

III. Wastewater Services

Balterra Sewer Co. will be the sewer provider for this requested area.

IV. Maricopa County Environmental Services Department ("MCESD") Compliance

Staff received compliance status reports from MCESD. Summaries of the reports are listed below:

System Name	B&D/Buck eye Ranch	Dixie	Garden City/Big Horn	Rose View	Sunshine	WPE #6	Tuft WPE #7	WPE #1
PWS ID# (07-xxx)	618	030	037	082	071	733	617	N/A[1]
Status	Public system	Public system	Public system	Public system	Public system	Public system	Semi-public	Semi-public
Regulated by MCESD?	yes	yes	yes	yes	yes	yes	no	no

[3] WUGT projects each well that could produce a 500 GPM ground water.
[4] Based on the data from the surrounding area, WUGT expects that the groundwater from the proposed well will exceed arsenic and fluoride standards. Therefore, WUGT proposed to install a treatment plant before the initial water qualities have been tested.
[5] The reservoir will be part of a 2.8-million gallons storage tank system at build out, however WUGT plans to install a 1 million gallon storage tank initially.
[6] WUGT estimates 2,770 customers in the Balterra Development area within five years.
[7] Parcel Number APN #506-35-024.

Compliance status	compliance	compliance	compliance	compliance	compliance	compliance	N/A	N/A
Date received MCESD report)	2/21/07	3/21/07	4/11/07	3/21/07	3/28/07	3/20/07	N/A	N/A

MCESD has determined that all WUGT's regulated systems are delivering water that meets the water quality standards required by Arizona Administrative Code, Title 18, Chapter 4.

V. Arizona Department of Water Resources ("ADWR") Compliance

WUGT is located in the Phoenix Active Management Area ("AMA"), as designated by ADWR. ADWR has indicated that WUGT is in compliance with the Phoenix AMA requirements. WUGT is in the process of preparing an ADWR Designation of Assured Water Supply application[8]. Staff recommends that WUGT file with Docket Control, as a compliance item in this same docket, a copy of ADWR's Designation of Assured Water Supply, stating that there is adequate water for the area being requested, by July 31, 2009 and/or a copy of Developer's Certificate of Assured Water Supply from the Developer in the requested area by July 31, 2009.

VI. Arizona Corporation Commission ("ACC") Compliance

According to the Utilities Division Compliance Section, WUGT has no delinquent ACC compliance issues.

VII. Other Issues

A. Arsenic

(a) Existing Systems

Arsenic levels in all existing systems except the Dixie system exceed the new arsenic standard of 10 μg/l. Therefore, WUGT must bring all four regulated systems[9] into compliance with new arsenic standard by December 31, 2007. MCESD has only issued an ATC for the arsenic removal plant for the WPE #6

[8] In Docket No.W-02450A-06-0626, WUGT indicated that the Company would be requesting a Designation of Assured Water Supply.

[9] Systems with arsenic levels above the new standard include the B&D/Buckeye Ranch system, Rose View system, Sunshine system, WPE #6 system, Tuft WPE #7 system and WPE #1 system. However, only B&D/Buckeye Ranch system, Rose View system, Sunshine system and WPE #6 system will be enforced new arsenic standards at present time.

system. Staff recommends the WUGT file with the Commission's Docket Control documents showing that the arsenic removal plans for the remaining systems (including point of use, blending and centralized treatment), have been approved by MCESD by December 31, 2007. Staff further recommends that the Company file by March 31, 2008, with the Commission's Docket Control, documents showing that all its existing systems are in compliance with the new arsenic standard.

(b) Proposed water system

WUGT states that an Arsenic Activated Alumina system followed by a granular ferric hydroxide ("GFH") will be installed as part of the proposed water system. The backwash water from the proposed treatment plant will be treated by a reverse osmosis unit to reduce the waste water volume before disposal. The final waste water will be disposed of in an on-site, lined, 0.6 acre evaporation pond. An Aquifer Protection Permit ("APP") will be required for this waste water disposal system. WUGT has stated that ADEQ will require a general APP for the new system, and WUGT should have its Notice of Intent ("NOI") within two months of submitting its APP application to ADEQ. Staff recommends that WUGT submit to the Commission's Docket Control a copy of the APP issued by ADEQ for the proposed treatment plant within eighteen months of the effective date of the final decision and order issued pursuant to this Application.

B. Curtailment Tariff

WUGT has an approved Curtailment Tariff that has been in effect since January 26, 2005.

C. Cross Connection/Backflow Tariff

WUGT does not have an approved Cross Connection/Backflow Tariff. Staff recommends that WUGT file its Cross Connection/Backflow Tariff with the Commission's Docket Control within 45 days of the effective date of the final decision and order issued pursuant to this Application for staff's review and certification.

Staff further recommends that the tariff shall generally conform to the sample tariff found on the Commission's web site at www.azcc.gov. Staff recognizes that the Company may need to make minor modifications according to their specific management, operational, and design requirements as necessary and appropriate.

D. Estimated Construction Cost

The Company's cost estimates are listed in the table below:

NARUC Account	Description	Company's cost estimate ($)
303	Land and Land Rights	15,611[1]
304	Structures & Improvements	432,750
307	Two wells (with production rate of 500 GPM per well)	654,545[2]
311	Pumping Equipment	865,500
320	Arsenic/fluoride treatment plant	652,713[4]
330	One 1-M gallon storage tank	341,575[3]
331	Transmission & Mains 22,261' of 8" pipes ($26.38/ft) 6,760' of 12" pipes ($37.13/ft) 3,155' of 16" pipes ($58.33/ft) 458' of 24" pipes ($148.95/ft)	 587,325 251,000 184,060 68,220
355	On-site generator	144,250
380	Wastewater treatment/disposal plant	261,818[5]
335	Fire Hydrants (65 units)	162,500
	Total	4,621,867

Note: 1. WUGT estimates a 0.918 acre site will be needed.
2. Reflects Company's estimate of the initial five year period expenditures to service the extension area. WUGT has estimated at build out it will cost $3,000,000 to serve the entire Balterra Development area and $1,309,091 to serve the extension area.
3. Reflects Company's estimate of the initial five year period expenditures to service the extension area. WUGT has estimated at build out it will cost $2,805,750 to serve the entire Balterra Development area and $1,224,327 to serve the extension area.
4. Reflects Company's estimate of the initial five year period expenditures to service the extension area. WUGT has estimated at build out it will cost $3,294,000 to serve the entire Balterra Development area and $1,437,381 to serve the extension area.
5. Reflects Company's estimate of the initial five year period expenditures to service the extension area. WUGT has estimated at build out it will cost $1,321,300 to serve the entire Balterra Development area and $576,576 to serve the extension area.

The Company estimated total cost is $4,621,867 to serve the extension area during the initial five year period. Staff concludes that the Company's estimates of the initial five year period expenditures are reasonable and appropriate for this project. However, approval of this CC&N application does not imply any particular future treatment for rate base. No "used and useful" determination of the proposed plant in service was made, and no conclusions should be inferred for future rate making or rate base purposes.

VIII. Summary

I. Conclusions

1. WUGT has no outstanding ACC compliance issues.

2. WUGT is in compliance with ADWR monitoring and reporting requirements.

3. MCESD has determined that all WUGT's regulated systems are delivering water that meets the water quality standards required by Arizona Administrative Code, Title 18, Chapter 4.

4. Staff concludes that the estimated costs of the new system are reasonable and appropriate for this project. The approval of this CC&N application does not imply any particular future treatment for rate base. No "used and useful" determination of the proposed plant in service was made, and no conclusions should be inferred for future rate making or rate base purposes.

5. Balterra Sewer Co. will be the sewer provider for the requested area.

II. Recommendations

1. Staff recommends that WUGT take action to correct the production and storage problem in the Dixie System. Staff further recommends that the Commission not approve any new Main Extension Agreements or CC&N extensions involving the Dixie System until WUGT demonstrates to Staff that it has corrected the inadequate storage and production problems.

2. Staff recommends that WUGT submit to the Commission's Docket Control Section a copy of the Certificates of Approval of Construction ("AOC") for water source/treatment plant/storage tanks and water distribution system for the proposed system issued by MCESD or ADEQ within two years of the effective date of the final decision and order issued pursuant to this Application.

3. Staff recommends that WUGT file with Docket Control, as a compliance item in this same docket, a copy of ADWR's Designation of Assured Water Supply stating that there is adequate water for the area being requested by July 31, 2009 and/or a copy of Developer's Certificate of Assured Water Supply from the Developer in the requested area by July 31, 2009.

4. Staff recommends the WUGT file with the Commission's Docket Control documents showing that the arsenic removal plans for the remaining systems

(including point of use, blending and centralized treatment), have been approved by MCESD by December 31, 2007. Staff further recommends that the Company file by March 31, 2008, with the Commission's Docket Control, documents showing that all its existing systems are in compliance with the new arsenic standard.

5. Staff recommends that WUGT file its Cross Connection/Backflow Tariff with the Commission's Docket Control within 45 days of the effective date of the final decision and order issued pursuant to this Application for staff's review and certification. Staff further recommends that the tariff shall generally conform to the sample tariff found on the Commission's web site at www.azcc.gov. Staff recognizes that the Company may need to make minor modifications according to their specific management, operational, and design requirements as necessary and appropriate.

6. Staff recommends that WUGT submit to the Commission's Docket Control Section a copy of its APP for the proposed arsenic treatment plant for the requested area issued by ADEQ pursuant to this Application within eighteen months of the effective date of the final decision and order issued pursuant to this Application.