

**BOA Meeting Agenda
Peculiar City Board of Aldermen
Worksession Meeting and Public Hearing
City Hall – 250 S. Main St
Monday, March 21, 2016 6:30 p.m.**

Notice is hereby given that the Board of Aldermen of the City of Peculiar will hold a regularly scheduled meeting on Monday, March 21, 2016 at 6:30 pm, in the Council Chambers at 250 S. Main St. Representatives of the news media may obtain copies of this notice by contacting the City Clerk at City Hall, 250 S. Main St Peculiar, MO 64078 or by calling 816-779-2221. All proposed Ordinances and Resolutions will be available for viewing prior to the meeting in the Council Chambers.

1. Call to Order
2. Pledge of Allegiance
3. Roll Call
4. City Clerk – Read the Board of Aldermen Statement
5. Consent Agenda –
 - A. Approval of the Draft Minutes of February 16, 2016 BOA Meeting. Meeting cancelled.
 - B. Approval of the Draft Minutes of March 7, 2016 Worksession Meeting.
6. Presentation – Government Finance Officers Association (GFOA) “Distinguished Budget Presentation Award” to the City of Peculiar for the fiscal year beginning October 28, 2015.

Presentation - “Certificate of Recognition for Budget Preparation” to Trudy Prickett, Business Office Manager.
7. Proclamation-Annual Start by Believing Day
8. New Business –
 - A. Resolution No. 2016-04 – A RESOLUTION OF THE BOARD OF ALDERMEN OF THE CITY OF PECULIAR, MISSOURI APPROVING THE FINANCIAL REPORT AND BUDGET AMENDMENT ENDING FEBRUARY 29, 2016 OF THE FISCAL YEAR 2015-2016.
 - B. Resolution No. 2016-05 - A RESOLUTION OF THE BOARD OF ALDERMEN OF THE CITY OF PECULIAR, MISSOURI APPROVING AUTHORIZATION FOR STREET LIGHT CHANGES CITY OF PECULIAR.
9. Topic for Discussion –
 - A. Value Engineering Study on Water Supply prepared by Burns & McDonnell Engineering Co., Inc. – City Engineer Carl Brooks
 - B. Financial Forecast & Water Tap Fee Study prepared by Burns & McDonnell Engineering Co., Inc. – City Engineer Carl Brooks
10. City Administrator Report
11. Aldermen Concerns
12. Aldermen Directives
13. Adjournment

**Board of Aldermen Regular Meeting Minutes
Tuesday, February 16, 2016**

**No Draft Minutes
of the
February 16, 2016 BOA Meeting.**

Meeting Cancelled

DRAFT

**Board of Aldermen Regular Meeting Minutes
Monday, March 7, 2016**

A regular work session meeting and public hearing of the Board of Aldermen of the City of Peculiar, Missouri, was held in the Council Chambers in City Hall at 6:30 p.m. on Monday, March 7, 2016. Mayor Holly Stark called the meeting to order and all who were present joined in reciting the Pledge of Allegiance.

The following Aldermen responded to roll call: Donald Turner, Matt Hammack, Jerry Ford, Veronika Ray, Pat Roberts and Kelsie McCrea was noted as excused absence.

City Staff present for the meeting were City Administrator Brad Ratliff, City Attorney Reid Holbrook, City Planner Cliff McDonald, Chief of Police Harry Gurin, City Engineer Carl Brooks and City Clerk Janet Burlingame.

City Clerk Janet Burlingame recited the Board of Alderman Statement.

Consent Agenda –

- A. No Draft Minutes of the January 19, 2016 BOA Meeting due to cancellation of the meeting.**
- B. Approval of the Draft Minutes of February 1, 2016 Worksession Meeting.**

Alderman Ford moved to accept the consent agenda as presented and seconded by Alderman Roberts, consent agenda was approved by a 5-0 roll call vote.

Alderman Ford	Aye	Alderman Ray	Aye
Alderman McCrea	Absent	Alderman Roberts	Aye
Alderman Hammack	Aye	Alderman Turner	Aye

Public Comment – Property Owner Charles Roper

City of Peculiar resident Charles Roper discussed the exterior finish requirements for an accessory building. Mr. Roper stated he was informed that any accessory building must be the same color as the house. He recently ordered a red barn type shed, which does not meet municipal code standards. Mr. Roper stated further, I do not agree with this requirement because, I do not live in a Home Owners Association. City Planner Cliff McDonald stated the code reads all accessory buildings must have the same type of exterior structure and finish as the principal dwelling. I consider paint as a finish applied to the structure. Discussion ensued amongst Mr. Roper, Mayor, Board of Aldermen, City Administrator and City Staff. Mr. McDonald requested to meet with Mr. Roper to discuss a resolution regarding this issue.

New Business –

- A. Resolution 2016-02 – A RESOLUTION OF THE BOARD OF ALDERMEN OF THE CITY OF PECULIAR, MISSOURI TO RECEIVE AND ACCEPT THE AUDIT FOR FISCAL YEAR 2014-2015, WHICH ENDED SEPTEMBER 30, 2015.**

Brandon Carlson of Troutt Beeman & Company addressed the Board regarding the annual City Audit for fiscal year 2014-2015, which ended September 30, 2015. He stated City Staff was very responsive and instrumental when working through the process. Mr. Carlson discussed many key issues included in the reports presented to the Board of Aldermen. The financial statements referred to present fairly, in all material respects. This is a “Clean Opinion” which is the highest opinion that can be given. Discussion ensued amongst Mayor, Board of Aldermen and City Administrator.

Alderman Roberts made a motion to adopt Resolution 2016-02. The motion was seconded by Alderman Ford and was accepted by a 5-0 roll call vote.

Alderman Ford	Aye	Alderman Ray	Aye
Alderman McCrea	Absent	Alderman Roberts	Aye
Alderman Hammack	Aye	Alderman Turner	Aye

- B. Resolution 2016-03 - A RESOLUTION OF THE BOARD OF ALDERMEN OF THE CITY OF PECULIAR, MISSOURI APPROVING THE DESIGN SELECTION OF THE CONCRETE SAFETY BARRIER AND ORNAMENTAL PEDESTRIAN FENCING FOR THE I-49 & PECULIAR WAY INTERCHANGE BRIDGE.**

City Engineer Carl Brooks explained the opportunity to add design options to the Concrete Safety Barrier and Ornamental Pedestrian Fencing at the I-49 & Peculiar Way Interchange Bridge. MoDot has put together five (5) bridge enhancement options, which are variations of adding the city name, form liners, coping, and stain on each side of the bridge. The decorative ornamental fence could potentially replace the currently proposed chain link fence. Mr. Brooks discussed in detail Option 1 thru 5, the ornamental pedestrian fencing and the change order amount increase for the various options being presented. Discussion ensued amongst the Mayor, Board of Aldermen, City Administrator and City Staff.

Alderman Ford made a motion to adopt Resolution 2016-03 approving Section 1 as Option 5 (Cast Stone Sign, detail C) and approving Section 2 as Option 2 (Merchants' Metal). The motion was seconded by Alderman Ray and was accepted by a 5-0 roll call vote.

Alderman Ford	Aye	Alderman Ray	Aye
Alderman McCrea	Absent	Alderman Roberts	Aye
Alderman Hammack	Aye	Alderman Turner	Aye

Topic for Discussion –

A. Capital Improvements Plan of the proposed projects in the MoDOT Traffic Engineering Assistance Program - City Engineer Carl Brooks

City Engineer Carl Brooks stated last year the City of Peculiar participated in a MoDOT Grant that reviewed Route C Intersections. In the MoDOT Traffic Engineering Assistance Program traffic study prepared by TranSystems on corridor Hwy C, there were Intermediate (Short Term) Improvements and Ultimate (Long Term) Improvements options presented. Mr. Brooks discussed many key issues regarding these recommendations. TranSystems is willing to assist with writing a grant for some of the improvements through the Mid America Regional Council (MARC) STP Program. City Administrator Brad Ratliff discussed the benefits of approving the STP 2019 & 2020 Projects right now. Key issues were explained regarding the differences in the Ultimate & Interim Improvements, in addition to the funding. Discussion ensued amongst the Mayor, Board of Aldermen, City Administrator and City Staff. The Board of Aldermen recommends the "Interim Plan" at this time.

B. Sewer Tap - City Engineer Carl Brooks

City Engineer Carl Brooks introduced Mr. Tom Nevins with George Butler Associates, Inc. and Mr. Carl Brown with Getting Great Rates. Mr. Nevins presented and discussed basic planning information that gave insight to wastewater customers, wastewater flows and wastewater capacity. In addition to the allocation of capital cost to customer categories. Mr. Brown discussed in great detail the "Sewer Tap Fee Analysis Report", highlighting the concept of meter size based tap-on fees for sewer systems, cost basis and recommendations for tap-on fees. Discussion ensued amongst Mayor, Board of Aldermen, City Administrator, City Engineer and Mr. Brown.

C. Emergency Management Services - Chief of Police Harry Gurin

Chief of Police Harry Gurin explained that May of 1998 an Ordinance was passed with an agreement between the City of Peculiar and West Peculiar Fire Protection District to have a joint Emergency Management Department with an Emergency Manager. A meeting was held on February 17, 2016 with City Administrator Brad Ratliff, Chief of Police Harry Gurin, West Peculiar Fire Protection District Board Member Dave Morris and Fire Chief Lewis Young regarding the desire of the Fire District to discontinue the Emergency Management Agreement. Mr. Morris proposed that the Fire District allow the City to take ownership of the weather warning sirens within the city limits of Peculiar and those sirens outside the city limits would be taken out of service. The rationale for discontinuing siren service in the county was explained, in part, by the age of the equipment, cost of maintenance and upkeep of the equipment, and the availability of electronic weather warning technology by hard line phones and smart phone weather applications. The fire district would like to accomplish this change by the beginning of the next fiscal year, October 1, 2016. Discussion ensued amongst the Mayor, Board of Aldermen, City Administrator and Chief of Police.

Aldermen Concerns

Alderman Turner asked about the procedure to have Town & Country Disposal pick up large items for the trash. Alderman Ray received a citizen concern regarding a car on Poplar Street using the front yard as a driveway and a parking lot. There is a car on Center Street that has a gas tank un-attached setting under it for the last 4 to 5 months. Alderman Roberts stated there is a couch and numerous other items that have been dumped in the 66 Acre Park. Alderman Ford mentioned the Police Advisory Board met and has identified the need for two additional officers for the Police Department. This due to the outgrowth of 211th Street / Peculiar Way expected later this year. The Police Advisory Board suggested a ¼ cent public safety sales tax to be brought to the voters. Over the weekend local volunteers did street cleanup on 211th Street. City Administrator Brad Ratliff will instruct Public Works to continue to clean up this area. Many complaints have been received at the J & C Highway Interchange regarding trash in the area. MoDOT has informed the City the intersection is available for the Adopt-A-Highway Program. Alderman Ford stated the majority of the trash is coming from the school campus and encourages area residents to contact their School Board Members to clean up the mess. Mr. Ratliff informed the Board of Aldermen that MoDOT has offered to install "No Parking" signs on the highway ramps.

Aldermen Directives

- Approve the Consent Agenda
- Public Comment on Shed Issue
- 2014-2015 Audit was approved and will be sent to State Auditor & Bond Holders
- Approved the MoDOT change order for Option 5 & Option 2 at I-49 & Peculiar Way
- Staff will submit the STP funding for the downtown corridor
- Board received a review of Tap Fee for Sewer
- Board updated on Emergency Management Services
- On Poplar Street abandoned car in front yard
- Couch in 66 Acre
- 211th Street has debris to be picked up by Public Works

Executive Session –

The City Attorney has requested a 30-minute Executive Session, per RSMo. 610.021(1)

Alderman Roberts made a motion to enter into executive session pursuant to RSMo 610.021(1) beginning at 9:10 p.m. for 30 minutes. Seconded by Alderman Ford and was approved by a 5-0 roll call vote.

Alderman Ford	Aye	Alderman Ray	Aye
Alderman McCrea	Absent	Alderman Roberts	Aye
Alderman Hammack	Aye	Alderman Turner	Aye

Alderman Roberts made a motion to exit executive session at 9:29 p.m. and reconvene regular session. Seconded by Alderman Ford and was approved by a 5-0 voice call vote.

Alderman Ford	Aye	Alderman Ray	Aye
Alderman McCrea	Absent	Alderman Roberts	Aye
Alderman Hammack	Aye	Alderman Turner	Aye

Adjournment -

On a motion from Alderman Ford, seconded from Alderman Roberts, the meeting was adjourned at 9:30 p.m. with a 5-0 voice vote. Regular work session minutes were taken and transcribed by Janet Burlingame, City Clerk.

Janet Burlingame, City Clerk



Government Finance Officers Association
203 North LaSalle Street, Suite 2700
Chicago, Illinois 60601-1210
312.977.9700 fax: 312.977.4806

February 19, 2016

Brad Ratliff
Business Office Manager
City of Peculiar
250 S. Main St.
Peculiar, MO 64078

Dear Mr. Ratliff:

A Panel of independent reviewers has completed its examination of your budget document. We are pleased to inform you that the panel has voted to award your budget document the Distinguished Budget Presentation Award for the current fiscal period. This award is the highest form of recognition in governmental budgeting. Its attainment represents a significant achievement by your organization.

The Distinguished Budget Presentation Award is valid for one year. To continue your participation in the program, it will be necessary to submit your next annual budget document to GFOA within 90 days of the proposed budget's submission to the legislature or within 90 days of the budget's final adoption. Enclosed is an application form to facilitate a timely submission. This form should be submitted with four copies of your budget accompanied by the appropriate fee.

Each program participant is provided with confidential comments and suggestions for possible improvements to the budget document. Your comments are enclosed. We urge you to carefully consider the suggestions offered by our reviewers as you prepare your next budget.

When a Distinguished Budget Presentation Award is granted to an entity, a Certificate of Recognition for Budget presentation is also presented to the individual or department designated as being primarily responsible for its having achieved the award. Enclosed is a Certificate of Recognition for Budget Preparation for:

Trudy Prickett, Business Office Manager

Continuing participants will find a certificate and brass medallion enclosed with these results. First-time recipients will receive an award plaque that will be mailed separately and should arrive within eight to ten weeks. Enclosed is a camera-ready reproduction of the award for inclusion in your next budget. If you reproduce the camera-ready in your next budget, it should be accompanied by a statement indicating continued compliance with program criteria.

The following standardized text should be used:



Government Finance Officers Association
203 North LaSalle Street, Suite 2700
Chicago, Illinois 60601-1210
312.977.9700 fax: 312.977.4806

Brad Ratliff
February 19, 2016
Page 2

The Government Finance Officers Association of the United States and Canada (GFOA) presented a Distinguished Budget Presentation Award to **City of Peculiar, Missouri** for its annual budget for the fiscal year beginning **October 28, 2015**. In order to receive this award, a governmental unit must publish a budget document that meets program criteria as a policy document, as an operations guide, as a financial plan, and as a communications device.

This award is valid for a period of one year only. We believe our current budget continues to conform to program requirements, and we are submitting it to GFOA to determine its eligibility for another award.

A press release is enclosed.

The Government Finance Officers Association encourages you to make arrangements for a formal presentation of the award. If you would like the award presented by a member of your state or provincial finance officers association, we can provide the name of a contact person for that group.

We appreciate your participation in this program and we sincerely hope that your example will encourage others in their efforts to achieve and maintain excellence in governmental budgeting. The most current list of award recipients (with hyperlinks) can be found on GFOA's website at www.gfoa.org. If we can be of further assistance, please contact the Technical Services Center.

Sincerely,

Stephen J. Gauthier, Director
Technical Services Center

Enclosure



Government Finance Officers Association
203 North LaSalle Street, Suite 2700
Chicago, Illinois 60601-1210
312.977.9700 fax: 312.977.4806

February 19, 2016

Brad Ratliff
Business Office Manager
City of Peculiar
250 S. Main Street
Peculiar, MO 64078

Dear Mr. Ratliff:

I am pleased to notify you that City of Peculiar, Missouri has received the Distinguished Budget Presentation Award for the current budget from the Government Finance Officers Association (GFOA). This award is the highest form of recognition in governmental budgeting and represents a significant achievement by your organization.

When a Distinguished Budget Presentation Award is granted to an entity, a Certificate of Recognition for Budget Presentation is also presented to the individual or department designated as being primarily responsible for its having achieved the award. This has been presented to:

Trudy Prickett, Business Office Manager

We hope you will arrange for a formal public presentation of the award, and that appropriate publicity will be given to this notable achievement. A press release is enclosed for your use.

We appreciate your participation in GFOA's Budget Awards Program. Through your example, we hope that other entities will be encouraged to achieve excellence in budgeting.

Sincerely,

Stephen J. Gauthier, Director
Technical Services Center

Enclosure



GOVERNMENT FINANCE OFFICERS ASSOCIATION

*Distinguished
Budget Presentation
Award*

PRESENTED TO

**City of Peculiar
Missouri**

For the Fiscal Year Beginning

October 28, 2015

Jeffrey R. Emer

Executive Director



**The Government Finance Officers Association
of the United States and Canada**

presents this

CERTIFICATE OF RECOGNITION FOR BUDGET PREPARATION

to

**Trudy Prickett, Business Office Manager
City of Peculiar, Missouri**



The Certificate of Recognition for Budget Preparation is presented by the Government Finance Officers Association to those individuals who have been instrumental in their government unit achieving a Distinguished Budget Presentation Award. The Distinguished Budget Presentation Award, which is the highest award in governmental budgeting, is presented to those government units whose budgets are judged to adhere to program standards.

Executive Director

Date

February 19, 2016



PROCLAMATION

Annual Start by Believing Day

***Whereas,** the City of Peculiar, Missouri shares a critical concern for victims of sexual violence and a desire to support their needs for justice and healing; and*

***Whereas,** during their lifetime 1 in 6 women and 1 in 33 men will be the victim of rape or attempted sexual assault;*

***Whereas,** current estimates suggest no more than 20 percent of sexual assaults will be reported to law enforcement and less than 3 percent will result in the conviction and incarceration of the perpetrator; and*

***Whereas,** research documents that victims are far more likely to disclose their sexual assault to a friend or family member, and when these loved ones respond with doubt, shame, or blame, victims suffer additional negative effects on their physical and psychological well-being; and*

***Whereas,** the Start by Believing public awareness campaign (a program of End Violence Against Women International) is designed to improve the responses of friends, family members, and community professionals, so they can help victims to access supportive resources and engage the criminal justice system;*

***Now Therefore, Be it Proclaimed** by me, Holly Stark, the Mayor of the City of Peculiar, Missouri that we support the **Metropolitan Organization to Counter Sexual Assault's** Start by Believing public awareness campaign and do hereby declare the first Wednesday of April each year to be "**Start by Believing Day**" throughout the City of Peculiar, Missouri.*

***IN WITNESS WHEREOF,** I have hereunto set my hand and caused the seal of the City of Peculiar to be affixed this _____ day of _____, 2016.*

Holly Stark, Mayor

March 16, 2016

Brad Ratliff, City Administrator
City of Peculiar, Missouri
250 S. Main
Peculiar, Missouri 64078

RE: 2015-2016 Mid-Year Budget Amendments

Dear Brad,

We have reviewed the attached Schedules of Budgetary Accounts along with the department's recommended amendments to the original 2015-2016 adopted budget. As part of our review we offer the following summary of staff's proposed changes to this original budget for discussion and adoption at a future Board of Alderman meeting. This summary highlights key items contained within the attached statements.

General Fund

Changes have been made in the General Fund as follows::

- 10-00-45000 Fines and Forfeitures. Decrease fines and forfeitures revenues as collections have decreased considerably from last year's budget estimation.
- 10-13-53100 Court training. Increase due to additional training required for new state court fine reporting criteria
- 10-18-90500 & 10-18-90510 Debt Expenditures. Adjust expenditure budgets to reflect interest versus principal payments. No net impact to the budget.
- 10-21-53100 & 10-21-58000 – Information Technology. Move expenditure budget to IT maintenance to cover additional maintenance costs.
- 10-21-58200 Software Expense. Added budget for purchase of PD computer and maintenance for charge codes in August. Added budget for body camera cloud storage.

Parks Fund

- 20-00-44300 Federal Grant. Added a line for the collection of the Land Water Conservation Fund grant of \$13,000. Funding will be used for Highline Trail park.
- 20-20-70000, 20-20-70100 & 20-20-80400 maintenance, mowing, and capital. Reduction in expenditures due to the lack of funding.
- 20-20-80400 capital – maintained funding for Highline Trail park playground (Funded by collections from federal grant above)

- 20-20-90100 & 20-20-90300 debt. Adjustments to properly reflect debt payments. No net impact.

Road & Street Fund

- 21-25-71100 Contract Maintenance. Added funding for parking surface at Highline Trail park.

Gas Tax Fund

- 22-00-40501 & 22-25-71520 Fuel Fee. Added line items to budget for collection of fuel fee for the remainder of the year.

Capital Improvement Fund

- 30-30-81000 & 51-51-83150 capital. Transfer cash and budget authority to sewer for storm water drainage issues.
- 30-30-81300 Monument sign. Added funding for parking and lighting at the monument sign. See attached CIP page update.
- 30-30-82200 Equipment. Added funding for parks privacy fence and unspent budget from 2014-2015 for the financial system upgrade for final payments.
- 30-30-89900 School Road. Add funding for right-of-way costs associated with school road. See attached CIP page update.
- 30-30-90100 & 30-30-90900 Capital Lease Pmts. Adjustments to properly reflect debt payments. No net impact.

Water Enterprise Fund

- 50-50-83000 Capital Purchases. Increase funding for windmill estates project.

Sewer Fund

- 51-51-54200 Postage. Increase funding for postage necessary for new water bills.
- 51-51-5880 & 51-5-73100 Internet & Lift Station Maintenance. Adjustments necessary for forsee costs.

Respectfully,

Allen, Gibbs & Houlik, L.C.



Benjamin O. Hart
Vice President



City of Peculiar, MO

Budget Comparison Report

Account Summary

Account Number	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Ori...	2015-2016 Amended	Increase / (Decrease)	
Fund: 10 - General Fund							
Revenue							
Division: 00 - NON DIVISIONAL							
10-00-40000	Property Tax	250,143.65	270,690.56	250,000.00	250,000.00	0.00	0.00%
10-00-40200	Sales Tax	409,617.17	431,480.93	165,375.21	417,809.00	417,809.00	0.00
10-00-40300	Use Tax	83,208.92	101,330.44	40,766.50	90,000.00	90,000.00	0.00
10-00-40400	Cigarette Tax	27,341.89	33,099.20	10,721.26	27,000.00	27,000.00	0.00
10-00-41000	Franchise Fees	384,262.38	378,181.53	131,579.00	388,104.62	388,104.62	0.00
10-00-42000	Business Licenses	16,756.50	15,417.00	16,015.00	17,000.00	17,000.00	0.00
10-00-42100	Liquor Licenses	4,026.35	2,772.50	3,015.00	3,500.00	3,500.00	0.00
10-00-42200	Special Use Permits	528.50	550.50	930.75	500.00	500.00	0.00
10-00-42300	Building-Zoning Permits	15,456.45	25,308.82	4,263.50	16,000.00	16,000.00	0.00
10-00-43000	City Services	8,042.58	1,396.10	55.00	1,500.00	1,500.00	0.00
10-00-43100	Animal Control	5,978.67	3,435.00	1,176.00	5,000.00	5,000.00	0.00
10-00-43200	Inspection Fees	884.65	883.00	1,454.00	1,000.00	1,000.00	0.00
10-00-43300	Police Reports	810.90	705.00	605.50	1,000.00	1,000.00	0.00
10-00-43400	SRO Services	45,459.16	31,920.00	16,692.00	48,000.00	48,000.00	0.00
10-00-44200	State Grants	0.00	0.00	0.00	0.00	0.00	0.00
10-00-44300	Federal Grants	0.00	9,623.00	0.00	0.00	0.00	0.00
10-00-45000	Fines & Forfeitures	256,435.58	171,540.48	75,334.51	265,000.00	177,000.00	-88,000.00
							-33.21%
Budget Notes							
Budget Code	Description						
2015-2016 Amended	Adjusted based on YTD collections						
10-00-45200	Police Training	0.00	1,594.64	0.00	0.00	0.00	0.00
10-00-46000	Interest Income	1,179.98	295.51	70.16	1,000.00	1,000.00	0.00
10-00-47000	Annex Rental	15,230.00	18,590.00	7,025.00	18,000.00	18,000.00	0.00
10-00-47110	Sale of Property	41,209.07	21,304.19	0.00	20,000.00	20,000.00	0.00
10-00-48000	Public Contributions	5,050.00	4,415.00	6,600.00	5,500.00	5,500.00	0.00
10-00-48010	Donated Assets	81,447.00	0.00	0.00	0.00	0.00	0.00
10-00-49000	Reimbursed Expense	32,662.77	26,020.22	7,174.37	30,000.00	30,000.00	0.00
10-00-49500	Transfers In	218,637.99	0.00	0.00	0.00	0.00	0.00

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
10-00-49900	Bond Proceeds	116,570.69	0.00	0.00	0.00	0.00	0.00	0.00%
Total Division: 00 - NON DIVISIONAL:		2,020,940.85	1,550,553.62	738,852.76	1,605,913.62	1,517,913.62	-88,000.00	-5.48%
Total Revenue:		2,020,940.85	1,550,553.62	738,852.76	1,605,913.62	1,517,913.62	-88,000.00	-5.48%
Expense								
Division: 10 - ELECTED OFFICIALS								
10-10-51000	Salaries & Wages	19,200.00	19,200.00	8,122.40	19,200.00	19,200.00	0.00	0.00%
10-10-52000	Payroll Taxes	1,468.80	1,468.80	489.60	1,526.40	1,526.40	0.00	0.00%
10-10-52405	Employee Awards	718.22	281.83	0.00	0.00	0.00	0.00	0.00%
10-10-53100	Travel & Training	9,023.26	59.30	0.00	2,800.00	2,800.00	0.00	0.00%
10-10-54000	Office Supplies	4,036.61	1,121.38	323.39	600.00	600.00	0.00	0.00%
10-10-55000	Newsletter	3,297.04	3,067.86	1,744.70	3,500.00	3,500.00	0.00	0.00%
10-10-55100	Holiday Expense	1,814.27	565.55	1,577.25	2,000.00	2,000.00	0.00	0.00%
10-10-56100	Accounting	4,618.16	6,494.15	2,184.20	4,500.00	4,500.00	0.00	0.00%
10-10-99000	Reserves	0.00	0.00	0.00	201,000.00	201,000.00	0.00	0.00%
Total Division: 10 - ELECTED OFFICIALS:		44,176.36	32,258.87	14,441.54	235,126.40	235,126.40	0.00	0.00%
Division: 11 - ADMINISTRATIVE								
10-11-51000	Admin/Finance-Salaries & Wage	113,846.85	53,517.38	34,184.62	64,751.13	64,751.13	0.00	0.00%
10-11-52000	Payroll Taxes	8,385.08	5,937.11	2,560.16	5,147.71	5,147.71	0.00	0.00%
10-11-52100	Benefits	45,985.21	21,516.28	27,649.72	30,877.30	30,877.30	0.00	0.00%
10-11-52200	Worker's Compensation	4,153.46	3,557.76	1,641.80	2,007.28	2,007.28	0.00	0.00%
10-11-52300	Employee Functions	88.04	3,250.46	5,771.57	5,000.00	5,000.00	0.00	0.00%
10-11-52400	Employee Rewards	0.00	1,472.33	1,065.00	2,500.00	2,500.00	0.00	0.00%
10-11-53100	Travel & Training	3,698.62	8,336.40	1,193.32	5,000.00	5,000.00	0.00	0.00%
10-11-53200	Employee Testing	73.37	205.00	168.00	500.00	500.00	0.00	0.00%
10-11-54000	Office Supplies	3,261.16	5,810.26	1,776.71	2,500.00	2,500.00	0.00	0.00%
10-11-54100	Dues & Subscriptions	4,502.87	6,027.20	4,723.60	5,000.00	5,000.00	0.00	0.00%
10-11-54200	Postage	1,866.96	645.22	513.96	1,800.00	1,800.00	0.00	0.00%
10-11-54300	Bankcard Fees	1,252.29	2,548.01	1,474.36	0.00	0.00	0.00	0.00%
10-11-54400	Office Machines	4,960.43	6,333.97	1,807.37	5,500.00	5,500.00	0.00	0.00%
10-11-55200	Promotional-Advertising	2,586.68	2,629.84	2,859.47	2,300.00	2,300.00	0.00	0.00%
10-11-55300	Election Expense	12,336.32	1,850.00	3,871.68	8,200.00	8,200.00	0.00	0.00%
10-11-55500	Website	1,500.00	404.73	0.00	1,000.00	1,000.00	0.00	0.00%
10-11-56000	Audit	4,645.00	6,100.00	0.00	10,000.00	10,000.00	0.00	0.00%
10-11-56100	Accounting	16,835.25	-1,156.50	3,461.30	27,000.00	27,000.00	0.00	0.00%
10-11-56200	Legal	62,315.74	45,378.00	32,142.27	65,000.00	65,000.00	0.00	0.00%
10-11-56300	Litigation	25,485.60	8,724.97	6,247.09	15,000.00	15,000.00	0.00	0.00%
10-11-56750	Liability Insurance	5,297.60	4,101.90	3,512.18	3,000.00	3,000.00	0.00	0.00%
10-11-56900	Employee Functions	4,533.86	1,489.85	24.94	0.00	0.00	0.00	0.00%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
10-11-57150	Contractual-Payroll	8,383.79	6,794.34	2,023.91	8,600.00	8,600.00	0.00	0.00%
10-11-57500	Contractual	1,826.65	1,006.99	653.98	1,500.00	1,500.00	0.00	0.00%
10-11-58000	IT Maintenance	9,139.17	11,962.56	700.15	0.00	0.00	0.00	0.00%
10-11-58800	Internet	0.00	312.61	0.00	0.00	0.00	0.00	0.00%
10-11-62100	Vehicle Maintenance	1,436.08	1,748.76	960.60	2,000.00	2,000.00	0.00	0.00%
10-11-62200	Fuel & Oil	2,445.89	2,338.77	654.20	3,000.00	3,000.00	0.00	0.00%
10-11-62700	Insurance	68.63	0.00	0.00	0.00	0.00	0.00	0.00%
10-11-80000	Capital Purchases	3,275.00	1,109.53	0.00	0.00	0.00	0.00	0.00%
Total Division: 11 - ADMINISTRATIVE:		354,185.60	213,953.73	141,641.96	277,183.42	277,183.42	0.00	0.00%
Division: 12 - LAW ENFORCEMENT								
10-12-51000	Law Enforcement-Salaries & Wa	452,147.10	454,054.56	207,009.77	488,258.00	488,258.00	0.00	0.00%
10-12-52000	Payroll Taxes	33,766.19	33,943.68	15,476.83	38,816.51	38,816.51	0.00	0.00%
10-12-52100	Benefits	160,236.99	173,454.12	74,826.19	168,157.24	168,157.24	0.00	0.00%
10-12-52200	Worker's Compensation	17,444.96	29,463.25	5,125.57	15,136.00	15,136.00	0.00	0.00%
10-12-53000	Uniforms	1,711.24	4,037.42	765.60	4,000.00	4,000.00	0.00	0.00%
10-12-53100	Travel & Training	50.04	4,938.75	1,045.52	2,500.00	2,500.00	0.00	0.00%
10-12-53200	Employee Testing	159.80	581.00	150.00	500.00	500.00	0.00	0.00%
10-12-54000	Office Supplies	1,848.07	2,231.94	1,157.93	2,500.00	2,500.00	0.00	0.00%
10-12-54100	Dues & Subscriptions	267.80	374.98	119.98	200.00	200.00	0.00	0.00%
10-12-54200	Postage	407.40	417.20	256.42	350.00	350.00	0.00	0.00%
10-12-54400	Office Machines	2,915.89	2,280.79	1,080.99	3,000.00	3,000.00	0.00	0.00%
10-12-55500	Website	197.33	0.00	0.00	500.00	500.00	0.00	0.00%
10-12-56100	Accounting	9,978.55	8,587.74	7,035.61	8,000.00	8,000.00	0.00	0.00%
10-12-56200	Legal	2,350.64	6,361.00	0.00	3,200.00	3,200.00	0.00	0.00%
10-12-56300	Litigation	4,112.50	0.00	0.00	5,500.00	5,500.00	0.00	0.00%
10-12-56750	Liability Insurance	7,279.01	1,819.75	1,126.15	7,500.00	7,500.00	0.00	0.00%
10-12-57500	Contractual	0.00	0.00	19.98	0.00	0.00	0.00	0.00%
10-12-58000	IT Maintenance	6,508.18	2,614.13	0.00	0.00	0.00	0.00	0.00%
10-12-58100	Hardware Expense	301.97	2,692.36	0.00	0.00	0.00	0.00	0.00%
10-12-58200	Software Expense	12,117.94	17,115.33	77.54	0.00	0.00	0.00	0.00%
10-12-58800	Internet	3,516.91	5,092.39	2,096.86	0.00	0.00	0.00	0.00%
10-12-60000	Dispatch Services	27,085.36	27,582.21	28,010.56	30,000.00	30,000.00	0.00	0.00%
10-12-60100	Jail Expense	2,190.00	1,685.00	335.00	2,000.00	2,000.00	0.00	0.00%
10-12-60200	Investigation Expense	921.58	3,523.02	2,010.47	6,000.00	6,000.00	0.00	0.00%
10-12-60300	Animal Control	18,066.75	18,073.25	7,573.25	18,000.00	18,000.00	0.00	0.00%
10-12-60700	Government Programs	865.87	0.00	0.00	0.00	0.00	0.00	0.00%
10-12-61300	Supplies	3,144.53	4,503.38	2,306.63	2,000.00	2,000.00	0.00	0.00%
10-12-62000	Vehicle Insurance	11,734.39	750.69	0.00	6,000.00	6,000.00	0.00	0.00%
10-12-62100	Vehicle Maintenance	3,555.57	3,875.84	3,525.64	6,000.00	6,000.00	0.00	0.00%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
10-12-62200	Fuel & Oil	21,915.24	18,574.34	5,382.58	24,000.00	24,000.00	0.00	0.00%
10-12-62500	Equipment Maintenance	1,176.03	1,019.00	1,245.85	3,000.00	3,000.00	0.00	0.00%
10-12-70300	Utilities	51.66	3,212.53	1,876.55	1,500.00	1,500.00	0.00	0.00%
10-12-80100	Capital Projects	68,347.00	0.00	0.00	0.00	0.00	0.00	0.00%
Total Division: 12 - LAW ENFORCEMENT:		876,372.49	832,859.65	369,637.47	846,617.75	846,617.75	0.00	0.00%
Division: 13 - COURT								
10-13-51000	Court-Salaries & Wages	35,137.39	36,065.63	14,134.60	35,022.38	35,022.38	0.00	0.00%
10-13-52000	Payroll Taxes	2,817.71	2,633.55	1,023.53	2,784.28	2,784.28	0.00	0.00%
10-13-52100	Benefits	13,458.14	7,561.76	3,290.73	16,476.09	16,476.09	0.00	0.00%
10-13-52200	Worker's Compensation	932.00	2,825.08	409.77	1,085.69	1,085.69	0.00	0.00%
10-13-53100	Travel & Training	1,541.46	470.52	825.00	1,150.00	1,900.00	750.00	65.22%
Budget Notes								
Budget Code		Description						
2015-2016 Amended		Travel for SB5 training						
10-13-53200	Employee Testing	3.11	0.00	0.00	100.00	100.00	0.00	0.00%
10-13-54000	Office Supplies	2,557.71	2,273.80	1,702.97	2,000.00	2,000.00	0.00	0.00%
10-13-54100	Dues & Subscriptions	90.00	652.96	75.00	160.00	160.00	0.00	0.00%
10-13-54200	Postage	367.56	130.06	44.98	200.00	200.00	0.00	0.00%
10-13-54300	Bankcard Fees	95.00	123.42	172.67	0.00	0.00	0.00	0.00%
10-13-54400	Office Machines	1,338.96	885.59	801.73	1,300.00	1,300.00	0.00	0.00%
10-13-56100	Accounting	776.38	3,593.20	723.12	780.00	780.00	0.00	0.00%
10-13-56200	Legal	840.00	0.00	0.00	850.00	850.00	0.00	0.00%
10-13-56400	Prosecutor	13,147.70	12,100.00	4,250.00	15,000.00	15,000.00	0.00	0.00%
10-13-56500	Judge	9,197.90	10,450.00	3,800.00	10,000.00	10,000.00	0.00	0.00%
10-13-58000	IT Maintenance	843.95	696.71	0.00	0.00	0.00	0.00	0.00%
10-13-58200	Software Expense	457.98	4,842.83	0.00	0.00	0.00	0.00	0.00%
10-13-58800	Internet	0.00	496.87	288.44	0.00	0.00	0.00	0.00%
10-13-60100	Jail Expense	4,983.25	4,050.00	585.00	5,000.00	5,000.00	0.00	0.00%
10-13-70300	Utilities	0.00	69.94	0.00	0.00	0.00	0.00	0.00%
Total Division: 13 - COURT:		88,586.20	89,921.92	32,127.54	91,908.44	92,658.44	750.00	0.82%
Division: 14 - PLANNING/CODES								
10-14-51000	Planning-Salaries & Wages	63,702.83	61,116.48	26,632.66	65,744.43	65,744.43	0.00	0.00%
10-14-52000	Payroll Taxes	4,750.18	4,825.76	2,020.56	5,226.68	5,226.68	0.00	0.00%
10-14-52100	Benefits	22,988.55	24,137.63	12,033.80	23,005.47	23,005.47	0.00	0.00%
10-14-52200	Worker's Compensation	986.06	4,410.30	835.23	2,038.08	2,038.08	0.00	0.00%
10-14-53000	Uniforms	636.03	67.13	115.00	700.00	700.00	0.00	0.00%
10-14-53100	Travel & Training	794.81	461.43	240.00	1,500.00	1,500.00	0.00	0.00%
10-14-53200	Employee Testing	6.24	0.00	56.00	100.00	100.00	0.00	0.00%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
10-14-54000	Office Supplies	648.47	1,128.73	135.89	1,000.00	1,000.00	0.00	0.00%
10-14-54100	Dues & Subscriptions	31.40	0.00	0.00	200.00	200.00	0.00	0.00%
10-14-54200	Postage	429.80	256.34	80.89	300.00	300.00	0.00	0.00%
10-14-54400	Office Machines	915.09	1,072.48	504.58	800.00	800.00	0.00	0.00%
10-14-55400	Public Hearing	2,426.86	1,958.30	507.06	3,000.00	3,000.00	0.00	0.00%
10-14-56100	Accounting	1,741.98	2,995.79	1,315.79	1,300.00	1,300.00	0.00	0.00%
10-14-56200	Legal	1,249.00	2,400.00	174.00	1,700.00	1,700.00	0.00	0.00%
10-14-56300	Litigation	1,970.22	981.08	0.00	2,000.00	2,000.00	0.00	0.00%
10-14-57000	Eco Dev Contractual	26,439.89	52,590.40	15,234.66	35,000.00	35,000.00	0.00	0.00%
10-14-57100	Contract Planning	10,611.18	8,337.76	875.62	5,500.00	7,000.00	1,500.00	27.27%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	Map updates							
10-14-58000	IT Maintenance	6,616.08	3,909.28	200.05	0.00	0.00	0.00	0.00%
10-14-58200	Software Expense	1,140.00	1,894.61	131.04	0.00	0.00	0.00	0.00%
10-14-58700	Communications	0.00	40.01	0.00	0.00	0.00	0.00	0.00%
10-14-60500	Inspection Expense	0.00	142.40	0.00	500.00	500.00	0.00	0.00%
10-14-60600	Property Clean Up	14,335.13	1,465.00	900.00	15,000.00	15,000.00	0.00	0.00%
10-14-62100	Vehicle Maintenance	20.12	476.00	0.00	25.00	25.00	0.00	0.00%
10-14-62200	Fuel & Oil	1,172.44	577.18	208.88	1,000.00	1,000.00	0.00	0.00%
Total Division: 14 - PLANNING/CODES:		163,612.36	175,244.09	62,201.71	165,639.66	167,139.66	1,500.00	0.91%
Division: 15 - EMERGENCY MANAGEMENT								
10-15-60400	Emerg Mgnmnt Cost	0.00	82.59	0.00	1,500.00	1,500.00	0.00	0.00%
Total Division: 15 - EMERGENCY MANAGEMENT:		0.00	82.59	0.00	1,500.00	1,500.00	0.00	0.00%
Division: 16 - PUBLIC WORKS								
10-16-51000	Public Works-Salaries & Wages	48,987.07	17,258.19	15,903.73	7,318.78	7,318.78	0.00	0.00%
10-16-52000	Payroll Taxes	3,313.99	2,723.17	1,159.07	581.84	581.84	0.00	0.00%
10-16-52100	Benefits	29,764.13	20,427.28	15,810.65	2,376.47	2,376.47	0.00	0.00%
10-16-52200	Worker's Compensation	2,431.14	4,262.17	1,760.52	226.88	226.88	0.00	0.00%
10-16-53000	Uniforms	1,553.81	1,858.16	596.95	2,100.00	2,100.00	0.00	0.00%
10-16-53100	Travel & Training	1,833.26	1,347.74	688.75	3,650.00	3,650.00	0.00	0.00%
10-16-53200	Employee Testing	374.46	405.00	288.50	600.00	600.00	0.00	0.00%
10-16-54000	Office Supplies	1,492.53	1,434.59	386.00	1,500.00	1,500.00	0.00	0.00%
10-16-54100	Dues & Subscriptions	1,320.88	1,423.00	380.00	700.00	700.00	0.00	0.00%
10-16-54400	Office Machines	3,365.85	3,429.82	1,344.46	2,500.00	2,500.00	0.00	0.00%
10-16-56100	Accounting	3,683.73	5,291.54	2,062.34	3,260.00	3,260.00	0.00	0.00%
10-16-56200	Legal	35.26	0.00	0.00	75.00	75.00	0.00	0.00%
10-16-56300	Litigation	4,712.50	0.00	0.00	50.00	50.00	0.00	0.00%

Budget Comparison Report

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					2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
10-16-56600	Engineering	583.46	0.00	3,953.99	5,000.00	5,000.00	0.00	0.00%
10-16-57500	Contractual	0.00	1,400.00	0.00	6,500.00	6,500.00	0.00	0.00%
10-16-58000	IT Maintenance	6,441.36	2,578.91	0.00	0.00	0.00	0.00	0.00%
10-16-58100	Hardware Expense	0.00	2,467.41	0.00	0.00	0.00	0.00	0.00%
10-16-58700	Communications	487.60	200.13	0.00	0.00	0.00	0.00	0.00%
10-16-58800	Internet	0.00	1,582.12	1,000.26	0.00	0.00	0.00	0.00%
10-16-61300	Supplies	2,750.27	1,853.76	1,031.91	3,000.00	3,000.00	0.00	0.00%
10-16-62000	Vehicle Insurance	3,082.98	969.19	0.00	3,000.00	3,000.00	0.00	0.00%
10-16-62100	Vehicle Maintenance	3,789.36	3,099.87	2,124.69	6,150.00	6,150.00	0.00	0.00%
10-16-62200	Fuel & Oil	9,299.19	7,439.45	1,991.81	10,200.00	10,200.00	0.00	0.00%
10-16-62500	Equipment Maintenance	3,825.56	2,138.94	167.34	3,000.00	3,000.00	0.00	0.00%
10-16-62600	Safety Equipment	948.91	517.73	11.99	1,300.00	1,300.00	0.00	0.00%
10-16-71010	Street Supplies & Materials	5,183.63	4,200.97	369.64	6,500.00	6,500.00	0.00	0.00%
10-16-82200	Equipment	9,825.00	0.00	0.00	0.00	0.00	0.00	0.00%
Total Division: 16 - PUBLIC WORKS:		149,085.93	88,309.14	51,032.60	69,588.97	69,588.97	0.00	0.00%
Division: 18 - FACILITIES								
10-18-52100	Benefits	0.00	586.85	0.00	0.00	0.00	0.00	0.00%
10-18-58000	IT Maintenance	1,863.57	913.86	0.00	0.00	0.00	0.00	0.00%
10-18-58100	Hardware Expense	7.56	219.41	0.00	0.00	0.00	0.00	0.00%
10-18-58500	Telephone	8,591.93	6,974.43	4,239.38	6,100.00	6,100.00	0.00	0.00%
10-18-58700	Communications	400.00	625.00	0.00	0.00	0.00	0.00	0.00%
10-18-61500	Administrative Building	17,241.02	9,288.15	227.40	0.00	0.00	0.00	0.00%
10-18-61600	Public Works Building	9,192.05	2,164.64	274.99	0.00	0.00	0.00	0.00%
10-18-61700	Annex Building	28,590.19	29,428.79	9,526.79	22,700.00	22,700.00	0.00	0.00%
10-18-90500	Debt Service Annex	136,226.21	15,011.89	6,413.92	18,938.00	15,575.32	-3,362.68	-17.76%
Budget Notes								
Budget Code		Description						
2015-2016 Amended		Move interest expense budget						
10-18-90510	Debt Service Interest	0.00	8,204.00	1,476.98	0.00	3,362.68	3,362.68	0.00%
Budget Notes								
Budget Code		Description						
2015-2016 Amended		Move interest expense budget						
10-18-90600	Debt Service City Hall	5,828.21	0.07	0.00	0.00	0.00	0.00	0.00%
10-18-96000	Transfers	92,683.49	50,893.27	12,261.20	45,885.00	45,885.00	0.00	0.00%
Total Division: 18 - FACILITIES:		300,624.23	124,310.36	34,420.66	93,623.00	93,623.00	0.00	0.00%
Division: 21 - Information Technology								
10-21-51000	IT Salaries	0.00	0.00	0.00	15,450.00	15,450.00	0.00	0.00%

Budget Comparison Report

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					2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
10-21-52000	Payroll Taxes	0.00	0.00	0.00	1,228.28	1,228.28	0.00	0.00%
10-21-52100	Benefits	0.00	0.00	0.00	8,006.52	8,006.52	0.00	0.00%
10-21-52200	Worker's Compensation	0.00	0.00	0.00	478.95	478.95	0.00	0.00%
10-21-53100	Travel & Training	0.00	0.00	0.00	2,000.00	0.00	-2,000.00	-100.00%
10-21-58000	IT Maintenance	0.00	0.00	10,796.83	21,500.00	23,500.00	2,000.00	9.30%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	Dptl Adjustment							
10-21-58100	Hardware Expense	0.00	0.00	2,002.79	8,700.00	8,700.00	0.00	0.00%
10-21-58200	Software Expense	0.00	0.00	17,451.33	24,500.00	37,500.00	13,000.00	53.06%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	\$1,000 PD computer for charge codes							
2015-2016 Amended	\$12,000 body camera cloud storage							
10-21-58700	Communications	0.00	0.00	0.00	1,420.00	1,420.00	0.00	0.00%
Total Division: 21 - Information Technology:		0.00	0.00	30,250.95	83,283.75	96,283.75	13,000.00	15.61%
Total Expense:		1,976,643.17	1,556,940.35	735,754.43	1,864,471.39	1,879,721.39	15,250.00	0.82%
Total Fund: 10 - General Fund:		44,297.68	-6,386.73	3,098.33	-258,557.77	-361,807.77	-103,250.00	39.93%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 20 - Park Fund								
Revenue								
Division: 00 - NON DIVISIONAL								
20-00-40200	Sales Tax	189,795.03	212,587.28	82,988.85	220,500.00	220,500.00	0.00	0.00%
20-00-42300	Building-Zoning Permits	4,207.00	14,924.61	2,400.00	4,500.00	4,500.00	0.00	0.00%
20-00-42400	Boating Permits	414.00	364.00	21.00	400.00	400.00	0.00	0.00%
20-00-44300	Federal Grants	0.00	0.00	0.00	0.00	13,000.00	13,000.00	0.00%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	Land water conservation fund							
20-00-46000	Interest Income	-16,706.33	103.78	34.95	500.00	500.00	0.00	0.00%
20-00-48100	Special Events	28,438.16	4.55	0.00	6,000.00	6,000.00	0.00	0.00%
20-00-49000	Reimbursed Expend	0.00	15,000.00	0.00	0.00	0.00	0.00	0.00%
20-00-49200	Recreation Programs	8,876.14	14,508.52	9,160.06	10,000.00	10,000.00	0.00	0.00%
20-00-49220	Donations & Sponsorships	2,090.00	388.00	0.00	1,000.00	1,000.00	0.00	0.00%
20-00-49230	Concessions	0.00	0.00	9.50	2,500.00	2,500.00	0.00	0.00%
20-00-49240	Shelter Rental	175.00	465.00	112.00	350.00	350.00	0.00	0.00%
20-00-49250	Other Permits	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
20-00-49500	Transfers In	0.00	85.00	0.00	0.00	0.00	0.00	0.00%
Total Division: 00 - NON DIVISIONAL:		217,289.00	258,430.74	94,726.36	245,750.00	258,750.00	13,000.00	5.29%
Total Revenue:		217,289.00	258,430.74	94,726.36	245,750.00	258,750.00	13,000.00	5.29%
Expense								
Division: 20 - PARK								
20-20-51000	Parks-Salaries & Wages	52,647.81	55,119.46	35,150.21	82,175.00	82,175.00	0.00	0.00%
20-20-52000	Payroll Taxes	3,532.62	3,782.08	2,568.91	6,532.91	6,532.91	0.00	0.00%
20-20-52100	Benefits	25,056.49	21,237.23	7,828.40	35,042.96	35,042.96	0.00	0.00%
20-20-52200	Worker's Compensation	347.45	2,592.60	440.41	2,547.43	2,547.43	0.00	0.00%
20-20-53200	Employee Testing	3.11	64.00	0.00	5.00	5.00	0.00	0.00%
20-20-54000	Office Supplies & Equipment	949.54	158.03	1,089.64	500.00	500.00	0.00	0.00%
20-20-54110	Dues & Memberships	909.97	755.00	0.00	800.00	800.00	0.00	0.00%
20-20-54300	Bankcard Fees	1,038.69	1,320.66	114.25	0.00	0.00	0.00	0.00%
20-20-54400	Office Machines	976.24	1,838.19	764.59	400.00	400.00	0.00	0.00%
20-20-55150	Trees & Parks Beautification	1,455.13	8,694.90	2,260.82	9,216.00	9,216.00	0.00	0.00%
20-20-56000	Audit	200.00	200.00	0.00	200.00	200.00	0.00	0.00%
20-20-56100	Accounting	1,370.89	3,011.73	826.84	1,100.00	1,100.00	0.00	0.00%
20-20-56200	Legal	4,206.08	81,998.66	9,331.77	15,000.00	15,000.00	0.00	0.00%
20-20-56750	Liability Insurance	158.93	0.00	62.88	0.00	0.00	0.00	0.00%
20-20-57150	Contractual-Payroll	19.99	375.00	0.00	0.00	0.00	0.00	0.00%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
20-20-58000	IT Maintenance	1,452.31	1,663.28	0.00	1,000.00	1,000.00	0.00	0.00%
20-20-61300	Supplies	175.45	316.44	0.99	300.00	300.00	0.00	0.00%
20-20-61500	Administrative Building	4,712.31	0.00	0.00	0.00	0.00	0.00	0.00%
20-20-62000	Vehicle Insurance	268.37	50.00	0.00	600.00	600.00	0.00	0.00%
20-20-62100	Vehicle Maintenance	521.06	1,945.19	403.50	500.00	500.00	0.00	0.00%
20-20-62200	Fuel & Oil	1,186.31	1,093.38	1,010.96	1,200.00	1,200.00	0.00	0.00%
20-20-70000	Park Maintenance	29,934.32	25,373.30	14,278.10	29,400.00	22,400.00	-7,000.00	-23.81%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	Decrease - lack of funding							
20-20-70100	Mowing & Landscaping	17,483.81	25,920.04	5,983.97	20,000.00	14,000.00	-6,000.00	-30.00%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	Decrease lack of funding							
20-20-70300	Utilities	5,697.75	2,794.17	1,028.32	5,000.00	5,000.00	0.00	0.00%
20-20-72500	Restrooms	2,228.41	2,242.79	921.09	3,000.00	3,000.00	0.00	0.00%
20-20-80400	Capital Purchases	35,703.54	74,691.33	175,000.00	230,316.00	189,000.00	-41,316.00	-17.94%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	\$14,000 for highline trail park playground							
2015-2016 Amended	Decrease due to lack of funding							
20-20-90000	Debt Service Principal	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00%
20-20-90100	Debt Service	7,200.36	7,200.36	318.75	22,949.00	7,200.00	-15,749.00	-68.63%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	Split princ & int							
20-20-90200	Debt Service Bond Fees	0.00	0.00	195.94	0.00	250.00	250.00	0.00%
20-20-90300	Debt Service Interest	0.00	9,796.00	6,475.46	0.00	10,500.00	10,500.00	0.00%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	Split princ & int							
20-20-95000	Special Events	26,121.46	0.00	0.00	0.00	0.00	0.00	0.00%
20-20-95100	Concessions	252.58	0.00	419.65	1,800.00	1,800.00	0.00	0.00%
20-20-95110	Park Tools & Equipment	105.89	3,852.05	1,088.73	2,500.00	2,500.00	0.00	0.00%
20-20-95120	Recreation Program Tools & Equ	188.13	2,827.75	2,007.88	2,500.00	2,500.00	0.00	0.00%
20-20-95130	Staff Uniforms	199.27	0.00	653.98	500.00	500.00	0.00	0.00%

Budget Comparison Report

Account Number	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
20-20-95150 Educational Training	1,652.99	225.00	0.00	0.00	0.00	0.00	0.00%
20-20-95170 Donations	350.00	0.00	0.00	0.00	0.00	0.00	0.00%
20-20-95190 Recreational Program Expenses	10,313.90	14,272.28	5,109.74	14,200.00	14,200.00	0.00	0.00%
20-20-95200 Trail Maintenance	0.00	1,306.53	846.59	1,500.00	1,500.00	0.00	0.00%
20-20-96000 Transfers	0.00	7,084.96	6,997.31	7,000.00	7,000.00	0.00	0.00%
Total Division: 20 - PARK:	238,621.16	363,802.39	290,379.68	497,784.30	438,469.30	-59,315.00	-11.92%
Total Expense:	238,621.16	363,802.39	290,379.68	497,784.30	438,469.30	-59,315.00	-11.92%
Total Fund: 20 - Park Fund:	-21,332.16	-105,371.65	-195,653.32	-252,034.30	-179,719.30	72,315.00	-28.69%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 21 - Road & Street Fund								
Revenue								
Division: 00 - NON DIVISIONAL								
21-00-40200	Sales Tax	240,532.89	223,098.41	82,588.00	235,000.00	235,000.00	0.00	0.00%
21-00-42300	Building-Zoning Permits	0.00	0.00	0.00	600.00	600.00	0.00	0.00%
21-00-44000	County Road & Bridge	0.00	53,731.00	0.00	50,000.00	50,000.00	0.00	0.00%
21-00-44100	Road Projects	28,883.09	0.00	0.00	35,000.00	35,000.00	0.00	0.00%
Total Division: 00 - NON DIVISIONAL:		269,415.98	276,829.41	82,588.00	320,600.00	320,600.00	0.00	0.00%
Total Revenue:		269,415.98	276,829.41	82,588.00	320,600.00	320,600.00	0.00	0.00%
Expense								
Division: 25 - ROAD AND STREET								
21-25-51000	Road & Street Salaries & Wages	58,960.97	83,929.26	29,932.63	69,373.40	69,373.40	0.00	0.00%
21-25-51100	Snow Wages	1,711.26	0.00	0.00	5,800.00	5,800.00	0.00	0.00%
21-25-52000	Payroll Taxes	5,502.77	5,876.35	2,206.46	5,515.19	5,515.19	0.00	0.00%
21-25-52100	Benefits	18,797.72	27,981.08	4,242.36	36,779.55	36,779.55	0.00	0.00%
21-25-52200	Worker's Compensation	1,017.68	2,309.11	0.00	2,150.58	2,150.58	0.00	0.00%
21-25-56600	Engineering	1,525.38	8,646.01	0.00	10,000.00	10,000.00	0.00	0.00%
21-25-62500	Equipment Maintenance	353.04	869.58	620.54	1,000.00	1,000.00	0.00	0.00%
21-25-71000	Supplies & Materials	17,022.96	10,858.04	11,309.65	20,000.00	20,000.00	0.00	0.00%
21-25-71100	Contract Maintenance	12,555.12	7,356.25	1,315.00	17,600.00	37,600.00	20,000.00	113.64%
Budget Notes								
Budget Code		Description						
2015-2016 Amended		add \$20,000 for highline trail parking surface						
21-25-71200	Sidewalk-Curb Maintenance	121.49	0.00	0.00	10,000.00	10,000.00	0.00	0.00%
21-25-71300	County Grant Expense	57,934.96	0.00	0.00	0.00	0.00	0.00	0.00%
21-25-71400	State Grant Expense	2,065.04	0.00	0.00	0.00	0.00	0.00	0.00%
21-25-71500	Street Lights	60,186.04	57,144.87	23,494.81	57,000.00	57,000.00	0.00	0.00%
21-25-71600	Storm Water	0.00	1,040.60	15.00	2,500.00	2,500.00	0.00	0.00%
21-25-96000	Transfers	0.00	0.00	0.00	66,000.00	66,000.00	0.00	0.00%
Total Division: 25 - ROAD AND STREET:		237,754.43	206,011.15	73,136.45	303,718.72	323,718.72	20,000.00	6.59%
Total Expense:		237,754.43	206,011.15	73,136.45	303,718.72	323,718.72	20,000.00	6.59%
Total Fund: 21 - Road & Street Fund:		31,661.55	70,818.26	9,451.55	16,881.28	-3,118.72	-20,000.00	-118.47%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 22 - Gasoline Tax Fund								
Revenue								
Division: 00 - NON DIVISIONAL								
22-00-40500	Gasoline Tax	117,772.72	122,214.31	54,656.33	116,000.00	116,000.00	0.00	0.00%
22-00-40501	Fuel Fee	0.00	0.00	8,482.02	0.00	70,000.00	70,000.00	0.00%
Budget Notes								
Budget Code		Description						
2015-2016 Amended		Partial Year: Fuel fee in 2015-2016						
22-00-40600	Motor Vehicle Tax	54,967.90	57,391.84	19,824.14	45,900.00	45,900.00	0.00	0.00%
Total Division: 00 - NON DIVISIONAL:		172,740.62	179,606.15	82,962.49	161,900.00	231,900.00	70,000.00	43.24%
Total Revenue:		172,740.62	179,606.15	82,962.49	161,900.00	231,900.00	70,000.00	43.24%
Expense								
Division: 25 - ROAD AND STREET								
22-25-51000	Gas Tax Fund-Salaries & Wages	51,084.53	68,807.01	20,893.30	38,779.93	38,779.93	0.00	0.00%
22-25-51100	Snow Wages	4,699.24	744.02	360.50	7,500.00	7,500.00	0.00	0.00%
22-25-52000	Payroll Taxes	3,838.14	4,603.59	1,585.54	3,083.00	3,083.00	0.00	0.00%
22-25-52100	Benefits	21,873.71	29,887.60	4,898.44	18,209.35	18,209.35	0.00	0.00%
22-25-52200	Worker's Compensation	1,017.68	2,309.11	0.00	1,202.18	1,202.18	0.00	0.00%
22-25-62100	Vehicle Maintenance	988.57	0.00	121.83	1,276.00	1,276.00	0.00	0.00%
22-25-62500	Equipment Maintenance	2,769.69	1,360.85	1,338.55	6,700.00	6,700.00	0.00	0.00%
22-25-71000	Supplies & Materials	6,861.22	386.90	2,853.29	4,000.00	4,000.00	0.00	0.00%
22-25-71100	Contract Maintenance	0.00	0.00	0.00	2,680.00	2,680.00	0.00	0.00%
22-25-71500	Street Lights	60,227.62	57,144.84	23,494.79	60,000.00	60,000.00	0.00	0.00%
22-25-71510	Street Sweeping	0.00	0.00	0.00	12,000.00	12,000.00	0.00	0.00%
22-25-71520	Fuel Fee - Streets	0.00	0.00	0.00	0.00	70,000.00	70,000.00	0.00%
Budget Notes								
Budget Code		Description						
2015-2016 Amended		Partial Year: Fuel fee in 2015-2016						
22-25-98000	Restricted Reserves	0.00	0.00	0.00	10,000.00	10,000.00	0.00	0.00%
Total Division: 25 - ROAD AND STREET:		153,360.40	165,243.92	55,546.24	165,430.46	235,430.46	70,000.00	42.31%
Total Expense:		153,360.40	165,243.92	55,546.24	165,430.46	235,430.46	70,000.00	42.31%
Total Fund: 22 - Gasoline Tax Fund:		19,380.22	14,362.23	27,416.25	-3,530.46	-3,530.46	0.00	0.00%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 30 - Capital Projects Fund								
Revenue								
Division: 00 - NON DIVISIONAL								
30-00-40200	Sales Tax	204,855.89	212,587.77	82,587.89	216,000.87	216,000.87	0.00	0.00%
30-00-44300	Federal Grants	0.00	0.00	0.00	90,000.00	90,000.00	0.00	0.00%
30-00-44500	State Grants	0.00	0.00	41,220.00	70,000.00	70,000.00	0.00	0.00%
30-00-46000	Interest Income	208.59	80.31	0.00	500.00	500.00	0.00	0.00%
30-00-49500	Transfers In	0.00	80,150.00	55,600.00	254,625.00	254,625.00	0.00	0.00%
30-00-49900	Bond Proceeds	152,445.00	836,839.97	0.00	0.00	0.00	0.00	0.00%
Total Division: 00 - NON DIVISIONAL:		357,509.48	1,129,658.05	179,407.89	631,125.87	631,125.87	0.00	0.00%
Total Revenue:		357,509.48	1,129,658.05	179,407.89	631,125.87	631,125.87	0.00	0.00%
Expense								
Division: 30 - CAPITAL PROJECTS								
30-30-56600	Engineering-Utility	0.00	853.00	0.00	25,000.00	25,000.00	0.00	0.00%
30-30-56800	Board Discretion	0.00	0.00	0.00	26,000.00	26,000.00	0.00	0.00%
30-30-81000	Streets	137,977.05	240,937.62	27,497.08	340,780.00	328,280.00	-12,500.00	-3.67%
Budget Notes								
Budget Code		Description						
2015-2016 Amended		Transfer funding for stormwater drainage issues.						
30-30-81200	Sidewalks	0.00	5,406.68	9,873.89	287,120.00	287,120.00	0.00	0.00%
30-30-81300	Monument Sign	4,416.63	6,700.97	102,393.72	115,000.00	161,000.00	46,000.00	40.00%
Budget Notes								
Budget Code		Description						
2015-2016 Amended		\$22,000 monument sign parking						
2015-2016 Amended		\$24,000 monument sign lighting						
30-30-82000	Buildings	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
30-30-82100	Vehicle Replacement Program	182,242.80	192,720.30	2,808.08	0.00	0.00	0.00	0.00%
30-30-82200	Equipment	10,112.04	90,125.97	85,319.68	93,200.00	220,200.00	127,000.00	136.27%
Budget Notes								
Budget Code		Description						
2015-2016 Amended		Privacy fence - parks \$2,000						
2015-2016 Amended		Roll over funds from PY for Incode system pmts						
30-30-82500	City Hall	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
30-30-89900	School Road Project	0.00	0.00	0.00	0.00	35,000.00	35,000.00	0.00%

Budget Comparison Report

Account Number	Budget Notes	Budget Code	Description	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
							2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
			School road ROW costs							
30-30-90000			Debt Service Princpal	0.00	29,344.00	22,934.08	0.00	65,000.00	65,000.00	0.00%
			Split princ & int.							
30-30-90100			Debt Service Interest	0.00	7,924.00	3,036.47	0.00	8,000.00	8,000.00	0.00%
			Split princ & int.							
30-30-90800			Capital Lease	0.00	-3,750.00	0.00	0.00	0.00	0.00	0.00%
30-30-90900			Debt Service Vehicle Lease	0.00	20,010.40	0.00	66,000.00	0.00	-66,000.00	-100.00%
			Split princ & int.							
30-30-96000			Transfers	0.00	20,984.84	0.00	5,100.00	17,600.00	12,500.00	245.10%
			Transfer funding for stormwater drainage issues.							
Total Division: 30 - CAPITAL PROJECTS:				334,748.52	611,257.78	253,863.00	958,200.00	1,173,200.00	215,000.00	22.44%
Total Expense:				334,748.52	611,257.78	253,863.00	958,200.00	1,173,200.00	215,000.00	22.44%
Total Fund: 30 - Capital Projects Fund:				22,760.96	518,400.27	-74,455.11	-327,074.13	-542,074.13	-215,000.00	65.73%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 50 - Enterprise-Water Fund								
Revenue								
Division: 00 - NON DIVISIONAL								
50-00-41100	Water Sales	1,139,170.82	1,289,695.90	534,862.40	1,491,375.34	1,491,375.34	0.00	0.00%
50-00-41500	Utility Collections	56.67	3,737.73	0.00	0.00	0.00	0.00	0.00%
50-00-43500	Water Connection Fees	8,932.55	21,002.95	5,515.64	10,000.00	10,000.00	0.00	0.00%
50-00-46000	Interest Income	73,550.00	49,368.02	41,233.05	60,000.00	60,000.00	0.00	0.00%
50-00-46100	Penalties	28,620.42	24,696.28	10,680.18	24,000.00	24,000.00	0.00	0.00%
50-00-47200	Tower Rental	22,264.79	22,988.16	11,742.96	21,664.00	21,664.00	0.00	0.00%
50-00-48010	Donated Assets	19,650.00	0.00	0.00	0.00	0.00	0.00	0.00%
50-00-49000	Reimbursed Expense	37,988.95	11,331.13	174.31	3,000.00	3,000.00	0.00	0.00%
50-00-49505	Transfers In-Water	85,714.00	62,703.00	63,759.38	0.00	0.00	0.00	0.00%
50-00-49600	G.O. Principal	53,884.38	0.00	0.00	68,510.00	68,510.00	0.00	0.00%
Total Division: 00 - NON DIVISIONAL:		1,469,832.58	1,485,523.17	667,967.92	1,678,549.34	1,678,549.34	0.00	0.00%
Total Revenue:		1,469,832.58	1,485,523.17	667,967.92	1,678,549.34	1,678,549.34	0.00	0.00%
Expense								
Division: 50 - WATER								
50-50-50000	Water Purchases	409,318.05	407,698.50	192,848.13	513,661.00	513,661.00	0.00	0.00%
50-50-51000	Water-Salaries & Wages	194,749.06	238,601.68	92,247.42	263,007.31	263,007.31	0.00	0.00%
50-50-52000	Payroll Taxes	13,239.21	16,198.88	6,877.38	20,909.08	20,909.08	0.00	0.00%
50-50-52100	Benefits	76,579.66	90,307.05	32,753.03	124,912.18	124,912.18	0.00	0.00%
50-50-52200	Worker's Compensation	5,752.47	26,986.96	7,198.94	8,153.23	8,153.23	0.00	0.00%
50-50-52400	Employee Rewards	0.00	164.05	0.00	2,000.00	2,000.00	0.00	0.00%
50-50-53000	Uniforms	1,238.56	27,068.65	753.38	2,275.00	2,275.00	0.00	0.00%
50-50-53100	Travel & Training	1,409.87	2,640.16	877.41	2,240.00	2,240.00	0.00	0.00%
50-50-53200	Employee Testing	291.71	312.00	176.50	420.00	420.00	0.00	0.00%
50-50-54000	Office Supplies	1,871.04	2,530.35	2,255.67	4,100.00	4,100.00	0.00	0.00%
50-50-54100	Dues & Subscriptions	1,648.80	2,094.60	1,462.33	1,970.00	1,970.00	0.00	0.00%
50-50-54200	Postage	3,211.74	3,456.23	1,849.79	3,750.00	3,750.00	0.00	0.00%
50-50-54300	Bankcard Fees	14,014.86	6,534.76	559.34	0.00	0.00	0.00	0.00%
50-50-54400	Office Machines	4,972.25	4,627.05	2,119.71	5,500.00	5,500.00	0.00	0.00%
50-50-55400	Public Hearing	0.00	0.00	0.00	500.00	500.00	0.00	0.00%
50-50-56000	Audit	3,100.00	4,600.00	0.00	3,100.00	3,100.00	0.00	0.00%
50-50-56100	Accounting	17,705.03	36,234.37	12,418.83	18,400.00	18,400.00	0.00	0.00%
50-50-56200	Legal	2,049.63	15,915.75	199.72	5,500.00	5,500.00	0.00	0.00%
50-50-56300	Litigation	318.75	20,403.25	0.00	2,200.00	2,200.00	0.00	0.00%
50-50-56600	Engineering	43,000.00	415.00	0.00	10,000.00	10,000.00	0.00	0.00%
50-50-56750	Liability Insurance	5,823.21	1,505.80	1,424.86	6,000.00	6,000.00	0.00	0.00%
50-50-57000	Eco Dev Contractual	4,172.00	25,702.78	14,193.05	50,000.00	50,000.00	0.00	0.00%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
50-50-57150	Contractual-Payroll	437.01	518.88	0.00	2,000.00	2,000.00	0.00	0.00%
50-50-57200	Water Contractual	20,650.98	26,674.62	7,962.81	24,500.00	24,500.00	0.00	0.00%
50-50-58000	IT Maintenance	7,078.55	3,525.89	473.39	3,300.00	3,300.00	0.00	0.00%
50-50-58100	Hardware Expense	1,500.00	2,302.31	4,751.92	12,500.00	12,500.00	0.00	0.00%
50-50-58200	Software Expense	2,108.84	7,520.33	5,546.44	5,600.00	5,600.00	0.00	0.00%
50-50-58500	Telephone	1,429.50	1,352.82	770.29	2,000.00	2,000.00	0.00	0.00%
50-50-58700	Communications	0.00	120.07	0.00	180.00	180.00	0.00	0.00%
50-50-61300	Supplies	3,847.29	2,409.70	763.06	2,000.00	2,000.00	0.00	0.00%
50-50-61500	Administrative Building	5,451.47	92.50	0.00	0.00	0.00	0.00	0.00%
50-50-61600	Public Works Building	4,052.64	1,809.32	0.00	0.00	0.00	0.00	0.00%
50-50-62000	Vehicle Insurance	2,438.24	618.48	0.00	2,500.00	2,500.00	0.00	0.00%
50-50-62100	Vehicle Maintenance	549.50	3,550.01	113.72	4,000.00	4,000.00	0.00	0.00%
50-50-62200	Fuel & Oil	7,043.55	4,266.04	929.92	6,000.00	6,000.00	0.00	0.00%
50-50-62600	Safety Equipment	887.47	187.47	0.00	8,300.00	8,300.00	0.00	0.00%
50-50-72000	Pump-Line Maintenance	14,821.97	17,318.52	4,141.53	19,700.00	19,700.00	0.00	0.00%
50-50-72100	Tower Maintenance	94.26	0.00	0.00	5,000.00	5,000.00	0.00	0.00%
50-50-72200	Meter Maintenance	6,541.09	3,524.25	154.11	9,390.00	9,390.00	0.00	0.00%
50-50-72500	Utilities	3,831.57	8,680.51	2,537.03	5,000.00	5,000.00	0.00	0.00%
50-50-82200	Equipment	0.00	0.00	470.17	30,000.00	30,000.00	0.00	0.00%
50-50-83000	Water Capital Purchases	-10,957.26	33,549.57	46,928.23	159,000.00	164,000.00	5,000.00	3.14%
Budget Notes								
Budget Code		Description						
2015-2016 Amended		\$15,000 - windmill estates						
50-50-83200	CIP Water	0.00	0.42	0.00	0.00	0.00	0.00	0.00%
50-50-85000	Depreciation	189,244.22	189,763.00	0.00	200,000.00	200,000.00	0.00	0.00%
50-50-90100	Debt Service Interest	127,343.34	171,114.88	76,830.40	80,540.00	80,540.00	0.00	0.00%
50-50-90200	Debt Service Bond Fees	7,638.39	26,567.82	4,081.16	5,000.00	5,000.00	0.00	0.00%
50-50-90205	Amortization Expense	0.00	-278.00	0.00	0.00	0.00	0.00	0.00%
50-50-90400	Ground Storage Tank	0.00	-0.46	0.00	0.00	0.00	0.00	0.00%
50-50-90600	Debt Service City Hall	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
50-50-96000	Transfers	138,422.49	306,083.27	1,081,629.71	77,826.00	77,826.00	0.00	0.00%
50-50-97000	CIP Water Debt Service	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
Total Division: 50 - WATER:		1,338,921.01	1,745,270.09	1,608,299.38	1,712,933.80	1,717,933.80	5,000.00	0.29%
Total Expense:		1,338,921.01	1,745,270.09	1,608,299.38	1,712,933.80	1,717,933.80	5,000.00	0.29%
Total Fund: 50 - Enterprise-Water Fund:		130,911.57	-259,746.92	-940,331.46	-34,384.46	-39,384.46	-5,000.00	14.54%

Budget Comparison Report

Account Number	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%	
				2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)		
Fund: 51 - Enterprise-Sewer Fund								
Revenue								
Division: 00 - NON DIVISIONAL								
51-00-41200	Sewer Fees	873,575.55	906,247.13	397,377.45	970,337.20	970,337.20	0.00	0.00%
51-00-41400	Bond Fees	0.00	272,043.92	114,567.92	265,000.00	265,000.00	0.00	0.00%
51-00-42600	Sewer Connection Fees	11,126.05	42,891.20	3,431.22	20,000.00	20,000.00	0.00	0.00%
51-00-43600	Storm Water Connection Fees	600.00	7,800.00	2,700.00	4,000.00	4,000.00	0.00	0.00%
51-00-44300	Federal Grants	0.00	15,326.00	0.00	0.00	0.00	0.00	0.00%
51-00-46000	Interest Income	402.57	64.15	78.04	24,958.00	24,958.00	0.00	0.00%
51-00-46100	Penalties	30,346.78	24,767.21	5,521.26	26,857.00	26,857.00	0.00	0.00%
51-00-48010	Donated Assets	9,825.00	0.00	0.00	0.00	0.00	0.00	0.00%
51-00-49000	Reimbursed Expense	-35.02	6.47	1,493.93	0.00	0.00	0.00	0.00%
51-00-49500	Transfers In	0.00	0.00	0.00	0.00	12,500.00	12,500.00	0.00%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	Transfer from CIP for stromwater drainage.							
51-00-49505	Transfers In-Water	53,884.38	325,936.00	72,500.38	68,510.00	68,510.00	0.00	0.00%
Total Division: 00 - NON DIVISIONAL:		979,725.31	1,595,082.08	597,670.20	1,379,662.20	1,392,162.20	12,500.00	0.91%
Total Revenue:		979,725.31	1,595,082.08	597,670.20	1,379,662.20	1,392,162.20	12,500.00	0.91%
Expense								
Division: 51 - SEWER								
51-51-50010	Sludge Disposal	21,334.34	31,649.58	9,258.75	31,000.00	31,000.00	0.00	0.00%
51-51-51000	Sewer-Salaries & Wages	251,906.58	266,432.72	95,877.14	305,442.41	305,442.41	0.00	0.00%
51-51-52000	Payroll Taxes	18,555.51	17,555.39	7,140.72	24,282.67	24,282.67	0.00	0.00%
51-51-52100	Benefits	97,932.47	125,458.12	35,944.03	137,836.53	137,836.53	0.00	0.00%
51-51-52200	Worker's Compensation	5,752.73	23,144.94	5,034.55	9,468.71	9,468.71	0.00	0.00%
51-51-52400	Employee Rewards	0.00	164.05	0.00	2,000.00	2,000.00	0.00	0.00%
51-51-53000	Uniforms	1,503.02	1,367.79	456.35	1,700.00	1,700.00	0.00	0.00%
51-51-53100	Travel & Training	605.85	1,085.93	313.86	1,000.00	1,000.00	0.00	0.00%
51-51-53200	Employee Testing	272.70	30.37	0.00	500.00	500.00	0.00	0.00%
51-51-54000	Office Supplies	2,314.49	1,774.03	881.90	2,300.00	2,300.00	0.00	0.00%
51-51-54100	Dues & Subscriptions	90.00	278.00	143.34	500.00	500.00	0.00	0.00%
51-51-54200	Postage	2,969.07	3,886.48	1,667.10	4,250.00	11,250.00	7,000.00	164.71%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	Postage for new bills. \$1,000/mo.							
51-51-54300	Bankcard Fees	10,195.81	2,442.30	292.88	0.00	0.00	0.00	0.00%

Budget Comparison Report

Account Number		2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
					2015-2016 2015-2016 Ori...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
51-51-54400	Office Machines	4,280.36	4,089.97	1,907.28	5,000.00	5,000.00	0.00	0.00%
51-51-55400	Public Hearing	0.00	0.00	0.00	500.00	500.00	0.00	0.00%
51-51-56000	Audit	3,000.00	5,600.00	0.00	4,100.00	4,100.00	0.00	0.00%
51-51-56100	Accounting	13,783.58	28,359.29	8,837.90	10,000.00	10,000.00	0.00	0.00%
51-51-56200	Legal	1,331.00	16,544.75	0.00	5,000.00	5,000.00	0.00	0.00%
51-51-56300	Litigation	106.25	639.50	0.00	5,000.00	5,000.00	0.00	0.00%
51-51-56600	Engineering	20,536.86	39,049.66	11,941.37	15,000.00	15,000.00	0.00	0.00%
51-51-56750	Liability Insurance	10,190.63	2,547.66	1,141.90	9,000.00	9,000.00	0.00	0.00%
51-51-57000	Eco Dev Contractual	4,172.00	25,702.83	20,792.53	50,000.00	50,000.00	0.00	0.00%
51-51-57150	Contractual-Payroll	397.02	718.88	0.00	1,700.00	1,700.00	0.00	0.00%
51-51-57300	Sewer Contractual	23,238.63	15,425.68	4,209.10	15,000.00	15,000.00	0.00	0.00%
51-51-58000	IT Maintenance	4,133.13	1,921.96	3,631.50	8,100.00	8,100.00	0.00	0.00%
51-51-58100	Hardware Expense	1,000.00	6,239.14	542.01	5,500.00	5,500.00	0.00	0.00%
51-51-58200	Software Expense	4,517.87	3,762.91	2,242.91	2,500.00	2,500.00	0.00	0.00%
51-51-58500	Telephone	1,754.33	1,835.02	867.37	1,650.00	1,650.00	0.00	0.00%
51-51-58700	Communications	56.53	0.00	0.00	0.00	0.00	0.00	0.00%
51-51-58800	Internet	0.00	1,550.57	222.99	200.00	800.00	600.00	300.00%
51-51-61300	Supplies	3,588.30	1,109.89	338.51	650.00	650.00	0.00	0.00%
51-51-61500	Administrative Building	5,772.19	0.00	0.00	0.00	0.00	0.00	0.00%
51-51-61610	Building Maintenance	795.33	92.35	13.79	200.00	200.00	0.00	0.00%
51-51-62000	Vehicle Insurance	2,922.60	831.10	0.00	4,000.00	4,000.00	0.00	0.00%
51-51-62100	Vehicle Maintenance	9,934.31	26,640.69	1,478.68	30,000.00	30,000.00	0.00	0.00%
51-51-62200	Fuel & Oil	33,664.29	12,800.83	2,910.10	21,000.00	21,000.00	0.00	0.00%
51-51-62500	Equipment Maintenance	118.78	0.00	0.00	0.00	0.00	0.00	0.00%
51-51-62600	Safety Equipment	549.83	0.00	31.77	1,000.00	1,000.00	0.00	0.00%
51-51-73000	Plant Maintenance	21,481.68	30,599.46	6,931.04	25,000.00	25,000.00	0.00	0.00%
51-51-73100	Lift Station Maintenance	18,941.34	26,165.82	11,872.61	26,000.00	25,400.00	-600.00	-2.31%
51-51-73200	Line Maintenance	22,824.37	27,202.47	1,103.77	67,000.00	67,000.00	0.00	0.00%
51-51-73500	Utilities	77,798.57	84,882.47	34,084.33	76,950.00	76,950.00	0.00	0.00%
51-51-83100	Sewer-Capital Purchases	-1,566.00	34,344.11	30,984.67	451,000.00	451,000.00	0.00	0.00%
51-51-83150	Storm Water Capital	0.00	0.00	7,800.00	25,000.00	37,500.00	12,500.00	50.00%
Budget Notes								
Budget Code	Description							
2015-2016 Amended	Transfer from CIP for stromwater drainage.							
51-51-83300	CIP Sewer	-1,440.33	139.40	-1,525.81	5,500.00	5,500.00	0.00	0.00%
51-51-85000	Depreciation	190,975.66	190,413.00	0.00	0.00	0.00	0.00	0.00%
51-51-90000	Debt Service Principal	0.00	0.00	0.00	272,000.00	272,000.00	0.00	0.00%
51-51-90100	Debt Service Interest	73,439.52	98,401.44	57,664.61	125,635.00	125,635.00	0.00	0.00%
51-51-90200	Debt Service Bond Fees	1,073.73	113,153.46	2,692.87	5,000.00	5,000.00	0.00	0.00%

Budget Comparison Report

Account Number	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
51-51-90205 Amortization Expense	0.00	111.00	0.00	0.00	0.00	0.00	0.00%
51-51-90600 Debt Service City Hall	0.00	0.00	0.00	0.00	0.00	0.00	0.00%
51-51-96000 Transfers	-2,248.26	37,822.85	6,438.45	70,226.00	70,226.00	0.00	0.00%
Total Division: 51 - SEWER:	964,556.67	1,313,967.86	376,166.87	1,864,691.32	1,884,191.32	19,500.00	1.05%
Total Expense:	964,556.67	1,313,967.86	376,166.87	1,864,691.32	1,884,191.32	19,500.00	1.05%
Total Fund: 51 - Enterprise-Sewer Fund:	15,168.64	281,114.22	221,503.33	-485,029.12	-492,029.12	-7,000.00	1.44%
Report Total:	242,848.46	513,189.68	-948,970.43	-1,343,728.96	-1,621,663.96	-277,935.00	20.68%

Divisio...	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 10 - General Fund							
Revenue							
00 - NON DIVISIONAL	2,020,940.85	1,550,553.62	738,852.76	1,605,913.62	1,517,913.62	-88,000.00	-5.48%
Total Revenue:	2,020,940.85	1,550,553.62	738,852.76	1,605,913.62	1,517,913.62	-88,000.00	-5.48%
Expense							
10 - ELECTED OFFICIALS	44,176.36	32,258.87	14,441.54	235,126.40	235,126.40	0.00	0.00%
11 - ADMINISTRATIVE	354,185.60	213,953.73	141,641.96	277,183.42	277,183.42	0.00	0.00%
12 - LAW ENFORCEMENT	876,372.49	832,859.65	369,637.47	846,617.75	846,617.75	0.00	0.00%
13 - COURT	88,586.20	89,921.92	32,127.54	91,908.44	92,658.44	750.00	0.82%
14 - PLANNING/CODES	163,612.36	175,244.09	62,201.71	165,639.66	167,139.66	1,500.00	0.91%
15 - EMERGENCY MANAGEMENT	0.00	82.59	0.00	1,500.00	1,500.00	0.00	0.00%
16 - PUBLIC WORKS	149,085.93	88,309.14	51,032.60	69,588.97	69,588.97	0.00	0.00%
18 - FACILITIES	300,624.23	124,310.36	34,420.66	93,623.00	93,623.00	0.00	0.00%
21 - Information Technology	0.00	0.00	30,250.95	83,283.75	96,283.75	13,000.00	15.61%
Total Expense:	1,976,643.17	1,556,940.35	735,754.43	1,864,471.39	1,879,721.39	15,250.00	0.82%
Total Fund: 10 - General Fund:	44,297.68	-6,386.73	3,098.33	-258,557.77	-361,807.77	-103,250.00	39.93%

Budget Comparison Report

Divisio...	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 20 - Park Fund							
Revenue							
00 - NON DIVISIONAL	217,289.00	258,430.74	94,726.36	245,750.00	258,750.00	13,000.00	5.29%
Total Revenue:	217,289.00	258,430.74	94,726.36	245,750.00	258,750.00	13,000.00	5.29%
Expense							
20 - PARK	238,621.16	363,802.39	290,379.68	497,784.30	438,469.30	-59,315.00	-11.92%
Total Expense:	238,621.16	363,802.39	290,379.68	497,784.30	438,469.30	-59,315.00	-11.92%
Total Fund: 20 - Park Fund:	-21,332.16	-105,371.65	-195,653.32	-252,034.30	-179,719.30	72,315.00	-28.69%

Budget Comparison Report

Divisio...	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 21 - Road & Street Fund							
Revenue							
00 - NON DIVISIONAL	269,415.98	276,829.41	82,588.00	320,600.00	320,600.00	0.00	0.00%
Total Revenue:	269,415.98	276,829.41	82,588.00	320,600.00	320,600.00	0.00	0.00%
Expense							
25 - ROAD AND STREET	237,754.43	206,011.15	73,136.45	303,718.72	323,718.72	20,000.00	6.59%
Total Expense:	237,754.43	206,011.15	73,136.45	303,718.72	323,718.72	20,000.00	6.59%
Total Fund: 21 - Road & Street Fund:	31,661.55	70,818.26	9,451.55	16,881.28	-3,118.72	-20,000.00	-118.47%

Budget Comparison Report

Divisio...	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 22 - Gasoline Tax Fund							
Revenue							
00 - NON DIVISIONAL	172,740.62	179,606.15	82,962.49	161,900.00	231,900.00	70,000.00	43.24%
Total Revenue:	172,740.62	179,606.15	82,962.49	161,900.00	231,900.00	70,000.00	43.24%
Expense							
25 - ROAD AND STREET	153,360.40	165,243.92	55,546.24	165,430.46	235,430.46	70,000.00	42.31%
Total Expense:	153,360.40	165,243.92	55,546.24	165,430.46	235,430.46	70,000.00	42.31%
Total Fund: 22 - Gasoline Tax Fund:	19,380.22	14,362.23	27,416.25	-3,530.46	-3,530.46	0.00	0.00%

Budget Comparison Report

Divisio...	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 30 - Capital Projects Fund							
Revenue							
00 - NON DIVISIONAL	357,509.48	1,129,658.05	179,407.89	631,125.87	631,125.87	0.00	0.00%
Total Revenue:	357,509.48	1,129,658.05	179,407.89	631,125.87	631,125.87	0.00	0.00%
Expense							
30 - CAPITAL PROJECTS	334,748.52	611,257.78	253,863.00	958,200.00	1,173,200.00	215,000.00	22.44%
Total Expense:	334,748.52	611,257.78	253,863.00	958,200.00	1,173,200.00	215,000.00	22.44%
Total Fund: 30 - Capital Projects Fund:	22,760.96	518,400.27	-74,455.11	-327,074.13	-542,074.13	-215,000.00	65.73%

Budget Comparison Report

Divisio...	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 50 - Enterprise-Water Fund							
Revenue							
00 - NON DIVISIONAL	1,469,832.58	1,485,523.17	667,967.92	1,678,549.34	1,678,549.34	0.00	0.00%
Total Revenue:	1,469,832.58	1,485,523.17	667,967.92	1,678,549.34	1,678,549.34	0.00	0.00%
Expense							
50 - WATER	1,338,921.01	1,745,270.09	1,608,299.38	1,712,933.80	1,717,933.80	5,000.00	0.29%
Total Expense:	1,338,921.01	1,745,270.09	1,608,299.38	1,712,933.80	1,717,933.80	5,000.00	0.29%
Total Fund: 50 - Enterprise-Water Fund:	130,911.57	-259,746.92	-940,331.46	-34,384.46	-39,384.46	-5,000.00	14.54%

Budget Comparison Report

Divisio...	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
Fund: 51 - Enterprise-Sewer Fund							
Revenue							
00 - NON DIVISIONAL	979,725.31	1,595,082.08	597,670.20	1,379,662.20	1,392,162.20	12,500.00	0.91%
Total Revenue:	979,725.31	1,595,082.08	597,670.20	1,379,662.20	1,392,162.20	12,500.00	0.91%
Expense							
51 - SEWER	964,556.67	1,313,967.86	376,166.87	1,864,691.32	1,884,191.32	19,500.00	1.05%
Total Expense:	964,556.67	1,313,967.86	376,166.87	1,864,691.32	1,884,191.32	19,500.00	1.05%
Total Fund: 51 - Enterprise-Sewer Fund:	15,168.64	281,114.22	221,503.33	-485,029.12	-492,029.12	-7,000.00	1.44%
Report Total:	242,848.46	513,189.68	-948,970.43	-1,343,728.96	-1,621,663.96	-277,935.00	20.68%

Fund	2013-2014 Total Activity	2014-2015 Total Activity	2015-2016 YTD Activity Through Feb	Parent Budget	Comparison 1 Budget	Comparison 1 to Parent Budget	%
				2015-2016 2015-2016 Origi...	2015-2016 2015-2016 Amended	Increase / (Decrease)	
10 - General Fund	44,297.68	-6,386.73	3,098.33	-258,557.77	-361,807.77	-103,250.00	39.93%
20 - Park Fund	-21,332.16	-105,371.65	-195,653.32	-252,034.30	-179,719.30	72,315.00	-28.69%
21 - Road & Street Fund	31,661.55	70,818.26	9,451.55	16,881.28	-3,118.72	-20,000.00	-118.47%
22 - Gasoline Tax Fund	19,380.22	14,362.23	27,416.25	-3,530.46	-3,530.46	0.00	0.00%
30 - Capital Projects Fund	22,760.96	518,400.27	-74,455.11	-327,074.13	-542,074.13	-215,000.00	65.73%
50 - Enterprise-Water Fund	130,911.57	-259,746.92	-940,331.46	-34,384.46	-39,384.46	-5,000.00	14.54%
51 - Enterprise-Sewer Fund	15,168.64	281,114.22	221,503.33	-485,029.12	-492,029.12	-7,000.00	1.44%
Report Total:	242,848.46	513,189.68	-948,970.43	-1,343,728.96	-1,621,663.96	-277,935.00	20.68%

PROJECT NAME: Windmill Meter Relocation
PROJECT NO: WA 16-001



FUND: Water Enterprise
DEPARTMENT: Public Works Water Division
 Project Contact: Nick Jacobs
 Category: Meter Maintenance

Total Project Cost: \$ 55,000.00

PROJECT DESCRIPTION:
 Meters to be moved from inside of home to outside into right-of-way

NEED, JUSTIFICATION, BENEFIT:
 To give access to City maintenance staff

TIME-LINE/CURRENT STATUS:
 2015-2016

Prior:	Expenditures	2016	2017	2018	2019	2020	Total
	Construction	55,000.00					55,000.00
	Contingency						-
	In house Design						-
	In house Inspection						-
50-50-83000	Total	55,000.00	-	-	-	-	55,000.00

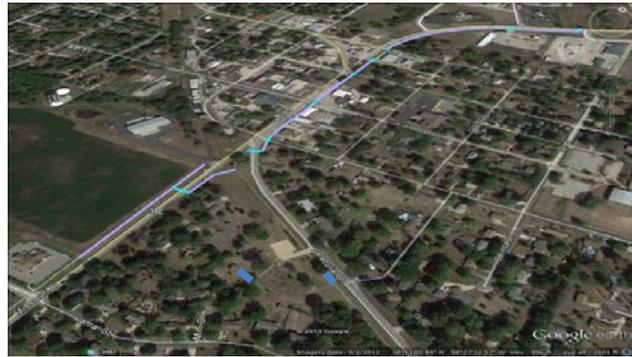
Funding Sources	2016	2017	2018	2019	2020	Total
City Fund: Water Enterprise						-
Grants						-
Other:						-
Water Capital Purchases	55,000					55,000
Bond						-
Total	55,000	-	-	-	-	55,000

EXPLANATION OF IMPACT ON OPERATING BUDGET:
 Water meters should be replaced every 12-15 years

Budget Impact	2016	2017	2018	2019	2020	Total
Maintenance	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	10,000.00
Total	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00	10,000.00

PROJECT NAME:	Sidewalk, City Hall to C/J Hwy Bridge
PROJECT NO:	WA 15-003A

LOCATION & AREA MAP:



FUND:	See below
DEPARTMENT:	Public Works Water Division
Project Contact:	John Stoltz
Category:	Sidewalk
Total Project Cost:	\$ 245,784.00

PROJECT DESCRIPTION:

Install a 5'-0" wide sidewalk from City Hall to C/J Hwy Bridge, and a sidewalks in Peace Park and McKernan Park.

NEED, JUSTIFICATION, BENEFIT:

To provide pedestrian connectivity along C Hwy/Main Street from City Hall to C/J Hwy bridge.

TIME-LINE/CURRENT STATUS:

Engineering Phase and Construction FY 2014-2015.

Prior:	Expenditures	2016	2017	2018	2019	2020	Total
41811	Engineering						41,811.00
Total	Construction	236,853.00					236,853.00
	Appraisals	9,600.00					9,600.00
	Easements Offers	6,020.00					6,020.00
30-30-81200	Total	252,473.00	-	-	-	-	294,284.00

Funding Sources	2016	2017	2018	2019	2020	Total
City Fund Capital	146,184					146,184
Grants	70,000					70,000
Other: Park Fund	4,000					4,000
2013 water bond	51,600					51,600
City Fund Streets	22,500					22,500
Total	294,284	-	-	-	-	294,284

EXPLANATION OF IMPACT ON OPERATING BUDGET:

\$4,000 has been identified in the 2015 Park Fund Capital Equipment operating budget for this one-time purchase. \$41,000 has been identified in the 2015 Capital Fund operating budget for this one-time purchase. \$70,000 has been identified as a grant from MoDOT for this one-time gift.

Budget Impact	2016	2017	2018	2019	2020	Total
Maintenance	-	-	-	-	-	-
Total	-	-	-	-	-	-

PROJECT NAME: 211th Street Storm Water Retention (LOCATION & AREA MAP:
PROJECT NO: SW 2015 -001	
FUND:	Total Project Cost: \$ 3,470,279.00
DEPARTMENT: Sewer	
Project Contact: Carl Brooks	
Category: Storm water	

PROJECT DESCRIPTION:
Storm water retention basin due to the I-49 & 211th Street Interchange and 211th Street projects.

NEED, JUSTIFICATION, BENEFIT:
Existing storm water runoff is overflowing the current stream channel during the 25 year return frequency storm event, causing yard flooding and outbuilding damage

TIME-LINE/CURRENT STATUS:
Development driven, project is on "hold", preliminary design has been completed. Cost Estimate below is for a West Basin Option

Prior:	Expenditures	2015	2016	2017	2018	2019	Total
	Construction(Unfunded)					2,178,435.00	2,178,435.00
Total	Contingency(Unfunded)					217,844.00	217,844.00
	Preliminary Design(Funded)		224,000.00				224,000.00
	Final Design (Unfunded)					250,000.00	250,000.00
	Corp Permitting Mitigation Costs (Unfunded)					450,000.00	450,000.00
	Private Utility Relocation (Unknown and Unfunded)					-	-
	CPS/Inspection (City staff) Unfunded					150,000.00	150,000.00
56-80-84910	Total	-	224,000.00	-	-	3,246,279.00	3,470,279.00

Funding Sources	2015	2016	2017	2018	2019	Total
City Fund: 34	25,000	199,000				224,000
Grants						-
Other: Unfunded)					3,246,249	3,246,249
						-
						-
Total	25,000	199,000	-	-	3,246,249	3,470,249

EXPLANATION OF IMPACT ON OPERATING BUDGET:

Budget Impact	2015	2016	2017	2018	2019	Total
Maintenance					1,000.00	1,000.00
						-
Total	-	-	-	-	1,000.00	1,000.00

PROJECT NAME: School Road, from 211th street to 203rd St
PROJECT NO: ST 15-008



FUND: Capital Improvement Fund
DEPARTMENT: Public Works
 Project Contact: John Stoltz
 Category: Street

Total Project Cost: \$ 1,053,700.00

PROJECT DESCRIPTION:
 School road from 211th to 203rd St, Curb and Gutter, Sidewalk, 3 lanes

NEED, JUSTIFICATION, BENEFIT:
 Safety, turn lanes at intersections, and school campus, driveways improvements. City is splitting 50% of the construction cost with the county.

TIME-LINE/CURRENT STATUS:
 Design

Prior:	Expenditures	2015	2016	2017	2018	2019	Total
	Construction			1,018,700.00			1,018,700.00
	Easement		35,000.00				
Total	Contingency						-
	Design						-
	Inspection						-
30-30-89900	Total	-	35,000.00	1,018,700.00	-	-	1,018,700.00

Funding Sources	2015	2016	2017	2018	2019	Total
City Fund:	100,000	200,000				300,000
Grants						-
Other: GO bonds			753,700			753,700
						-
						-
Total	100,000	200,000	753,700	-	-	1,053,700

EXPLANATION OF IMPACT ON OPERATING BUDGET:

Budget Impact	2015	2016	2017	2018	2019	Total
Maintenance						-
						-
Total	-	-	-	-	-	-

PROJECT NAME: Peculiar Monument Sign
PROJECT NO: M 15-001



FUND: 30
DEPARTMENT: Public Works
 Project Contact: Carl Brooks
 Category: 80/20 Grant

Total Project Cost: \$ 166,000.00

PROJECT DESCRIPTION:
 Install monument sign to "welcome" those entering the city to see.

NEED, JUSTIFICATION, BENEFIT:
 construction of a monument sign. The project has been designed, awarded and the contractor (Gunter Construction) has started

TIME-LINE/CURRENT STATUS:

Prior:	Expenditures	2016	2017	2018	2019	2020	Total
	Construction	146,000.00					146,000.00
Total	Contingency						-
20079.74	Design						-
	Inspection						-
30-30-81300	Total	146,000.00	-	-	-	-	146,000.00

Funding Sources	2016	2017	2018	2019	2020	Total
City Fund: 30	23,000					23,000
Grants	92,000					92,000
Other:						-
30-30-8100 Street	5,000					5,000
30-30-81300	46,000					46,000
						-
Total	166,000	-	-	-	-	166,000

EXPLANATION OF IMPACT ON OPERATING BUDGET:

Budget Impact	2016	2017	2018	2019	2020	Total
Maintenance						-
						-
Total	-	-	-	-	-	-

RESOLUTION NO. 2016-04

A RESOLUTION OF THE BOARD OF ALDERMEN OF THE CITY OF PECULIAR, MISSOURI APPROVING THE FINANCIAL REPORT AND BUDGET AMENDMENT ENDING FEBRUARY 29, 2016 OF THE FISCAL YEAR 2015-2016.

WHEREAS, the City CPA and the Business Office Manager have prepared and submitted the Financial Report and Budget Amendment ending February 29, 2016 of the Fiscal Year 2015-2016; and

WHEREAS, the Board of Aldermen have reviewed the Financial Report ending February 29, 2016 and found the City to be financially sound; and

WHEREAS, the review has produced an amendment which is an attachment to this Resolution (Attachment A); and

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF PECULIAR, MISSOURI

Section 1. The Financial Report and the Budget Amendment ending February 29, 2016 of the Fiscal Year 2015-2016 are hereby accepted and filed for audit.

Section 3. *Effective Date.* This resolution shall become effective upon its approval and passage this _____ day of _____, 2016.

Upon a consent vote, said Resolution was adopted by the following roll call vote:

Alderman McCrea _____
Alderman Hammack _____
Alderman Ford _____

Alderman Ray _____
Alderman Roberts _____
Alderman Turner _____

APPROVED:

ATTEST:

Holly Stark, Mayor

Janet Burlingame, City Clerk

City Administrator
Brad Ratliff

City Clerk
Janet Burlingame

City Engineer
Carl Brooks

Business Office
Trudy Prickett



Chief of Police
Harry Gurin

City Planner
Cliff McDonald

City Attorney
Reid Holbrook

Parks Director
Grant Purkey

Municipal Offices – 250 S. Main Street, Peculiar, MO 64078
Phone: (816)779-5212 Facsimile: (816)779-1004

To: Board of Aldermen
From: Carl Brooks, City Engineer, "cbrooks@cityofpeculiar.com"
Date: March 16, 2016
Re: Resolution 2016-05, Recommended and Proposed Street Light Location – 21500 N Main Street Peculiar Monument Sign

GENERAL INFORMATION

Applicant: Staff
Requested Actions: Resolution passage of the recommended and proposed location for a Street Light
Purpose: City staff has requested Kansas City Power & Light (KCP&L) to install a street light at the Peculiar Monument Sign for visibility and safety concerns.

PROPOSAL

KCP&L will request a resolution for the installation of a street light at the Peculiar Monument Sign.

PREVIOUS ACTION(S)

City staff has requested Kansas City Power & Light (KCP&L) to install a street light at the Peculiar Monument Sign.

STAFF ANALYSIS & COMMENTS

City staff has verified that there are no known existing city owned utilities (with the exception of water) at the location proposed for the new street light at the Peculiar Monument Sign.

STAFF RECOMMENDATION

Staff recommends the installation of a street light at the Peculiar Monument Sign by KCP&L, and approval of the attached proposed resolution.
The additional increase to our KCPL monthly bill will be \$38.34.
City staff has requested KCP&L to install a "smart" light.

ATTACHMENTS

Resolution 2016-05
KCP&L Authorization for Street Light Changes form
KCP&L sheet No. 1 of 1, dated 3-12-16

RESOLUTION 2016-05

A RESOLUTION OF THE BOARD OF ALDERMEN OF THE CITY OF PECULIAR, MISSOURI APPROVING AUTHORIZATION FOR STREET LIGHT CHANGES CITY OF PECULIAR.

WHEREAS, City staff has requested Kansas City Power & Light (KCP&L) to install a street light at the Peculiar Monument Sign, and

WHEREAS, KCP&L requests a resolution for the installation of a street light at the Peculiar Monument Sign by the Mayor and the Board of Aldermen.

NOW, THEREFORE BE IT RESOLVED BY THE BOARD OF ALDERMEN OF THE CITY OF PECULIAR, MISSOURI

Section 1. RESOLVED, the City of Peculiar is authorized by Chapter 405: Land Subdivision Regulations, of the City of Peculiar Municipal Code, to approve street lights in accordance with the standards established by Section 405.490.

Section 2. RESOLVED, that the Board of Aldermen hereby approves the request of City staff of KCP&L for the installation of a street light at the Peculiar Monument Sign.

Section 3. Effective Date. The effective date of this Resolution shall be the _____ day of _____, 2016.

Upon a roll call, said Resolution was adopted by the following vote:

Alderman Ford	_____	Alderman Ray	_____
Alderman Hammack	_____	Alderman Roberts	_____
Alderman McCrea	_____	Alderman Turner	_____

APPROVED:

ATTEST:

Holly Stark, Mayor

Janet Burlingame, City Clerk



**AUTHORIZATION FOR STREET LIGHT CHANGES
City of PECULIAR**

Gentlemen:

At a meeting of the _____ on _____
the following changes were authorized in our street lighting system by resolution of the _____.
Street lights will be installed, in accordance with the schedule of charges listed below or any effective superseding rate
schedules on file with the governmental regulatory agency having jurisdiction over rates and charges for service hereunder.

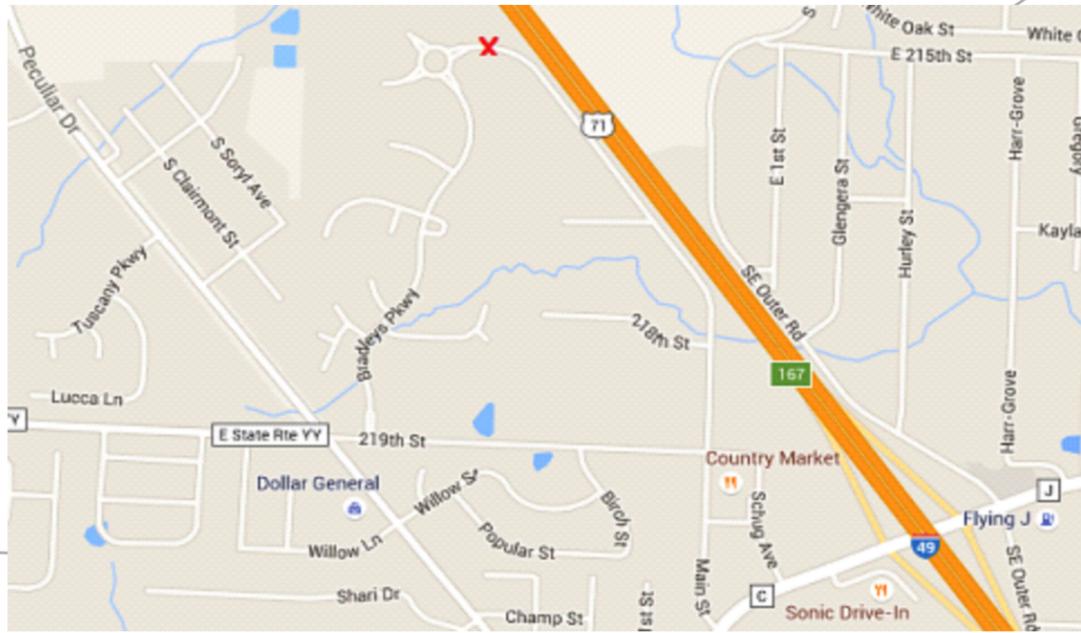
Add or Remove	No. Lights	Watts/ Lumens	*Type	MRU Code Number	Location	Pole #	MONTHLY COST
ADD	1	150/13500	SP,SVL,EG, UG	M369	215 TH & Main, Outer Road		\$22.16 X 1=\$22.16
ADD	1 BASES			BKWY	Breakaway bases		\$2.81 X 1=\$2.81
ADD	1 POLES			M808	30' Steel Pole		\$5.87 X 1=\$5.87
ADD	1			M806	UG wiring under pkwy		150' x .05=\$7.50
							\$38.34

TYPE ABBREVIATIONS

- AP -Additional Pole
- EDP -Existing Distribution Pole
- EG -Enclosed Glassware
- L -Lumens
- MV -Mercury vapor
- MVS -Mercury Vapor Streamlined
- OG -Open Glass
- OH -Overhead Wiring
- SP -Steel Pole Mounting
- SVL -Sodium Vapor Lucalox
- SVU -Sodium Vapor Unalux
- SVUS -Sodium Vapor Unalux Streamlined
- TS -Traffic Signal (Location)
- UG -Underground Wiring
- WP -Wood Pole Mounting

Signed _____
City Clerk

FOR KCPL USE ONLY	
Date of Change	_____
Change Made By	_____
Work Request #	_____
Subdivision	_____
Blanket WO #	_____
Signed	_____
CIS+ updated By	_____



- ① EXISTING
PW40-4
310-207
420-101
460-121
XFO-3.1-15
- ② INSTALL
810-101
- ③ INSTALL
SL-PS30-2S
SL-B-BKWY
SL-B-SCR
SL-H-TBMC
SL-S-ID-UG
SL-A6-NBSP
SL-L150HPS-2W

FUTURE MONUMENT SIGN SERVICE

OH1427184
No SL ID
150W

#6 CU STR

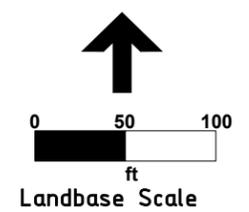
152' 2"
10 AL STR

OH882287
9069
3.1-15 B
120/240 Y-Y

OH882288

BUILT AS DESIGNED
 CHANGES AS NOTED
 LEADMAN _____ DATE _____
 FCS _____ DATE _____

EXISTING - - - - -
 INSTALL - - - - -
 REMOVE - - - - -
 MODIFY - - - - -



CONTACTS
 DESIGN TECH:
 CARMEN GEIER
 816-737-7777 EXT.14402
 CUSTOMER:
 CITY OF PECULIAR
 MIKE STOLTZ
 816-779-2224

T/R/S/QS: 45N/32W/9		REV	DATE	BY	CHECKED	REVIEWED
TITLE: CITY OF PECULIAR		PRJ#: 50008658		All facility locations should be field verified.		
ADDRESS: 21500 N MAIN ST		WR#: 719266				
CITY: PECULIAR		SEC DIST: NA				
COUNTY: CS		CIRCUIT: 31612				
STATE: MO ZIP: 64078						
12.47KV	JOB TYPE: 1STLT	SHEET: 1 OF 1				

BELTON
 DESIGNED BY: **CQEIER**
 REVIEWED BY: **NM**
 DATE: **3-12-16**
719266-1

City Administrator
Brad Ratliff

City Clerk
Janet Burlingame

City Engineer
Carl Brooks

Business Office
Trudy Prickett



Municipal Offices – 250 S. Main Street, Peculiar, MO 64078
Phone: (816)779-5212 Facsimile: (816)779-1004

Chief of Police
Harry Gurin

City Planner
Cliff McDonald

City Attorney
Reid Holbrook

Parks Director
Grant Purkey

To: Mayor & Board of Aldermen
From: Carl Brooks, City Engineer (cbrooks@cityofpeculiar.com)
Date: March 15, 2016
Re: Value Engineering Report on the Water Supply.

GENERAL INFORMATION

Applicant: City Staff
Requested Actions: Topic of discussion and approval at the next scheduled meeting.
Property Location: City Wide
Purpose: Identify City’s long term and future water supply

PROPOSAL

City staff has been asked to review the City’s long term and future water supply

With that in mind we would like for the Alderman to review the enclosed information.

Burns & McDonnell has completed the Value Engineering Report on the Water Supply.

The Engineering Report covers:

- ❖ Compares the City’s current water supply (Cass PWSD) #2 to other suppliers: Kansas City Water, Tri-County Water Authority, City of Belton, MO, Jackson County Public Water Supply District No. 1 and Water One of Johnson County, KS
- ❖ Recommendation - that the City move forward with the buying of water from KCMO.
- ❖ Hydraulic Analysis of the City’s distribution system reviewed and updated

PREVIOUS ACTIONS

Approval of the engineering agreement contract in the amount of \$73,880.00

KEY ISSUES

Upgrading of the City’s water supply.

STAFF COMMENTS AND SUGGESTIONS

No additional comments

STAFF RECOMMENDATION

Staff asks that you review these documents, and at a future Board of Alderman’s meeting discuss and approval

ATTACHMENTS

Water Supply Update and Review Memorandum

Water Supply Evaluation and Coordination, Updated Demand Projections and Hydraulic Model Memorandum
Hydraulic Model review and Update Memorandum

DRAFT Memorandum



Date: March 14, 2016

To: Carl Brooks, P.E., City Engineer, City of Peculiar

From: Jeff Barnard, P.E., Project Manager, Burns & McDonnell
Dana Bruner, P.E., Project Engineer, Burns & McDonnell
Michaela Rempkowski, EIT, Project Engineer, Burns & McDonnell

Subject: Water Supply Update and Review

1. Introduction

Burns & McDonnell is preparing an updated water supply and hydraulic modeling technical memorandum (TM) for the City to assist in the planning of the Peculiar Way Interchange on Interstate 49 (I-49) of Peculiar (City). Evaluating the water supply options is the second task executed during the development of the updated water supply and hydraulic modeling TM. This memorandum summarizes arrangements and correspondence between Burns & McDonnell and each water supplier to establish anticipated connection fees, rates, contract terms, and available pressure and capacity at the point of connection for the City. In addition to the summary of correspondence, the following evaluations were conducted to provide supplier recommendations:

- A review of standard contract terms for each viable water supply option;
- A general assessment of water quality issues, including water age, disinfection byproduct potential, and chlorine or chloramine residual for each water supply option; and
- An evaluation of net present value for each water supply alternative and comparison.

The Peculiar Way Interchange on I-49 is anticipated to stimulate additional growth. Growth, related to infrastructure requirements, was not considered in the Engineering Report for Water Supply, Pumping, Storage, and Distribution Facilities, by Larkin, Lamp, Rynearson and Associates, May 2014 (Water Systems Engineering Report). Burns & McDonnell investigated several water supply options to meet the City's anticipated residential and commercial growth through the study period year 2035. The following water supply options were considered:

- Cass County Public Water District No. 2 (PWSD No. 2);
- Kansas City, Missouri (KCMO);
- WaterOne of Johnson County, Kansas (WaterOne);
- City of Belton, Missouri (Belton);
- Jackson County Public Water Supply District No. 1 (Jackson No. 1); and
- Tri-County Water Authority (Tri-County).

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2. Summary of Demands

The population of the City is estimated to increase by 1 percent annually based on the population projections in the Water Systems Engineering Report. Further, this report projected that the current service area demand would increase from the 2013 demand of approximately 260,000 gallons per day to 325,000 gallons per day by 2035. The maximum daily flow was predicted using a maximum daily flow to average daily flow ratio of 1.5, resulting in a maximum daily flow of 490,000 gallons in 2035. These values reflect the current and residential growth projected for the City by 2035.

The City will be providing service to the commercial and industrial users on Peculiar Way, or the east side of I-49. The City's service area projected average day demand is 415,000 gpd with a maximum day demand of 625,000 gpd in 2035. It is anticipated that the PWSDs will provide water service to all of the residential customers resulting from the Peculiar Way Interchange and the commercial and industrial customers on the west side of I-49; PWSD No. 2 on the west and PWSD No. 10 on the east. An additional 200 gallons per minute (290,000 gallons per day) is allocated for an industrial process demand. It is important to note that this general approximation of the demand may vary from the actual demand and will ultimately be dependent on the industry serviced.

Demand projections were calculated for the commercial and industrial zones of the PWSD service area to plan for contingency connections in the event that the PWSDs do not want to supply water to the development areas. The PWSD commercial and industrial service area average day demand is approximately 310,000 gallons per day with a maximum day demand of approximately 465,000 gallons per day. An industrial process water allowance of 400 gallons per minute (580,000 gallons per day) is allocated to the west of the interchange.

Table 1, below, provides a summary of the average and maximum day projections for the City and PWSD.

Table 1: 2035 Average and Maximum Day Projection Summary

Demand	Current Service Area	City Serviced 211th Street Interchange	City Industrial Allowance	City Serviced Total	PWSD Commercial and Industrial	PWSD Industrial Allowance	PWSD Total	City and PWSD Total
Average Day (gpd)	325,000	90,000	290,000	705,000	310,000	580,000	890,000	1,595,000
Max Daily (gpd)	490,000	135,000	290,000	915,000	465,000	580,000	1,045,000	1,960,000

Including these average day and max day demand projections will assist the City in choosing a water supplier by determining appropriate pressure and capacity requirements at the point of connection and determining contract terms. The following evaluations were established around a 1.0 MGD maximum day demand projected for the City in the year 2035. If PWSD No. 2 forfeits the supplying water to the commercial and industrial areas within their jurisdiction of the Peculiar Way Interchange, the City would renegotiate contracts to provide a 2.0 MGD maximum day contingent supply to these areas.

3. Current Water Contract

The City entered into a 20-year water purchase agreement with PWSD No. 2 on March 19, 1990 and renewed the agreement on March 16, 2010. The water purchase agreement required that PWSD No. 2 supply and deliver up to 700,000 gallons of water per day to the City for a contract term of 25 additional years. PWSD No. 2 has an existing water purchase agreement with KCMO and is authorized to resell water to the City, under the Wholesale Customer/Restricted rate and other appropriate provisions. This water may also be repurchased from the City by PWSD No. 2.

The City has three metering locations, at which PWSD No. 2 delivers water and may include other locations, as mutually agreed upon. The current metering locations include:

1. 211th Street and Harper Road Metering Station
2. 211th Street and South Peculiar Drive Metering Station
3. Sienna Street and Peculiar Drive Metering Station

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The City is required to maintain storage facilities for an average day's consumption and use them at their fullest extent to offset peak demands. The City currently has approximately 450,000 gallons stored in a ground storage tank and a 400,000 gallon elevated storage tank.

At times of emergency, the City may purchase water from the following suppliers:

- Cass County Public Water Supply District No. 10 (PWSD No. 10), at a location south of 211th Street and Larkspur Drive, at the base of PWSD No. 10 150,000 gallon elevated tank.
- Cass County Public Water Supply District No. 7 (PWSD No. 7), at the southwest corner of 227th Street and Harper Road.
- Other suppliers, with notice thirty (30) days before establishing a connection.

In the event that PWSD No. 2 does not have sufficient water supply, the City may obtain supplemental supply from other suppliers for the quantities in excess of what is available from the district. The City is allowed to terminate the water purchase agreement with PWSD No. 2 after one (1) year with written notification.

The water rate charged by PWSD No. 2 consists of the sum of the components listed below:

1. Water Cost Component
 - a. Unit cost of water paid by PWSD No. 2 to KCMO, plus 15 percent to account for system losses.
2. Operation and Maintenance Cost for Shared Facilities
 - a. Sum of the following allocations divided by the total gallons sold by the PWSD No. 2:
 - i. Salaries and Benefits expenses for staff are 50 percent attributable to operation and maintenance of the facilities. Of this 50 percent share, 33 percent of it is attributable to shared transmission, pumping, and storage facilities.
 - ii. Repairs and maintenance expenses are 25 percent attributable to the shared facilities, with the exception of water tower maintenance, which is 100 percent attributable.
 - iii. Telephone and power utility expenses are 75 percent attributable to shared facilities.
3. Cost Recovery Component on Shared Facilities

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- a. Total annual outstanding debt service on shared facilities divided by the total gallons sold by PWSD No. 2.
4. Monthly Meter Charge per Meter Based on Current KCMO Service Charges for Meters Outside the City Limits

It has been reported that the current water rate for the City is \$5.21 per 1000 gallons.

4. Supplier Overview

a. Descriptions

i. PWSD No. 2

Cass County Public Water Supply District No. 2 was organized in November 1967 under Chapter 247 of the Revised Statutes of Missouri (RSMO). PWSD No. 2 began in 1970 purchasing water from the City of Belton, MO and distributing water to approximately 300 customers. PWSD No. 2 has grown to service approximately 1450 customers today. PWSD No. 2 currently purchases wholesale water from KCMO and sells to residential, retail and wholesale customers. The City is currently under contract to purchase water from PWSD No. 2, as stated in the Current Contract Section of this memorandum.

ii. Kansas City, MO Water Services (KCMO)

Kansas City, Missouri Water Services maintains and operates water collection, treatment, and distribution systems; wastewater collection and treatment systems; and stormwater management systems for 460,000 Kansas City residents, 170,000 residential and business customers in Kansas City and for 33 wholesale water customers in the Kansas City region. Currently, the top ten wholesale water customers by consumption include:

1. City of Lee's Summit
2. Jackson County PWSD No. 1
3. City of Belton
4. City of Blue Springs
5. City of Raymore
6. Raytown Water Company
7. Dogwood Energy
8. Veolia – Kansas City
9. Kansas City Power and Light
10. Jackson County PWSD No. 2

The operation is funded by fees charged to customers based on their use or impacts on the water utility systems.

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By making a water purchase agreement with KCMO, the City would be able to bypass any additional fees charged by public water suppliers that currently purchase and resell water from KCMO.

iii. WaterOne

WaterOne of Johnson County, KS serves over 400,000 people in a 272 square mile service area, including unincorporated parts of Johnson County. WaterOne is an independent public water utility. WaterOne serves customers in the following 17 cities:

- DeSoto (partial)
- Fairway
- Lake Quivira
- Leawood
- Lenexa
- Merriam
- Mission
- Mission Hills
- Mission Woods
- Olathe (partial)
- Overland Park
- Prairie Village
- Roeland Park
- Shawnee
- Spring Hill (partial)
- Westwood
- Westwood Hills

Its service connections in the cities listed above extend into parts of Wyandotte County and Miami County. WaterOne has infrastructure within the city limits of Bonner Springs and Gardner, but does not currently provide service to customers in those jurisdictions.

Similar to KCMO, if the City were to enter into a water purchase agreement with WaterOne, they would be able to bypass any additional fees charged by public water suppliers that currently purchase and resell water from WaterOne.

iv. Belton, MO

The City of Belton, MO is currently under contract to purchase water from KCMO. The current water purchase agreement provides a maximum 4.0 MGD. The contract expired on May 17, 2007, however, both parties agreed to continue under the terms of the expired agreement.

Belton is currently investigating a dual source supply in order to meet the projected 20-year water demands. The current initiative is to negotiate a new agreement with KCMO to provide the original maximum 4.0 MGD for an additional 20 years and enter into a water purchase agreement with WaterOne for additional water demands.

During these negotiations, it may be possible for Belton to request the additional supply from WaterOne to sell to the City.

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v. Jackson PWSD No. 1

Jackson County Public Water Supply District No. 1 (Jackson PWSD No. 1) is currently under contract to purchase water from KCMO. Approximately 2.5 years ago, Jackson PWSD No. 1 expressed interest and is moving forward with purchasing water from Tri-County as they go through their expansion activities.

Jackson PWSD No. 1 purchased their water based on unallocated demand in Grain Valley; Grain Valley forfeited a portion of their contract with Tri-County, which created availability of water for Jackson PWSD No. 1. Tri-County will provide 2.5 MGD average day demand and 4.0 MGD maximum day demand, which corresponds with Jackson PWSD No. 1's current demands. Jackson PWSD No. 1 will discuss a potential connection with Peculiar via the Board. However, in order to allocate an additional 1.0 to 2.5 MGD to the City, it would take a multi-community approach to seize the capacity on forfeited contracts, as well as capital costs of transmission.

Jackson PWSD No. 1 does not have the capacity or transmission mains to provide water to the City at this time and will not be considered in the following analysis.

vi. Tri-County

Tri-County Water Authority treats water for three counties; Jackson, Cass, and Bates County, including the City of Grain Valley, Blue Springs, Pleasant Hill, Lake Winnebago, and East Lynne. The service area extends from Sibley down to Harrisonville, MO. The Tri-County plant was built in 1993 and the first expansion was in 2004.

Expansions to the water treatment plant and water distribution are currently under construction. Discussions with Tri-County determined that approximately 2.5 years ago Tri-County asked communities to ascertain their interest in water supply. Up to one year ago they could have potentially accommodated an additional customer, but currently all of the water they can provide from their water treatment plant is allocated (20.5 MGD). Any connections to Tri-County, at this time, would require a transmission main all the way to the water treatment plant and a process expansion would be necessary; cost prohibitive for any single community. It was mentioned that Tri-County goes through planning every 7-10 years for treatment plant expansions and additional distribution, at which time the City could declare interest for a more reasonable cost.

Tri-County does not have the capacity or transmission mains to provide water to the City at this time and will not be considered in the following analysis.

In summary, PWSD No. 2, KCMO, WaterOne, and Belton will be the only suppliers used in the following evaluations by Burns & McDonnell.

b. Water Quality

The goal of disinfection is to destroy or inactivate pathogenic organisms to a given level. Several disinfectants are commonly used in the water and wastewater industries, each with unique characteristics, such as safety of handling, stability during storage, toxicity to microorganisms, nontoxicity to humans and animals, and solubility in water or cell tissue. Furthermore, strength or concentration of the disinfectant should be measurable (i.e., there should be residual disinfectant in the water after disinfection to prevent infection in the water during transportation). Chlorine is a commonly used disinfectant in both water and wastewater treatment plants because it is effective at inactivating most pathogens and can provide a residual in water distribution systems to limit microbial growth. It is common practice to have a chlorine (or chloramine) residual of 1.0 to 2.0 parts per million (ppm) to limit microbial growth and is maintained in the distribution. The United States Environmental Protection Agency (USEPA) requires that no more than 4.0 ppm be detected in tap water. The water quality reports from each supplier for 2014 were used to confirm compliance with regulations compare residual chlorine concentrations in the water distribution systems (**Table 2**). All four suppliers maintain a chloramine concentration between 1.0 and 2.0 ppm, with the exception of WaterOne, which had an average chloramine exceedance of 4.4 ppm reported in 2014, as shown in **Table 2**, below.

Table 2: Chloramine Residual Concentration Comparison

Analyte	USEPA	KCMO			PWSD No. 2		WaterOne			Belton		
	MCL	Avg	Min	Max	Min	Max	Avg	Min	Max	Avg	Min	Max
Chloramines (ppm)	4	2.27	1.47	3.07	1.53	2.57	2.8	1.3	4.4	1.78	1.2	2.2

Chlorine and associated chlorine residuals tend to produce disinfection by-products (DBP) which may be harmful to humans. In 1974, it was discovered that chemicals often used to disinfect water in municipal systems react with naturally occurring organic matter in the water to create a variety of DBPs. The four DBPs most commonly used to indicate adverse reactions to disinfection are referred to as trihalomethanes (THMs) and include:

- Chloroform
- Bromodichloromethane
- Dibromochloromethane
- Bromoform

The discovery of THMs in drinking water led to research on other chemicals formed when chlorine is added to water, and to the health effects of these chemicals. More than 600 DBPs were

identified in chlorinated tap water, including haloacetic acids (HAAs). THMs (80 micrograms per liter (µg/L)) and HAAs (60 µg/L) are currently used by the USEPA as indicator chemicals for all potentially harmful compounds formed by the addition of chlorine to water. Regulated DBPs are also formed by alternative disinfection methods, such as, bromate (10 µg/L) formed in ozone disinfection and chlorite (1 mg/L) formed in chlorine dioxide disinfection.

Currently unregulated DBPs include monochloramine, N-Nitrodimethylamine (NDMA), and iodinated DBPs (I-DBPs are formed from iodine). However, the World Health Organization (WHO) does provide guidelines for the unregulated DBPs that may become USEPA requirements as substantial data is built. All four suppliers reported THM and HAA concentrations well below the USEPA maximum contaminant level (MCL). The comparison of DBP concentrations for each supplier, according to the 2014 water quality reports, are provided in **Table 3**, below. WaterOne is the only supplier included in this analysis to provide water quality information on the four primary THMs, described above. All concentrations were reported below the WHO MCL.

Table 3: DBPs Concentration Comparison

Analyte	USEPA	KCMO			PWSD No. 2		WaterOne			Belton		
	MCL	Avg.	Min.	Max.	Min.	Max.	Avg.	Min.	Max.	Avg.	Min.	Max.
Haloacetic Acids (HAA) (ppb)	60	14.8	6.9	35.5	5.2	40.9	19	1	30.6	18.5	NA	31.8
Total Trihalomethanes (THMs) (ppb)	80	8.3	2.4	48.9	1.8	13.8	26	9.6	45.1	8	4.38	13

Water suppliers should be able to balance protecting the customers from pathogens and minimizing the health risks from disinfection by-products. Since waterborne pathogens pose a real and more immediate threat to health, water disinfection by-products become a secondary concern when comparing water quality reports. KCMO and WaterOne reported total coliform concentrations below the USEPA MCL.

In summary, all four suppliers provide water that meets the regulated water quality parameters set forth by the USEPA. Residual chlorine concentrations, DBPs and pathogens are not considered a health risk with any of the suppliers; however, disinfection and chemical addition should be analyzed for detrimental interactions if water is being supplied from two different suppliers. A summary of the water quality data provided in the 2014 water quality reports from each supplier is provided in **Table 4**, attached.

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c. Contract Terms

i. PWSD No. 2

It is anticipated that the contract terms for PWSD No. 2 would be similar to the current contract with increased capacity. Details of the current contract are summarized in the Current Contract section of this memorandum. In order to renegotiate capacity, the City must allow a minimum of one year for capacity negotiations between PWSD No. 2 and their supplier, KCMO.

A water purchase agreement established between the City and KCMO would extend over a contract term of twenty years. However, the City is allowed the following emergency connections under the KCMO contract:

- Cass No. 2: 211th & Harper Road, 211th & Peculiar Drive, Sienna & Peculiar Drive
- Cass No. 7: N.W. corner 227th & Harper Road
- Cass No. 10: Base of tower, 211th Street behind house 12107 211th Street

ii. KCMO

The KCMO water purchase agreement would be a sole source agreement. If the City decides to purchase water from other sources, it would be for amounts in excess of what KCMO can provide or an additional emergency connection. The KCMO water purchase agreement includes repurchase, resale, and storage requirements similar to existing PWSD No. 2 contract terms. However, notification of contract termination must occur two years prior, as opposed to the current contract termination notification due one year prior. Language in Article III.1 (Control System) requires Peculiar to minimize changes in flow at the meter. If flows were to reduce to zero during high demand periods, equalization storage will be required. The City currently satisfies KCMO's requirement for storage, but would need to add an additional 0.5 MGD storage prior to reaching an average day demand of 0.7 MGD. It would also be necessary to determine the types of operating records KCMO would like to receive and how frequently.

iii. WaterOne

WaterOne currently cannot provide a general wholesale agreement to the City. Before WaterOne can enter into a wholesale agreement, they are required by Kansas State Statutes to enter into an interlocal agreement that outlines the intent of drafting a wholesale agreement with other governmental agencies.

iv. Belton

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Belton also does not currently have a general wholesale agreement. It will be assumed that Belton can agree to similar terms and conditions as the current water supplier contract Peculiar currently holds.

d. Connection Locations

The point of connection is important in determining the capital costs for building the transmission lines and infrastructure required to connect to the existing system of a water supplier. For all of the suppliers, the connection location was determined by identifying and appropriately size supply line located closest to the City; conversations with each supplier confirmed the locations.

i. PWSD No.2

Although transmission lines to PWSD No. 2 have already been established, PWSD No. 2 identified that the transmission line from the KCMO meter to the PWSD No. 2 master meters that provide the City water, would likely need to be upsized to provide additional flow.

ii. KCMO

Direct connection to the KCMO water distribution line would require a new 12 inch or 16 inch line to be installed from the elevated water storage tank near the intersection of East Hubach Hill Road and Highway J in Raymore, MO approximately 4.1 miles to the intersection of Highway J and I-49 in Peculiar.

iii. WaterOne

To provide a direct connection to the WaterOne water distribution line, approximately 3.2 miles of 20 inch pipe from 199th Street and Stateline to 199th Street and Metcalf Avenue in Johnson County, KS and an additional 10.5 miles of transmission line to 219th Street and Harper in the City, for a total of approximately 13 miles of transmission line.

iv. Belton

The connection point to the Belton water supply, provided by future WaterOne connection, would be at the intersection of South Cleveland Avenue and Palo Verde Drive in Belton. This transmission line will connect to the City's distribution system at 219th St and Harper. The total length of this 12 inch or 16 inch transmission line is approximately 9 miles.

The attached **Figure 1** provides the location and transmission length for all four suppliers.

e. Connection Fees

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There are a variety of fees associated with establishing new water supplier connections or increasing capacity with existing water suppliers. The fees that will be evaluated in this study will be associated with the projected demand for a 1 percent increase in population and development of the Peculiar Way Interchange (up to 1.0 MGD) and include the following:

- Capital Costs
 1. System Development Charge (SDC)
 2. Estimated Infrastructure Costs
 - Master Meters
 - Pipe
 - Connections
 - Valves
 - Air Release Valves
 - Ditch Crossings
 - Driveway Crossings
 - Parking Lot Crossings
 - Stream Crossings
 - Bond Insurance/Mobilization (5 percent)
 - Flushing Hydrants
 - SCADA Modifications
 - Contingency (30 percent)
 - Engineering, Legal, and Administrative Costs (10 percent)
 - Pump Stations
 - Road Crossings
 - Highway Crossings
 - Construction Observations (4.5 percent)
 - Survey (5 percent)
- Water Rate
 1. System Development Charge (SDC) Commodity Rate
 2. Operation and Maintenance Cost for Shared Facilities (O&M)
 3. Cost Recovery Component on Shared Facilities (CRC)
 4. Monthly Meter Charge per Meter

i. PWSD No. 2

The Service Delivery Charge (SDC) for renegotiating with PWSD No. 2 was paid at the initiation of the water purchase agreement in 1990. There would be no additional SDC to increase capacity under this contract. The commodity rate, Operations and Maintenance (O&M), CRC, and Monthly Meter Charges would remain the same as outlined in the contract summarized above and increase with inflation during the contract term. The summation of these charges under the water purchase agreement is \$5.21 per 1000 gallons of water. In addition, PWSD No. 2 estimates that upsizing the supply line from KCMO to the master meter to provide for the increase capacity would cost

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approximately \$500,000 to \$750,000 and does not include any upgrades to facilities within the City's distribution system.

ii. KCMO Connection

The SDC for establishing a new water purchase agreement with KCMO would be approximately \$817,000 for 1.0 MGD for a 20-year contract period. The current commodity rate for unrestricted wholesale customers is \$2.90 per 1000 gallons of water. The water rates established by Chapter 78 of the Code of Ordinances of KCMO do not provide O&M and CRC rates, therefore it is assumed that these fees are not charged by this supplier. The transmission costs to connect to the KCMO supply line approximately 4.1 miles away is approximately \$3,300,000. The recommended transmission line is 0.75 miles of 16 inch diameter line from the existing KCMO water tower to the location of the proposed elevated storage tank, then a 12 inch diameter line from proposed elevated storage tank to the tie-in to the existing 8 inch line at Old Town Road on Highway J. In order to provide water to the interchange development area, the cost of replacing 1.5 miles of 4 and 6 inch line along Peculiar Way with a 12 inch transmission line was included in the opinion of probable cost. These costs are summarized in **Table 5** below.

Table 5: Summary of Probable Costs for Transmission Line from KCMO Supply

Item No.	Description	Quantity	Units	Unit Price	Estimated Cost
1	16" PVC	4,000	LF	\$67	\$270,000
2	12" PVC	25,000	LF	\$52	\$1,300,000
3	Connections	4	EA	\$5,000	\$20,000
4	Valves	15	EA	\$3,000	\$50,000
5	Road Crossings	15	EA	\$10,000	\$150,000
6	Master Meter	1	EA	\$75,000	\$80,000
7	Air Release Valves	6	EA	\$5,000	\$30,000
8	Highway J Crossing	1	EA	\$20,000	\$20,000
9	Driveway Crossing	40	EA	\$2,000	\$80,000
10	Stream Crossing (HDD)	800	LF	\$300	\$240,000
11	Flushing Hydrant	5	EA	\$3,750	\$20,000
12	SCADA Modifications	1	EA	\$20,000	\$20,000
13	Bond/Insurance/Mobilization	5%	LS	\$101,000	\$110,000
Construction Cost					\$2,120,000
Contingency 30%					\$640,000
Subtotal					\$2,760,000
Engineering, Legal, & Admin 10%					\$280,000
Construction Observation 4.5%					\$120,000
Survey 5%					\$140,000
Total					\$3,300,000

iii. WaterOne Connection

The SDC for establishing a new water purchase agreement with WaterOne would be approximately \$1,200,000 for 1.0 MGD for a 20-year contract period. The current commodity rate for wholesale customers is \$3.29 per 1000 gallons. The O&M, CRC and Monthly Meter Charges are accounted for in the commodity rate. The transmission costs to connect to the WaterOne supply line approximately 13 miles away is approximately \$7,500,000 for a 12 inch diameter transmission line and \$9,200,000 for a 16 inch diameter transmission line. These costs are summarized in **Table 6** and **Table 7**, respectively.

Table 6: Summary of Probable Costs for 12 3inch Transmission Line from WaterOne Supply

Item No.	Description	Quantity	Units	Unit Price	Estimated Cost
1	12" PVC	67,000	LF	\$52	\$3,480,000
2	Connections	2	EA	\$5,000	\$10,000
3	Valves	17	EA	\$3,000	\$50,000
4	Road Crossings	15	EA	\$10,000	\$150,000
5	Pump Station	2	EA	\$200,000	\$400,000
6	Master Meter	1	EA	\$75,000	\$80,000
7	Air Release Valves	6	EA	\$5,000	\$30,000
8	Highway Y Crossing	1	EA	\$25,000	\$30,000
9	Highway D Crossing	1	EA	\$25,000	\$30,000
10	Driveway Crossing	62	EA	\$2,000	\$130,000
11	Ditch Crossing	2	EA	\$5,000	\$10,000
12	Railroad Crossing	1	LS	\$50,000	\$50,000
13	Stream Crossing	300	LF	\$300	\$90,000
14	Flushing Hydrant	14	EA	\$3,750	\$50,000
15	SCADA Modifications	1	EA	\$20,000	\$20,000
16	Bond/Insurance/Mobilization	5%	LS	\$230,000	\$230,000
Construction Cost					\$4,840,000
Contingency 30%					\$1,450,000
Subtotal					\$6,290,000
Engineering, Legal, & Admin 10%					\$630,000
Construction Observation 4.5%					\$280,000
Survey 5%					\$310,000
Total					\$7,510,000

Table 7: Summary of Probable Costs for 16 Inch Transmission Line from WaterOne Supply

Item No.	Description	Quantity	Units	Unit Price	Estimated Cost
1	16" PVC	67,000	LF	\$67	\$4,490,000
2	Connections	2	EA	\$5,000	\$10,000
3	Valves	17	EA	\$3,000	\$50,000
4	Road Crossings	15	EA	\$10,000	\$150,000
5	Pump Station	2	EA	\$200,000	\$400,000
6	Master Meter	1	EA	\$75,000	\$80,000
7	Air Release Valves	6	EA	\$5,000	\$30,000
8	Highway Y Crossing	1	EA	\$25,000	\$30,000
9	Highway D Crossing	1	EA	\$25,000	\$30,000
10	Driveway Crossing	62	EA	\$2,000	\$130,000
11	Ditch Crossing	2	EA	\$5,000	\$10,000
12	Railroad Crossing	1	LS	\$50,000	\$50,000
13	Stream Crossing	300	LF	\$300	\$90,000
14	Flushing Hydrant	14	EA	\$3,750	\$50,000
15	SCADA Modifications	1	EA	\$20,000	\$20,000
16	Bond/Insurance/Mobilization	5%	LS	\$281,000	\$290,000
Construction Cost					\$5,910,000
Contingency 30%					\$1,770,000
Subtotal					\$7,680,000
Engineering, Legal, & Admin 10%					\$770,000
Construction Observation 4.5%					\$350,000
Survey 5%					\$380,000
Total					\$9,180,000

iv. Belton Connection

The SDC for establishing a new water purchase agreement with Belton would be approximately \$800,000 for 1.0 MGD for a 20-year contract period. The current commodity rate for wholesale customers is \$5.24 per 1000 gallons. The O&M, CRC and Monthly Meter Charges are accounted for in the commodity rate. The transmission costs to connect to the Belton supply line approximately 9

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miles away is approximately \$5,700,000 for a 12 inch diameter transmission line and \$6,900,000 for a 16 inch diameter transmission line. These costs are summarized in **Table 8 and 9**, respectively.

Table 8: Summary of Costs for 12 Inch Transmission Line from Belton Supply

Item No.	Description	Quantity	Units	Unit Price	Estimated Cost
1	12" PVC	48,000	LF	\$52	\$2,500,000
2	Connections	2	EA	\$5,000	\$10,000
3	Valves	15	EA	\$3,000	\$50,000
4	Pump Station	1	EA	\$200,000	\$200,000
5	Road Crossings	15	EA	\$10,000	\$150,000
6	Master Meter	1	EA	\$75,000	\$80,000
7	Air Release Valves	5	EA	\$5,000	\$30,000
8	Highway Y Crossing	1	EA	\$25,000	\$30,000
9	Driveway Crossing	45	EA	\$2,000	\$90,000
10	Stream Crossing (HDD)	900	LF	\$300	\$270,000
11	Flushing Hydrant	14	EA	\$3,750	\$50,000
12	SCADA Modifications	1	EA	\$20,000	\$20,000
13	Bond/Insurance/Mobilization	5%	LS	\$174,000	\$180,000
Construction Cost					\$3,660,000
Contingency				30%	\$1,100,000
Subtotal					\$4,760,000
Engineering, Legal, & Admin				10%	\$480,000
Construction Observation				4.5%	\$210,000
Survey				5%	\$240,000
Total					\$5,690,000

Table 9: Summary of Probable Costs for 16 Inch Transmission Line from Belton Supply

Item No.	Description	Quantity	Units	Unit Price	Estimated Cost
1	16" PVC	48,000	LF	\$67	\$3,220,000
2	Connections	2	EA	\$5,000	\$10,000
3	Valves	15	EA	\$3,000	\$50,000
4	Pump Station	1	EA	\$200,000	\$200,000
5	Road Crossings	15	EA	\$10,000	\$150,000
6	Master Meter	1	EA	\$75,000	\$80,000
7	Air Release Valves	5	EA	\$5,000	\$30,000
8	Highway Y Crossing	1	EA	\$25,000	\$30,000
9	Driveway Crossing	45	EA	\$2,000	\$90,000
10	Stream Crossing (HDD)	900	LF	\$300	\$270,000
11	Flushing Hydrant	14	EA	\$3,750	\$50,000
12	SCADA Modifications	1	EA	\$20,000	\$20,000
13	Bond/Insurance/Mobilization	5%	LS	\$210,000	\$210,000
Construction Cost					\$4,410,000
Contingency					30% \$1,320,000
Subtotal					\$5,730,000
Engineering, Legal, & Admin					10% \$570,000
Construction Observation					4.5% \$260,000
Survey					5% \$290,000
Total					\$6,850,000

3. Storage Requirements

For any supplier, it is recommended that a 500,000 gallon (minimum) elevated storage tank be provided at trigger demands. This elevated tank will provide the storage necessary to meet the contract terms requiring equalization and emergency storage. The location of the tank and the trigger demand should be evaluated after the selection of the supplier and connection points. The bid price for the City’s existing 400,000 gallon elevated storage tank was \$640,857 in 2005; making the unit cost \$1.60 per gallon. This unit cost was applied to the 500,000 gallon requirement and inflated to meet 2016 dollar value (\$2.18/gallon). Using the inflated unit cost, the estimate of probable cost for an additional elevated storage tank today is \$1,100,000.

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The elevated storage was not included in the NPV evaluation and capital cost assessments. For further discussion regarding elevated storage reference the Hydraulic Model Review and Update Technical Memorandum.

4. Cost Opinion Development

These order-of-magnitude cost opinions are based primarily on our experience and judgment as a professional consultant combined with information from past experience, vendors, and published sources. Since Burns & McDonnell has no control over weather, cost, availability of labor, availability of material and equipment, labor productivity, construction contractors procedures and methods, unavoidable delays, construction contractors methods of determining prices, economic conditions, government regulations and laws (including the interpretation thereof), competitive bidding or market conditions, and other factors affecting such opinions or projections, Burns & McDonnell does not guarantee the actual rates, costs, etc. will not vary from the opinions and projections developed herein.

A 30 percent contingency allowance is included to cover all types of unaccounted-for project costs resulting from conditions, details, or components which are not normally known or determined until final detailed design. Costs specifically do not include geotechnical evaluations, deep foundations, surveys, permitting preparation and fees, utility services to site, taxes and bonds, and escalation. All costs are based on an ENR construction cost index 10,989 for Kansas City, MO as of March 2016.

5. Net Present Value Evaluation

The net present value evaluation provides a cumulative representation of the present value of cash outflows through the 20-year contract period. The values calculated provide an estimation for capital budgeting and a reasonable value to compare supplier costs of the contract term. The results of the analysis provide a prediction of the demand at which an alternate supplier will provide the supply at a lower cost than the current supplier. A net present value evaluation was performed for three scenario:

1. Residential Growth for Existing Customers and Projected Interchange Demand (1.0 MGD)
2. Residential Growth for Existing Customers, Projected Interchange Demand, and Projected PWSD Interchange Demand (2.3 MGD)
3. Residential Growth for Existing Customers Only (0.7 MGD)

These scenarios represent the anticipated, best- and worst-case scenarios for projected average day demand expected for the City. A linear approximation of the demand was developed from the current average day demand of approximately 260,000 gpd in 2015 to the average day demand

Memorandum (cont'd)



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projected for each scenario in year 2035. It should be noted that demand may not increase linearly over the 20-year period; changes in demand are more likely to occur after development is completed, which cannot be projected for all scenarios. Using linear demand curves provides an analogous demand projection for a reasonable comparison of scenarios. The demand curve and the wholesale unit cost from each supplier was then used to calculate the cost of water per gallon. An inflation rate of 5 percent was applied to the wholesale unit cost from each supplier each year for the entire 20-year period. A 4 percent net present value discount rate was applied to the sum of the capital costs and cost of water per year.

Note: The capital costs considered in this evaluation were the SDC for 1.0 MGD and transmission estimates. These were summed and represented in the year 2015 for each supplier. The summary of the SDC, transmission, and wholesale unit costs for each supplier is provided in **Table 10**.

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Table 10: Supplier Comparisons

	Cass 2*	KCMO	WaterOne	Belton	TriCounty
SDC at 0.7 MGD for 20 Years	\$0	\$580,000	\$840,000	\$560,000	\$2,450,000
SDC at 1.0 MGD for 20 Years	\$750,000	\$817,000	\$1,200,000	\$800,000	\$3,500,000
SDC at 2.3 MGD for 20 Years	\$750,000	\$1,880,000	\$2,760,000	\$1,840,000	\$8,050,000
Transmission Cost (12" Diameter)	\$0	\$3,300,000	\$7,500,000	\$5,690,000	\$58,000,000
Transmission Cost (16" Diameter)	\$0	N/A	\$9,170,000	\$6,850,000	\$58,000,000
Wholesale Unit Water Cost (\$/1000 gallon)	\$5.21	\$2.90	\$3.29	\$5.24	\$2.43

*additional information was unavailable from KCMO regarding Cass 2 costs for added water from supply

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Residential Growth for Existing Customers and Projected Interchange Demand (1.0 MGD)

This scenario represents the anticipated increase in demand for the existing residential customer and the demand for the industrial and commercial development of the east side of the Peculiar Way Interchange. The NPV analysis determined that at an average day demand of approximately 480,000 gpd, the cumulative NPV for the KCMO supply becomes lower than continuing with the supply from PWSD No. 2. If demand were to occur in a linear trend until 2035, it is estimated that this savings will be reflected around year 2025. **Figure 2** provides a comparison of the cumulative NPV of water supplier costs for this scenario.

Residential Growth for Existing Customers, Projected Interchange Demand, and Projected PWSD Interchange Demand (2.3 MGD)

This scenario represents the highest demand projected and includes the existing residential customer and the industrial and commercial development on both the east and west side of the Peculiar Way Interchange. The NPV analysis determined that at an average day demand of approximately 1,000,000 gpd, the NPV for the KCMO supply becomes lower than continuing with the Cass 2 supply. At approximately 1,450,000 gpd, the NPV for WaterOne also becomes lower than continued service with the supply from PWSD No. 2. If demand were to occur in a linear trend until 2035, it is estimated that this savings for switching to KCMO supply will be reflected around year 2023. **Figure 3** provides a comparison of the cumulative NPV of water supplier costs for this scenario.

Residential Growth for Existing Customers Only (0.7 MGD)

This scenario represents the demand if development of the Peculiar Way Interchange were to cease and only includes the existing residential customers. The NPV analysis determined that at an average day demand of approximately 310,000 gpd, the NPV for the KCMO supply becomes lower than continuing with the supply from PWSD No. 2. Since this scenario is often predicted linearly, it could be said with confidence that this savings can be expected around year 2030. **Figure 4** provides a comparison of the cumulative NPV of water supplier costs for this scenario.

6. Recommendations

It is recommended that the City move forward with buying water from KCMO, as initially suggested in the Water Systems Engineering Report. The following summarizes our recommendation:

- The water quality will not change or interact with the current water supply characteristics since PWSD No. 2 source of supply is provided water through KCMO.
- The contract terms are similar to the current contract terms, however the following contract terms will require clarification and include:
 - The anticipated number of hours, time of day, and period of year that KCMO could reduce the supply to no flow conditions; these items are currently being reviewed by KCMO and will be provided to the City following the review.
 - The documentation requirements for what type of operating documents need to be submitted and how often.
- The NPV analysis identified that in all three demand scenarios, KCMO would become the most cost-effective alternative of the suppliers evaluated.
- The trigger demand for the need of an elevated storage tank for KCMO is an average day demand of 514,000 gallons per day. At a linear growth rate for the existing City service area and projected development, the need for the elevated storage tank and PRV station is not likely to occur until year 2026.

Additional CIP items for the KCMO alternative will be identified and detailed in the Hydraulic Model Review and Update Technical Memorandum.

Table 4: Water Quality Summary

Analyte	MCL	MCL Goal	KCMO			PWSD #2		WaterOne			Belton			TriCounty
			Avg	Min	Max	Min	Max	Avg	Min	Max	Avg	Min	Max	Max
Inorganic Contaminants														
Arsenic (ppb)	10	0	NA	NA	NA	NA	NA	1.5	1	1.5	NA	NA	NA	1.13
Barium (ppm)	2	2	0.011	0.006	0.024	0.006	0.025	0.04	0.03	0.04	NA	NA	NA	0.0465
Chloramines (ppm)	4	4	2.27	1.47	3.07	1.53	2.57	2.8	1.3	4.4	1.78	1.2	2.2	NA
Chlorine Dioxide (ppb)	800	800	NA	NA	NA	NA	NA	147	50	147	NA	NA	NA	NA
Chlorite (ppm)	1	0.8	NA	NA	NA	NA	NA	0.3	0.08	0.7	NA	NA	NA	NA
Chromium (ppb)	100	100	3	3	4	2.35	4	2.9	2.6	2.9	3.54	2.26	3.54	1.89
Copper (ppm)	1.3	1.3	0.004	0	0	0.002	0.031	0.018	0	0.018	0.005	NA	NA	NA
Cyanide (ppb)	200	200	2	2	13	NA	NA	30	20	30	NA	NA	NA	NA
Fluoride (ppm)	4	4	0.72	0.14	1.11	0.17	1.23	1.48	0.22	1.48	NA	NA	NA	0.15
Lead (ppb)	15	0	0.002	0	0	NA	NA	4	0	4	1.29	NA	NA	NA
Nitrate (ppm)	10	10	1.39	0.08	5.65	0	4.5	1.9	0.2	1.9	NA	NA	NA	0.29
Selenium (ppm)	50	50	1.9	NA	3.2	1.05	2.38	3.4	1	3.4	NA	NA	NA	NA
Synthetic Organic Contaminants														
Atrazine (ppb)	3	3	0.22	0.2	2.1	0	1.07	0.2	0.2	1.1	NA	NA	NA	NA
Haloacetic Acids (HAA) (ppb)	60	NA	14.8	6.9	35.5	5.2	40.9	19	1	30.6	18.5	NA	31.8	15
Total Trihalomethanes (THMs) (ppb)	80	NA	8.3	2.4	48.9	1.8	13.8	26	9.6	45.1	8	4.38	13	9.34
Microbial Contaminants														
Total Coliforms (1/100 mL)	NA	0	0.2%	0.0%	0.8%	NA	NA	0.8%	0.0%	0.8%	NA	NA	NA	NA
Total Organic Carbon (TT)	1	NA	NA	NA	NA	NA	NA	1	1.8	2.6	NA	NA	NA	NA
Turbidity (NTU)	NA	NA	0.09	0.04	0.29	NA	NA	0.68	NA	NA	NA	NA	NA	NA
Radiological Contaminants														
Beta Particle & Photon Radioactivity (pCi/L)	50	0	NA	NA	NA	NA	NA	4.5	3	4.5	NA	NA	NA	NA
Uranium (ppb)	30	0	NA	NA	NA	NA	NA	0.7	0.7	0.7	NA	NA	NA	NA
Unregulated Parameters														
Alkalinity (ppm)	300	40	32	20	59	17	254	66	49	83	NA	NA	NA	83.5
Ammonia (as N)	NA	NA	0.2	0.07	0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron (ppm)	NA	NA	NA	NA	NA	0.049	0.093	NA	NA	NA	NA	NA	NA	NA
Bromide (ppm)	NA	NA	NA	NA	NA	0	2.02	NA	NA	NA	NA	NA	NA	NA
Bromochloroacetic Acid (ppm)	NA	NA	NA	NA	NA	0.001	0.001	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane (ppb)	NA	NA	NA	NA	NA	NA	NA	4.7	2.2	6.4	NA	NA	NA	NA
Calcium (ppm)	NA	NA	35.7	31.9	39	34.2	42.4	32	23	53	NA	NA	NA	14.7
Total Organic Carbon (TOC) (ppm)	#####	NA	NA	NA	NA	NA	NA	2.5	1.5	8.6	NA	NA	NA	NA
Chlorate (ppb)	NA	NA	NA	NA	NA	NA	NA	175	140	200	NA	NA	NA	NA
Chlorodibromomethane (ppb)	NA	60	NA	NA	NA	NA	NA	1.7	0.5	4	NA	NA	NA	NA
Chloroform (ppb)	NA	70	NA	NA	NA	NA	NA	24	6.7	94.3	NA	NA	NA	NA
Conductivity (µmhos/cm)	1500	NA	NA	NA	NA	NA	NA	628	305	945	NA	NA	NA	NA
Dichloroacetic Acid (ppb)	NA	0	NA	NA	NA	NA	NA	16	7.5	46	NA	NA	NA	NA
Hardness (Carbonate) (ppm)	NA	NA	105	81	124	88	186	NA	NA	NA	NA	NA	NA	113
Hardness (Calcium) (ppm)	200	60	NA	NA	NA	NA	NA	78	59	133	NA	NA	NA	NA
Hardness (Magnesium) (ppm)	150	50	NA	NA	NA	NA	NA	49	7	88	NA	NA	NA	NA
Hardness (Total) (ppm)	400	200	NA	NA	NA	NA	NA	128	68	163	NA	NA	NA	NA
Iron (ppm)	NA	NA	NA	NA	NA	0.004	0.058	NA	NA	NA	NA	NA	NA	NA
Magnesium (ppm)	150	50	5.2	3.23	6.55	3.56	6.83	12	2	21	NA	NA	NA	18.5
Manganese (ppm)	0.05	NA	NA	NA	NA	0	0.004	NA	NA	NA	NA	NA	NA	0.00731
Metolachlor (ppb)	NA	NA	NA	NA	NA	0	0.69	NA	NA	NA	NA	NA	NA	NA
Monochloroacetic Acid (ppb)	NA	70	NA	NA	NA	NA	NA	2	1	5.1	NA	NA	NA	NA
Nickel (ppb)	100	100	NA	NA	NA	NA	NA	1	1	1.1	NA	NA	NA	NA
pH (SU)	8.5	9	9.8	8.6	10.3	6.9	10.4	9.6	9.4	9.9	NA	NA	NA	8.18
Phosphorus (Total) (ppm)	5	NA	NA	NA	NA	NA	NA	0.2	0.05	0.4	NA	NA	NA	NA
Potassium (ppm)	100	20	NA	NA	NA	5.75	6.79	7.2	5.5	9.6	NA	NA	NA	6.33
Silica (ppm)	50	NA	NA	NA	NA	2.92	4.81	8.4	2.9	12.7	NA	NA	NA	NA
Sodium (ppm)	100	20	65.5	35.3	81.3	44.3	80.5	64	19	130	NA	NA	NA	49.8
Trichloroacetic Acid (ppb)	NA	20	NA	NA	NA	NA	NA	2.9	1.5	8.9	NA	NA	NA	NA
Constituents Having Secondary MCL's														
Aluminum (ppb)	200	NA	NA	NA	NA	0	0.061	8	5	15	NA	NA	NA	NA
Chloride (ppm)	250	NA	NA	NA	NA	NA	NA	67	21	170	NA	NA	NA	23.9
Copper (ppm)	1000	NA	NA	NA	NA	NA	NA	1	1	3	NA	NA	NA	NA
Corrosivity (SI)	0	NA	NA	NA	NA	NA	NA	1.19	0.72	1.61	NA	NA	NA	NA
Fluoride (ppm)	2	NA	NA	NA	NA	NA	NA	0.63	0.22	1.48	NA	NA	NA	NA
Odor Threshold (T.O.N)	3	NA	NA	NA	NA	1	6	1	1	5	NA	NA	NA	NA
Sulfate (ppm)	250	NA	179	54	228	65.8	227	133	36	209	NA	NA	NA	103
Total Dissolved Salts (TDS) (ppm)	500	NA	NA	NA	NA	120	630	376	183	567	NA	NA	NA	288
Zinc (ppb)	5000	NA	NA	NA	NA	0	0.006	10	5	14	NA	NA	NA	6.76
Unregulated Containment Monitoring Rules														
N-nitroso-dimethylamine (NDMA) (ppb)	NA	NA	NA	NA	NA	NA	NA	0.006	0.002	0.011	NA	NA	NA	NA
1,1 - Dichloroethane (ppt)	NA	NA	NA	NA	NA	NA	NA	36	30	36	NA	NA	NA	NA
Chlorate (ppb)	NA	NA	NA	NA	NA	NA	NA	178	140	200	NA	NA	NA	NA
Chromium (Hexavalent) (ppb)	NA	NA	NA	NA	NA	NA	NA	1.8	1.4	2	NA	NA	NA	NA
Chromium (Total) (ppb)	NA	NA	NA	NA	NA	NA	NA	1.8	1.3	2.4	NA	NA	NA	NA
Molybdenum (ppb)	NA	NA	3.2	3.16	3.24	0.003	2.91	4.2	3.6	5	3.34	2.51	3.34	NA
Strontium (ppb)	NA	NA	221	216	225	0.204	211	254	210	340	243	183	243	NA
Vanadium (ppb)	NA	NA	1.91	1.63	2.18	0.002	1.68	3.1	1.5	5.6	2.74	1.29	2.74	NA
Testosterone (UG/L)	NA	NA	4E-04	0	0.001	0	0.001	NA	NA	NA	NA	NA	NA	NA
Titanium (Total) (ppm)	NA	NA	NA	NA	NA	0	0.002	NA	NA	NA	NA	NA	NA	NA

Figure 1: Supplier Connections Map

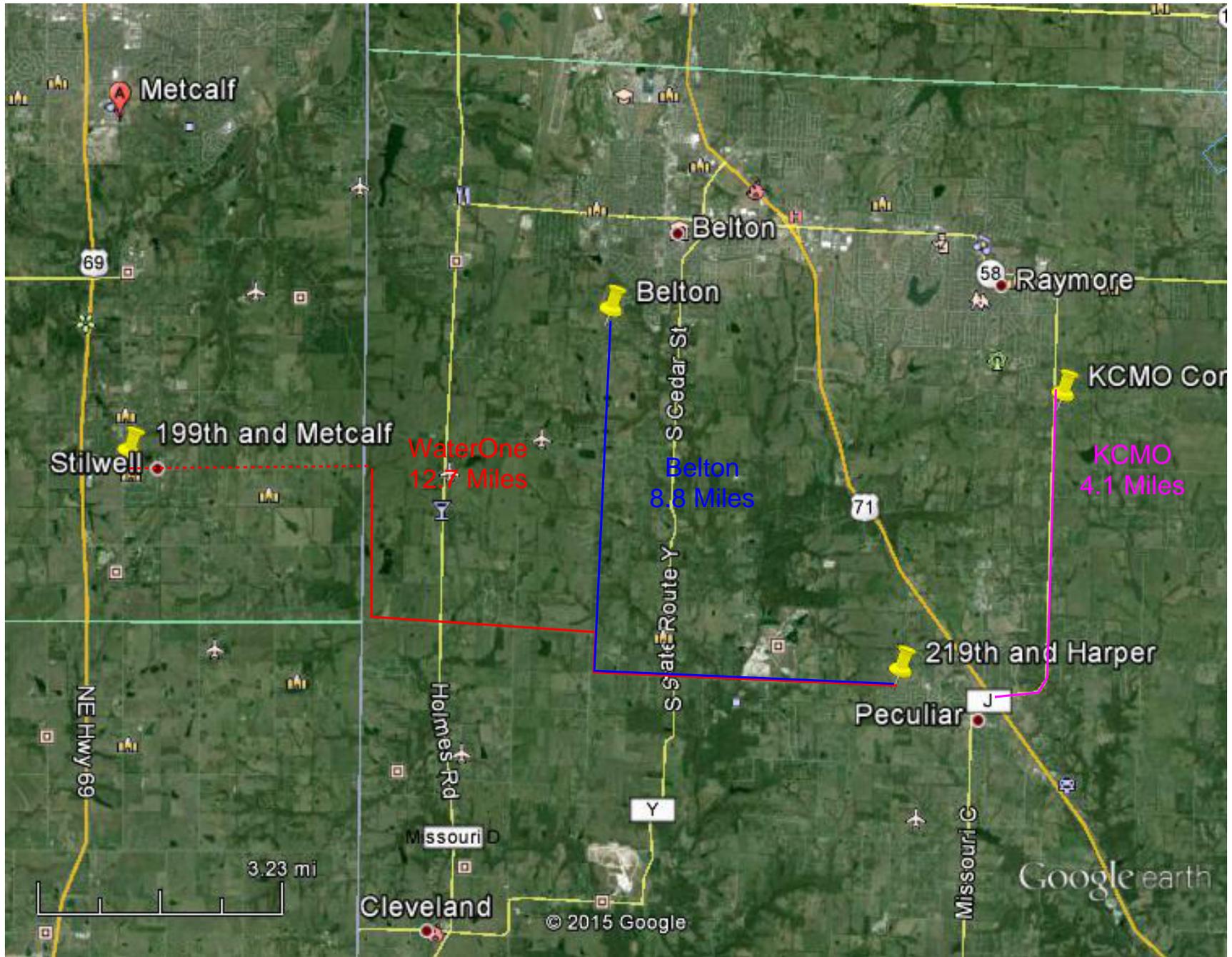


Figure 2: Cumulative NPV of Water Supplier Costs: City Supply + Commercial & Industrial on East Side of Interchange

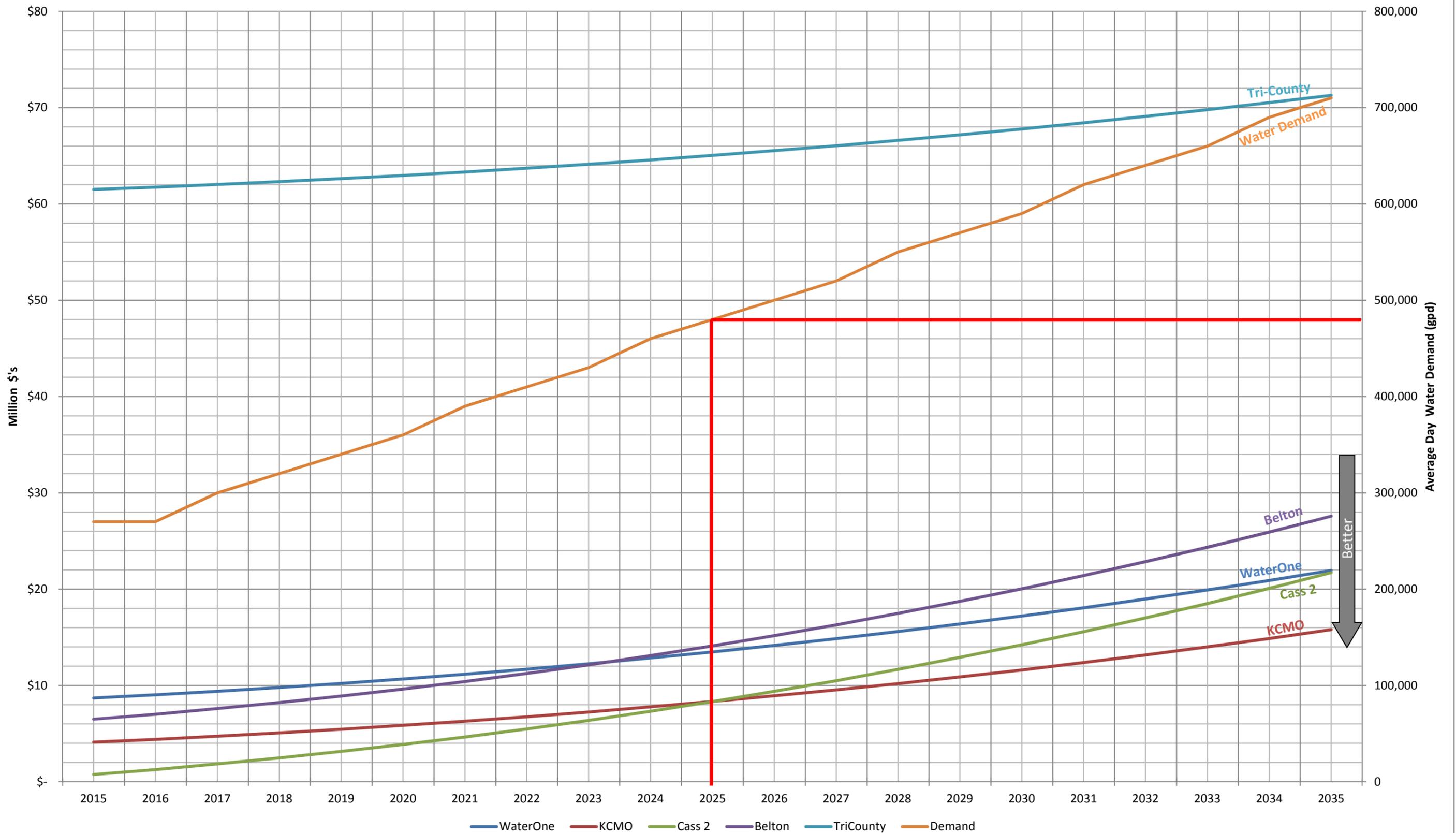


Figure 3: Cumulative NPV of Water Supplier Costs: City Supply and All Industrial & Commercial Demand

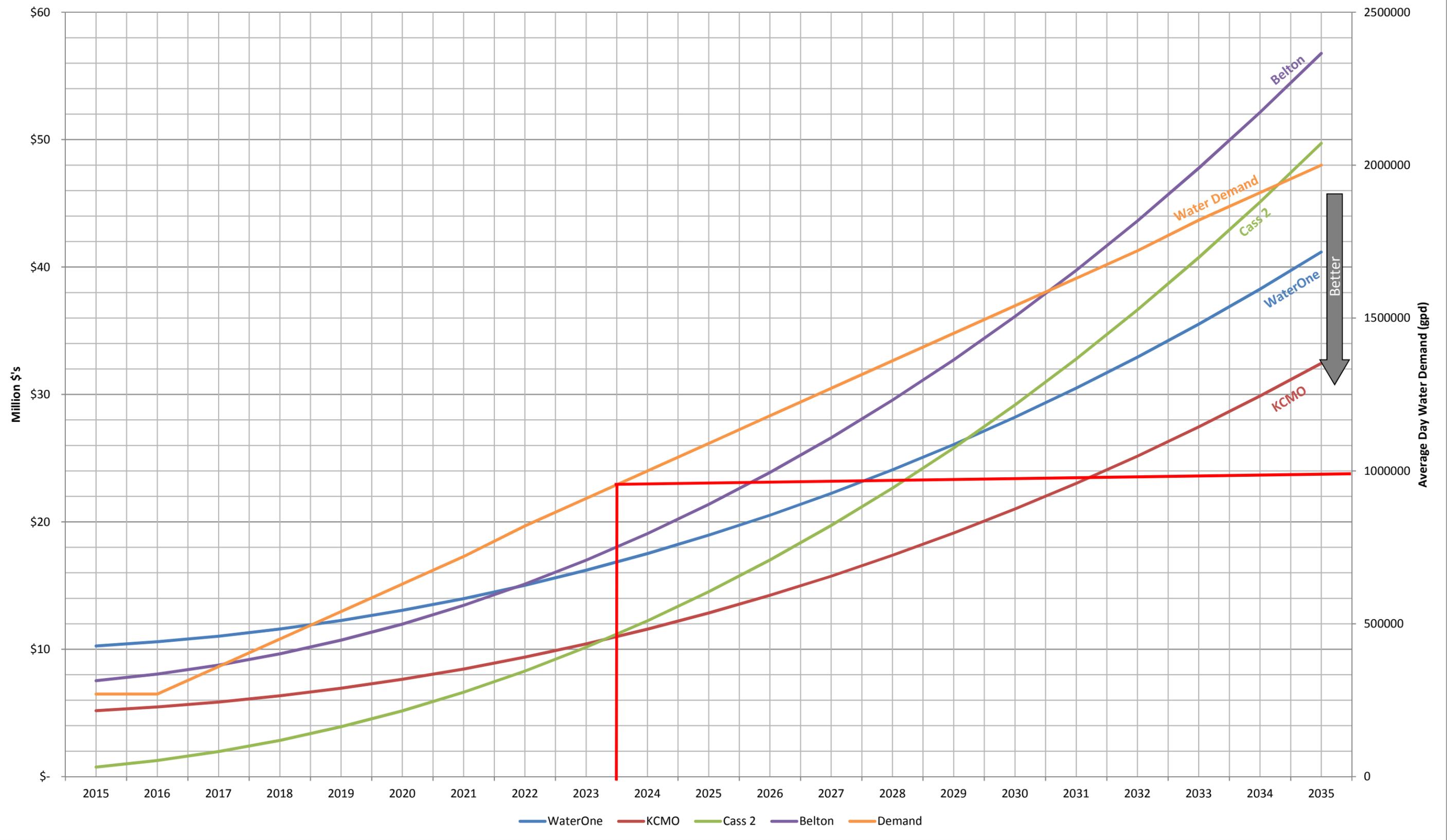
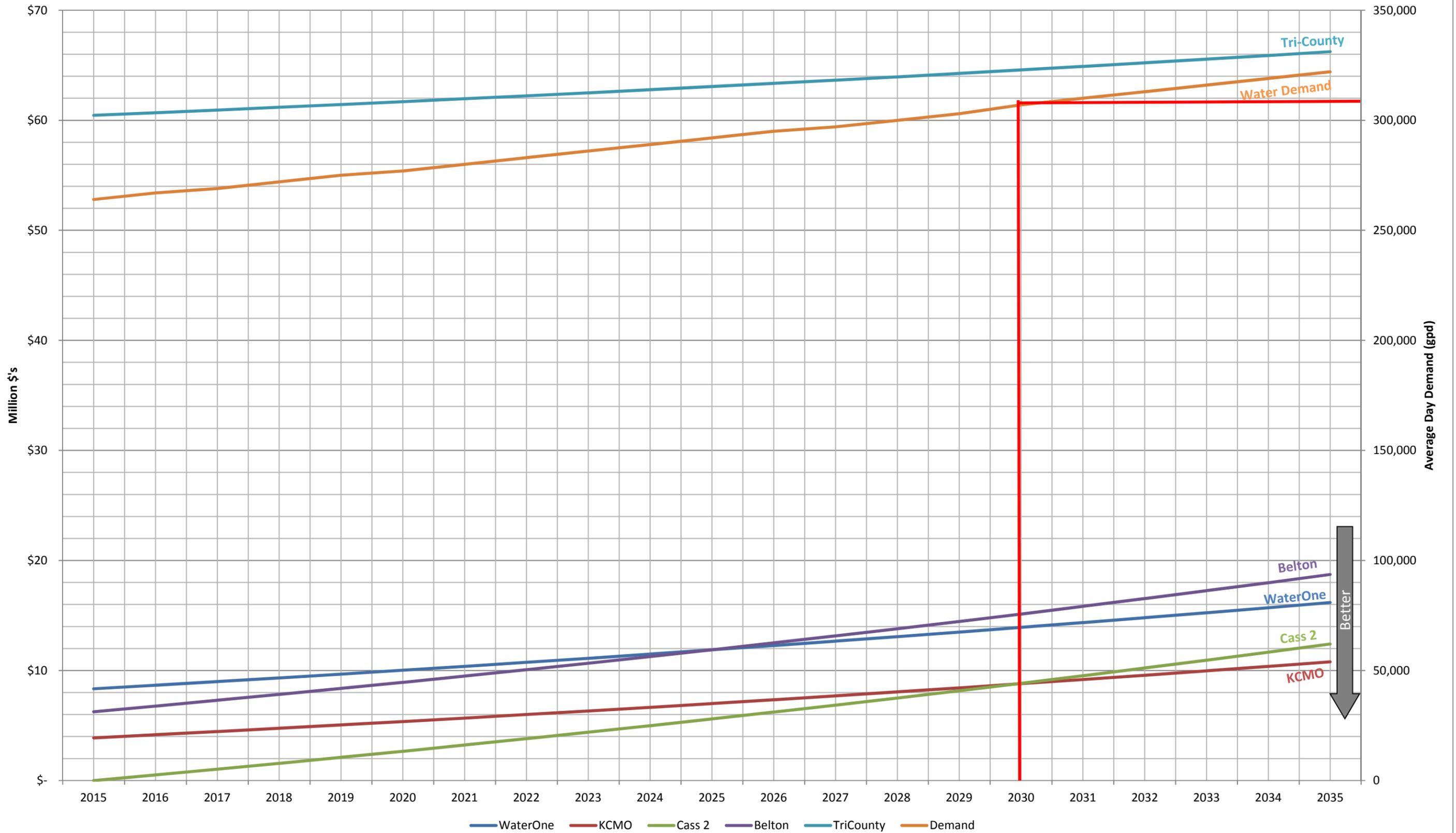


Figure 4: Cumulative NPV of Water Supplier Costs: 1% City Growth Only



Memorandum



Date: March 14, 2016

To: Carl Brooks, P.E., City Engineer, City of Peculiar

From: Jeff Barnard, P.E., Project Manager, Burns & McDonnell
Dana Bruner, P.E., Project Engineer, Burns & McDonnell
Michaela Rempkowski, EIT, Project Engineer, Burns & McDonnell

Subject: Water Supply Evaluation and Coordination, Updated Demand Projections and Hydraulic Model

Burns & McDonnell is preparing an updated water supply and hydraulic modeling technical memo (TM) for the City to assist in the planning of Peculiar Way Interchange (formally known as the 211th Street Interchange) on I-49 for the City of Peculiar (City). The foundation of the water supply and hydraulic modeling TM is the water demand projection. This memorandum addresses the water demand projection through the study period of year 2035.

The City provided the following information to assist in the development of an updated demand projection:

- *Missouri Certified Sites Program*, Missouri Department of Economic Development
- *2015: Comprehensive Plan Update*, by Gould Evans and Wilson & Company Engineers and Architects
- *2015, July: Wastewater System Engineering Report Draft*, by Carollo Engineers
- *2014, May: Engineering Report for Water Supply, Pumping, Storage, and Distribution Facilities*, by Larkin, Lamp, Rynearson and Associates
- *2013, June: Access Justification Report*, by GBA Architects Engineers
- *2011, June: 211th Street Corridor Study*, by URS Corporation, GBA Architects Engineers, and PBA Engineering, P.C
- *2008, Comprehensive Plan*, by JEO Consulting Group, Inc.

The Peculiar Way Interchange on I-49 is anticipated to stimulate substantial growth. Growth related infrastructure requirements for the interchange were not considered in the *Engineering Report for Water Supply, Pumping, Storage, and Distribution Facilities (2014)*; therefore, the updated demand projections are established based on an anticipated growth scenario and account for commercial, industrial, and retail growth at the Interchange over a 20-year study period. The resulting average day and maximum day water demand projections will be used to evaluate water supply options and develop the capital improvement plan for the required improvements with the hydraulic model, including transmission, distribution and storage.

I-49 Interchange Service Area

The service area for the Interchange was determined using the Land Use/Development Parcel Map as shown in Exhibit C-2 provided in the *Access Justification Report (2013)* and the Future

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Land Use map in the *Comprehensive Plan Update (2015)*. The 2013 map identifies future land use zoning for several parcels in the currently undeveloped Interchange. The 2015 plan provided an updated land use map, which was overlaid onto the 2013 map to identify the updated land use projections and relate these to the 2035 developed areas associated with each parcel. This resulted in an updated basis for land use for calculation of associated water demand.

Based on conversations with the City staff, who have communicated with adjacent public water supply districts (PWSDs), the City will provide water to the commercial and industrial zone development of the interchange on the east side of Interstate 49. PWSDs will provide water and fire flow to all other customers.

The Interchange demand projections consist of retail, office, light industrial, and heavy industrial parcels and are allocated in accordance with the parcel zoning. Parcels to be used in the City’s projections and modeling efforts, as well as the parcels impacted by the development of the interchange that will be serviced by adjacent Cass County PWSD No. 2 and No. 10 are shown in Figure 1.

Demand Coordination

Peculiar Way Interchange

The *Access Justification Report (2013)* provides useable and developed area percentages that were assumed for the 2035 development for each parcel. The resultant land use multiplier, after the useable and developed area data in the 2013 report was considered, was used to determine the parcel area for the average daily demand projections. This area was then used in the land use average daily demand calculations, per the following:

$$\text{Average Daily Demand} = 2035 \text{ Developed Area (sq. ft.)} \times \frac{\text{Person}}{\text{sq. ft.}} \times \frac{\text{Gallons}}{\text{Person Day}}$$

The population density factor for each land use type, provided in the City’s *Comprehensive Plan (2008)*, was used to project the number of people per acre. A per capita flow value of 15 gallons per day for industrial zones was used from the *Missouri Department of Natural Resources (MDNR) Design Guidelines for Sewage Works (10 CSR 20-8)* for “employee sanitary waste” and was multiplied by a standard factor of 1.1 to account for the correlation of wastewater contributions to water demand resulting in a value of 16.5 gallons per capita day. Further, a value of 16.5 gallons per capita per day, as directed by the City during the October 8, 2015 meeting, was applied for commercial and office zones in lieu of 220 (200 x 1.1) gallons per capita day extrapolated from the *Wastewater System Engineering Report Draft (2015)*.

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Population density and per capita flow values used in preliminary demand projections are summarized in **Table 1**.

Table 1: Per Capita Water Average Day Demands

Land Use Type	Population Density	People per Acre	People per Acre	Per Capita Water Average Day Demand
	ac/100 persons	persons/acre	persons/sq. ft.	gal/p/d
Commercial/Office	3.5	28.6	0.000656	16.5
Heavy Industrial	16.7	6.0	0.000137	16.5
Light Industrial	2.3	43.5	0.000998	16.5

Demands for industrial users are application specific. Battery manufacturing and relocation of an international manufacturing company have been discussed with City staff. Each application anticipated a range of water demand between 200 and 400 gallons per minute, respectively. Larger industrial applications would likely reside on the west side of the interchange and smaller industrial applications on the east; thus 200 gallons per minute of demand will be allocated to the east and 400 gallons per minute to the west. Retail has been discussed on the east side of the interchange; retail demand is anticipated to be captured by the Per Capita Water Average Day Demand for Commercial/Office listed in Table 1. Industrial usage demand allocations of 200 and 400 gallons per minute would be additive to the “employee sanitary waste” demand calculated by 10 CSR 20-8.

To predict the average and maximum daily water demand projections, the following statements apply:

1. For 2035, a total of six (6) parcels and associated land use and development data around the Peculiar Way Interchange were included.
2. An additional nine (9) parcels were included to predict the PWSD #2 commercial and industrial daily water demand projections.
3. The PWSD #2 projections were used to predict a contingency or emergency water supply demand for the west side of Interstate 49.

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4. Parcels identified as “Office” and “Retail” use were considered as “Commercial” use, similar to the *Comprehensive Plan Update (2015)*.
5. The total useable and developed area was used to determine the projected demand.
6. The maximum daily flow to average daily flow ratio for industrial and commercial facilities was generalized to account for seasonal demand and assumed to be 2.0.

In summary, the projected average day demand at the Interchange area is approximately 90,000 gallons per day for employee contributions and 290,000 gallons per day is allocated for an industrial process demand. It is important to note that this general approximation of the demand may vary from the actual demand and will ultimately be dependent on the industry serviced.

The attached **Table 2** provides the preliminary demand projections for the City that will be used in the hydraulic modeling efforts.

Current Service Area

The population of the City will increase by 1 percent annually based on the population projections in the *Engineering Report for Water Supply, Pumping, Storage, and Distribution Facilities (2014)*. This population growth index will be used by Burns & McDonnell in the hydraulic model along with the average daily flow, maximum daily flow, and peak hourly data and assumptions presented in the 2014 report. Further, this report projected that the current service area demand would increase from the 2013 demand of approximately 260,000 gallons per day to 325,000 gallons per day by 2035 and the maximum daily flow to average daily flow ratio was 1.5.

Projected Demand Summary

A summary of the demand projections for both the current service area and the City’s portion of the Interchange in the year 2035 is provided in **Table 3**.

The City will be providing service to the commercial and industrial users on the east side of Interstate 49. The City’s service area average day demand is 415,000 gpd with a maximum day demand of 625,000 gpd. It is anticipated that the PWSDs will provide water service to all of the residential customers resulting from the Interchange and the commercial and industrial customers on the west side of Interstate 49; PWSD No. 2 on the west and PWSD No. 10 on the east.

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Demand projections were calculated for the commercial and industrial zones of the PWSD service area. The PWSD commercial and industrial service area average day demand is approximately 310,000 gallons per day with a maximum day demand of approximately 465,000 gallons per day. An industrial process water allowance of 400 gallons per minute (580,000 gallons per day) west of the interchange is allocated based on discussions with City staff.

Table 4 (attached) provides the preliminary demand projections for the City that will be used in the hydraulic model activities by Burns & McDonnell. **Table 3** below provides a summary of the average and maximum day projections for the City and PWSD.

Table 3: Summary of Projected 2035 Daily Demands

Demand	Current Service Area	City Served 211th Street Interchange	City Industrial Allowance	City Served Total	PWSD Commercial and Industrial ¹	PWSD Industrial Allowance	PWSD Total	Emergency Total
Average Day (gpd)	325,000	90,000	290,000	705,000	310,000	580,000	890,000	1,595,000
Max Daily (gpd)	490,000	135,000	290,000	915,000	465,000	580,000	1,045,000	1,960,000

¹: Commercial and industrial zones only.

Including these average day demand projections and fire flow guidelines into the hydraulic model will assist the City in choosing a water supplier, preparing contract terms, and identifying the appropriate sizing for the water storage and transmission. Items requiring City confirmation include:

1. Adequacy of industrial allowance to promote Missouri Certified Site
2. Provision to provide redundant supply to Cass County PWSD No. 2

Please review and provide comment at your soonest convenience. If you have questions, please contact me at (816) 822-3834. Thank you for the opportunity to serve the City of Peculiar!

G:\12670\Analysis\Traffic\CAD\AJR_Figures\Exhibit 4.dwg Layout: Parcel Map -- Wednesday, March 13, 2013, 10:15am -- Copyright 2013, George Butler Associates, Inc.

Land Use

- Low Density Residential**
- Med. Density Residential**
- Public**
- Park and Recreation**
- Retail**
- Office**
- Light Industrial**
- Heavy Industrial**

Commercial Area Identified by CIP 2015

Industrial Area Identified by CIP 2015

Legend

- I **External Destination**
- A **Traffic Analysis Zone (TAZ)**
- 65** **Tract Number**
- TAZ Boundary**
- Major Roadway (non-boundary)**
- 211th Street Interchange County Service Area**
- 211th Street Interchange City of Peculiar Service Area**

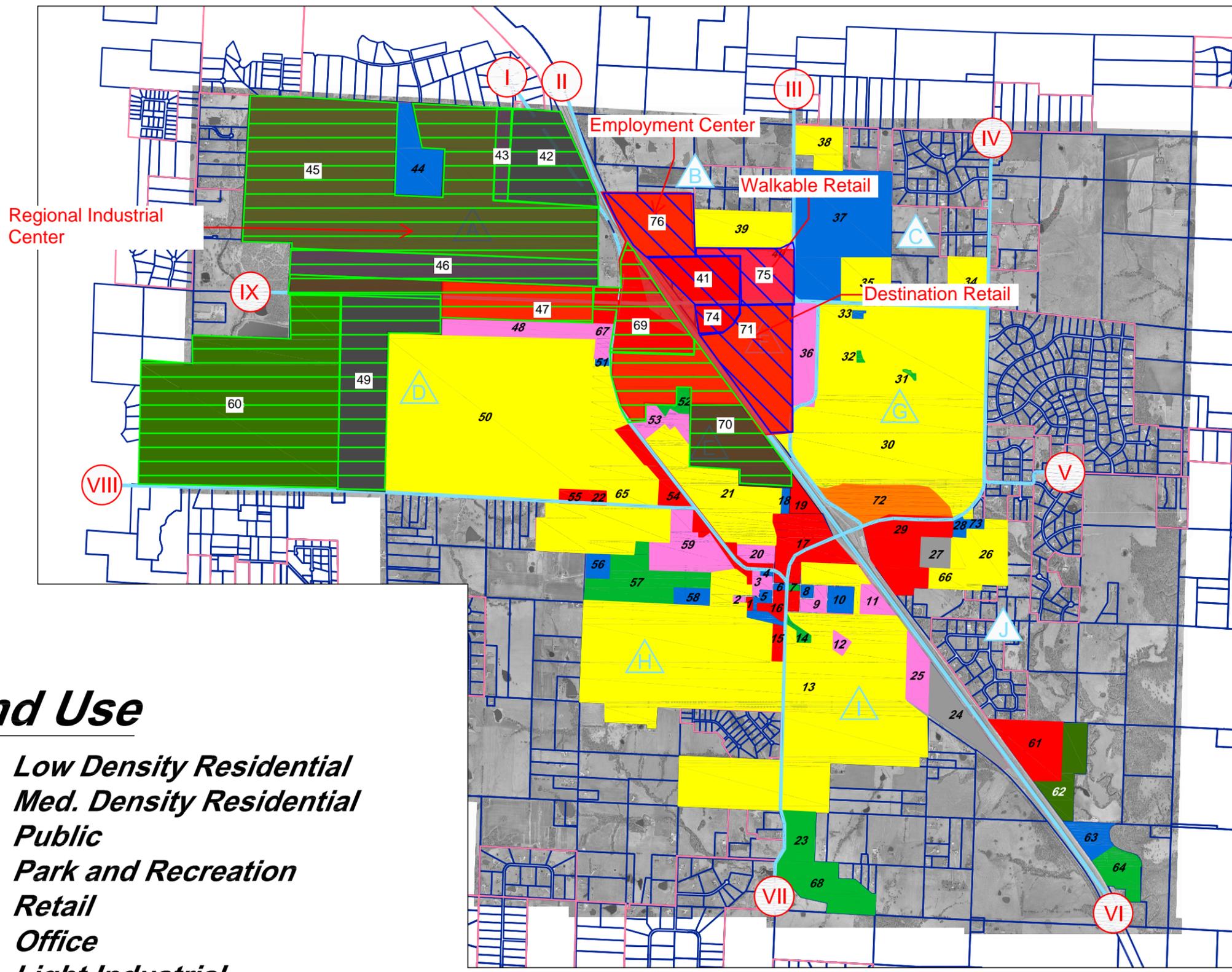


Table 2: City of Peculiar Water Demand Projections

Tract Number	Land Use Classification		Total Zone Area		Useable Area	Assumed 2035 Development	Resultant Land Use Multiplier	Population Calculations			Average Daily Demand Per Land Use (gallons per day)			Total Average Daily Demand Calculations	
	Class Number	Land Use Description	Sq. Ft.	Acres				2035 Area Use (Total Zone Area - sq. ft.)	2035 Area Use (Total Zone Area - Acres)	People in Area	Retail/Office	Industrial Light	Industrial Heavy	Average Daily Demand (gallons/day)	Max Daily Demand (gallons/day)
40	6	Retail	543,409	12	90%	70%	63%	342,348	8	225	3,705	-	-	3,705	7,410
41	6	Retail	2,673,447	61	75%	70%	53%	1,416,927	33	929	15,335	-	-	15,335	30,669
71	6	Retail	5,712,103	131	70%	70%	49%	2,798,930	64	1,836	30,291	-	-	30,291	60,583
74	6	Retail	1,080,782	25	70%	70%	49%	529,583	12	347	5,731	-	-	5,731	11,463
75	6	Retail	1,707,649	39	80%	70%	56%	956,283	22	627	10,349	-	-	10,349.39	20,699
76	6	Retail	3,402,024	78	90%	70%	63%	2,143,275	49	1,406	23,196	-	-	23,196	46,391
Totals:		-	15,119,414	347				8,187,347	188	5,370	88,608	-	-	88,608	177,215

Provided in the Access Justification Report

Table 3: PWS Water Demand Projections

Tract Number	Land Use Classification		Total Zone Area		Useable Area	Assumed 2035 Development	Resultant Land Use Multiplier	Population Calculations			Average Daily Demand Per Land Use (gallons/day)			Total Average Daily Demand Calculations	
	Class Number	Land Use Description	Sq. Ft.	Acres				2035 Area Use (Total Zone Area - sq. ft.)	2035 Area Use (Total Zone Area - Acres)	People in Area	Retail/Office	Industrial Light	Industrial Heavy	Average Daily Demand (gallons/day)	Max Daily Demand (gallons/day)
42	7	Light Industrial	4,519,211	104	90%	40%	36%	1,626,916	37	1,624	-	26,794	-	26,794	53,587
43	7	Light Industrial	1,019,117	23	80%	40%	32%	326,117	7	326	-	5,371	-	5,371	10,742
45	7	Light Industrial	25,055,500	575	75%	35%	26%	6,514,430	150	6,502	-	107,286	-	107,286	214,573
46	7	Light Industrial	6,068,999	139	80%	38%	30%	1,820,700	42	1,817	-	29,985	-	29,985	59,970
47	5	Retail	5,723,449	131	90%	40%	36%	2,060,442	47	1,351	22,299	-	-	22,299	44,598
49	7	Light Industrial	8,326,680	191	80%	20%	16%	1,332,269	31	1,330	-	21,941	-	21,941	43,882
60	8	Heavy Industrial	21,705,710	498	90%	20%	18%	3,907,028	90	537	-	-	8,862	8,862	17,724
69	5	Retail	4,110,387	94	60%	70%	42%	1,726,362	40	1,132	18,684	-	-	18,684	37,367
70	5	Retail	7,875,153	181	90%	70%	63%	4,961,346	114	4,103	33,851	33,851	-	67,701	135,403
Totals:			84,404,206	1,938				24,275,610	557	18,723	74,833	225,228	8,862	308,923	617,847

Provided in the Access Justification Report

Date: March 14, 2016

To: Carl Brooks, P.E., City Engineer, City of Peculiar

From: Jeff Barnard, P.E., Project Manager, Burns & McDonnell
 Dana Bruner, P.E., Project Engineer, Burns & McDonnell
 Michaela Rempkowski, EIT, Project Engineer, Burns & McDonnell

Subject: Hydraulic Model Review and Update

A. Introduction

Burns & McDonnell has prepared this hydraulic modeling technical memo (TM) for the City to assist in the planning of the Peculiar Way Interchange (Interchange) on Interstate 49 (I-49) for the City of Peculiar (City). The Interchange is anticipated to stimulate additional growth. Growth, related to infrastructure requirements, was not considered in the Engineering Report for Water Supply, Pumping, Storage, and Distribution Facilities, by Larkin, Lamp, Rynearson and Associates, May 2014 (Water Systems Engineering Report) and therefore is being considered in this evaluation.

Burns & McDonnell was tasked with projecting the anticipated demands and investigating several water supply options to meet the City’s anticipated residential and commercial growth through the study period of year 2035. In these studies, it was determined that Kansas City, Missouri (KCMO) would be the most viable alternative to the City’s existing agreement with Cass County Public Water Supply District (PWSD) No. 2; therefore, improvements to the City’s distribution system were evaluated with the existing hydraulic model for the switch to KCMO supply.

This memorandum summarizes the maximum day, peak hour, and fire flow modeling scenarios for the years 2015 and 2035 with and without distribution system improvements to meet the demands associated with the development of the Interchange.

B. Summary of Demands

The population of the City is estimated to increase by one percent annually based on the population projections in the Water Systems Engineering Report. Further, this report projected that the current service area average day demand would increase from the 2015 demand of approximately 185 gallons per minute (gpm) to 230 gpm by 2035. **Table 1** provides a summary of the 2015 demand projections.

Table 1: 2015 Demand Projection Summary

Demand	Current Service Area	City Served 211th Street Interchange	City Industrial Allowance	City Served Total
Average Day (gpm)	185	0	0	185
Max Day (gpm)	280	0	0	280
Peak Hour (gpm)	560	0	0	560

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The City will be providing service to the commercial and industrial users at the Interchange that lie on the east side of I-49. The City’s commercial and industrial service average day demand is projected to be 65 gpm with a maximum day demand of 100 gpm in 2035. An additional 200 gpm is allocated for an industrial process demand. It is important to note that this general approximation of the demand may vary from the actual demand and will ultimately be dependent on the industry serviced. The 200 gpm industrial process demand was considered to be a continuous demand with minimal maximum day and peak hour increases.

The maximum daily flow was predicted using a maximum daily flow to average daily flow ratio of 1.5, resulting in a maximum day flow of 345 gpm in 2035. The peak hour flow was predicted using a peak hour flow to maximum day flow ratio of 2.0. **Table 2**, below, provides a summary of the average, maximum day, and peak hour projections for the City.

Table 2: 2035 Demand Projection Summary

Demand	Current Service Area	City Served 211th Street Interchange	City Industrial Allowance	City Served Total
Average Day (gpm)	230	65	200	495
Max Day (gpm)	345	100	200	675
Peak Hour (gpm)	690	200	200	1090

The “City Served” average day, maximum day, and peak hour demand projections were used for the demand scenarios in the hydraulic model.

It is anticipated that the PWSDs will provide water service to all of the residential customers resulting from the Interchange and the commercial and industrial customers on the west side of I-49; PWSD No. 2 on the west and PWSD No. 10 on the east. If the PWSDs decide to forfeit supplying water to the commercial and industrial areas within their jurisdiction of the Interchange, the City will need to renegotiate contracts and update the hydraulic model to provide up to 2 MGD maximum day supply to the PWSD projected service area.

C. Existing Distribution System

The City currently receives water from Cass County PWSD No. 2 through three master meters. Each of the master meters supplies one of the City’s four pressure zones (PZ); while PZ 4 is supplied by PZ 1 at the existing ground storage tank on East South Street. The existing ground storage tank is approximately 450,000 gallons and has a booster pump station that pumps directly into the City’s 400,000 gallon elevated storage tank that then provides water and the hydraulic gradient to PZ 4. PZs 1 and 2 are supplied by PWSD No. 2 at a hydraulic grade line (HGL) of 1175 feet, PZ 3 is supplied a HGL of

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1150 feet, and PZ 4 has a maximum HGL, determined by the level of the elevated storage tank, of 1140 feet.

The City is able to supply adequate flows and pressures throughout the distribution system under this operating method by allowing PZs 1, 2, and 3 to “peak” off of the PWSD No. 2 meters. While there are interconnections between the PZs, with the exception of check valves that allow flow from PZ 4 into PZ 2, they are manual connections that require a distribution system operator to open a valve. This can lead to problems if the City were to lose flow from one of the three master meters as there is no effective storage to provide flow and pressure within PZ 1 and PZ 3.

In evaluating the existing hydraulic model that was provided as part of the Water Systems Engineering Report, it was discovered that demand associated with the City’s largest users were not represented in existing demand scenarios. The model was updated to include the City’s five largest water users as outlined in **Table 3**, below.

Table 3: Top Five Largest Users Summary

User	Location	Average Day Demand (gpm)
Flying J	700 S State Route J	15.5
Senior Citizen Housing	500 S Peculiar Dr	1.8
Aaron’s Auto Wash	361 Legend Lane	1.8
Peculiar Elementary	201 E 3 rd St	0.7
Casey’s General Store	117 E North St	0.5

Several improvements made to the system following the 2014 Water Systems Engineering Report were identified and incorporated into the model as follows:

- A 12-inch pipeline that runs along Peculiar Drive from Hurley Street to Main Street was added to the model.
- The existing 2-inch and 4-inch water lines on Main Street from Hurley Street to North Street and on North Street from Main Street to Hurley Street were replaced with 12-inch lines and were updated during the existing model review.

D. Model Evaluation

An evaluation of the existing distribution system characteristics with supply from PWSD No. 2 for both the 2015 and 2035 demands were performed as a basis of comparison for the changes required if the water supply was obtained from KCMO. Maximum day, peak hour, and maximum day with fire flow demand scenarios for the connection to KCMO were modeled for 2015 and 2035.

KCMO provided a contract to the City for the purchase of up to 1 MGD of water. The KCMO contract provided to the City for planning stated:

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“BUYER has a control system which varies the flow rate in incremental steps, to maintain sufficient equalizing storage, and to minimize large changes in flow rate ... The control system must be able to reduce the flow rate to zero during specific hours of the day coincident with peak demand on the CITY system. If, at the discretion of the CITY the flow rate is reduced, subsequent rates of delivery shall be increased to allow for delivery of the maximum quantity per day to the fullest practical extent.”

This would require the City to “peak” off of its equalization storage rather than the supply meter as PZs 1, 2, and 3 currently operate. Additionally, the possibility for KCMO to cut the water supply to zero during peak demand periods could require the City to fill its storage tanks in a shorter period of time and supply all flow to its system for extended periods. KCMO was contacted regarding this provision, what the anticipated number of hours, time of day, and period of year that KCMO could reduce the supply to zero; these items are currently being reviewed by KCMO and will be provided to the City following the review. It is likely that the need for KCMO to reduce the supply to zero would correspond with the City’s own peak demand season and peak hour flows. For the purpose of this evaluation, three flow scenarios were modeled for the maximum day demand; providing the maximum day demand (1.0 MGD) within an 8 hour period, a 12 hour period, and a 24 hour period. The peak hour scenario was modeled with a constant 1.0 MGD supply, as well as zero flow supply.

Additionally, KCMO requires that the City have 1.5 times the average day demand of storage for emergency and equalization. This results in a storage requirement of 400,000 gallons for 2015 and 1,070,000 gallons for the 2035 demands projected. The City currently satisfies KCMO’s requirement for storage, but would need to add an additional 0.5 MGD storage prior to reaching an average day demand of 0.7 MGD.

In order for the existing system to satisfy the requirements of the KCMO contract, the current system would need to operate, and was evaluated as, a single pressure zone. This allows the existing elevated storage tank to provide the peaking flows. The system was modeled to operate as a single pressure zone by opening the check valves under I-49 and opening the closed valves connecting PZs.

The model scenarios used for analysis of the distribution system include: maximum day, peak hour and maximum day plus fire flow. The following guidelines were used to determine deficiencies:

- Distribution system pressure should maintain pressures similar to the existing pressures experienced throughout the system. Typically pressures should be greater than 40 psi and less than 110 psi during all conditions;
- Distribution system pressure should be greater than 20 psi during a fire flow analysis;
- Storage should be replenished completely over a 24-hour period and active storage replenished over an eight-hour period at night; and

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- Transmission pipeline velocities should be less than five feet per second and head loss less than six feet per 1,000 feet. Additional deficiencies, such as insufficient fire flow or low pressure, or additional growth are typically required in addition to this guideline to justify pipe replacement.
- Available fire flows at the junctions should be greater than 500 gpm and a residual pressure of 20 psi should be available throughout the system.

1. 2015 Model Evaluation

a. Cass County PWSD No. 2 Supply

The existing distribution system has maximum day demand pressures ranging from 59 to 89 psi, 61 to 105 psi, 60 to 91 psi, and 52 to 95 psi for PZs 1 through 4, respectively, as shown in Figure 1; the average HGL for PZs 1 through 4 were 1161, 1161, 1149, and 1126 feet, respectively. System pressures are generally the same during a peak hour scenario, with all pressures being maintained above 50 psi as shown in Figure 2. All pipe velocities were well below 5 feet per second. The centralized portion of PZ 1, fed by a single 4-inch line, currently cannot provide the recommended 500 gpm of fire flow when the system operates as four PZs as shown in Figure 3. Additionally, hydrants located at the dead end of mains that are 4-inches or smaller do not provide adequate fire flows. The connection of the 10-inch line on South Harper Road to the 8-inch line on 222nd Street (east side of Harper Road) would address the inadequate fire flows in PZ1.

b. KCMO Supply

During the evaluation of the three maximum day scenarios with the KCMO supply, system pressures ranged from 45 to 101 psi with an average of 64 psi and an average HGL of 1133 feet throughout the entire system. This results in a reduction in the average HGL of approximately 16 feet and a reduction in the average pressure by 4 psi to 65 psi, as shown in Table 4 and Figures 4 through 6. During the peak hour scenarios, average pressures are very similar to maximum day. While there is a reduction in the average pressure, system pressures exceed 40 psi during all scenarios as shown in Figures 7 and 8. The interconnection of the PZs greatly improved the available fire flows, as the only inadequate fire flows now exist on dead ends and small mains as shown in Figure 9.

The recommended improvements to accommodate supply from KCMO include:

- Approximately 700 feet of 12-inch pipe to connect the existing 8-inch pipe on Harper Street at 211th with the existing 12-inch pipe on 211th Street. This would parallel the existing 6-inch pipe that is owned by PWSD No. 2 pipeline on the west side of the Interchange. This loops the City's system and connects PZs 1 and 2.
- Approximately 8,100 feet of 12-inch pipe on 211th Street to replace the existing 4- and 6-inch pipelines on the east side of the Interchange. This provides needed capacity to supply the PZ 1 area that would otherwise be fed solely by a 4-inch pipe that crosses I-49 at 217th Street. Additionally, this 12-inch pipe would also provide the necessary capacity for

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anticipated demand for future commercial and industrial users in that area. This project is already included in the City's CIP as a result of recommendations from the Water Systems Engineering Report.

- Approximately 4,000 feet of 16-inch pipe and 17,000 feet of 12-inch pipe along J Hwy from the KCMO connection at Hubach Hill Rd to the tie-in to the existing 8-inch line at Old Town Road. A pressure reducing station would also be required to prevent an over-pressurization of the City's distribution system as KCMO can provide a HGL up to 1240.
- Connection of PZ1 to PZ3 with approximately 100 feet of 8-inch pipe bored under the railroad at Tuscany Pkwy.

2. 2035 Model Evaluation

Distribution system improvements were evaluated to supply the anticipated demands associated with growth within the City and in the area of the Interchange by 2035. The first evaluation determines the necessary improvements should the City continue to obtain water from Cass County PWSD No. 2. As discussed earlier, if demands reach an average day of 0.7 MGD as anticipated by 2035, additional storage would be required to satisfy the emergency and equalization requirements. The City currently has effective storage of 400,000 gallons located in the center of town. The ~450,000 gallon ground storage tank does not count as effective storage because it does not have a backup power supply to the booster pump station per MDNR requirements; if backup power was provided to the booster pump station, the cumulative effective storage is approximately 850,000 gallons. The total storage is close to the storage quantity required (1,070,000 gallons) by KCMO for the anticipated 2035 average day demands. Per the KCMO storage requirements, the 850,000 gallons would support an average day demand of 0.56 MGD.

The majority of the anticipated growth associated with the Interchange is located on the north side of the City primarily along the 211th Street corridor within existing PZ 2. The ability of the City's existing distribution system to supply flow during an emergency to that area is currently limited by either a route of either six miles of 8-inch and 10-inch pipe, or through a network of approximately four miles of 4, 8, and 12-inch pipes. After discussions with City personnel, it was determined that an additional elevated storage tank located on the transmission main from KCMO to 211th St would be the best option; therefore, two alternatives were evaluated for KCMO supply, with the additional storage tank and without the addition of an elevated storage tank.

a. Cass County PWSD No. 2 Supply

The 2035 scenarios with supply from PWSD No. 2 assume the ability to continue "peaking" off of the master meters, and thus remains a four PZ system. The existing distribution system has 2035 maximum day demand pressures ranging from 51 to 89 psi, 65 to 90 psi, 60 to 90 psi, and 52 to 95 psi for PZs 1 through 4, respectively, as shown in Figure 10; the average HGL for PZs 1 through 4 were 1148, 1170, 1149, and 1127 feet, respectively. The pressure in PZ1 decreases to 38 to 85 psi

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while pressures in PZ2 increase to 65 to 112 psi during a peak hour scenario. Pressures less than 40 psi are observed during the peak hour in a residential grid within PZ 1 supplied by a 4-inch line as shown in Figure 11. This is the same area that experiences inadequate fire flows that can be addressed by interconnecting piping at Harper Rd and 222nd St. PZ 3 and 4 maintain pressures similar to the maximum day demand scenario. System pipe velocities remain below 5 feet per second in both demand scenarios. Available fire flows are nearly identical to those from the 2015 Cass County PWSD No. 2 as shown in Figure 12.

b. KCMO Supply – Without Tank

An evaluation of 2035 demands with KCMO supply and the City's existing infrastructure with the improvements discussed in the 2015 KCMO supply scenarios was performed to determine any additional improvements that would be required as growth occurs. As discussed with the 2015 KCMO supply scenarios, an evaluation of providing supply over 8, 12, and 24 hours was performed to determine the effects of the possibility of KCMO reducing the supply flow to zero during peak demand periods. As shown in Table 4, the transmission main cannot supply the maximum day demand over an 8-hr period (2,100 gpm). The maximum flow that the 4,000 feet 16-inch and 17,000 feet 12-inch transmission main can supply is 1,600 gpm, which is 500 gpm less than the required flow. This problem is eliminated if the City adds an elevated storage tank at 195th St and J Hwy. Alternatively, the entire 21,000 feet of transmission main from KCMO could be increased to a 16-inch main to deliver the necessary flow in an 8-hr period.

During the evaluation of the three 2035 maximum day scenarios with the KCMO supply without the additional tank, system pressures ranged from 45 to 112 psi with an average of 71 psi and an average HGL of 1136 feet throughout the entire system, as shown in Table 4 and Figures 13 through 15. During the peak hour scenarios, average pressures are very similar to maximum day. While there is a reduction in the average pressure, system pressures exceed 40 psi during all scenarios as shown in Figures 16 and 17. Figure 18 illustrates the available fire flows which are generally adequate except for dead ends and small mains.

c. KCMO Supply – With Tank

The addition of a 500,000 gallon elevated storage tank improves pressures within PZs 1, 2, and 3 while also allowing for the delivery of a maximum day demand during an 8-hr period. The maximum day scenarios result in system pressures ranging from 58 to 104 psi and 53 to 96 psi in the system (PZs 1, 2, and 3) and PZ 4 respectively. The average HGL for the system and PZ 4 were 1160 and 1132 feet, respectively. This results in an increase in the average HGL for the system, excluding PZ 4, of approximately 11 feet as compared to KCMO supply without the additional elevated storage. The average pressure in PZ 4 remain the similar to the pressures exhibited in the existing system at 2035 maximum day demand, as shown in Table 4 and Figures 19 through 21. During the peak hour scenarios, average pressures are very similar to maximum day. While there is a slight reduction in the average pressure, system pressures exceed 40 psi during all scenarios as shown in Figures 22

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and 23. Figure 24 illustrates that available fire flows are inadequate in residential areas of PZ1 and PZ3. The available fire flows in PZ1 can be improved by connecting the 8-inch and 10-inch lines at Harper Road and 222nd Street as previously recommended in this TM.

In addition to the improvements stated for the 2015 KCMO Supply scenarios, the recommended improvements corresponding with the growth anticipated by 2035 due to the Interchange include:

- An additional 500,000 gallon elevated storage tank at the intersection of State Highway J and 195th Street to maintain adequate pressures and velocities throughout the system. The elevated storage would also provide adequate supply for peak hour and fire flow demand for PZs 1, 2, and 3.
- When additional elevated storage is provided, a pressure reducing valve (PRV) station may need to be installed between the connection of PZ 1 and PZ 3 to limit the increase in pressure to PZ 3 by approximately 10 psi and reduce the likelihood of water line breaks in aged infrastructure within PZ 3. It is our understanding that the City has a long-term CIP item to repair and replace the aging infrastructure within PZ 3; if that occurs, the PRV station would not be necessary.
- Connecting the 8-inch pipelines on 220th Street and 222nd Street to the 10-inch Harper Road pipeline will increase available fire flow to low flow areas. Other considerations should be made for a small main replacement program and/or looping dead end lines near water crossings and ridgelines to increase available flow for fire flow scenarios.

The estimate of probably cost for the connection to the KCMO supply and major improvements outlined in this memorandum are provided in the Water Supply Update and Review Technical Memorandum, dated March 14, 2016.

Table 3: 2015 Scenario Results Summary

	Max Day				Peak Hour		
	Existing System Supplier	2015 KCMO Supply			Existing System Supplier	2015 KCMO Supply	
Supply Flow (HR)	24 HR	24 HR	12 HR	8 HR	24 HR	24 HR	Zero Supply
Requested Supply Flow (gpm)	290	290	580	870	290	290	0
Supply Flow Delivered (gpm)	N/A	290	580	870	N/A	290	0
Demand (gpm)	286.5	286.5	286.5	286.5	573.0	573.0	573.0
System HGL Min (feet)	1130	1133	1133	1133	1013	1131	1131
System HGL Max (feet)	1175	1135	1140	1148	1175	1134	1133
System HGL Avg (feet)	1146	1133	1134	1135	1143	1133	1132
System Pressure Min (psi)	51.9	45.0	46.6	47.0	51.7	44.8	44.1
System Pressure Max (psi)	118.2	101.3	102.9	105.6	116.3	101.1	100.3
System Pressure Avg (psi)	68.8	64.2	64.5	65.2	66.0	64.0	63.6
400k Gal Elevated Tank Flow (gpm)	112.3	3.5	293.5	583.5	-224.6	-283.0	-573.0

*Negative values indicate that the tank is drafting.

Table 4: 2035 Scenario Results Summary

	Max Day							Peak Hour				
	Existing System Supplier	2035 KCMO Supply with Tank			2035 KCMO Supply without Tank			Existing System Supplier	2035 KCMO Supply with Tank		2035 KCMO Supply without Tank	
Supply Flow (HR)	24 HR	24 HR	12 HR	8 HR	24 HR	12 HR	8 HR	24 HR	24 HR	0 HR	24 HR	0 HR
Requested Supply Flow (gpm)	845	700	1400	2100	700	1400	2100	1152.67	700	0	700	0
Supply Flow Delivered (gpm)	N/A	700	1400	2100	700	1400	1600.3	N/A	700	0	700	0
Demand (gpm)	690.5	689.4	689.4	689.4	689.4	689.4	689.4	1121.4	1120.88	1120.88	1120.88	1120.88
System HGL Min (feet)	1130	1133	1133	1133	1132	1133	1133	1013	1132	1132	1131	1125
System HGL Max (feet)	1175	1172	1172	1173	1137	1157	1166	1175	1167	1167	1133	1133
System HGL Avg (feet)	1142	1149	1149	1149	1133	1137	1138	1134	1144	1144	1132	1129
System Pressure Min (psi)	51.4	53.1	53.1	53.1	44.9	47.1	47.4	37.8	51.4	51.4	44.3	41.3
System Pressure Max (psi)	116.5	104.4	104.4	104.4	102.0	108.6	111.5	112.8	101.6	101.6	101.5	98.2
System Pressure Avg (psi)	70.1	71.2	71.2	71.2	64.3	65.8	66.5	66.5	69.12	69.09	69.5	62.3
400k Gal Elevated Tank Flow (gpm)	168.4	146.1	146.1	146.1	10.5	710.6	910.6	268.8	-292.18	-292.19	-420.90	-1120.93
195th St Elevated Tank Flow (gpm)	N/A	-6.6	706.6	1406.6	N/A	N/A	N/A	N/A	-128.72	-828.72	N/A	N/A

*Negative values indicate that the tank is drafting.

Figure 1: 2015 PWSD No. 2 – Maximum Day

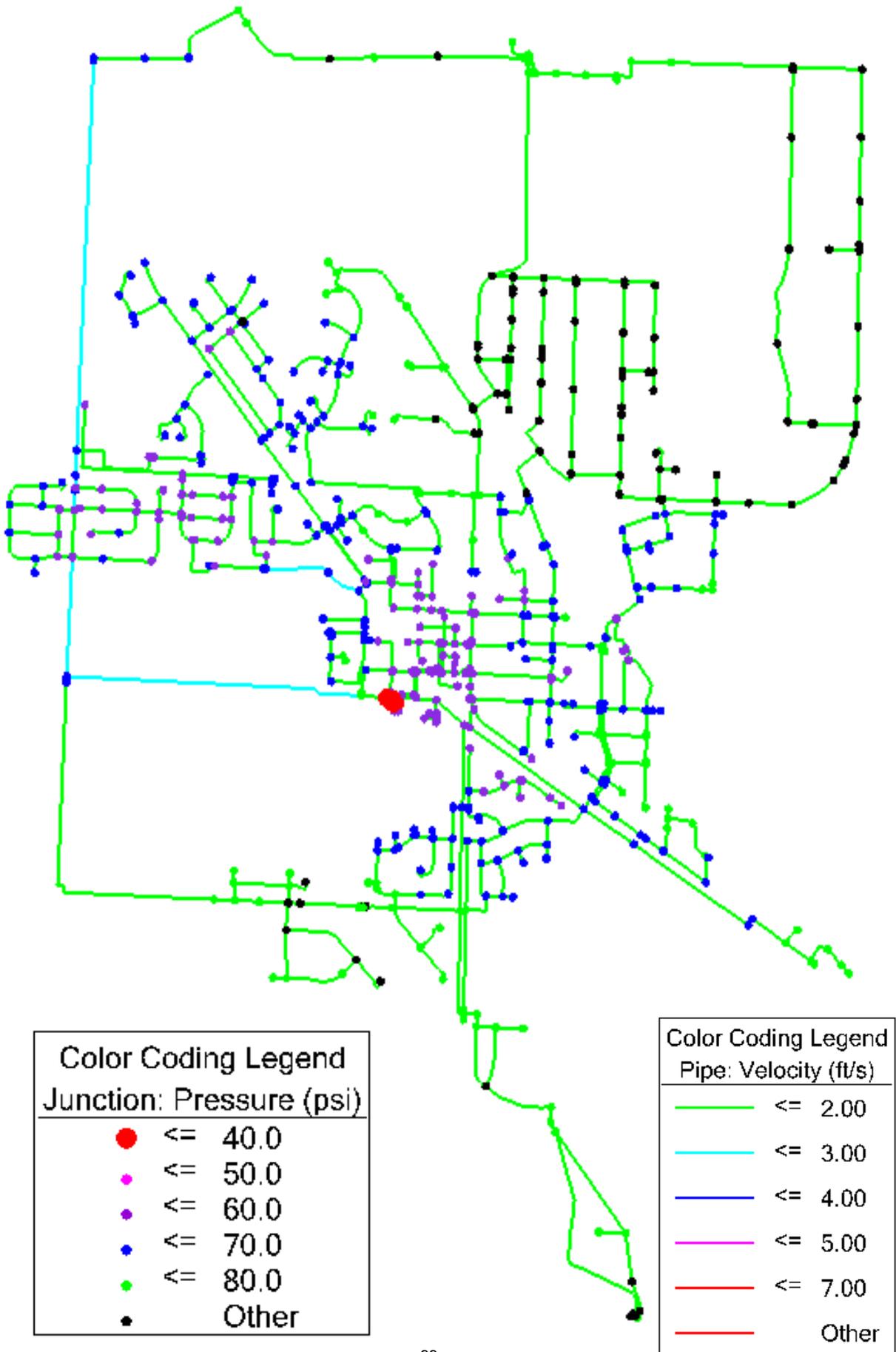
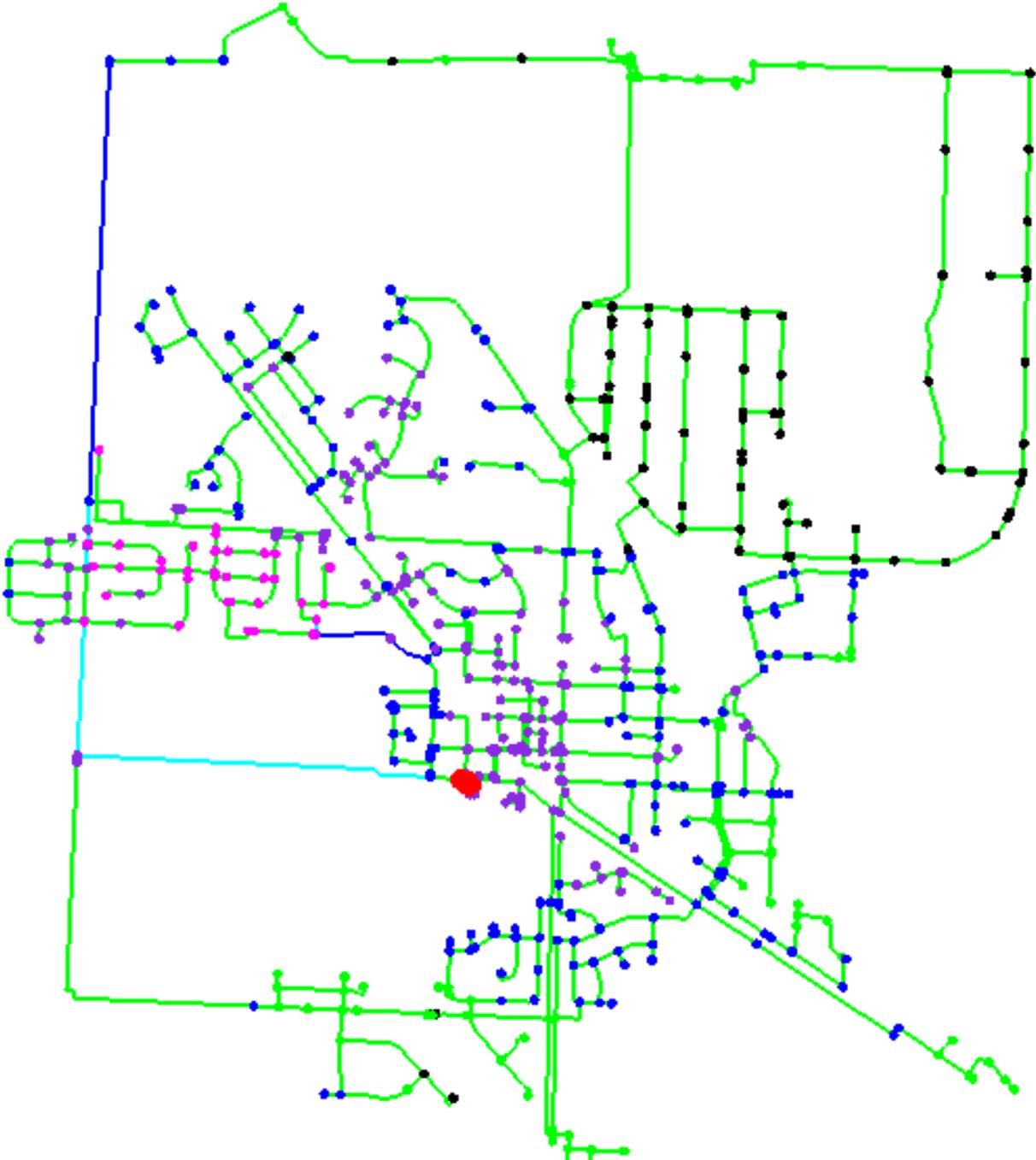


Figure 2: 2015 PWSD No. 2 – Peak Hour



Color Coding Legend	
Junction: Pressure (psi)	
● (Red)	<= 40.0
● (Magenta)	<= 50.0
● (Purple)	<= 60.0
● (Blue)	<= 70.0
● (Green)	<= 80.0
● (Black)	Other

Color Coding Legend	
Pipe: Velocity (ft/s)	
— (Light Green)	<= 2.00
— (Cyan)	<= 3.00
— (Blue)	<= 4.00
— (Magenta)	<= 5.00
— (Red)	<= 7.00
— (Red)	Other

Figure 3: 2015 PWSD No. 2 – Fire Flow

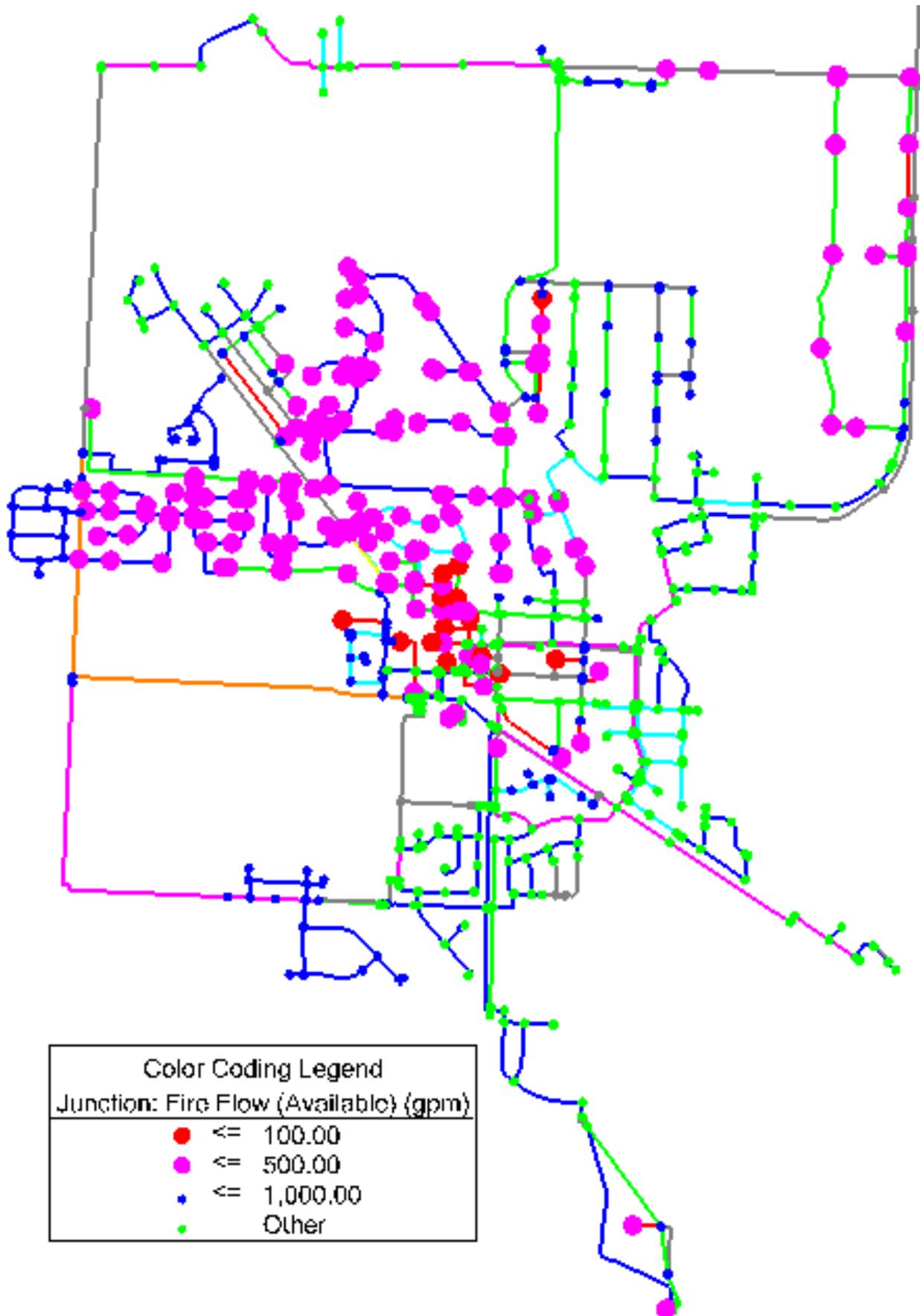


Figure 4: 2015 KCMO – Maximum Day (8 HR Supply)

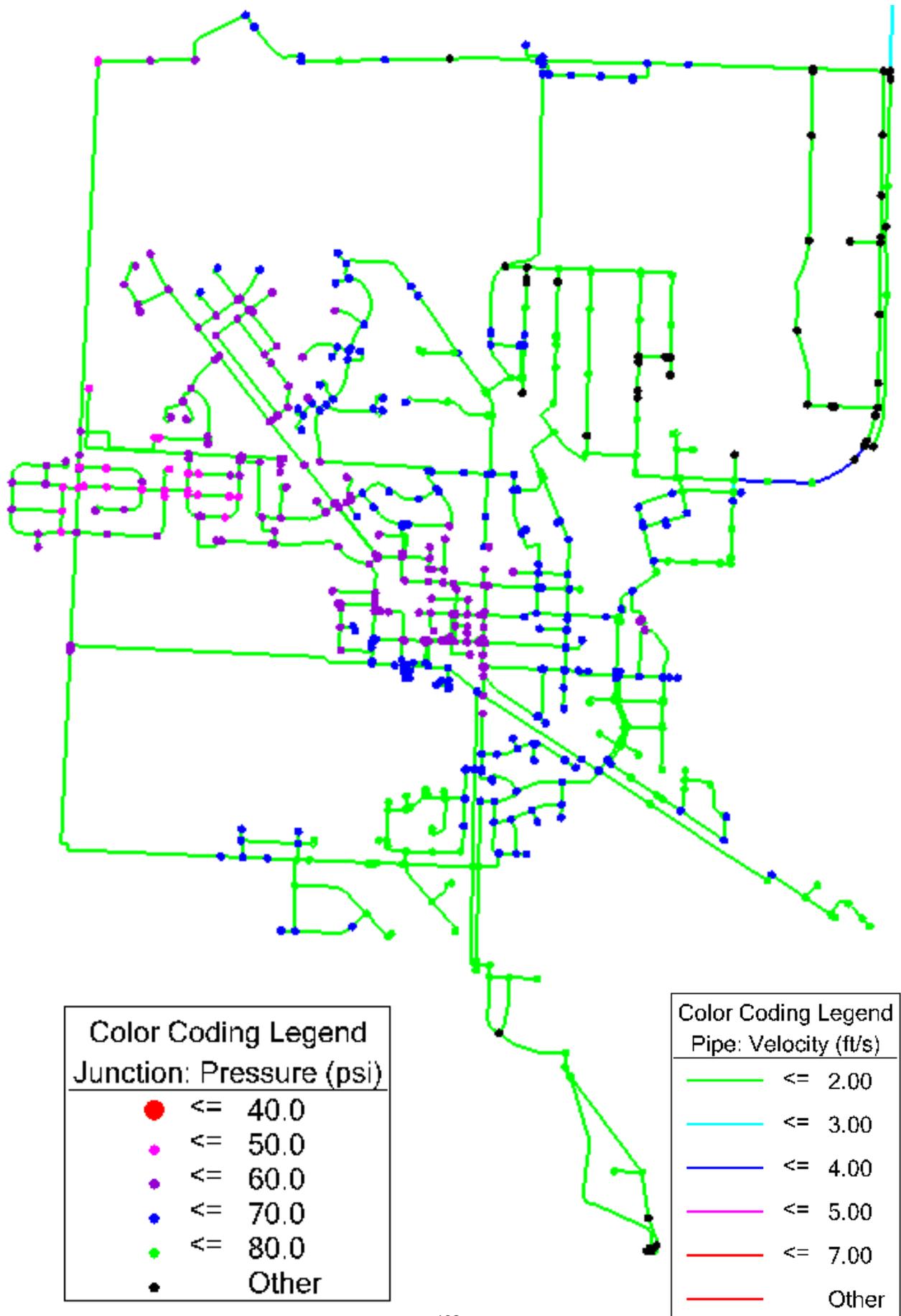


Figure 5: 2015 KCMO– Maximum Day (12 HR Supply)

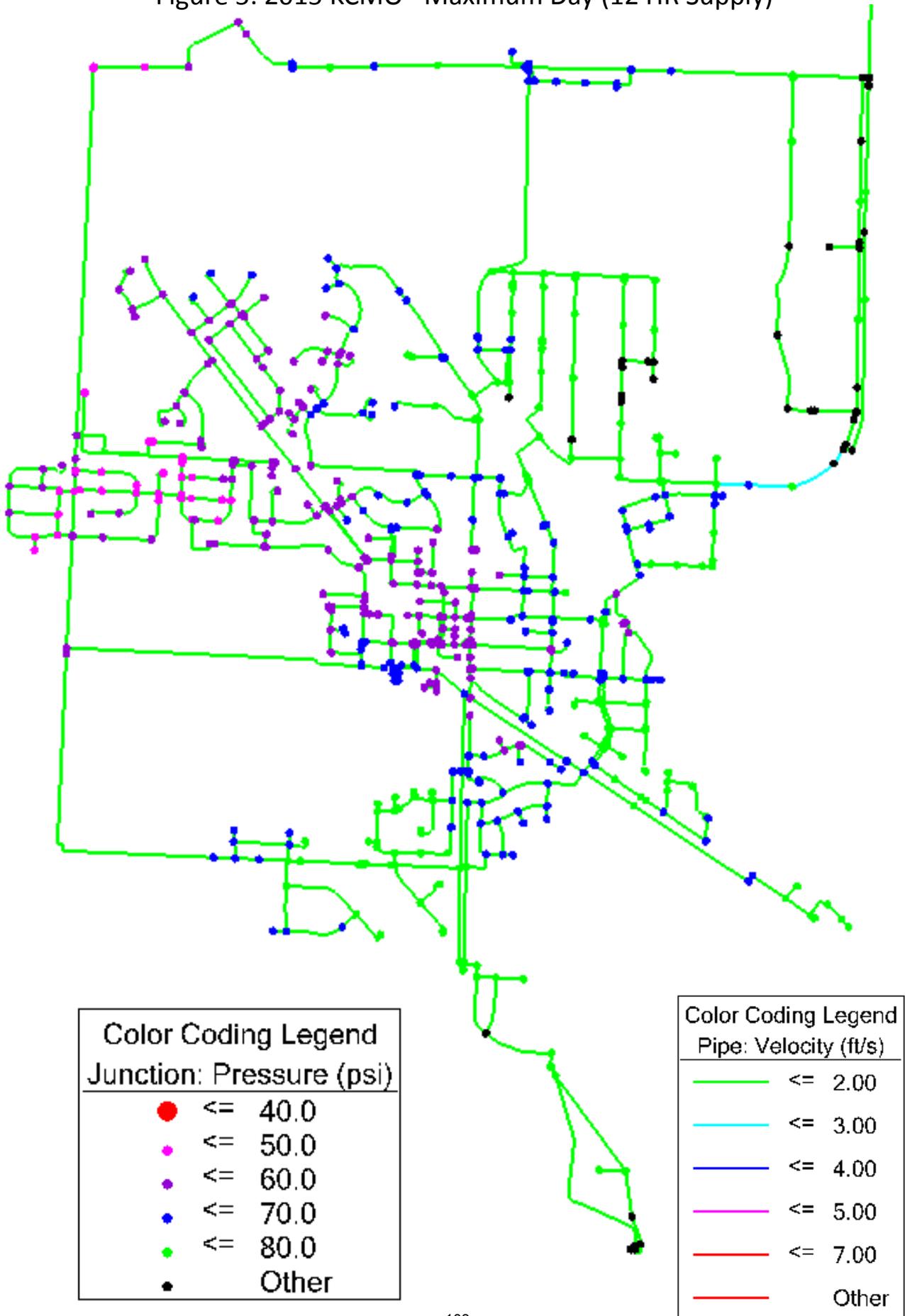
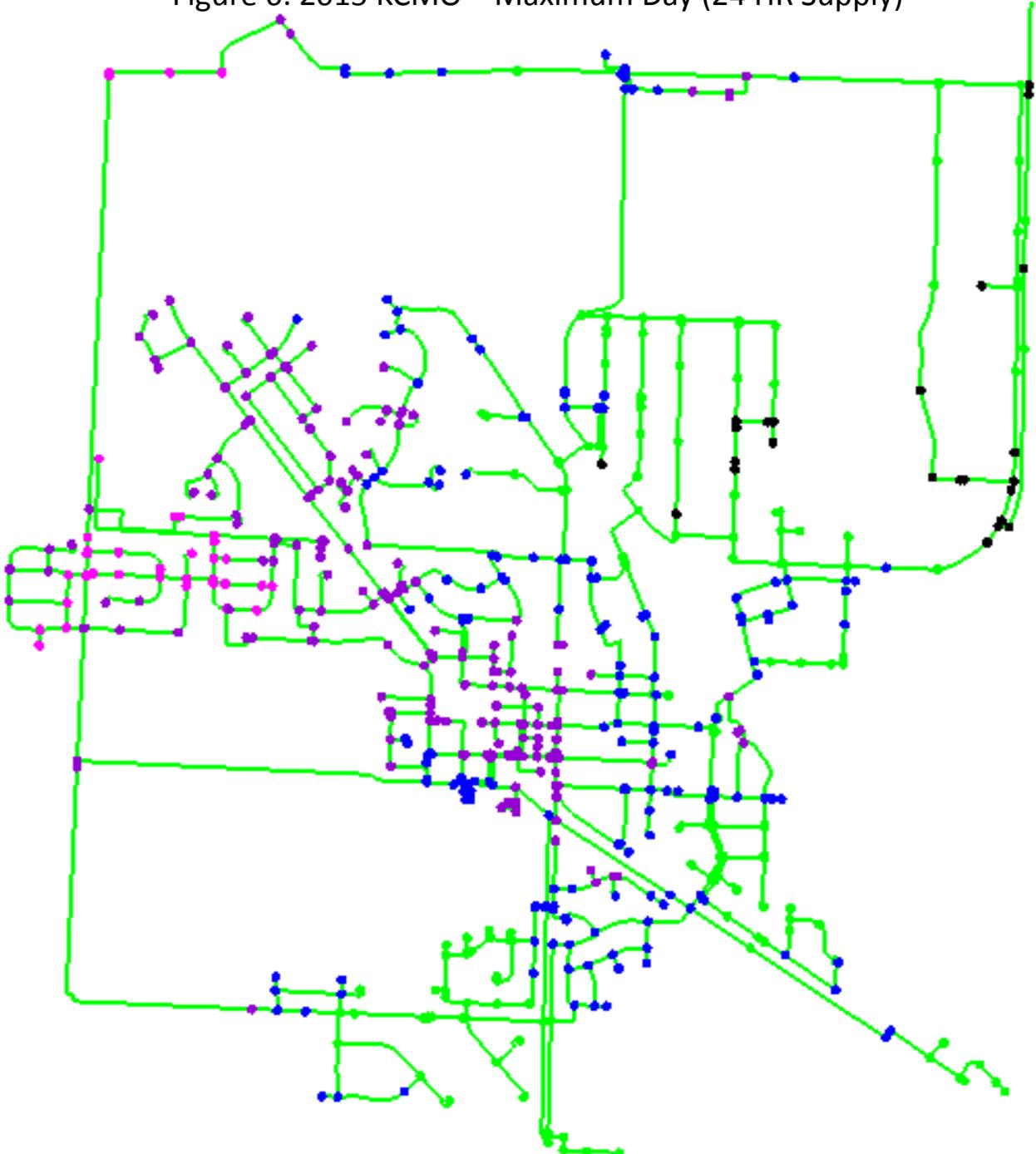


Figure 6: 2015 KCMO – Maximum Day (24 HR Supply)



Color Coding Legend	
Junction: Pressure (psi)	
● (Red)	<= 40.0
● (Purple)	<= 50.0
● (Blue)	<= 60.0
● (Green)	<= 70.0
● (Light Green)	<= 80.0
● (Black)	Other

Color Coding Legend	
Pipe: Velocity (ft/s)	
— (Light Green)	<= 2.00
— (Cyan)	<= 3.00
— (Blue)	<= 4.00
— (Purple)	<= 5.00
— (Red)	<= 7.00
— (Dark Red)	Other

Figure 7: 2015 KCMO – Peak Hour (Zero Supply)

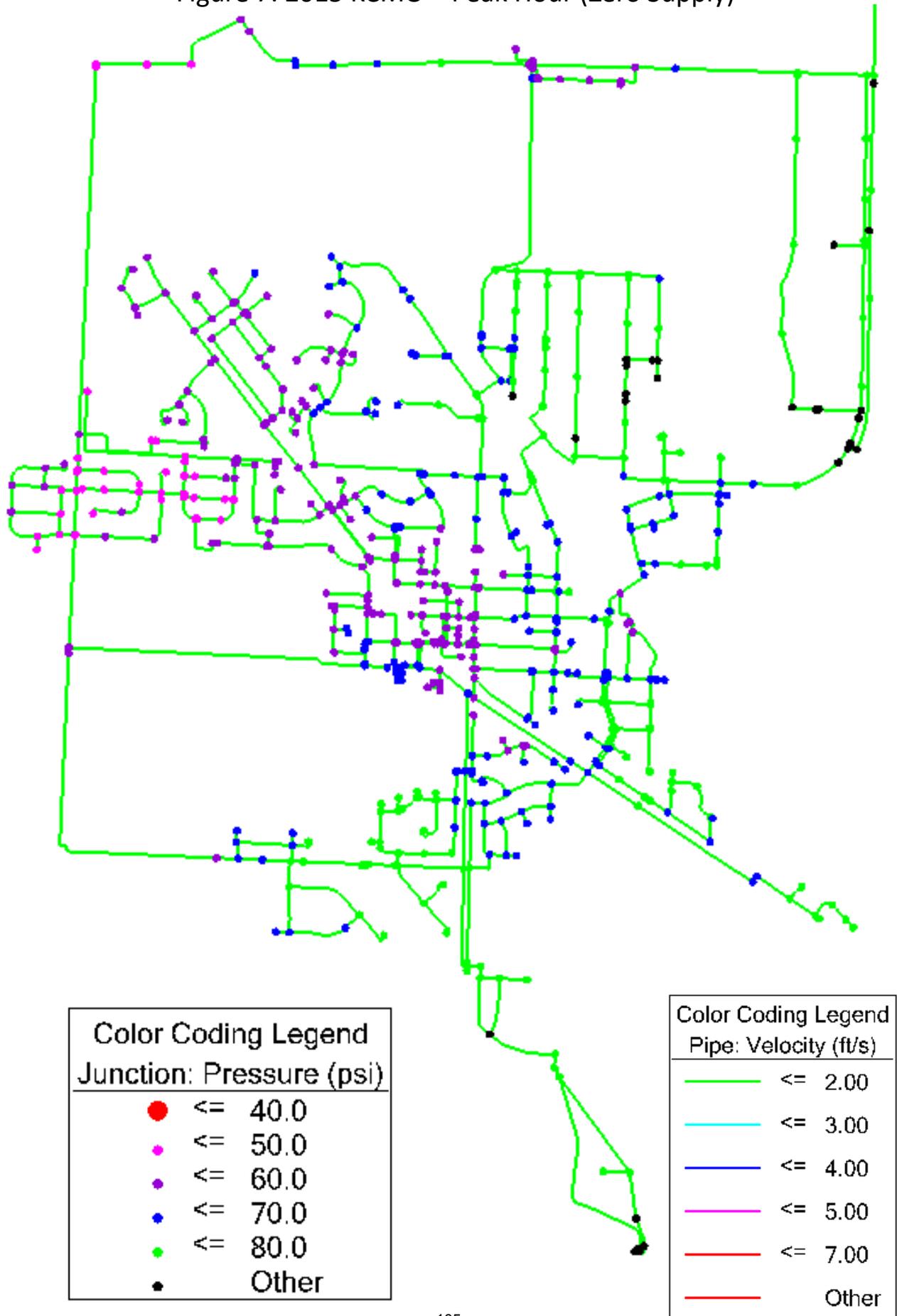
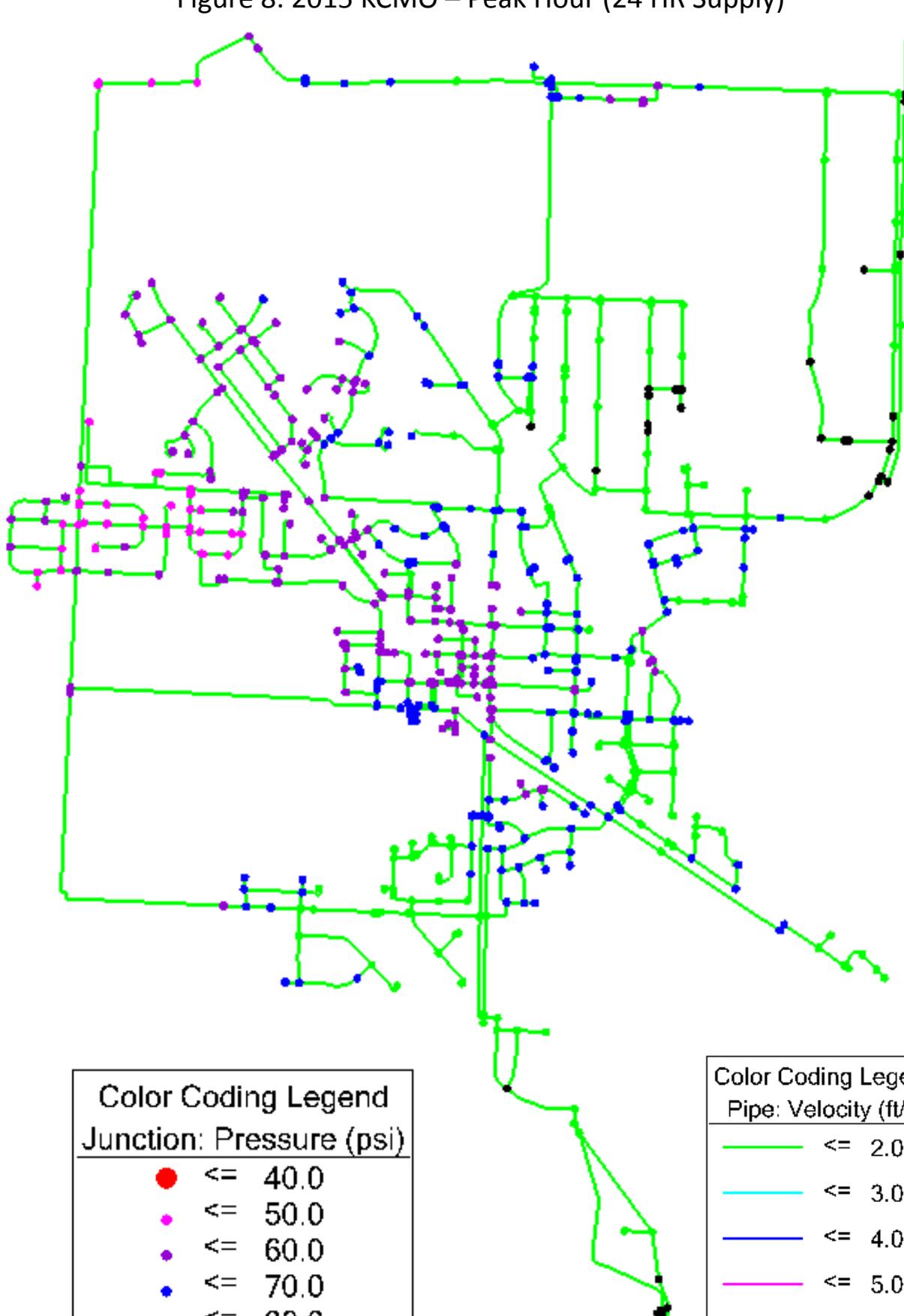


Figure 8: 2015 KCMO – Peak Hour (24 HR Supply)



Color Coding Legend	
Junction: Pressure (psi)	
●	≤ 40.0
●	≤ 50.0
●	≤ 60.0
●	≤ 70.0
●	≤ 80.0
●	Other

Color Coding Legend	
Pipe: Velocity (ft/s)	
—	≤ 2.00
—	≤ 3.00
—	≤ 4.00
—	≤ 5.00
—	≤ 7.00
—	Other

Figure 9: 2015 KCMO– Fire Flow

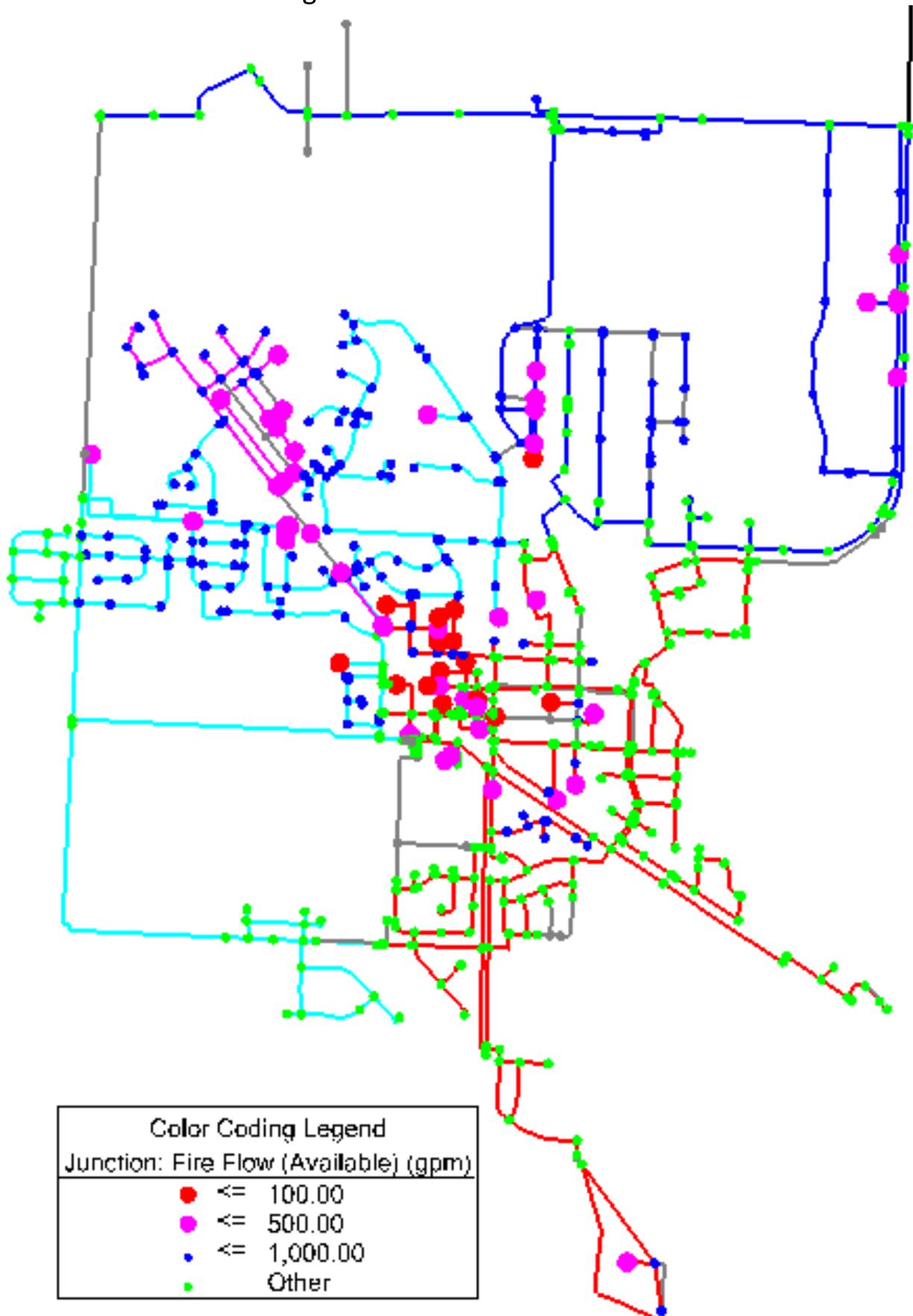
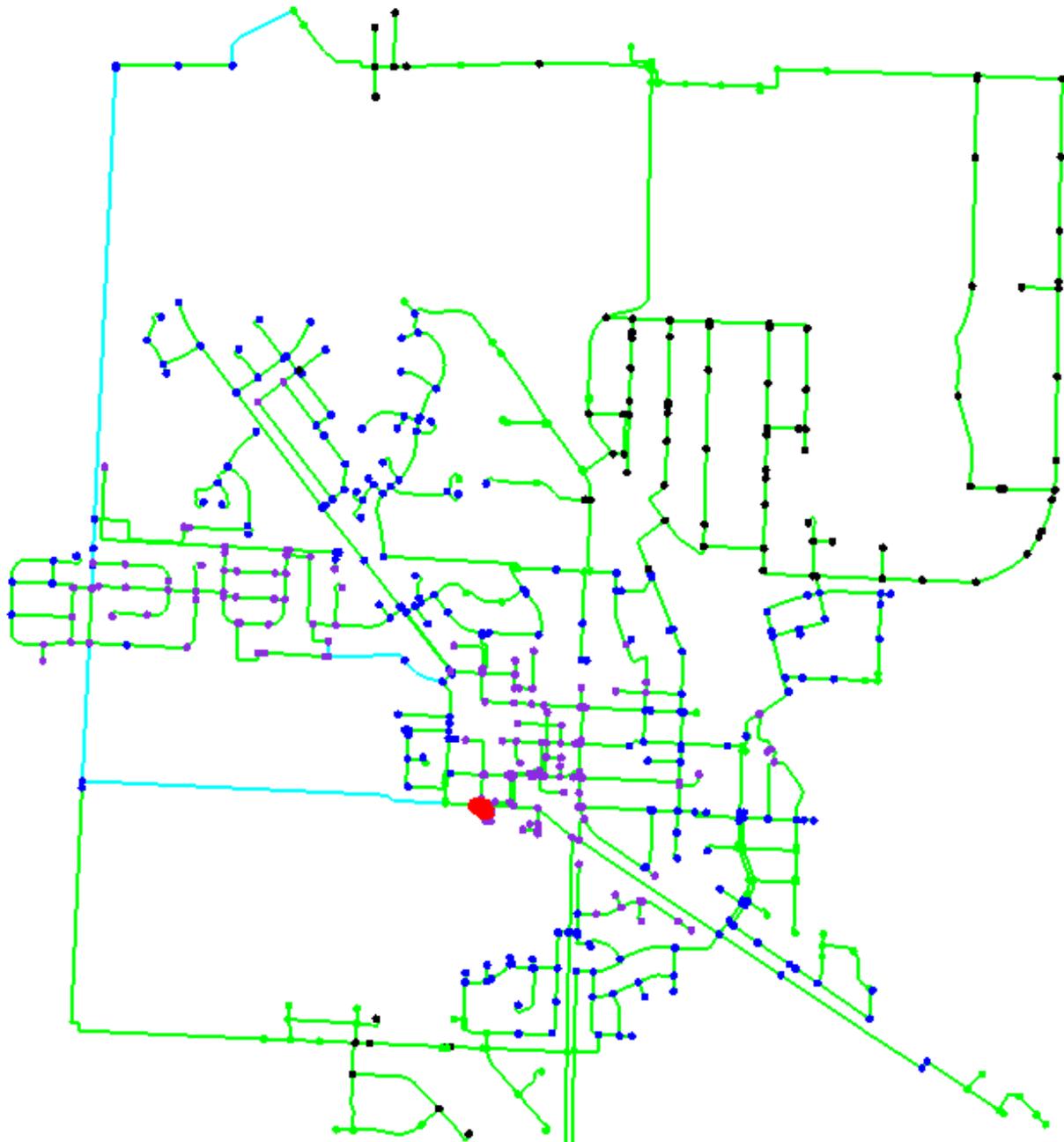


Figure 10: 2035 PWSD No. 2 – Maximum Day



Color Coding Legend	
Junction: Pressure (psi)	
● (Red)	<= 40.0
● (Magenta)	<= 50.0
● (Purple)	<= 60.0
● (Blue)	<= 70.0
● (Green)	<= 80.0
● (Black)	Other

Color Coding Legend	
Pipe: Velocity (ft/s)	
— (Green)	<= 2.00
— (Cyan)	<= 3.00
— (Blue)	<= 4.00
— (Magenta)	<= 5.00
— (Red)	<= 7.00
— (Red)	Other

Figure 11: 2035 PWS No. 2 – Peak Hour

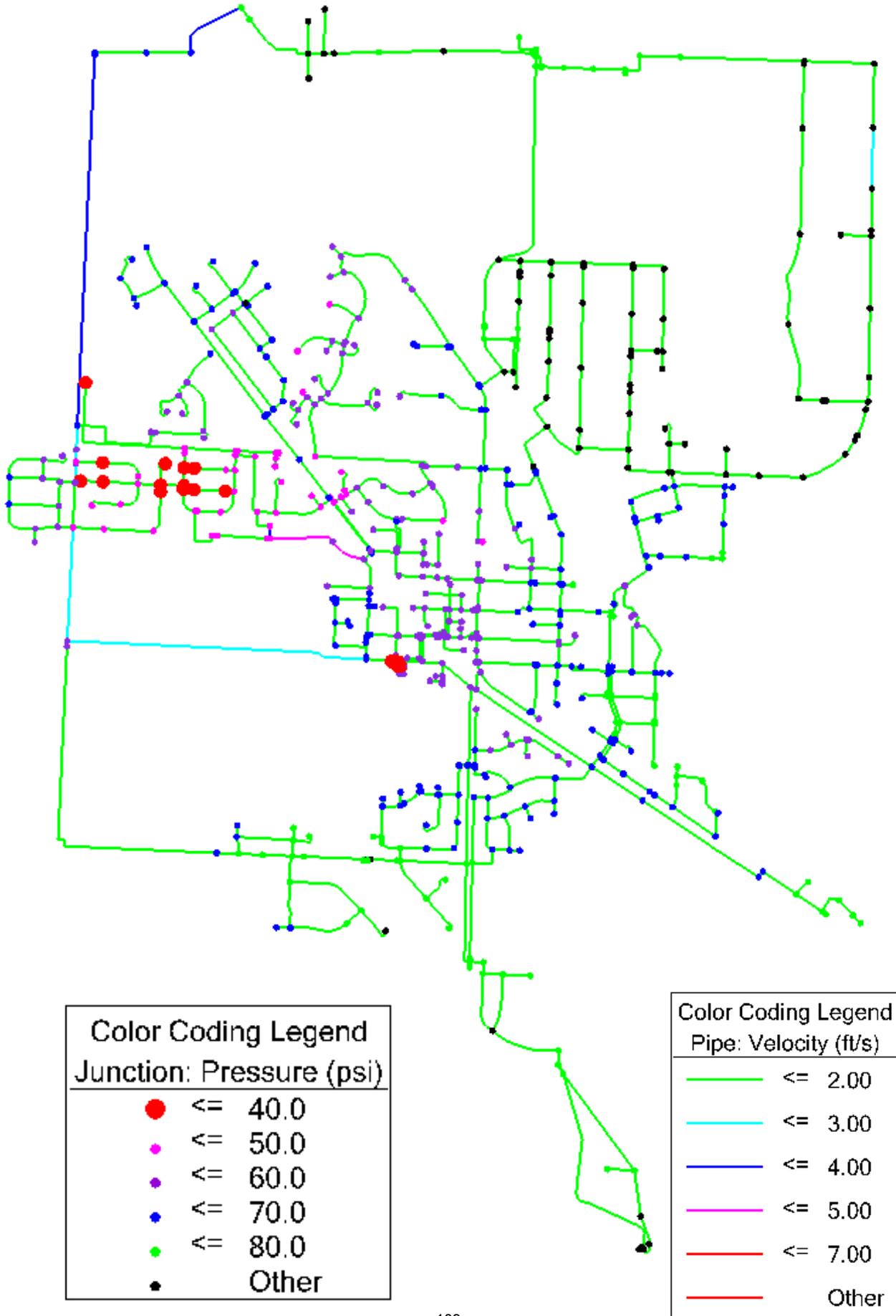


Figure 12: 2035 PWSD No. 2 – Fire Flow

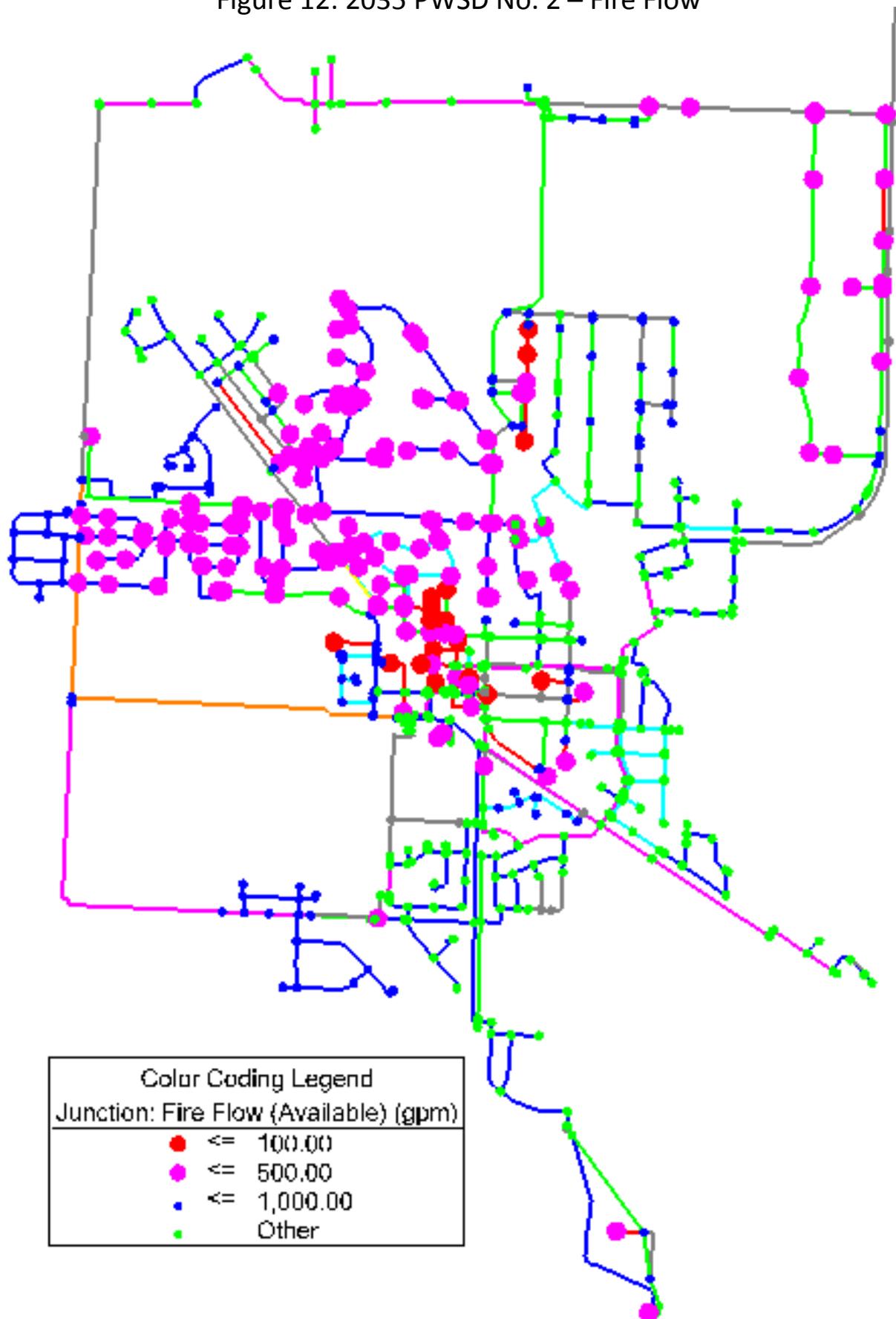
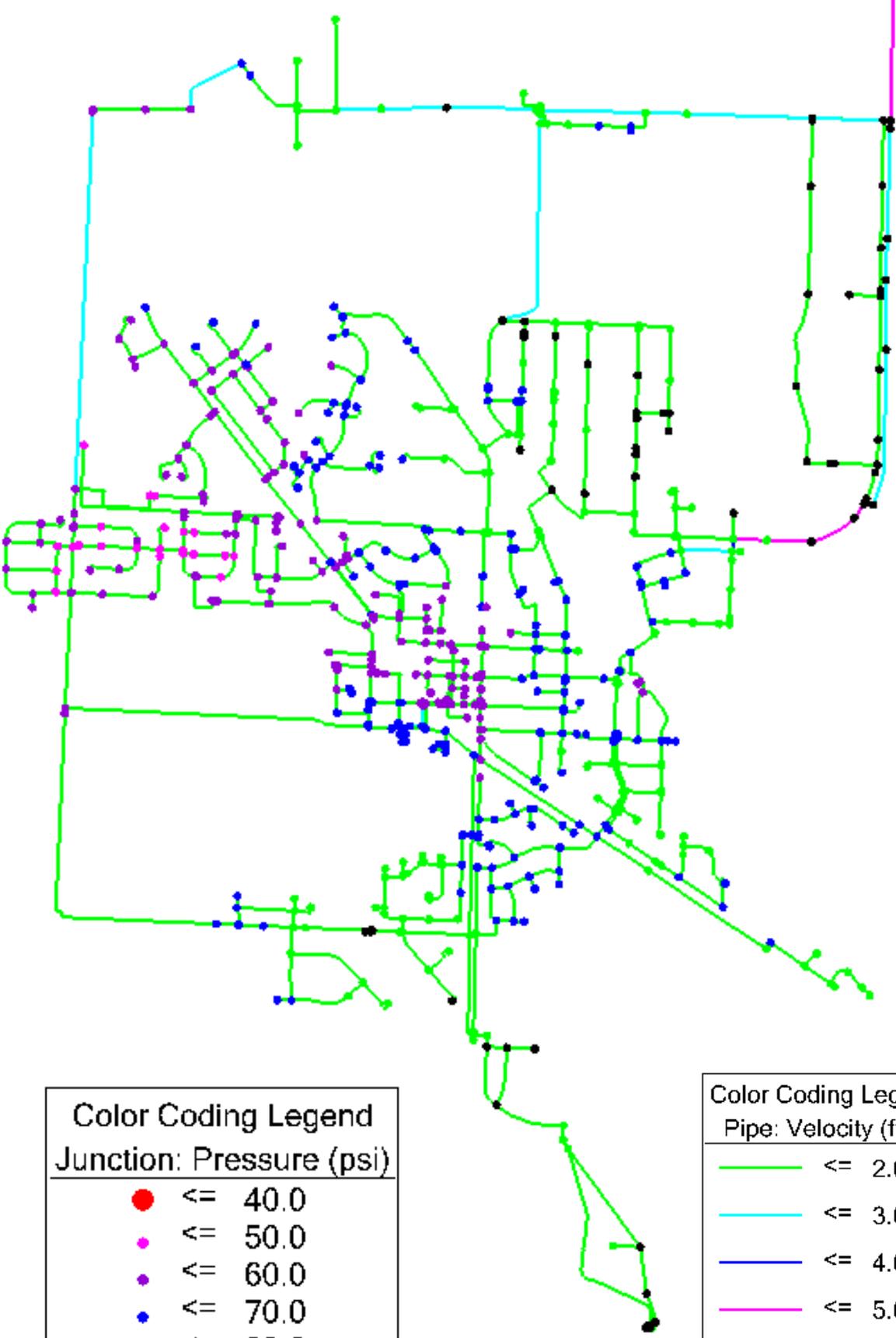


Figure 13: KCMO without Tank – Maximum Day (8 HR Supply)



Color Coding Legend	
Junction: Pressure (psi)	
● (Red)	<= 40.0
● (Magenta)	<= 50.0
● (Purple)	<= 60.0
● (Blue)	<= 70.0
● (Green)	<= 80.0
● (Black)	Other

Color Coding Legend	
Pipe: Velocity (ft/s)	
— (Green)	<= 2.00
— (Cyan)	<= 3.00
— (Blue)	<= 4.00
— (Magenta)	<= 5.00
— (Red)	<= 7.00
— (Red)	Other

Figure 14: KCMO without Tank – Maximum Day (12 HR Supply)

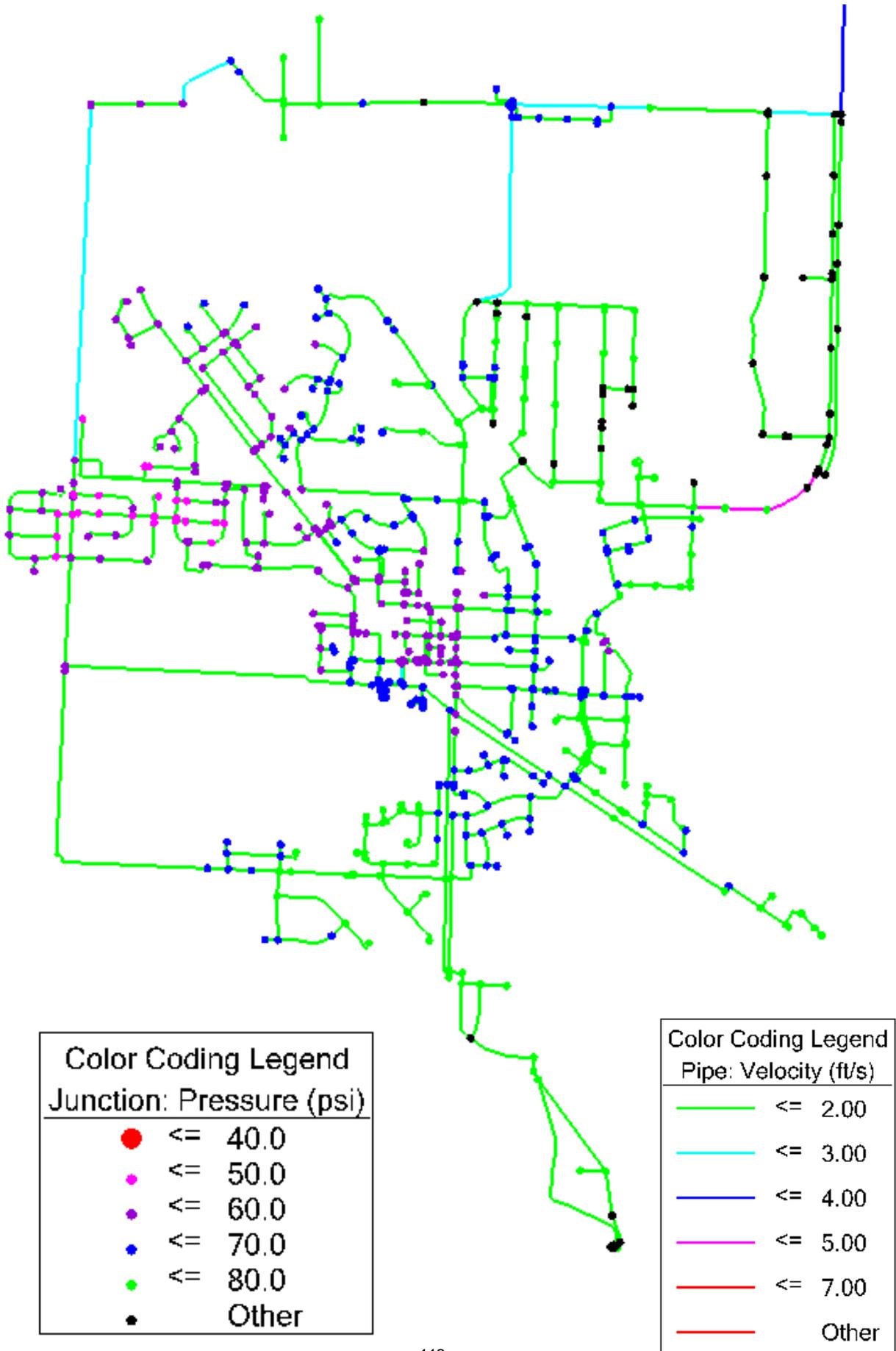


Figure 15: KCMO without Tank – Maximum Day (24 HR Supply)

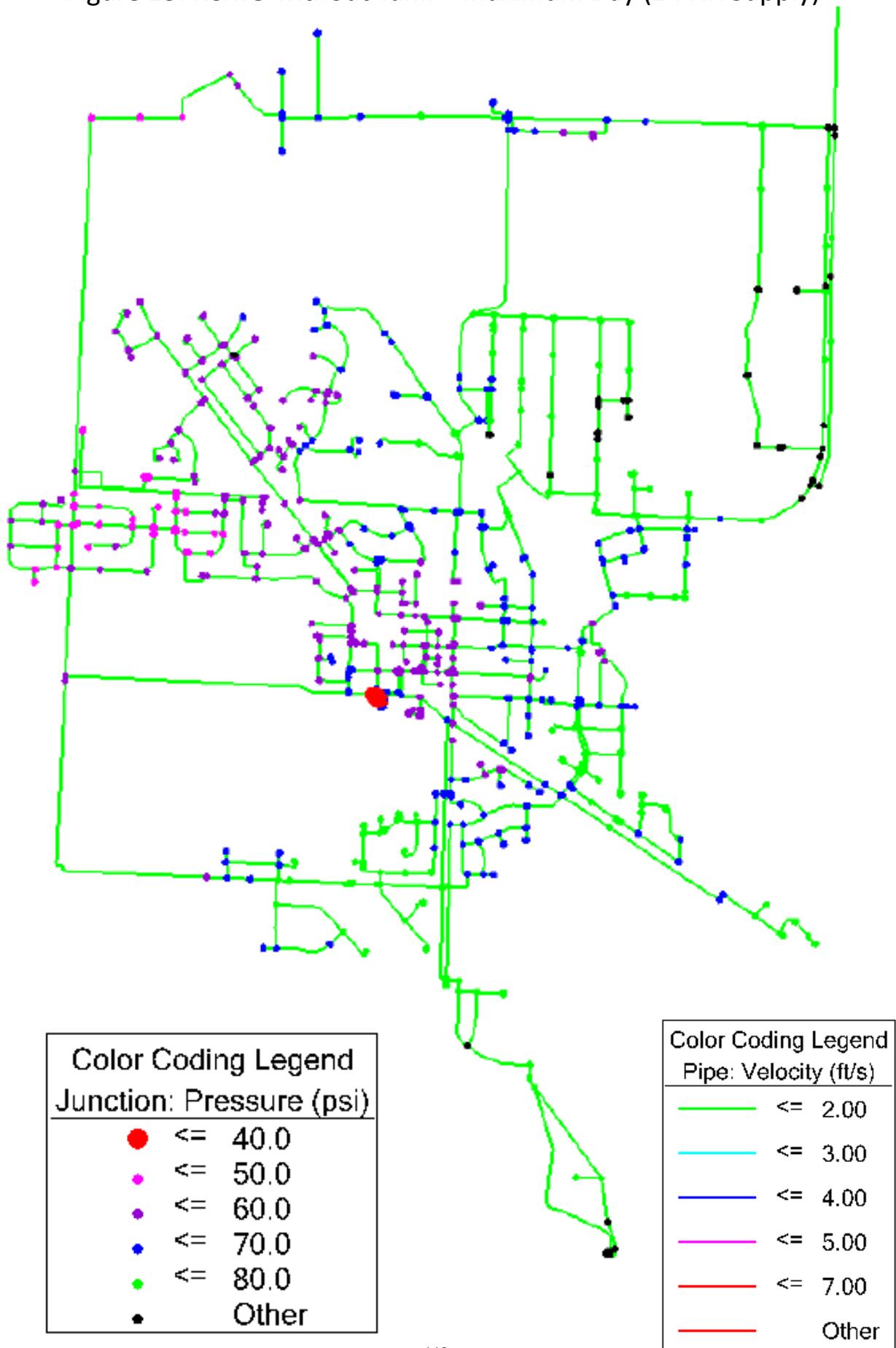


Figure 16: KCMO without Tank – Peak Hour (Zero Supply)

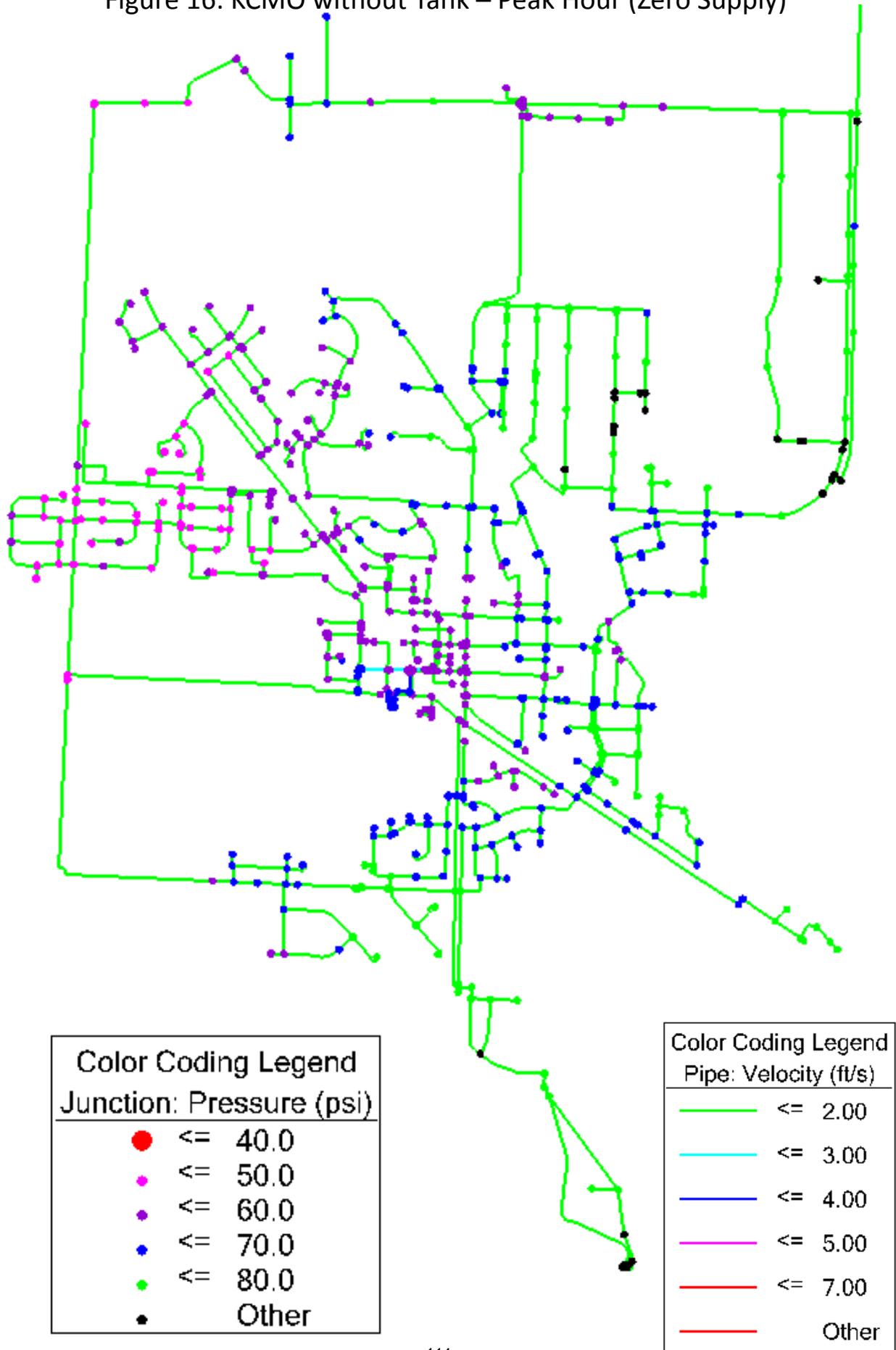
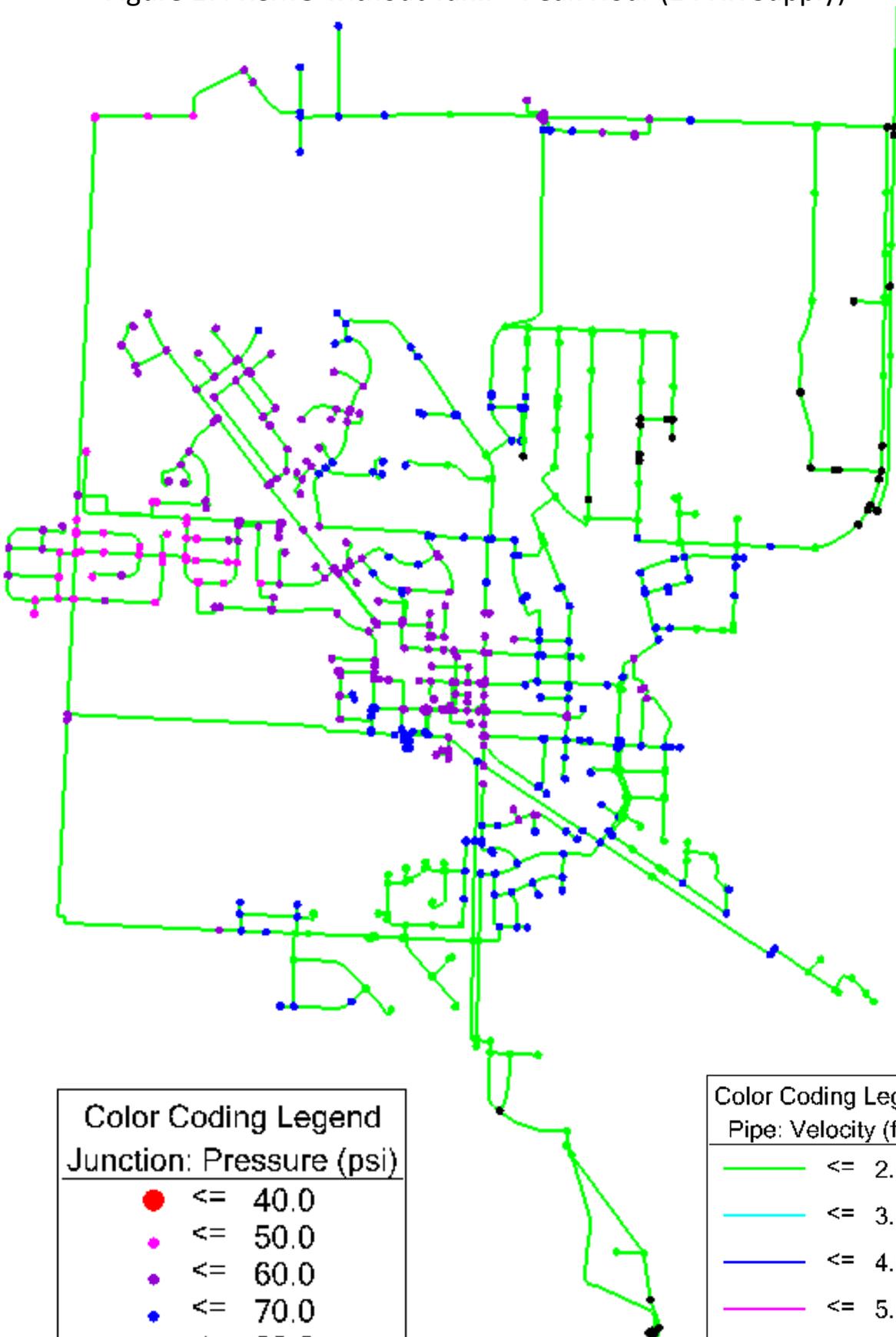


Figure 17: KCMO without Tank – Peak Hour (24 HR Supply)



Color Coding Legend	
Junction: Pressure (psi)	
● (Red)	<= 40.0
● (Magenta)	<= 50.0
● (Purple)	<= 60.0
● (Blue)	<= 70.0
● (Green)	<= 80.0
● (Black)	Other

Color Coding Legend	
Pipe: Velocity (ft/s)	
— (Green)	<= 2.00
— (Cyan)	<= 3.00
— (Blue)	<= 4.00
— (Magenta)	<= 5.00
— (Red)	<= 7.00
— (Dark Red)	Other

Figure 18: 2035 KCMO without Tank – Fire Flow

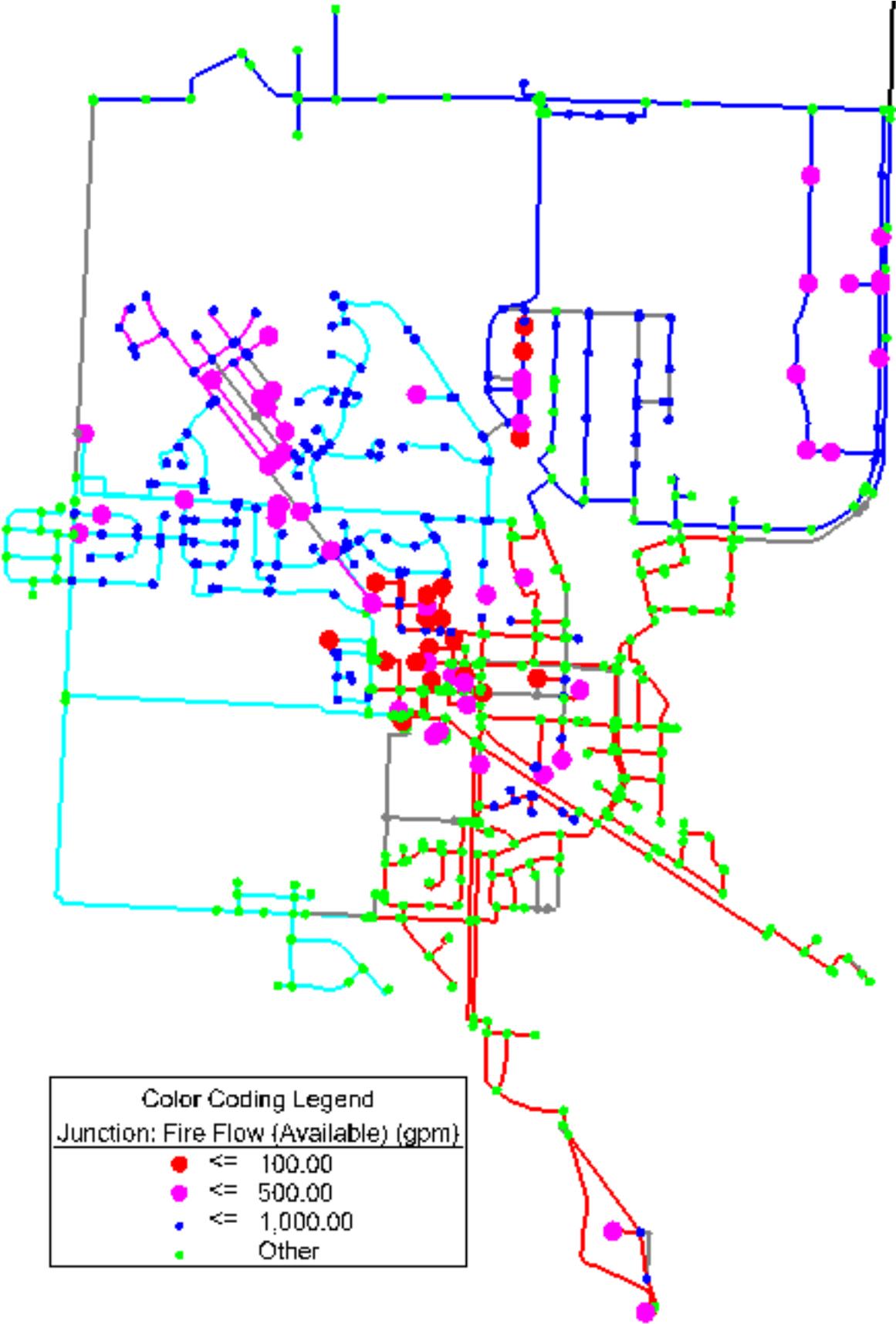


Figure 19: 2035 KCMO with Tank – Maximum Day (8 HR Supply)

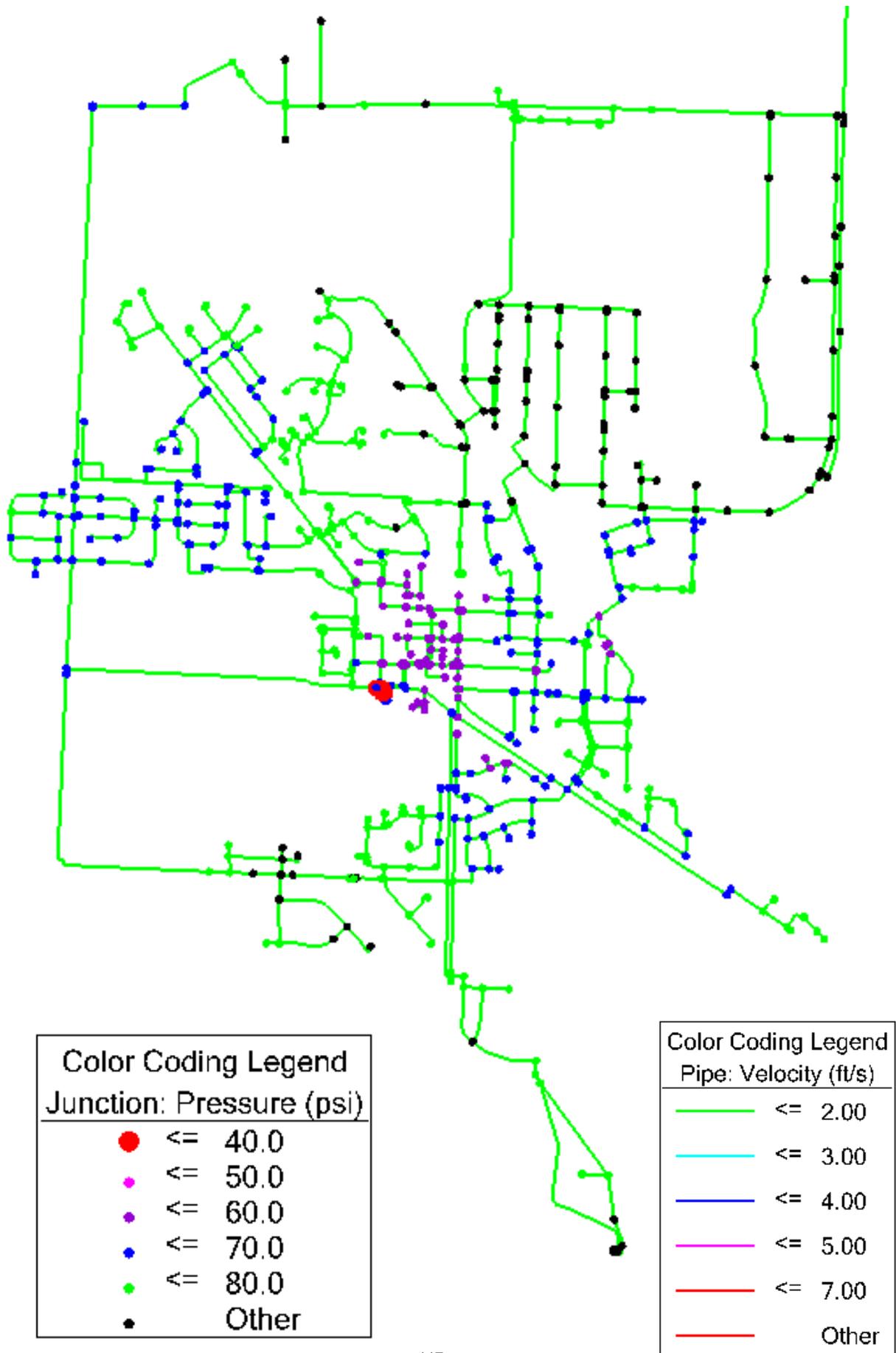


Figure 20: 2035 KCMO with Tank – Maximum Day (12 HR Supply)

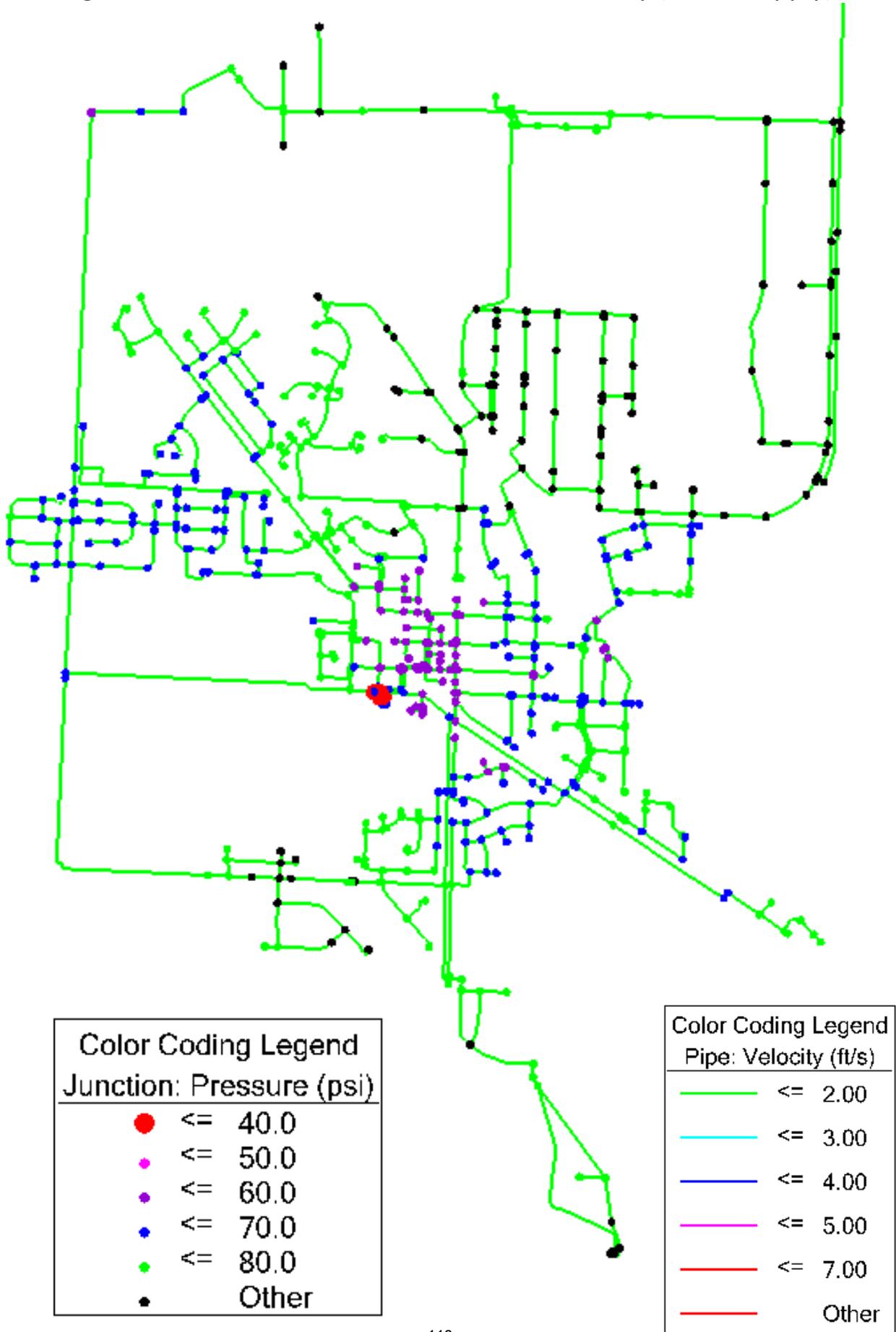
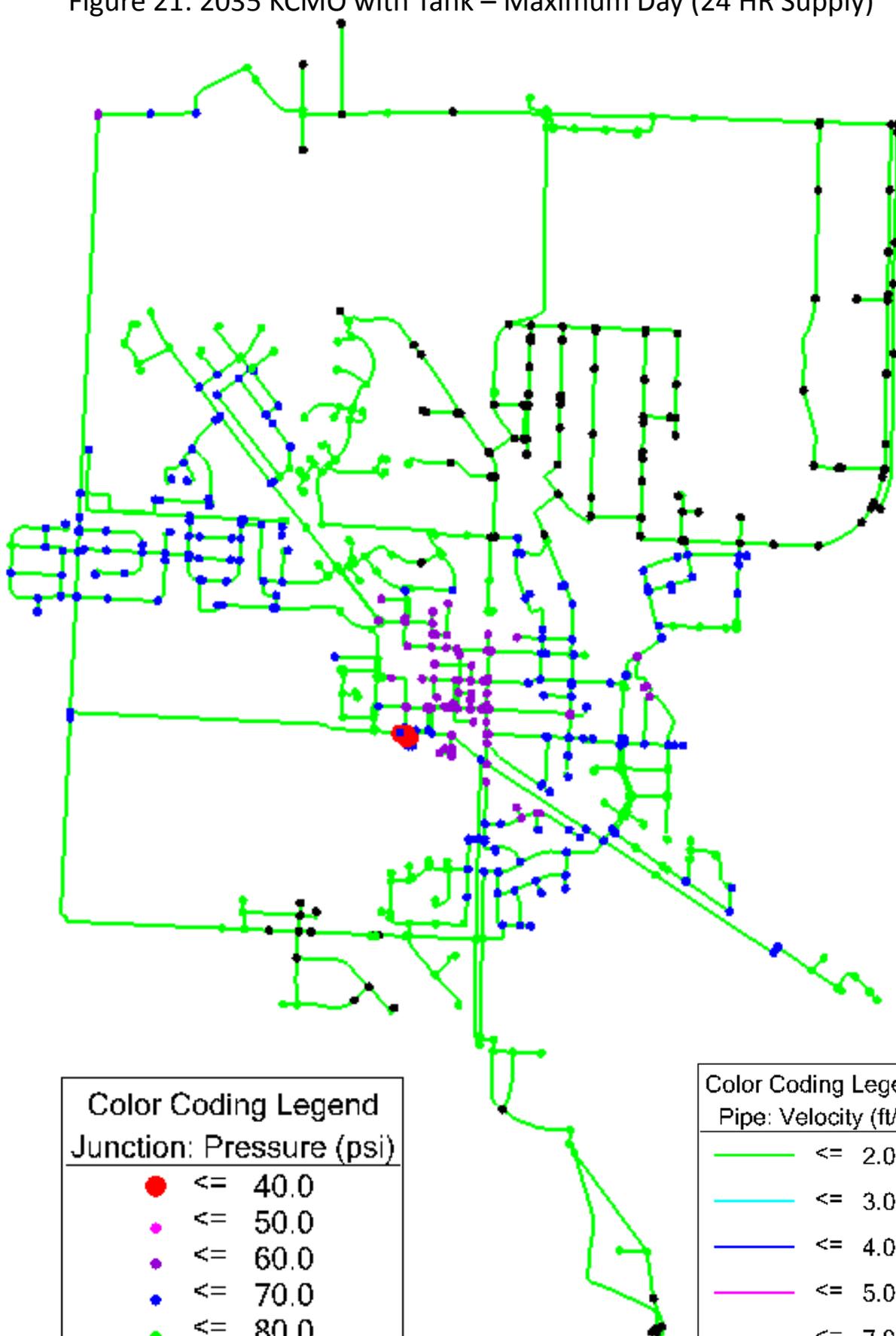


Figure 21: 2035 KCMO with Tank – Maximum Day (24 HR Supply)



Color Coding Legend	
Junction: Pressure (psi)	
●	<= 40.0
●	<= 50.0
●	<= 60.0
●	<= 70.0
●	<= 80.0
●	Other

Color Coding Legend	
Pipe: Velocity (ft/s)	
—	<= 2.00
—	<= 3.00
—	<= 4.00
—	<= 5.00
—	<= 7.00
—	Other

Figure 22: 2035 KCMO with Tank – Peak Hour (Zero Supply)

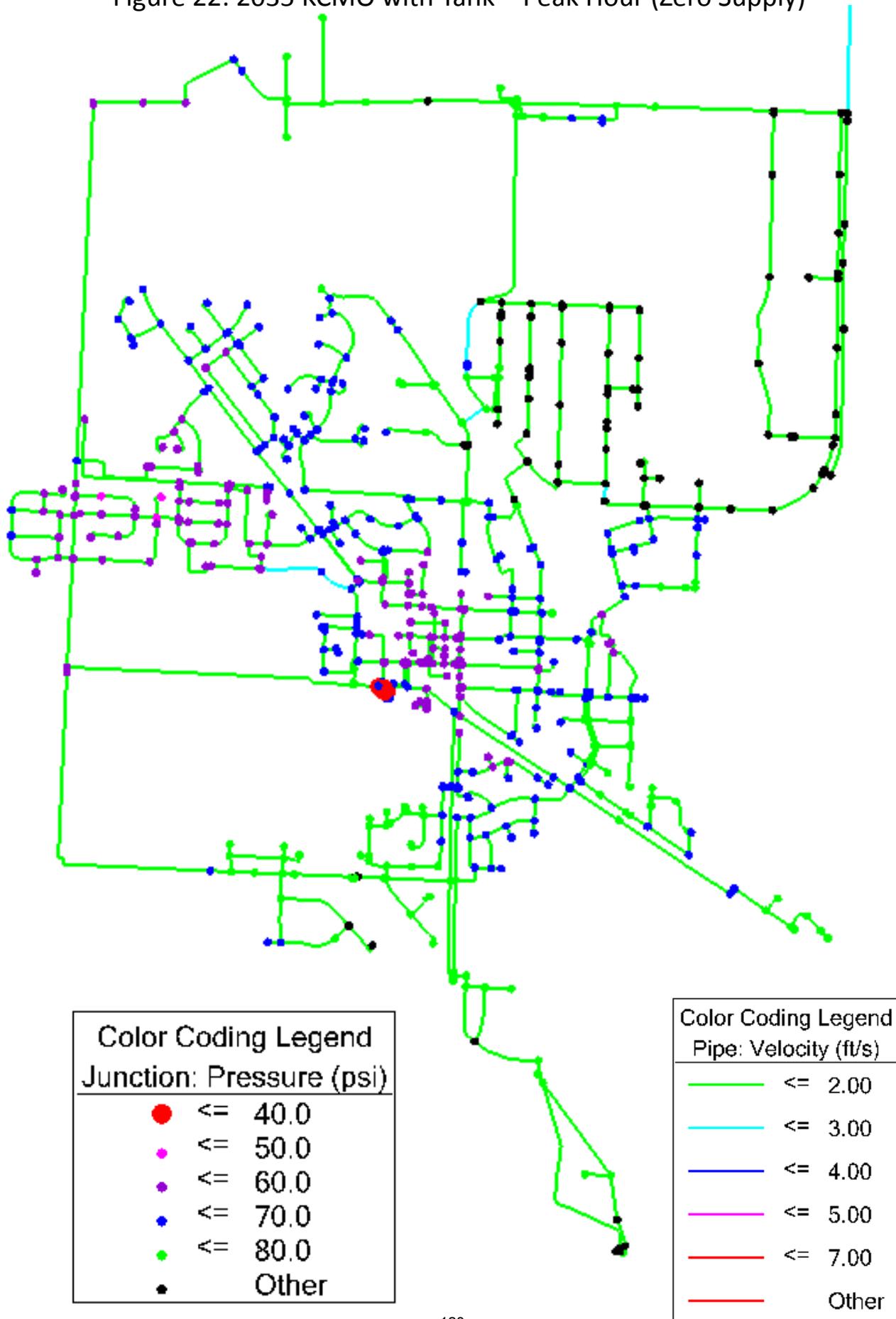


Figure 23: 2035 KCMO with Tank – Peak Hour (24 HR Supply)

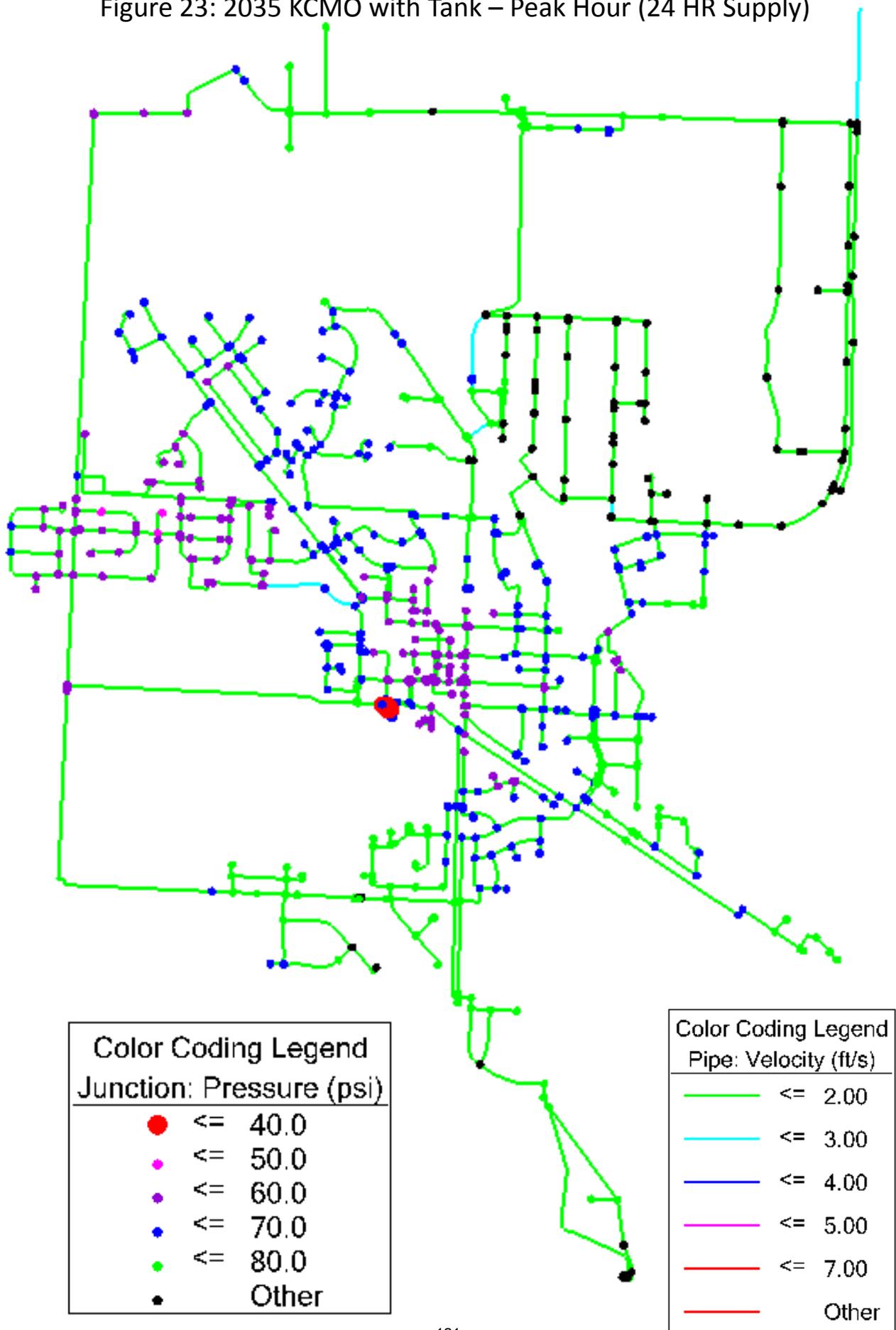
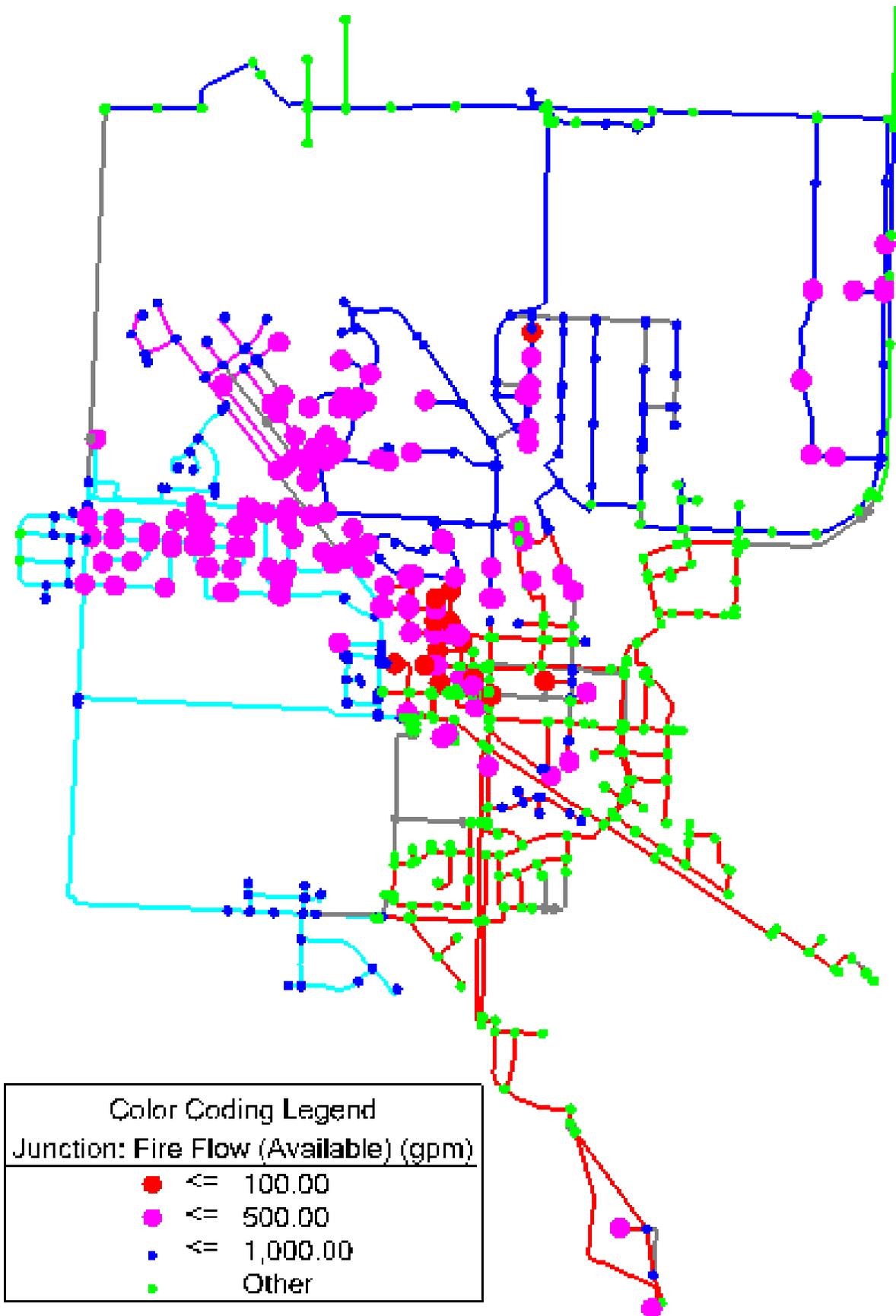


Figure 24: 2035 KCMO with Tank – Fire Flow



City Administrator
Brad Ratliff

City Clerk
Janet Burlingame

City Engineer
Carl Brooks

Business Office
Trudy Prickett



Chief of Police
Harry Gurin

City Planner
Cliff McDonald

City Attorney
Reid Holbrook

Parks Director
Grant Purkey

Municipal Offices – 250 S. Main Street, Peculiar, MO 64078
Phone: (816)779-5212 Facsimile: (816)779-1004

To: Board of Aldermen
From: Carl Brooks
Date: 03/015/16
Re: Topic of Discussion: Water Tap Fee Study

GENERAL INFORMATION

Applicant: City Staff

Requested Actions: None, Information only at this time.

Date of Application: 03/21/16

Purpose: To have the Draft Financial Forecast and Tap Fee Study as prepared by Burns & McDonnell presented to the Mayor and Board of Aldermen, and for future consideration to be include in our Comprehensive Fee Schedule.

PROPOSAL

City staff considered an engineering proposal from Burns & McDonnell to perform a Water Sewer Tap Fee study for the City of Peculiar. The water tap fee study will select the tap fee determination methodology. Using the selected methodology, calculation of water tap fees will be determined.

As indicated in the proposed report, the amount of the proposed single family residential sewer tap fee is \$1,700.00, or an increase of \$100.00. Tap fees are recommended to be reviewed every five (5) years. The financial forecast was evaluated with both a conservative residential growth rate of one (1) percent and a commercial development utilizing the 1 MGD potential supply.

PREVIOUS ACTIONS

None.

STAFF COMMENTS AND SUGGESTIONS

Water tap fees are designed to partially recover the capital cost associated with the infrastructure needed to provide water services to new customers (growth).

This water tap fee study has provided recommendations in the best interest for the water customers of the City of Peculiar.

We do not want to be the highest “tap fee” in Cass County, yet we do not want to be the lowest “tap fee” in Cass County.

STAFF RECOMMENDATION

City staff recommends approval of the proposed Draft Financial Forecast and Tap Fee Study as prepared by Burns & McDonnell.

ATTACHMENTS

Draft Financial Forecast and Tap Fee Study as prepared by Burns& McDonnell



DRAFT Financial Forecast and Tap Fee Study

City of Peculiar, Missouri

Financial Forecast and Tap Fee Study
Project No. 87391

DRAFT Report
03/14/2016



Financial Forecast and Tap Fee Study

prepared for

City of Peculiar, Missouri
Financial Forecast and Tap Fee Study
Peculiar, Missouri

Project No. 87391

DRAFT Report
03/14/2016

prepared by

Burns & McDonnell Engineering Company, Inc.

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1.0 EXECUTIVE SUMMARY

1.1 Project Background

Burns & McDonnell was engaged by the City of Peculiar (the City) to perform a financial forecast and tap fee study (Study) that (i) evaluates the financial planning implications of completing a new connection to Kansas City, Missouri and increasing the City's capacity to serve growth, and (ii) proposes tap fee rates to adequately recover costs associated with capacity that accommodates growth in the system.

1.2 Financial Planning

Comprehensive financial planning conducted for the utility considered two growth scenarios. The conservative case assumes growth consistent with recent history, increasing residential accounts by approximately one percent per year and no growth within other customer classes. Financial planning for this scenario, as summarized in Table 2-5, indicates that revenues under existing and approved rates (through 2018) are adequate to meet the projected cash obligations over the first five years of the study period, including the cost of connection to the Kansas City water system, through 2020. Beginning in 2021, revenue increases are proposed to sustain the financial performance of the water system.

A more aggressive growth scenario assumes growth in commercial accounts reflecting the "intermediate" demand assumptions from the Burns & McDonnell technical memorandum dated March 14, 2016. Under this scenario, no further revenue increases beyond those approved or planned through 2018 are anticipated through 2025. This scenario is summarized in Table 2-6.

The financial forecast is described in detail in Section 2.0 of this report. Burns & McDonnell recommends performing comprehensive financial planning with accompanying rate analysis at a minimum of every 5 years, or sooner if forecasted revenues and expenses deviate from projections anticipated herein.

1.3 Proposed Tap Fees

The City currently charges new water connections a \$1,600 fee if classified as residential and a \$1,900 fee if classified as commercial. Tap fees were evaluated using the Buy-In Methodology. Based on the findings of the tap fee analysis, tap fees for a 5/8" or 3/4" connection are proposed to be \$1,700. Fees for larger meter sizes are increased in accordance with meter capacity factors. Proposed tap fees are summarized in Table 1-1.

The development of proposed tap fees is described in detail in Section 3.0 of this report. Burns & McDonnell recommends the City review its tap fee calculation approximately every 5 years.

Table 1-1: Proposed Tap Fees by Meter Size

<u>Meter Size</u>	<u>Equivalency Ratio</u>	<u>Proposed Water Tap Fee</u>
5/8"	1.0	\$ 1,700
3/4	1.0	\$ 1,700
1	1.7	\$ 2,900
1.5	3.3	\$ 5,600
2	5.3	\$ 9,000
3	10.4	\$ 17,700
4	16.7	\$ 28,400

1.4 Statement of Limitations

In preparation of the City of Peculiar Financial Planning and Tap Fee Study (Study), Burns & McDonnell relied upon information provided by the City. The information included various analyses, computer-generated information and reports, audited financial reports, and other financial and statistical information, as well as other documents such as operating budgets and current retail water rate schedules. In addition, input to key assumptions regarding expected future levels of revenue, sales, and expenditures was provided by City staff to Burns & McDonnell. While Burns & McDonnell has no reason to believe that the information provided, and upon which Burns & McDonnell has relied, is inaccurate or incomplete in any material respect, Burns & McDonnell has not independently verified such information and cannot guarantee its accuracy or completeness.

Estimates and projections prepared by Burns & McDonnell relating to financial forecasting and costs are based on Burns & McDonnell's experience, qualifications, and judgment as a professional consultant. Since Burns & McDonnell has no control over weather, cost and availability of labor, material and equipment, labor productivity, contractors' procedures and methods, unavoidable delays, economic conditions, government regulations and laws (including interpretation thereof), competitive bidding, and market conditions or other factors affecting such estimates or projections, Burns & McDonnell does not guarantee the accuracy of its estimates or predictions.

2.0 FINANCIAL PLANNING ANALYSIS

2.1 Project Approach

To meet the project objectives identified by the City, Burns & McDonnell conducted a financial forecast. Financial Planning provides an indication of the adequacy of the revenue generated by current rates. The results of the financial forecast analysis answer the questions "Are the existing rates adequate?" and "If not, what level of overall revenue increase is needed?" The Financial Planning Analysis is presented in the remainder of this section of this report.

2.2 Introduction

To determine if the existing schedule of rates can be expected to generate revenues sufficient to meet the City's operating and capital costs, Burns & McDonnell prepared a ten-year financial projection of revenues and expenditures for the water utility. A comparison of projected revenues and expenditures provides insight into the adequacy of overall revenue levels.

Our approach to Financial Planning involves the following basic steps:

1. Project revenues under existing and approved rates.
2. Project water utility expenditures.
3. Determine a funding plan to meet the proposed capital improvement program, including the use of cash and debt.
4. Develop a ten-year financial plan, including the budget year and a nine-year forecast period.

The planning period includes fiscal year (FY) 2016 as a budget year and a nine-year forecast period, FY 2017 – FY 2025. The City utilizes a twelve-month fiscal year beginning October 1 and ending September 30. The Financial Plan Analysis recognizes and references the same fiscal year in the ten-year budget and planning period.

2.3 Water Utility Revenues under Existing Rates

The projection of revenues under the existing schedule of rates involved an analysis of customers, volumes, and revenues for the utility. The existing schedule of rates for FY 2016 and assumed rates for FY 2017 and FY 2018 is shown in Table 2-1.

Table 2-1: Existing Rates and Assumed Rates

	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>
<u>Within City Limits:</u>			
First 1,000 gallons	\$20.96	\$22.46	\$23.71
Over 1,000 gallons	\$16.52	\$18.02	\$19.27
<u>Outside City Limits:</u>			
First 1,000 gallons	\$23.70	\$25.20	\$26.45
Over 1,000 gallons	\$17.52	\$19.02	\$20.27

2.3.1 Historical Projected Customers, Volume & Revenue

Table 2-2 presents the historical water customers, volumes and revenue from 2013 to 2015 and the projection of customers, volumes and revenues under existing and approved rates for the 2016 to 2025 planning period. In recent years, the City has experienced a slight increase in the number of residential accounts with other customer classes remaining relatively stable. In light of recent trends in account growth, the projection of accounts conservatively assumes a one percent growth in the residential class and no growth within the other customer classes of accounts for 2016 through 2026.

Annual water volumes were constant in FY 2013 and FY 2014, decreasing in FY 2015 due to a wet year. Water sales are projected to slightly increase over the study period based on the growth in residential accounts. Water volumes are projected to increase from 80.6 million gallons in FY 2016 to 86.4 million gallons over the study period.

Table 2-2 also presents historical user charge revenues for 2013 to 2015 and a projection of user revenues under existing and approved rates for the 2016 to 2025 planning period. The projection of user revenues was estimated based on the forecasted accounts and volumes factored by the existing schedule of rates.

Historical water user charge revenues ranged from \$899,063 in 2013 to \$1,295,757 in 2015. Forecasted user revenues reflect the anticipated growth of customers and volumes previously presented and the existing and approved rates. Overall, water user charge revenues under existing and approved rates are projected to increase from \$1,501,500 in 2016 to \$1,859,400 in 2025.

Table 2-2: Historical and Projected Accounts, Volume and Revenues under Existing Rates

Line No.	Historical			Projected									
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Accounts													
1 Residential	1,488	1,508	1,538	1,553	1,569	1,584	1,600	1,616	1,632	1,649	1,665	1,682	1,699
2 Commercial (B12)	81	79	81	81	81	81	81	81	81	81	81	81	81
3 Government (non-taxable)	18	16	16	16	16	16	16	16	16	16	16	16	16
4 Other Outside	1	2	2	2	2	2	2	2	2	2	2	2	2
5 Rural	2	18	18	18	18	18	18	18	18	18	18	18	18
6 Total Accounts	1,589	1,624	1,655	1,671	1,686	1,702	1,718	1,734	1,750	1,766	1,783	1,799	1,816
Billed Volume (1,000 Gallons)													
7 Residential	75,211,554	72,307,370	61,640,084	62,256,500	62,879,000	63,507,800	64,142,900	64,784,300	65,432,200	66,086,500	66,747,400	67,414,900	68,089,000
8 Commercial (B12)	12,741,558	14,518,600	15,289,300	15,289,300	15,289,300	15,289,300	15,289,300	15,289,300	15,289,300	15,289,300	15,289,300	15,289,300	15,289,300
9 Government (non-taxable)	2,652,100	2,322,100	2,158,200	2,158,200	2,158,200	2,158,200	2,158,200	2,158,200	2,158,200	2,158,200	2,158,200	2,158,200	2,158,200
10 Other Outside	121,300	51,100	42,900	42,900	42,900	42,900	42,900	42,900	42,900	42,900	42,900	42,900	42,900
11 Rural	98,900	1,136,900	861,800	861,800	861,800	861,800	861,800	861,800	861,800	861,800	861,800	861,800	861,800
12 Total Billed Volume	90,825,412	90,336,070	79,992,284	80,608,700	81,231,200	81,860,000	82,495,100	83,136,500	83,784,400	84,438,700	85,099,600	85,767,100	86,441,200
User Charge Revenues under Existing Rates													
1 Residential	\$ 734,323	\$ 879,332	\$ 991,960	\$ 1,152,200	\$ 1,262,600	\$ 1,358,100	\$ 1,371,700	\$ 1,385,400	\$ 1,399,300	\$ 1,413,300	\$ 1,427,400	\$ 1,441,700	\$ 1,456,100
2 Commercial (B12)	\$ 134,710	\$ 206,239	\$ 254,998	\$ 293,200	\$ 318,200	\$ 338,900	\$ 338,900	\$ 338,900	\$ 338,900	\$ 338,900	\$ 338,900	\$ 338,900	\$ 338,900
3 Government (non-taxable)	\$ 27,360	\$ 30,524	\$ 33,761	\$ 38,800	\$ 42,100	\$ 44,900	\$ 44,900	\$ 44,900	\$ 44,900	\$ 44,900	\$ 44,900	\$ 44,900	\$ 44,900
4 Other Outside	\$ 1,339	\$ 858	\$ 848	\$ 1,000	\$ 1,000	\$ 1,100	\$ 1,100	\$ 1,100	\$ 1,100	\$ 1,100	\$ 1,100	\$ 1,100	\$ 1,100
5 Rural	\$ 1,331	\$ 15,302	\$ 14,190	\$ 16,300	\$ 17,500	\$ 18,400	\$ 18,400	\$ 18,400	\$ 18,400	\$ 18,400	\$ 18,400	\$ 18,400	\$ 18,400
6 Total UC Revenues	\$ 899,063	\$ 1,132,255	\$ 1,295,757	\$ 1,501,500	\$ 1,641,400	\$ 1,761,400	\$ 1,775,000	\$ 1,788,700	\$ 1,802,600	\$ 1,816,600	\$ 1,830,700	\$ 1,845,000	\$ 1,859,400

2.4 Utility Expenditures

The water utility’s primary cash expenditures include the following direct operating and capital costs:

- Operation and Maintenance (O&M) Expenses
- Capital Improvement Program Expenditures
- Debt Service Principal and Interest Payments

2.4.1 O&M Expenses

Table 2-3 presents the recent water O&M expense history and the projection of water system O&M expenses through the 2025 planning period. Expenses summarized on Table 2-3 reflect operating costs associated with the utility. Costs related to capital projects are excluded from Table 2-3 and will be discussed later in this report.

Water O&M expenses ranged from \$844,457 in 2013 to \$1,044,552 in 2014. O&M costs for 2016 are based on the approved budget. Projected O&M expenses in general are escalated from budgeted 2016 amounts based on inflationary assumptions of 3.0 percent annually for salaries, 4.0 percent annually for benefits, 5.0 percent annually for water purchases and 2.5 percent for all other expenses.

Total O&M is projected to increase from the 2016 budgeted amount of \$1,171,300 to \$1,374,000 in 2025.

Table 2-3: Historical and Projected Operation and Maintenance Expenses

Line No.		Historical			Budgeted	Projected								
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water Expenditures														
1	50-50-5000 Water Purchases	419,630	409,318	407,699	513,700	447,900	344,200	364,200	385,400	407,800	431,500	456,700	483,300	511,400
2	50-50-5001 Water-Salaries & Wages	166,429	194,749	238,602	263,000	270,900	279,000	287,400	296,000	304,900	314,000	323,400	333,100	343,100
3	50-50-5200 Payroll Taxes	13,123	13,239	16,199	20,900	21,500	22,100	22,800	23,500	24,200	24,900	25,600	26,400	27,200
4	50-50-5210 Benefits	69,535	76,580	90,307	124,900	129,900	135,100	140,500	146,100	151,900	158,000	164,300	170,900	177,700
5	50-50-5220 Worker's Compensation	4,250	5,752	26,987	8,200	8,500	8,800	9,200	9,600	10,000	10,400	10,800	11,200	11,600
6	50-50-5240 Employee Awards	-	-	164	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900
7	50-50-5300 Uniforms	1,238	1,239	27,069	2,300	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100
8	50-50-5310 Travel & Training	934	1,410	2,640	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100
9	50-50-5320 Employee Testing	353	292	312	400	400	400	400	400	400	400	400	400	400
10	50-50-5400 Office Supplies	4,200	1,869	2,530	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
11	50-50-5410 Dues & Subscriptions	2,136	1,649	2,095	2,000	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800
12	50-50-5420 Postage	3,363	3,212	3,456	3,800	3,800	3,900	4,000	4,100	4,200	4,300	4,400	4,500	4,600
13	50-50-5430 Bankcard Fees	8,568	14,015	6,535	-	-	-	-	-	-	-	-	-	-
14	50-50-5440 Office Machines	4,150	4,972	4,627	5,500	5,600	5,700	5,800	5,900	6,000	6,200	6,400	6,600	6,800
15	50-50-5540 Public Hearing	344	-	-	500	500	500	500	500	500	500	500	500	500
16	50-50-5600 Audit	3,075	3,100	4,600	3,100	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000
17	50-50-5610 Accounting	10,446	17,705	36,234	18,400	18,900	19,400	19,900	20,400	20,900	21,400	21,900	22,400	23,000
18	50-50-5620 Legal	24,684	2,050	15,916	5,500	5,600	5,700	5,800	5,900	6,000	6,200	6,400	6,600	6,800
19	50-50-5630 Litigation	4,505	319	20,403	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000	3,100
20	50-50-5660 Engineering	6,086	43,000	415	10,000	10,300	10,600	10,900	11,200	11,500	11,800	12,100	12,400	12,700
21	50-50-5675 Liability Insurance	6,147	5,823	1,506	6,000	6,200	6,400	6,600	6,800	7,000	7,200	7,400	7,600	7,800
22	50-50-5700 Eco Dev Contractual	-	4,172	25,703	50,000	51,300	52,600	53,900	55,200	56,600	58,000	59,500	61,000	62,500
23	50-50-5715 Contractual-Payroll	1,147	437	519	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900
24	50-50-5720 Water Contractual	12,530	20,651	26,675	24,500	25,100	25,700	26,300	27,000	27,700	28,400	29,100	29,800	30,500
25	50-50-5800 IT Maintenance	7,512	7,079	3,526	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000	4,100	4,200
26	50-50-5810 Hardware Expense	1,915	1,500	7,449	12,500	12,800	13,100	13,400	13,700	14,000	14,400	14,800	15,200	15,600
27	50-50-5820 Software Expense	4,904	2,109	7,520	5,600	5,700	5,800	5,900	6,000	6,200	6,400	6,600	6,800	7,000
28	50-50-5850 Telephone	1,398	1,430	1,353	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900
29	50-50-5870 Communications	-	-	120	200	200	200	200	200	200	200	200	200	200
30	50-50-6130 Supplies	-	3,847	2,410	2,000	2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900
31	50-50-6150 Administrative Building	13,238	-	15,260	6,600	6,800	7,000	7,200	7,400	7,600	7,800	8,000	8,200	8,400
32	50-50-6160 Public Works Building	4,240	-	7,578	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900
33	50-50-6200 Vehicle Insurance	2,100	2,438	618	2,500	2,600	2,700	2,800	2,900	3,000	3,100	3,200	3,300	3,400
34	50-50-6210 Vehicle Maintenance	1,752	550	3,550	4,000	4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900
35	50-50-6220 Fuel & Oil	5,170	7,044	4,266	6,000	6,200	6,400	6,600	6,800	7,000	7,200	7,400	7,600	7,800
36	50-50-6260 Safety Equipment	-	887	187	8,300	8,500	8,700	8,900	9,100	9,300	9,500	9,700	9,900	10,100
37	50-50-7200 Pump-Line Maintenance	22,718	14,822	17,319	19,700	20,200	20,700	21,200	21,700	22,200	22,800	23,400	24,000	24,600
38	50-50-7210 Tower Maintenance	37	94	-	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900
39	50-50-7220 Meter Maintenance	6,578	6,541	3,524	9,400	9,600	9,800	10,000	10,300	10,600	10,900	11,200	11,500	11,800
40	50-50-7250 Utilities	6,022	3,832	8,681	5,000	5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900
41	Total Water Expenses	844,457	877,726	1,044,552	1,171,300	1,125,500	1,042,500	1,083,900	1,127,100	1,172,200	1,219,500	1,268,900	1,320,400	1,374,000
			3.9%	19.0%	12.1%	-3.9%	-7.4%	4.0%	4.0%	4.0%	4.0%	4.1%	4.1%	4.1%

2.4.2 Projected Capital Improvement Expenditures

Table 2-4 shows the projected capital improvement expenditures for the 2016 to 2025 planning period. As shown in Table 2-4, the CIP ranges by year from a low of \$45,700 in 2025 to a high of \$4,977,900 in 2017. A primary contributor to the CIP forecast is the Kansas City Water Supply Transmission Main and the Connection Fee.

Table 2-4: Capital Improvement Program

Line No.		Projected											
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total	
Budgeted Projects													
1	WA15-002	Kansas City Water Supply 12" Trans. Main	-	3,300,000	-	-	-	-	-	-	-	3,300,000	
2		Kansas City Connection Fee	-	817,000	-	-	-	-	-	-	-	817,000	
3	WA15-003	Peculiar Drive North to Hurly	562,513	-	-	-	-	-	-	-	-	562,513	
4	WA15-004	Spencer Addition	-	327,940	-	-	-	-	-	-	-	327,940	
5	WA15-005	Harr Grove	-	-	259,059	-	-	-	-	-	-	259,059	
6	WA15-006	Water Supply Valve Engineering	74,000	-	-	-	-	-	-	-	-	74,000	
7	WA16-001	Windmill Meter Relocation	50,000	-	-	-	-	-	-	-	-	50,000	
8	WA16-002	F350 Replacement (2004)	-	-	35,500	-	-	-	-	-	-	35,500	
9	WA16-003	Water Storage Tank Maintenance	-	60,000	60,000	60,000	60,000	-	-	-	-	240,000	
10	WA20-001	VFD Pump	-	-	-	-	30,000	-	-	-	-	30,000	
11	WA20-002	Water Storage Inspection	-	-	-	15,000	-	-	-	-	-	15,000	
12	PA18-001	F350 Replacement (2008)	-	-	35,500	-	-	-	-	-	-	35,500	
13		Improvement 2	-	327,940	-	-	-	-	-	-	-	327,940	
14		Improvement 3	-	-	259,059	-	-	-	-	-	-	259,059	
15		Improvement 4	-	-	-	261,482	-	-	-	-	-	261,482	
16		Improvement 5	-	-	-	-	184,248	-	-	-	-	184,248	
17		Improvement 6	-	-	-	-	-	452,156	-	-	-	452,156	
18		Improvement 7	-	-	-	-	-	-	184,046	-	-	184,046	
19		Improvement 8	-	-	-	-	-	-	-	278,154	-	278,154	
20		Tank Mixing Systems (2)	-	-	-	-	-	-	-	100,000	-	100,000	
21		Emergency Generator	-	-	-	-	-	-	-	-	35,000	35,000	
22		Total Capital Improvement Projects	686,513	4,832,880	649,118	321,482	289,248	452,156	184,046	278,154	100,000	35,000	7,828,597
23		Total Capital Improvement Projects with Inflation	686,500	4,977,900	688,600	351,300	325,600	524,200	219,800	342,100	126,700	45,700	8,288,400

2.4.3 Existing and Proposed Debt Service Requirements

Table 2-5 presents the existing and proposed debt service requirements for the water utility. As shown on Table 2-5, the water utility currently has approximately \$154,000 to \$340,800 of annual debt service payment obligations throughout the forecast period. A single debt issuance for the major capital projects associated with connecting to the City of Kansas City is proposed in 2017. Including both existing and proposed debt, total debt service increases from approximately \$154,000 in 2016 to approximately \$701,900 in 2025.

Table 2-5: Existing and Proposed Debt Service

Line No.		Projected										
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Existing Debt Issues												
1		Series 2014	37,300	37,400	37,500	37,600	36,900	37,900	37,400	37,600	37,800	38,600
2		Series 2013	44,000	43,700	43,400	43,100	42,700	44,600	44,000	43,200	44,900	44,000
3		Series 2013 COP Refinancing	48,100	48,100	48,100	149,800	181,900	250,500	253,300	255,500	253,400	258,200
4		2013 COP Refinancing	24,600	28,000	27,500	26,900	-	-	-	-	-	-
5		Total Existing Debt Service	154,000	157,200	156,500	257,400	261,500	333,000	334,700	336,300	336,100	340,800
Proposed Debt												
6		2017 Issuance	-	361,100	361,100	361,100	361,100	361,100	361,100	361,100	361,100	361,100
7		Total Proposed Debt Service	-	361,100	361,100	361,100	361,100	361,100	361,100	361,100	361,100	361,100
8		Total Debt Service	154,000	518,300	517,600	618,500	622,600	694,100	695,800	697,400	697,200	701,900

2.5 Water Utility Financial Plan

Based on the information developed for this report, a financial plan has been assembled. This financial plan aggregates the revenues and expenses forecasted and described previously to assess the adequacy of revenues to meet all operating and capital requirements. The cash flow analysis identifies the overall increase in revenues needed to meet the City's overall financial objectives.

2.5.1 Operating Flow of Funds

A detailed cash flow is presented in Table 2-6. Line 1 of Table 2-6 shows user revenues under existing and approved rates, shown previously in Table 2-2. Lines 2 through 10 present the proposed revenue increases. As can be seen, no additional revenue increases are needed until FY 2021. All increases shown are assumed to be effective in October of the calendar year indicated. Total user revenues are summarized on Line 12. Lines 13 through 19 present other water fund revenues, which are projected to remain at 2016 budget levels. Line 20 shows the total operating revenue forecasted over the study period. Including the proposed revenue adjustments, total revenue is projected to range from \$1,688,700 in 2016 to \$2,363,700 in 2025.

Operating revenue requirements are shown on Lines 21 through 25 of Table 2-6. The operations and maintenance expenses are as shown previously in Table 2-3. The debt service amounts on Lines 22 through 24 correspond to the debt shown in Table 2-5.

Total revenue requirements are summarized on Line 25 of Table 2-6. This amount is deducted from Line 20 total revenue to determine the annual operating balance. With the proposed revenue adjustments, the operating balance is positive throughout the forecast.

2.5.2 Capital Flow of Funds

The capital flow of funds is shown in Table 2-6 on Lines 32 through 38.

Sources of funds include a transfer of funds from the operating balance and the issuance of debt. In FY 2016, the transfer from operating funds is approximately \$482,900. Capital improvement projects shown on Line 37 are consistent with that shown in Table 2-4.

Line 38 of Table 2-6 shows the annual capital balance. As can be seen, the balance all years of the forecast show enough funding sources for the capital in each year, leaving a positive capital balance on Line 38.

Total utility debt service coverage is calculated on Lines 39 through 41. After the proposed 2017 debt issuance, debt service coverage is anticipated to range from 1.28 to 1.75 from 2017 to 2025.

Table 2-6: Water Utility Financial Plan

Line No.		Projected									
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Water Utility Operating Flow of Funds											
1	Revenue Under Existing Rates	1,501,500	1,641,400	1,761,400	1,775,000	1,788,700	1,802,600	1,816,600	1,830,700	1,845,000	1,859,400
<u>Proposed Revenue Adjustments</u>											
	<u>Year</u>	<u>Month</u>	<u>Increase</u>								
2	2017	1	0.0%	-	-	-	-	-	-	-	-
3	2018	1	0.0%	-	-	-	-	-	-	-	-
4	2019	1	0.0%	-	-	-	-	-	-	-	-
5	2020	1	0.0%	-	-	-	-	-	-	-	-
6	2021	1	4.0%	-	-	-	72,100	72,700	73,200	73,800	74,400
7	2022	1	3.0%	-	-	-	-	56,700	57,100	57,600	58,000
8	2023	1	3.0%	-	-	-	-	-	58,800	59,300	59,800
9	2024	1	3.0%	-	-	-	-	-	-	61,100	61,500
10	2025	1	3.0%	-	-	-	-	-	-	-	63,400
11	Total Proposed Additional Revenue	-	-	-	-	-	72,100	129,400	189,100	251,800	317,100
12	Total Water User Charge Revenue	1,501,500	1,641,400	1,761,400	1,775,000	1,788,700	1,874,700	1,946,000	2,019,800	2,096,800	2,176,500
Other Water Fund Revenues											
13	Water Connection Fees	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
14	Interest Income	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
15	Penalties	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
16	Tower Rental	21,700	21,700	21,700	21,700	21,700	21,700	21,700	21,700	21,700	21,700
17	Reimbursed Expense	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
18	G.O. Principal (transfer from DSF 40)	68,500	68,500	68,500	68,500	68,500	68,500	68,500	68,500	68,500	68,500
19	Total Other Water Fund Revenues	187,200	187,200	187,200	187,200	187,200	187,200	187,200	187,200	187,200	187,200
20	Grand Total Water Revenue	1,688,700	1,828,600	1,948,600	1,962,200	1,975,900	2,061,900	2,133,200	2,207,000	2,284,000	2,363,700
<u>Revenue Requirements</u>											
21	Operation and Maintenance Expense	1,171,200	1,125,500	1,042,500	1,083,900	1,127,100	1,172,200	1,219,500	1,268,900	1,320,400	1,374,000
Debt Service											
22	Existing Debt	154,000	157,200	156,500	257,400	261,400	333,100	334,700	336,300	336,100	340,900
23	Proposed Debt	-	361,100	361,100	361,100	361,100	361,100	361,100	361,100	361,100	361,100
24	Total Debt Service	154,000	518,300	517,600	618,500	622,500	694,200	695,800	697,400	697,200	702,000
25	Total Revenue Requirements	1,325,200	1,643,800	1,560,100	1,702,400	1,749,600	1,866,400	1,915,300	1,966,300	2,017,600	2,076,000
26	Annual Operating Balance	363,500	184,800	388,500	259,800	226,300	195,500	217,900	240,700	266,400	287,700
27	Beginning Balance - Operating Fund	397,000	277,600	300,600	320,300	322,600	324,800	338,900	350,700	362,800	375,500
28	Funds from Operating Balance	363,500	184,800	388,500	259,800	226,300	195,500	217,900	240,700	266,400	287,700
29	Transfer to Capital	(482,900)	(161,800)	(368,800)	(257,500)	(224,100)	(181,400)	(206,100)	(228,600)	(253,700)	(274,600)
30	Ending Balance - Operating Funds	277,600	300,600	320,300	322,600	324,800	338,900	350,700	362,800	375,500	388,600
31	Minimum Annual Operating Balance [1]	277,600	300,600	320,300	322,600	324,800	338,900	350,700	362,800	375,500	388,600
Water Utility Capital Flow of Funds											
32	Beginning Balance - Capital Funds	1,300,000	1,096,400	1,080,300	760,500	666,700	565,200	222,400	208,700	95,200	222,200
33	Water Connection Fees	-	-	-	-	-	-	-	-	-	-
34	Transfer from Operations	482,900	161,800	368,800	257,500	224,100	181,400	206,100	228,600	253,700	274,600
35	Debt Issuance	-	4,800,000	-	-	-	-	-	-	-	-
36	Total Available Capital Funds	1,782,900	6,058,200	1,449,100	1,018,000	890,800	746,600	428,500	437,300	348,900	496,800
37	Major Capital Improvements	686,500	4,977,900	688,600	351,300	325,600	524,200	219,800	342,100	126,700	45,700
38	Ending Balance - Capital Funds	1,096,400	1,080,300	760,500	666,700	565,200	222,400	208,700	95,200	222,200	451,100
Debt Service Coverage											
39	Net Operating Revenues Available for Debt Service	517,500	703,100	906,100	878,300	848,800	889,700	913,700	938,100	963,600	989,700
40	Annual Debt Service	154,000	518,300	517,600	618,500	622,500	694,200	695,800	697,400	697,200	702,000
41	Debt Service Coverage	3.36	1.36	1.75	1.42	1.36	1.28	1.31	1.35	1.38	1.41

[1] Minimum Annual Operating Balance equal to 60 days of operating revenues.

2.6 Alternative Water Utility Financial Plan

An alternative financial plan has been assembled based on an intermediate demand for the City. This financial plan scenario shows the outcome of increased demand for the City. Due to the increased water system demand, the revenues under existing and proposed rates are higher and the operating costs are higher because of an increased water supply fee. With the higher revenues associated under this scenario, no additional revenue increases are needed and a lower debt issuance is projected.

2.6.1 Operating Flow of Funds

A detailed cash flow is presented in Table 2-7. Line 1 of Table 2-7 shows user revenues under existing rates. As mentioned above, this revenue stream is higher than what is shown in Table 2-6 due to the increased water system demand. Lines 2 through 10 present the proposed revenue increases. As can be seen, no additional revenue increases are needed throughout the forecast period. Total user revenues are summarized on Line 12. Lines 13 through 19 present other water fund revenues, which are projected to remain at 2016 budget levels. Line 20 shows the total operating revenue forecasted over the study period. Total revenue is projected to range from \$1,501,500 in 2016 to \$3,050,400 in 2025.

Operating revenue requirements are shown on Lines 21 through 25 of Table 2-7. The operations and maintenance expenses are higher than those shown previously in Table 2-3, due to increased water purchases. The proposed debt services amount on Line 23 is lower than the debt shown in Table 2-5 due to the lower proposed debt issuance amount.

Total revenue requirements are summarized on Line 25 of Table 2-7. This amount is deducted from Line 20 total revenue to determine the annual operating balance. In this scenario, the operating balance is positive throughout the forecast.

2.6.2 Capital Flow of Funds

The capital flow of funds is shown in Table 2-7 on Lines 32 through 38.

Sources of funds include a transfer of funds from the operating balance and the issuance of debt. In FY 2016, the transfer from operating funds is approximately \$482,900. Capital improvement projects shown on Line 37 are consistent with that shown in Table 2-4 and Table 2-6.

Line 38 of Table 2-7 shows the annual capital balance. As can be seen, the balance all years of the forecast show enough funding sources for the capital in each year, leaving a positive capital balance on Line 38.

Total utility debt service coverage is calculated on Lines 39 through 41. After the proposed 2017 debt issuance, debt service coverage is anticipated to range from 1.82 to 2.58 from 2017 to 2025.

Table 2-7: Alternative Water Utility Financial Plan

Line No.	Projected										
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Water Utility Operating Flow of Funds											
1	Revenue Under Existing Rates	1,501,500	1,765,600	2,026,000	2,172,000	2,318,000	2,464,200	2,610,600	2,757,000	2,903,600	3,050,400
Proposed Revenue Adjustments											
	Year	Month	Increase								
2	2017	1	0.0%	-	-	-	-	-	-	-	-
3	2018	1	0.0%	-	-	-	-	-	-	-	-
4	2019	1	0.0%	-	-	-	-	-	-	-	-
5	2020	1	0.0%	-	-	-	-	-	-	-	-
6	2021	1	0.0%	-	-	-	-	-	-	-	-
7	2022	1	0.0%	-	-	-	-	-	-	-	-
8	2023	1	0.0%	-	-	-	-	-	-	-	-
9	2024	1	0.0%	-	-	-	-	-	-	-	-
10	2025	1	0.0%	-	-	-	-	-	-	-	-
11	Total Proposed Additional Revenue	-	-	-	-	-	-	-	-	-	-
12	Total Water User Charge Revenue	1,501,500	1,765,600	2,026,000	2,172,000	2,318,000	2,464,200	2,610,600	2,757,000	2,903,600	3,050,400
Other Water Fund Revenues											
13	Water Connection Fees	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
14	Interest Income	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
15	Penalties	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000
16	Tower Rental	21,700	21,700	21,700	21,700	21,700	21,700	21,700	21,700	21,700	21,700
17	Reimbursed Expense	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
18	G.O. Principal (transfer from DSF 40)	68,500	68,500	68,500	68,500	68,500	68,500	68,500	68,500	68,500	68,500
19	Total Other Water Fund Revenues	187,200	187,200	187,200	187,200	187,200	187,200	187,200	187,200	187,200	187,200
20	Grand Total Water Revenue	1,688,700	1,952,800	2,213,200	2,359,200	2,505,200	2,651,400	2,797,800	2,944,200	3,090,800	3,237,600
Revenue Requirements											
21	Operation and Maintenance Expense	1,171,200	1,158,400	1,092,700	1,163,000	1,237,800	1,317,500	1,402,600	1,493,200	1,589,500	1,692,000
Debt Service											
22	Existing Debt	154,000	157,200	156,500	257,400	261,400	333,100	334,700	336,300	336,100	340,900
23	Proposed Debt	-	278,300	278,300	278,300	278,300	278,300	278,300	278,300	278,300	278,300
24	Total Debt Service	154,000	435,500	434,800	535,700	539,700	611,400	613,000	614,600	614,400	619,200
25	Total Revenue Requirements	1,325,200	1,593,900	1,527,500	1,698,700	1,777,500	1,928,900	2,015,600	2,107,800	2,203,900	2,311,200
26	Annual Operating Balance	363,500	358,900	685,700	660,500	727,700	722,500	782,200	836,400	886,900	926,400
27	Beginning Balance - Operating Fund	397,000	277,600	321,000	363,800	387,800	411,800	435,800	459,900	484,000	508,100
28	Funds from Operating Balance	363,500	358,900	685,700	660,500	727,700	722,500	782,200	836,400	886,900	926,400
29	Transfer to Capital	(482,900)	(315,500)	(642,900)	(636,500)	(703,700)	(698,500)	(758,100)	(812,300)	(862,800)	(902,300)
30	Ending Balance - Operating Funds	277,600	321,000	363,800	387,800	411,800	435,800	459,900	484,000	508,100	532,200
31	Minimum Annual Operating Balance [1]	277,600	321,000	363,800	387,800	411,800	435,800	459,900	484,000	508,100	532,200
Water Utility Capital Flow of Funds											
32	Beginning Balance - Capital Funds	1,300,000	1,096,400	134,000	88,300	373,500	751,600	925,900	1,464,200	1,934,400	2,670,500
33	Water Connection Fees	-	-	-	-	-	-	-	-	-	-
34	Transfer from Operations	482,900	315,500	642,900	636,500	703,700	698,500	758,100	812,300	862,800	902,300
35	Debt Issuance	-	3,700,000	-	-	-	-	-	-	-	-
36	Total Available Capital Funds	1,782,900	5,111,900	776,900	724,800	1,077,200	1,450,100	1,684,000	2,276,500	2,797,200	3,572,800
37	Major Capital Improvements	686,500	4,977,900	688,600	351,300	325,600	524,200	219,800	342,100	126,700	45,700
38	Ending Balance - Capital Funds	1,096,400	134,000	88,300	373,500	751,600	925,900	1,464,200	1,934,400	2,670,500	3,527,100
Debt Service Coverage											
39	Net Operating Revenues Available for Debt Service	517,500	794,400	1,120,500	1,196,200	1,267,400	1,333,900	1,395,200	1,451,000	1,501,300	1,545,600
40	Annual Debt Service	154,000	435,500	434,800	535,700	539,700	611,400	613,000	614,600	614,400	619,200
41	Debt Service Coverage	3.36	1.82	2.58	2.23	2.35	2.18	2.28	2.36	2.44	2.50

[1] Minimum Annual Operating Balance equal to 60 days of operating revenues.

3.0 PROPOSED TAP FEES

3.1 Introduction

The City refers to the one-time fee charged to its new customer connections as a tap fee. This fee is intended to reasonably recover the cost associated with capacity in the system to accommodate new connections. Within the water industry, these types of fees are frequently referred to as system development charges, connection fees, or impact fees. Currently, the City's residential water tap fee is \$1,600 and the commercial water tap fee is \$1,900 for connections up to 1 inch. Commercial connections greater than 1 inch include additional fees for parts and materials. As a part of this Study, the City's current tap fees were reviewed.

Properly applied, the use of tap fees should result in new connections paying their proportionate share of water system development costs, thereby lowering the burden of development costs that existing ratepayers would otherwise fund through user charges. Tap fees may also reduce the overall level of debt financing that may be necessary to build new facilities. Additionally, by utilizing tap fees future customers will pay for historical investment in facilities made by existing customers. Ultimately, the use of tap fees enables new customers who directly benefit from the service to pay for the service, rather than receive a subsidy from all other customers through user charges.

Tap fees should be implemented with appropriate consideration of legal authority and statutory requirements, which vary by state. Some important elements in the development of tap fees are summarized or referenced in this section of the report. However, this report should not be considered legal advice pertaining to the implementation or use of tap fees.

Generally speaking, a reasonable relationship must exist between the fees charged and the cost of providing capacity to the customer. This relationship is typically referred to as a rational nexus, which is a foundational concept in the development of tap fees. Having a rational nexus means that the tap fee has a reasonable relationship to the benefits received, and that new customers pay their proportionate share of the cost of capacity.

The City does not receive the current tap fee until the application for the building permit is filed. Additionally, the City is planning to add further capacity improvement projects to accommodate future growth. The remainder of this section of the report describes the analysis used to assign new customers their proportionate share of system capacity costs. As such, the City is establishing a rational nexus between capacity provided in the system, the proportionate share to be recovered from new customers, and the proposed tap fees.

3.2 Methodology

Different approaches may be used in the determination of tap fees. The American Water Works Association (AWWA) M1 Manual of Practice indicates the three most common methods for determining tap fees are:

- Buy-In Method, which is based on the value of the existing capacity;
- Incremental Cost Method, which is based on the value or cost to expand the system's capacity, and,
- Combined Approach, which is based on the blended value of the existing and expanded system's capacity.

The Buy-In Method was selected for use in the update of the City's tap fees. Under the Buy-In Method, tap fees for new customers reflect the current value of providing capacity to serve additional users. Under this method, the new customer is effectively on par with the value of capacity contributed by existing customers and shares equally in the responsibility for system capacity. There are two advantages associated with the use of the Buy-In Method for this analysis.

- The Buy-In Method is commonly accepted and relatively easy to explain;
- Because the approach uses the current cost of existing capacity, it is not dependent future capital projects and capital spending to justify the level of fee. In other words, the resulting fee is justifiable regardless of the path the City moves forward with pertaining to expanded water supply capacity and storage.

The steps involved in the Buy-In Method include system valuation, determination of applicable credits, equivalent unit development, and the design of tap fees. Each of these steps is described herein.

3.3 System Valuation

The first step in the Buy-In Method is valuing the system infrastructure. Burns & McDonnell examined the fixed asset records maintained for the water utility as of September 30, 2015, which is the end of the most recently completed fiscal year. Fixed assets are characterized as Buildings and Improvements, Construction in Progress, Infrastructure, Land and Improvements, Machinery and Equipment, and Office Equipment and Furniture. Assets included in the tap fee development should directly relate to capacity-producing assets that serve as the backbone of the water utility system. As such, Construction in Progress and Infrastructure asset categories were included in the evaluation. A review of assets included in the other categories indicated they were more of a general nature, such as a portion of City Hall costs, field machinery such as backhoes and electronic equipment, and office computers. Table 3-1 summarizes the original cost, accumulated depreciation, and remaining value of the existing infrastructure assets. As

shown on Table 3-1, original cost less depreciation (OCLD) values of the selected assets on the City's books totaled nearly \$3.8 million.

Table 3-1: Original Cost Less Depreciation of Backbone Assets as of 9/30/2015

System No.	Description	Date In Service	Years Life	Original Cost	Accumulated Depreciation	Original Cost less Depreciation
Construction in Process						
373	Professional services - ground storage tank	9/30/2014	0	\$ 1,931	\$ -	\$ 1,931
396	CIP Water Lines	8/1/2015	0	\$ 137,679	\$ -	\$ 137,679
Total Construction In Process				\$ 139,610	\$ -	\$ 139,610
Infrastructure						
60	Water System-1993/1994B Including refunding previous series	9/30/1990	40	\$ 360,000	\$ 225,750	\$ 134,250
61	Water/Sewer System-1994A Series - Water Portion	9/30/1994	40	\$ 2,738,300	\$ 1,443,319	\$ 1,294,981
66	Bar Screen SW Plant - Water portion	9/1/2004	10	\$ 12,631	\$ 12,631	\$ -
70	12' WT line Centennial Farms - Water portion	6/15/2005	40	\$ 15,061	\$ 3,892	\$ 11,169
72	Sioux Chief Water/Sewer Project Missouri Grant - Water portion	7/1/2005	40	\$ 403,022	\$ 103,275	\$ 299,746
71	Water line-Harper Harper farm	7/15/2005	40	\$ 26,767	\$ 6,858	\$ 19,909
75	Water / Tower / Line Project EPA/COPS2004/UF	9/15/2006	40	\$ 1,516,449	\$ 344,360	\$ 1,172,089
76	Water / Tower / Line Project Final	10/1/2006	40	\$ 228,639	\$ 51,444	\$ 177,195
135	New Meter Sets	10/24/2007	10	\$ 3,667	\$ 2,903	\$ 764
102	Sewer- Trenchless Liner at Peculiar Golf & Learning Center	8/1/2008	40	\$ 17,280	\$ 3,096	\$ 14,184
134	Meter Change Out Program	8/20/2008	10	\$ 17,116	\$ 12,124	\$ 4,992
137	New Meter Sets	2/4/2009	10	\$ 2,000	\$ 1,333	\$ 667
138	Meter Changeouts	2/19/2009	10	\$ 1,721	\$ 1,133	\$ 588
169	MEADOW VIEW ESTATES METERS	10/10/2010	10	\$ 9,798	\$ 4,899	\$ 4,899
184	Broadway Main Replacement	2/1/2012	40	\$ 112,050	\$ 10,271	\$ 101,779
241	negative asset	9/30/2012	0	\$ 245	\$ (108,329)	\$ 108,574
370	Ground Water Storage Tank Renovation	8/25/2014	30	\$ 239,068	\$ 8,633	\$ 230,435
400	Ground Water Storage Tank Renovation	5/11/2015	25	\$ 54,879	\$ 882	\$ 53,997
Total Infrastructure				\$ 5,758,693	\$ 2,128,476	\$ 3,630,217
Total Construction in Process and Infrastructure				\$ 5,898,303	\$ 2,128,476	\$ 3,769,827

As shown on Table 3-1, the selected assets have been placed in service beginning in 1990 up through 2015. These costs were recorded into the fixed asset system based on the cost incurred at the time of construction, and do not reflect current value in 2016 dollars. To reflect the current value of these assets, a replacement cost has been developed and is shown in Table 3-2.

Replacement costs represent the current day cost of replicating the existing assets. Development of replacement cost is achieved by applying construction cost inflation indices. Inflation factors were sourced from the Handy-Whitman Index of Public Utility Construction Costs, Cost Trends of Water Utility Construction for the North Central Region. After bringing the cost of the infrastructure up to today's value, the replacement cost assets are then depreciated to reflect the wear and tear that has been incurred since they were placed in service. This replacement cost less depreciation (RCLD) value represents a value in today's dollars while also recognizing the assets being valued are not new.

Table 3-2: Replacement Cost Less Depreciation of Backbone Assets as of 9/30/2015

System No.	Description	Original Cost less Depreciation	Eligible Backbone Infrastructure	Eligible Original Cost less Depreciation	Handy-Whitman Inflation Factor	Replacement Cost less Depreciation
Construction in Process						
373	Professional services - ground storage tank	\$ 1,931	100%	\$ 1,931	1.0	\$ 1,931
396	CIP Water Lines	\$ 137,679	100%	\$ 137,679	1.0	\$ 137,679
Total Construction In Process		\$ 139,610		\$ 139,610		\$ 139,610
Infrastructure						
60	Water System-1993/1994B Including refunding previous series	\$ 134,250	100%	\$ 134,250	2.3	\$ 311,216
61	Water/Sewer System-1994A Series - Water Portion	\$ 1,294,981	100%	\$ 1,294,981	2.1	\$ 2,686,537
66	Bar Screen SW Plant - Water portion	\$ -	0%	\$ -		\$ -
70	12' WT line Centennial Farms - Water portion	\$ 11,169	100%	\$ 11,169	1.6	\$ 18,234
72	Sioux Chief Water/Sewer Project Missouri Grant - Water portion	\$ 299,746	0%	\$ -		\$ -
71	Water line-Harper Harper farm	\$ 19,909	100%	\$ 19,909	1.6	\$ 32,502
75	Water / Tower / Line Project EPA/COPS2004/UF	\$ 1,172,089	100%	\$ 1,172,089	1.9	\$ 2,224,216
76	Water / Tower / Line Project Final	\$ 177,195	100%	\$ 177,195	1.9	\$ 336,255
135	New Meter Sets	\$ 764	0%	\$ -		\$ -
102	Sewer- Trenchless Liner at Peculiar Golf & Learning Center	\$ 14,184	0%	\$ -		\$ -
134	Meter Change Out Program	\$ 4,992	0%	\$ -		\$ -
137	New Meter Sets	\$ 667	0%	\$ -		\$ -
138	Meter Changeouts	\$ 588	0%	\$ -		\$ -
169	MEADOW VIEW ESTATES METERS	\$ 4,899	0%	\$ -		\$ -
184	Broadway Main Replacement	\$ 101,779	100%	\$ 101,779	1.1	\$ 109,249
241	negative asset	\$ 108,574	0%	\$ -		\$ -
370	Ground Water Storage Tank Renovation	\$ 230,435	100%	\$ 230,435	1.0	\$ 230,435
400	Ground Water Storage Tank Renovation	\$ 53,997	100%	\$ 53,997	1.0	\$ 53,997
Total Infrastructure		\$ 3,630,217		\$ 3,195,803		\$ 6,002,639
Total Construction in Process and Infrastructure		\$ 3,769,827		\$ 3,335,412	\$ -	\$ 6,142,249

One additional step has been added in the determination of RCLD. For each asset in the Construction in Process or Infrastructure categories, an evaluation of whether or not the underlying assets were eligible backbone facilities was performed. For instance, meter sets are not generally included in tap fee assessments, and have been excluded from the analysis. Also, the Sioux Chief project, which is indicated to have been funded by Missouri Grants, was also excluded, since that asset was contributed and not paid for by existing customers of the system. In total, the OCLD value was reduced from nearly \$3.8 million to approximately \$3.3 million. Adjusting for inflation, the RCLD of the remaining assets is valued at approximately \$6.1 million.

3.4 Outstanding Debt

The City's water utility does have outstanding debt. Because this debt will likely be paid from user charges received from both existing and future users, the value of the outstanding principal should be excluded from the valuation. Doing so prevents the potential to double count the cost of the asset recovered through the tap fee and debt service as paid through user charges. Table 3-3 summarizes the

water and sewer utility outstanding principle as of September 30, 2015, and adjusts the principal to derive the water-only portion. Outstanding water utility principal is approximately \$3.1 million.

Table 3-3: Outstanding Water Utility Principal as of 9/30/2015

	Series <u>2014</u>	Series <u>2013</u>	Series 2013 COP <u>Refinance</u>	Series 2013 COP <u>Refinance</u>	<u>Total</u>
2016	\$ 21,419	\$ 50,000	\$ -	\$ 30,000	\$ 101,419
2017	\$ 22,184	\$ 50,000	\$ -	\$ 35,000	\$ 107,184
2018	\$ 22,949	\$ 50,000	\$ -	\$ 35,000	\$ 107,949
2019	\$ 23,714	\$ 50,000	\$ 135,000	\$ 35,000	\$ 243,714
2020	\$ 23,714	\$ 55,000	\$ 180,000	\$ -	\$ 258,714
2021	\$ 25,244	\$ 55,000	\$ 275,000	\$ -	\$ 355,244
2022	\$ 25,244	\$ 55,000	\$ 285,000	\$ -	\$ 365,244
2023	\$ 26,009	\$ 60,000	\$ 295,000	\$ -	\$ 381,009
2024	\$ 26,774	\$ 60,000	\$ 300,000	\$ -	\$ 386,774
2025	\$ 28,304	\$ 60,000	\$ 315,000	\$ -	\$ 403,304
2026	\$ 29,069	\$ 65,000	\$ 325,000	\$ -	\$ 419,069
2027	\$ 29,834	\$ 70,000	\$ 335,000	\$ -	\$ 434,834
2028	\$ 30,599	\$ 70,000	\$ -	\$ -	\$ 100,599
2029	\$ 32,129	\$ 75,000	\$ -	\$ -	\$ 107,129
2030	\$ 33,659	\$ 80,000	\$ -	\$ -	\$ 113,659
2031	\$ 34,424	\$ 80,000	\$ -	\$ -	\$ 114,424
2032	\$ 34,424	\$ 85,000	\$ -	\$ -	\$ 119,424
2033	\$ 34,424	\$ 90,000	\$ -	\$ -	\$ 124,424
2034	\$ 35,189	\$ -	\$ -	\$ -	\$ 35,189
	\$ 539,311	\$ 1,160,000	\$ 2,445,000	\$ 135,000	\$ 4,279,311

Water-Only Portion

Ratio	100%	50%	76%	76%	
Value	\$ 539,311	\$ 580,000	\$ 1,858,200	\$ 102,600	\$ 3,080,111

3.5 Equivalent Unit Development

Table 3-4 details the development of current utilization of the City's water system. Based on existing City records and engineering assessments, the current average day demand including water losses is approximately 260,000 gallons, with a maximum day demand of 390,000 gallons. The City's population, based on information from the U.S. Census Bureau, is 4,797. Dividing daily demand by the City's population yields an average use per person of approximately 54 gallons per day and 81 gallons per day

for maximum day. The number of residents per household is estimated to be 2.67, based on U.S. Census Bureau information. Multiplying the average use per day per person by the number of persons per household provides an equivalent residential unit demand of 145 gallons per day on average and 217 gallons per day on maximum day.

Table 3-4: Equivalent Unit Development

<u>Description</u>	<u>Average</u> <u>Day</u>	<u>Maximum</u> <u>Day</u>
Current system demand in gallons	260,000	390,000
Population	4,797	4,797
Gallons per day per person	54	81
Persons per residential account	2.67	2.67
Gallons per day per equivalent residential unit	145	217

3.6 Tap Fee Development

Using the information illustrated in Tables 3-2 through 3-4, a tap fee may be calculated for a residential equivalent unit. Table 3-5 shows this calculation, and indicates the proposed tap fee to be \$1,704 per equivalent connection. The value is based on the net system value of approximately \$3.1 million, which is determined by subtracting the outstanding water principal previously identified in Table 3-3 from the RCLD previously shown in Table 3-2. This system value is divided by the maximum day demand from Table 3-4 to establish the price per gallon of \$7.85. This unit price is applied to the equivalent residential demand of 217 gallons per maximum day to derive the proposed tap fee for a residential connection.

Table 3-5: Tap Fee for an Equivalent Residential Unit

Replacement Cost less Depreciation	\$ 6,142,249
Less: Outstanding Debt	\$ <u>3,080,111</u>
Net System Value	\$ 3,062,138
System Demand in Gallons	390,000
Price per Gallon	\$ 7.85
Equivalent Residential Unit in Gallons	217
Calculated Impact Fee	\$ 1,704

Using the tap fee for an equivalent residential unit and an equivalency factor based on meter capacity, tap fees may be calculated for larger meter sizes. The equivalency factors reflect capacity factors documented in AWWA's M-1 rates manual Table VI.2-5. As shown in Table 3-6, tap fees for up to 4 inch connections

have been calculated. It is recommended that connections above 4 inches be evaluated on a case by case basis, taking into consideration the anticipated demand associated with the proposed development.

Table 3-6: Proposed Tap Fees by Meter Size

<u>Meter Size</u>	<u>Equivalency Ratio</u>	<u>Proposed Water Tap Fee</u>
5/8"	1.0	\$ 1,700
3/4"	1.0	\$ 1,700
1"	1.7	\$ 2,900
1.5"	3.3	\$ 5,600
2"	5.3	\$ 9,000
3"	10.4	\$ 17,700
4"	16.7	\$ 28,400

3.7 Comparison of Regional Tap Fees

A final consideration for tap fees is a comparison of the proposed tap fees to neighboring utilities. Table 3-7 shows the comparison of existing and proposed tap fees for the City to other regional water purveyors. The proposed tap fees developed in this report appear to be competitive with other regional water utility tap fees.

Table 3-7: Comparison of Regional Tap Fees

	Existing Peculiar Residential	Existing Peculiar Commerical	Proposed Peculiar	Cass PWSD#2	Harrisonville (a)	Belton (b)		Raymore (c)			Pleasant Hill (d)
						Min	Max	Displacement / Compound	Class 1 Turbine	Class 2 Turbine	
5/8"	\$ 1,600		\$ 1,700	\$ 4,500	\$ 774						\$ 1,770
3/4"	\$ 1,600	\$ 1,900	\$ 1,700			\$ 3,090	\$ 3,090	\$ 2,318			
1"		\$ 1,900	\$ 2,900			\$ 4,944	\$ 4,944	\$ 3,621			
1 1/2"		\$ 1,900	\$ 5,600			\$ 6,180	\$ 9,888	\$ 4,525	\$ 7,240		
2"		\$ 1,900	\$ 9,000			\$ 12,360	\$ 14,832	\$ 9,049	\$ 10,862	\$ 10,862	
3"		\$ 1,900	\$ 17,700			\$ 18,540	\$ 33,867	\$ 13,575	\$ 22,626	\$ 24,890	
4"		\$ 1,900	\$ 28,400			\$ 24,670	\$ 61,800	\$ 18,133	\$ 36,245	\$ 45,254	

(a) Harrison fees above 5/8" are based on EDU. EDU's are determined based on average use per day, or case-by-case for larger connectoins. Currently, 55% of fee is waived. Water fee of \$1,720 per EDU without waiver.
 (b) Belton fees include a range for meters size at or above .5".
 (c) Raymore fees exclude meter supply fee. Impact fees vary by type of meter.
 (d) Tap fees over 3/4" are based on actual cost.

Burns & McDonnell recommends the City review its tap fee calculation approximately every 5 years.



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