

WATER & SEWER BOARD AGENDA

Wednesday, June 15, 2016
2:00 p.m.

DISTRICT 6
ADMINISTRATION BUILDING
1025 9th Avenue
Greeley, CO 80631

1. Roll Call: _____ Chairman Harold Evans _____ Vice Chairman Mick Todd
 _____ Mr. Bob Ruyle _____ Mr. Fred Otis
 _____ Mr. Joe Murphy _____ Mr. Tony Miller
 _____ Mr. Manuel Sisneros _____ Mayor Tom Norton
 _____ Mr. Roy Otto _____ Mrs. Victoria Runkle
2. Approval of Minutes
3. Approval of and/or Additions to Agenda
4. Report: 2016 Annual Growth And Development Projections
5. Report: 2015 Water Master Plan Review
6. Action: Approve the Water and Sewer 2017/2018 Operating Budget and 5 Year CIP and recommend the same to the City Manager
7. Action: Approve Farm Lease – Double J Farms & Feeding, Inc.
8. Executive Session
9. Legal Report
10. Director's Report
11. Such Other Business That May Be Brought Before The Board and Added to This Agenda by Motion of the Board



If, to effectively and fully participate in this meeting, you require an auxiliary aid or other assistance related to a disability, please contact Shannon Metcalf at 970-350-9818.

City of Greeley
Water and Sewer Board
Minutes of May 18, 2016
Regular Board Meeting

Chairman Harold Evans called the Water and Sewer Board meeting to order at 2:02 p.m. on Wednesday, May 18, 2016.

1. Roll Call

The Clerk called the roll and those present included:

Board Members:

Chairman Harold Evans (via conference line), Vice Chairman Mick Todd, Bob Ruyle, Fred Otis, Tony Miller, Joe Murphy, Manual Sisneros, City Manager Roy Otto and Finance Director Victoria Runkle

Water and Sewer Department staff:

Water and Sewer Director Burt Knight, Deputy Director of Water Resources Eric Reckentine, Operations Manager Bob Neal, Budget Analyst Erik Dial, Chief Engineer Adam Prior, Jennifer Petrzelka, Senior Administrative Specialist Shannon Metcalf, and Administrative Specialist Angel Salazar

Legal Counsel:

Environmental and Water Resources Attorney Jerrae Swanson, Environmental and Water Resources Attorney Dan Biwer, Environmental and Water Resources Attorney Andy Nicewicz, and Water and Sewer Board Counsel Jim Witwer

Other Guests:

Ducks Unlimited Representatives Billy Gascoigne and Jason Roudebush

2. Approval of Minutes

Mr. Murphy moved and Mr. Miller seconded to approve the April 20, 2016, Water and Sewer Board meeting minutes as presented. The motion carried 7-0.

3. Approval of and/or Additions to Agenda

There were no changes to the agenda.

4. Action: Approve Asset Transfer based on Evaluation and findings of Ducks Unlimited on the 59th Avenue Property and the City-owned Tennyson Property as Potential Wetland Mitigation site

Mr. Reckentine described the United States Army Corps. of Engineers (COE) Restoration Program along the Greeley reach of the Cache La Poudre River and

explained that this plan would be implemented as two projects. The first project would include a design phase on restoration sites upon approval of a Project Participation Agreement. The second project would include three eastern restoration sites, and would be implemented at a later time. The total shared costs for this Project are estimated at \$15.2 million, with the federal share being \$9,854,000 and the City's share at \$5,377,000. The City's share will be primarily documented and matched as land value. This cost will be vetted through the design process.

One of the five areas identified by the COE as being targeted for environmental restoration includes the 59th Avenue property, also known as the Sheep Draw property, which was obtained by the City through the Water Enterprise for wetlands mitigation. This area encompasses the majority of the Project design work and is a critical component in the initial ecological return analysis conducted by the COE.

The Agreement provides that lands required to be contributed by the City for the Poudre Ecosystem Restoration project may not be used as a wetlands bank or mitigation credit for any other project. This provision conflicted with the Water Enterprise's intended use of the Property. In response, staff identified a property outside the Project area, currently owned by the City but an asset under the General Fund, which could be used for wetlands mitigation. To protect the assets of the Water Enterprise, City Council authorized execution of Agreement with the COE for Design and Construction of the Cache la Poudre, West Greeley, Colorado Project, subject to confirmation that a substitute property outside the project area can be utilized by the Water Enterprise for wetlands mitigation.

A report was presented to the Water and Sewer Board that provided more detail in December 2015. At that time, staff requested direction and delegation of authority from the Water and Sewer Board to investigate and confirm that the other property had a value to the Water Enterprise as a wetland mitigation site equivalent to the 59th Ave property and to perform an asset transfer that would allow 59th Ave. Property to remain as a target restoration site in the Agreement and to allow the grant process to move forward. The Water and Sewer Board authorized investigation but directed staff to present the findings to the Water and Sewer Board before authorizing the asset transfer.

Mr. Reckentine then introduced Bill Gascoigne and Jason Roudebush of Ducks Unlimited. Duck unlimited was hired as consultants to conduct a feasibility analysis and credit ratio comparison for the two subject properties prior to the proposed asset transfer. Mr. Gascoigne presented his findings in relation to potential wetland acreages that could be generated at each property. The report indicated that a greater quantity of potential wetlands could be generated at the Tennyson property as compared to 59th Ave, due to the large distribution of existing wetlands on the 59th Ave. site.

A motion was made by Mr. Miller and seconded by Mr. Murphy, that the Board authorize the Director, or his designee, to perform an asset exchange between the Water Enterprise Fund and the General Fund, transferring a portion of that asset identified as the 59th Avenue Property of the Water Enterprise Fund to the General Fund in exchange for that entire asset identified as Tennyson Property being transferred from the General Fund to the Water Enterprise Fund after the Tennyson Property is removed and excluded from the Project Partnership Agreement between the Department of the Army and the City for the Design and Construction of the Cache la Poudre, West Greeley, Colorado Project. The motion carried 7-0.

Duck's Unlimited representatives left the meeting at 2:27 p.m.

5. Report: Quarterly Water Court Update

Ms. Petrzelka gave a summary of the current water court cases. She explained that since the end of 2015, Greeley has stipulated to proposed decrees in 4 cases and that Greeley also remains an opposer in 24 water court cases. She also updated the Board on the status of Greeley Case numbers.

- 15CW3099 (application to make absolute, and for reasonable diligence, for 99CW234 conditional rights (Poudre Ponds))
- 15CW3162 (Rockwell Reservoir change of place of storage/exchange)
- 15CW3163 (GIC change case)
- 16CW3047 (application to make absolute, and for reasonable diligence, for 99CW231 conditional rights)

6. Action: Approve Acquisition of the Varra Farm and 2 shares Water Supply and Storage Company

Mr. Reckentine explained that the Agreement is for the purchase of property, containing approximately one hundred sixty acres of land, and the water rights used to historically irrigate the Land. The water rights include several wells located on the Land as well as the following ditch company stock share: (1) two shares of the Water Supply & Storage Company (2) two shares of The Collins Ditch Company, and (3) two shares of The Lone Tree Lateral Company. The total purchase price for the Property is two million dollars. The purchase price is subject to an appraisal. If the property's valuation is less than the purchase price, then Greeley has the sole option and election to terminate the Agreement prior to the expiration of the Governmental Approval Period. If the property's valuation is greater than the purchase price, Greeley has agreed to increase the purchase price accordingly.

A motion was made by Mr. Murphy, seconded by Mr. Sisneros, that the Board authorize the Purchase and Sale Agreement and delegate authority to the Director of Water and Sewer, or his designee, to make minor amendments to the Purchase and Sale Agreement, including but not limited to amendments to property descriptions and contract extensions and to close on the purchase. The motion carried 7-0.

Following the discussion, Mr. Reckentine provided an update on the water acquisition program providing a list of acquired shares and indicated that the 15 year program is on track based on volume and expenditures to date.

7. Action: Approve Acquisition of Pond 4 (Hilt Parcel) Overland Pond Storage Facility and the Exchange Agreement and Recommend City Council Approve of the Exchange Agreement

Mr. Reckentine stated that this is for the purchase of land that contains an excavated and lined gravel pit. This is the fourth in a series of five parcels that have been mined by Martin Marietta for sand and gravel products and subsequently reclaimed as lined water storage. There is approximately 34 acres of land providing 254 acres of water storage. This would be a purchase in partnership with Tri-Districts and operated in accordance with the 2011 IGA. The total purchase price is based on estimated a water storage volume of \$3,625 per acre foot, totaling \$920,948. Greeley will acquire 50% interest for \$460,000. The actual payment would be based on the storage volume survey. The Exchange Agreement trades the Westerly Driveway Parcel for the Grazing Parcel.

A motion was made by Mr. Murphy, seconded by Mr. Miller, that the Board authorize the Purchase and Sale Agreement and the Exchange Agreement and delegate authority to the Director of Water and Sewer, or his designee, to authorize subdivision of the parcels; to make minor amendments to the Purchase and Sale Agreement and the Exchange Agreement, including but not limited to amendments to property descriptions and contract extensions; and to close on the purchase and exchange of properties; and recommend City Council authorize the Exchange Agreement and authorize the Mayor to execute the same and similar or related conveyances of interests in real property that are necessary for, or further the development of, the Overland Ponds Project.

Mr. Dial and Ms. Petrzelka, Mr. Neal and Mr. Prior left the meeting at 2:53 p.m.

8. Executive Session:

There was no Executive Session.

9. Legal Report:

Mr. Witwer stated that staff and counsel recommend filing one statement of opposition this month.

- Pine Creek Water Development Company (Case No. 16CW3035): Application for Finding of Reasonable Diligence for conditional water right decreed to Killpecker Pipeline; 15 c.f.s. water right in Red Feather Lakes area (North Fork of the Cache la Poudre River drainage) is upstream of and senior to Greeley's Seaman Reservoir enlargement water storage right.

A motion was made by Mr. Otis, seconded by Mr. Murphy, to recommend filing a motion of opposition in the Pine Creek Water Development Company Case No. 16CW3035, and for staff and legal counsel to seek resolution of issues raised by the case as consistent with Water and Sewer Board Resolution No. 3, 2015. The motion carried 7-0.

Mr. Witwer also gave an update on Weld County's proposed regulation of certain domestic water "export" pipelines: On May 16, 2016, the Weld County Commissioners approved on first reading an ordinance to regulate as a use by special review pipelines with a 16 -inch or greater diameter that deliver water for domestic (i.e., drinking and related) purposes to locations outside of Weld County. He noted Greeley's involvement in the "stakeholder" process which led to a much more limited regulatory scope, and stated that the definition and several exclusions are designed to exclude Greeley pipelines regardless of size.

After discussion, the Board directed staff and counsel to draft an additional amendment expressly excluding Greeley from the proposed regulations.

10. Director's Report

- Recovery Plan for Preble's Meadow Jumping Mouse
Mr. Reckentine discussed that Davis Graham and Stubbs along with Brown and Caldwell have been hired and will research the recovery plan of the Preble's Meadow Jumping mouse. Greeley staff and the consultant team will meet with the Department of Fish and Wildlife to understand the recovery plan better.
- Chimney Hollow Design Engineer Selection
Mr. Reckentine stated that MWH was selected for the design for Chimney Hollow Reservoir and the design process will begin in 2016. Construction is projected to start in 2018.
- Milton Seaman Water Supply Project Kick Off Site Tour
Mr. Reckentine stated that the two day site tour for the USACE, USACE consultant team and Greeley consultants took place May 4th and May 5th. They were able to tour the water plants, view the non-potable systems as well as take helicopter rides over Milton Seaman.

- Perpetual Augmentation Lease for Sky Corral Ranch
Staff and counsel revised this agreement in response to Board concerns regarding the Water Enterprise status; it will not be affected.

11. Such Other Business That May Be Brought Before The Board And Added To This Agenda by Motion of the Board

There being no further business, Chairman Evans adjourned the meeting at 5:01 p.m.

Harold Evans, Chairman

Shannon Metcalf, Senior Administrative Assistant

WATER & SEWER BOARD AGENDA JUNE 15, 2016

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 4

TITLE: REPORT: 2016 ANNUAL GROWTH AND
 DEVELOPMENT PROJECTIONS

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

See attached report.

2016 ANNUAL GROWTH AND DEVELOPMENT PROJECTIONS REPORT

Prepared in Support of the
Capital Improvement Planning Process



Staff

John Barnett, Long Range Planner
Brad Mueller, Community Development Director
3-10-16

March 10, 2016

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Executive summary

The Annual Growth and Development Projections Report estimates new residential in the near future. This report provides a “snapshot” of the growth anticipated in the beginning of each year. Over many years, the number of new single-family homes has significantly exceeded the number of multi-family units. During the most recent recovery, however, the number of multi-family units has greatly exceeded the number of single-family units. In 2015, building permits were issued for 941 new dwellings, of which 449 were single-family and 492 were multi-family.

Within the Greeley/Weld County Metropolitan Statistical Area (MSA), the civilian labor force grew by 11.43%, and the number of employed people also jumped by 11.80%, both the highest in the state for the second year in a row. At the same time, the unemployment number and rate both declined, although less substantially than in previous years as the Greeley MSA approached full employment.

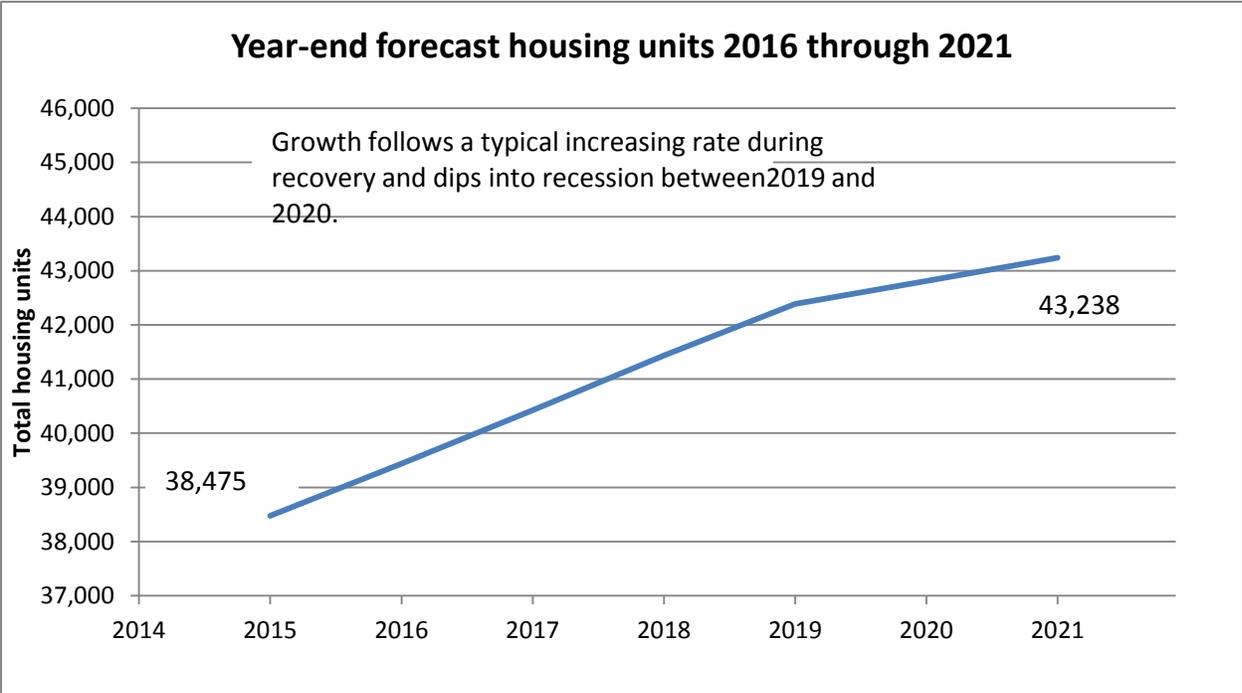
At the current rate of building, 449 single-family dwellings per year, the current activity in platting and development of lots appears to be sufficient to maintain an adequate flow of lots for the next two and one-third years. For this level of growth to occur, however, all approved lots would need to be developed (Community Development Department, 2016). To supply lots for future needs, additional land needs to be brought forward through the platting process.

There are a total of 275 multi-family units under construction as of Feb. 1, 2016, down from 407 a year ago. In addition, there are permit ready sites for an additional 209 additional units up from 60 a year ago. There are 100 units currently under site planning or zoning review down from 433. At the rate of 534 new multi-family units projected for this year, the permit ready sites and the additional multi-family sites, if they are all approved, should be sufficient for this year’s demand for new multi-family units (Community Development Department, 2016).

Between 1991 and 2015, growth rates ranged from a low of 0.12% to a high of 4.14%. The distribution of these growth rates is highly bimodal, with lower growth rates occurring during and immediately following recessions and higher growth rates occurring during recovery periods.

Despite the continued price declines in oil throughout 2015 to below \$30.00 per barrel, Greeley experienced an annual growth rate in residential permits of 2.51% and a population growth rate of 1.97%, even higher than in 2014. This speaks of the growing diversity of the Greeley and Front Range economy. If current trends continue throughout the next five years without a recession, then a continued growth rate averaging around 2% to 2.5% is likely. It is expected

that trends in place will continue as they have since 2012. Unless other trends driven by unforeseen events decline significantly, Greeley’s growth rate is not likely to be affected. Long term diversification of Northern Colorado’s economy is expected to continue, and this has, and will continue to have, a positive effect on Greeley. We can expect between 900 and 1,000 permits for new housing units to be issued during each of the next three years. As land with water already dedicated is absorbed and single-family housing becomes less affordable, market forces will likely mean that a higher proportion of these housing units will be multi-family because of the lower cost per unit of raw water for these areas.



Projected Split Of Multi-Family and Single-family Housing

	Total New Housing Permits	Single-family Permits	Multi-Family Permits
2015	941	449	492
2016	986	452	534
2017	1011	464	547
2018	953	390	563
2019	424	90	334
2020	428	95	333

I Introduction

The Annual Growth and Development Projections Report estimates how much new residential development will occur in the near future within the City of Greeley, Colorado. The report examines historic and recent development and annexation activity, and uses apparent trends, along with local and regional projections, to forecast building activity in the coming years.

This report is intended to provide a “snapshot” of the growth anticipated at the beginning of each year based on:

- 1) The actual history of growth and development during previous years;
- 2) Regional economic projections;
- 3) Permit ready lots; and
- 4) Other factors that have the potential to affect expected trends.

Greeley grew significantly in 2015 as the economic recovery continued. There was significant growth in the size of the workforce and the number of persons employed as well as a significant decline in the number of persons unemployed. The unemployment rate declined less as the area approaches full employment. Some of this growth was driven by increased oil and gas drilling activity as hydraulic fracking technology was deployed. A more than 50% decline in the price of oil throughout the second half of 2014 and all of 2015 has a lower impact than might be expected on the local economy because of diversification over the last decade. Building activity continued to grow in 2015, although the increase in new residential units was less than that for 2014.

This report is part of a four step analysis used to help inform the City’s five-year Capital Improvements Plan (CIP), a mechanism for meeting the service and infrastructure needs of future development while maintaining existing service levels and managing community resources. The other parts of this analysis are the annual population estimate and the mapping of adequate public facilities. Through the CIP, the City also estimates development fee revenue that may be available to meet growth demands. City departments recommend projects which may then be incorporated into the City budgeting process. Future infrastructure upgrades and public facility construction are scheduled based on available resources.

II Methods

The methods used in this report include both quantitative projections and qualitative forecasting and are employed in a four-step process. Staff uses a variety of information sources, including building permit data, information from the real estate and building communities, and economic data from regional and state organizations.

Step 1

The first step uses historic home-building activity trends and projects growth for the following year, assuming continuation of recent trends. Using records from 1991 through 2015 provides a 25-year record of homebuilding activity that extends through high and low growth periods. This record covers three recessions and their recoveries. It also captures trends driving homebuilding including the increase in recent oil and gas drilling employment, increased employment in agricultural processing, the collapse of the so called “housing bubble,” the trend to “drive ‘till you qualify”, and other trends during that time. This historic permit data is used to project high, medium, and low projections of new units expected to be constructed for the next five years assuming current trends continue.

Step 2

The next step is to identify regional economic trends that will affect where the actual number of new permits will fall within the confidence interval projected from historic trends. These include an assessment of current regional and Greeley employment history, a review of the *Colorado Business Economic Outlook* published by the Leeds School of Business at the University of Colorado, and the Northern Colorado Economic Forecast sponsored by the Montfort College of Business at Northern Colorado University. In addition, staff also considers state housing and population projections generated by the Colorado Department of Local Affairs (DOLA), more localized population projections published by the North Front Range Metropolitan Planning Organization (NFRMPO), the Colorado Division of Housing Multi-Family Vacancy and Rental Survey (Throupe, 2015 a), input from the building community and planning staff on upcoming projects, and information from the real estate community. Specific assumptions are noted throughout the report.

Step 3

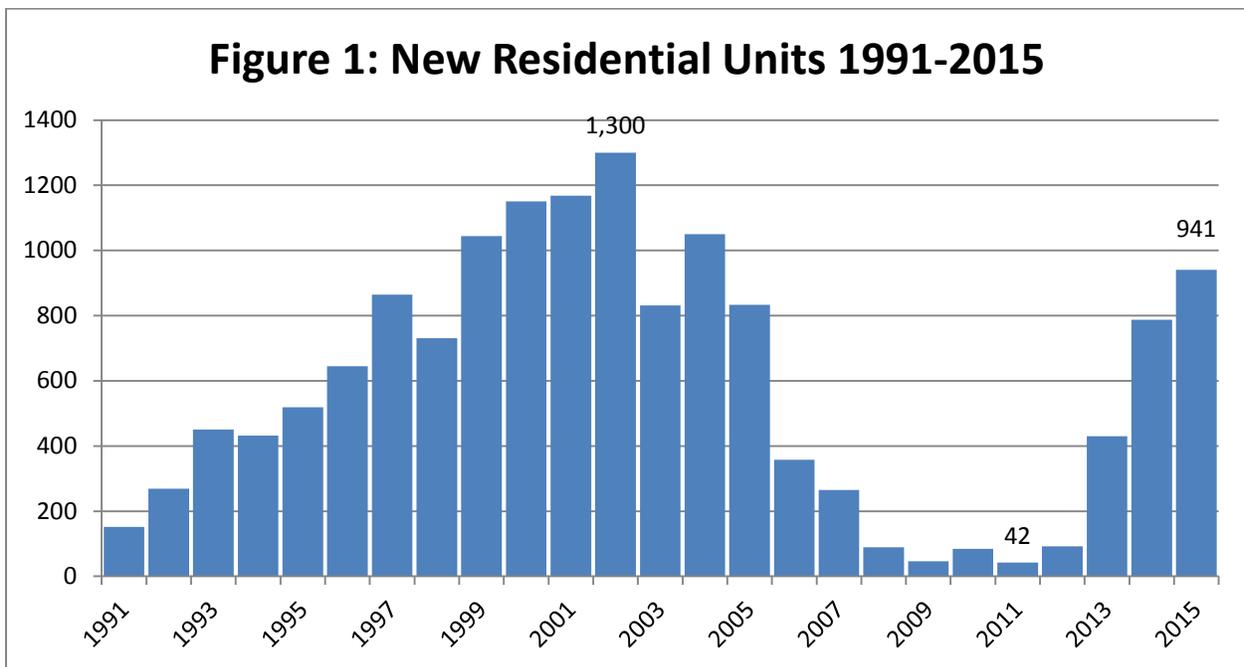
The third step is to prepare an inventory of permit-ready lots and lots in the review process that will likely become permit-ready within the forecast period.

Step 4

The final step is to examine other factors and trends that could affect expected homebuilding trends. These include the recent change in the ratio of multi-family to single-family housing, recent changes in the price of oil discussed above, and recent increases in the cost of raw water in Northern Colorado.

III Residential Growth

Greeley’s residential growth has been occurring in waves ranging from approximately 0.5 % to 4% per year with an average of about 1.9%. Figure 1 shows 25 years of new residential building permits. After relatively modest but steady increases in home construction throughout most of the 1990s, Greeley began to experience annual permit growth rates of nearly 4% beginning in 1999. The high growth rate peaked in 2002 with 1,300 new residential units, translating to an actual growth rate of 4.14% over 2001. Beginning in 2004, Greeley experienced five years of declining new construction followed by three years of stagnant low level housing construction. During the mortgage crisis and Great Recession, Greeley experienced limited building. During that time, foreclosure rates and unemployment were among the highest in the state. Permits for new housing reached a low of 42 units in 2011. Beginning with a small increase in building activity in 2012, Greeley experienced four years of significant growth in new housing construction. In 2015, there were 941 permits issued for new residential units (Community Development Department, 2015).

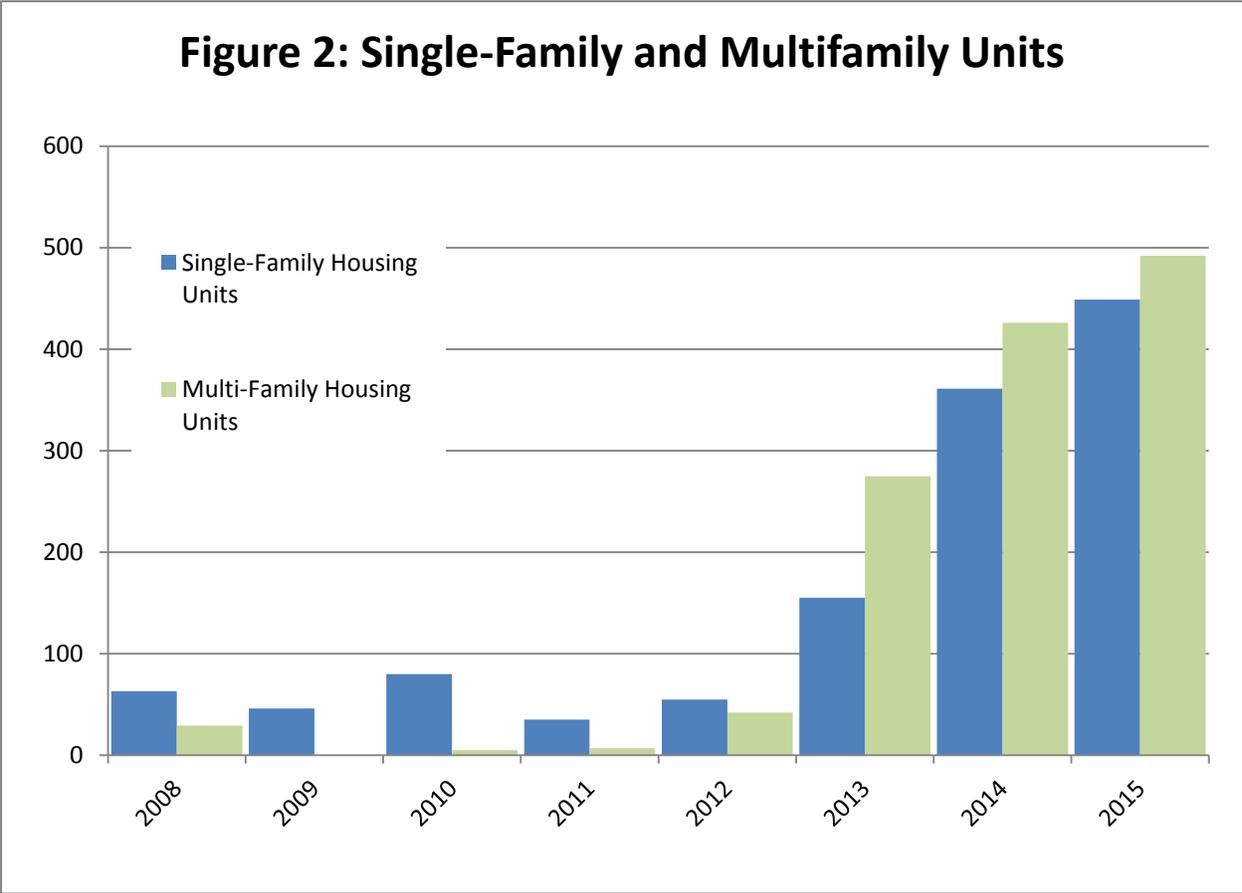


Mix of single and multifamily units

Since 2012, most of the new home construction consisted of multifamily units as shown in Table 1 and Figure 2. Over many years, the number of new single-family homes has significantly exceeded the number of multi-family units. During the most recent recovery,

however, the number of multi-family units has greatly exceeded the number of single-family units (Community Development Department, 2015).

TABLE 1: NEW HOUSING MIX			
Year	Single-family units	Multifamily Units	Total
2008	63	29	92
2009	46	0	46
2010	80	5	85
2011	35	7	42
2012	55	42	97
2013	155	275	430
2014	361	426	787
2015	449	492	941



There are a number of possible reasons for change in housing mix. One of these reasons is that financing became available for multi-family developments sooner after the Great Recession than for single-family developments. In addition, because of the large number of foreclosures,

banks were slow to resume lending for single-family mortgages. In addition, many families who had lost their homes to foreclosure could no longer qualify for mortgages either because of low credit scores or the loss of down payment from the sale of their former home. Many families who lost their homes through foreclosure often became tenants in rental housing.

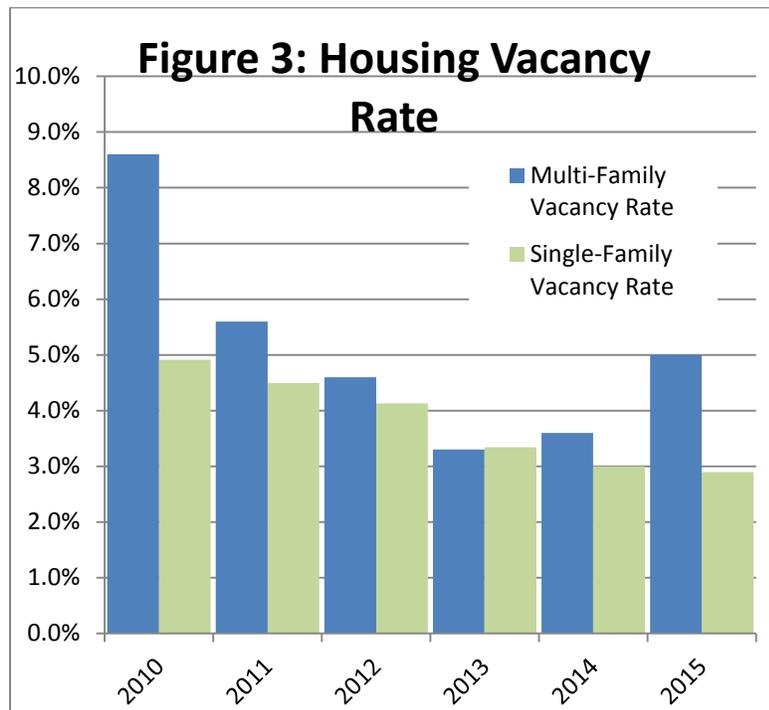
A long term trend in the American economy is the decline in real wages as higher wage jobs are lost to automation and the international labor market and replaced by lower wage jobs in service industries. Lower wage workers are less likely to be able to afford the mortgage payments on single-family homes. Many of the recently created high wage jobs are in the energy industry, which is subject to rapid changes in unemployment. Many energy workers have been reluctant to invest in single-family housing even if they can afford it, because they may need to relocate within a short timeframe.

The socio-economic status of potential first-time buyers has also shifted significantly—in part because of the Great Recession and partly because of changes in lifestyle aspirations. The Millennial Generation, while by no means uniform, is substantially different than its parents or even than the generation between. While they are the most educated and tech-savvy generation in history, many of them are heavily burdened with higher education debt. Additionally, many of them delayed obtaining drivers’ licenses, preferring instead urban lifestyles built around walking, cycling, and mass transit as the primary modes of local transportation. Many of this generation prefer multi-family housing in urban mixed use neighborhoods that are rich in diverse restaurants, outdoor eating areas, and other amenities.

Year	Multi-Family Vacancy Rate	Single-family Vacancy Rate
2010	8.6%	4.9%
2011	5.6%	4.5%
2012	4.6%	4.1%
2013	3.3%	3.3%
2014	3.6%	3.0%
2015	5.0%	2.9%

Table 2 and Figure 3 show the vacancy rates for single and multi-family housing. Since 2010, the multi-family vacancy rate has declined by 81% from 8.6% to 1.6% (Greeley Urban Renewal Authority, 2014) (Throupe, 2015 a). Between the second and third quarters of 2015, several large multi-family projects were completed that raised the vacancy rate to 5% (Throup, 2015 b). A healthy multi-family vacancy rate is considered to be 5% since this gives prospective tenant a reasonable chance at finding a suitable housing unit while giving landlords a reasonable chance at renting any vacant units fairly quickly. At an optimal 5% vacancy rate in multi-family there would be 689 vacant units. A vacancy rate of 1.6% would mean there are only 220 vacant units.

The single-family vacancy rate has declined by 41%, from 4.9% to 2.9% (Water and Sewer Department, 2015). A healthy single-family inventory is considered to be an inventory of housing for sale equal to the demand for purchase of homes within six months (Pettigrew, 2015). The number of vacant single-family units can be used as a rough approximation of the inventory of for-sale units—some of these are vacant rental units and not for-sale, and some single-family units are for-sale but are not vacant.



Year	Construction Only (Units)	Percent Change in Construction	Housing Units Annexed	Additional Housing (Construction + Annexation)	Gross Units	(-) Demolitions	(=) Net Units Beginning of next year	Housing Growth Rate
2008	86	-48.8%	3	89	36,076	0	36,076	0.25%
2009	45	-47.7%	1	46	36,122	9	36,113	0.10%
2010	84	86.7%	0	84	36,197	8	36,189	0.21%
2011	42	-50.0%	0	42	36,231	0	36,231	0.12%
2012	92	119.0%	0	92	36,323	10	36,313	0.23%
2013	430	367.4%	1	431	36,744	3	36,741	1.18%
2014	787	83.0%	1	788	37,532	0	37,532	2.14%
2015	941	19.6%	0	941	38,473	7	38,466	2.51%

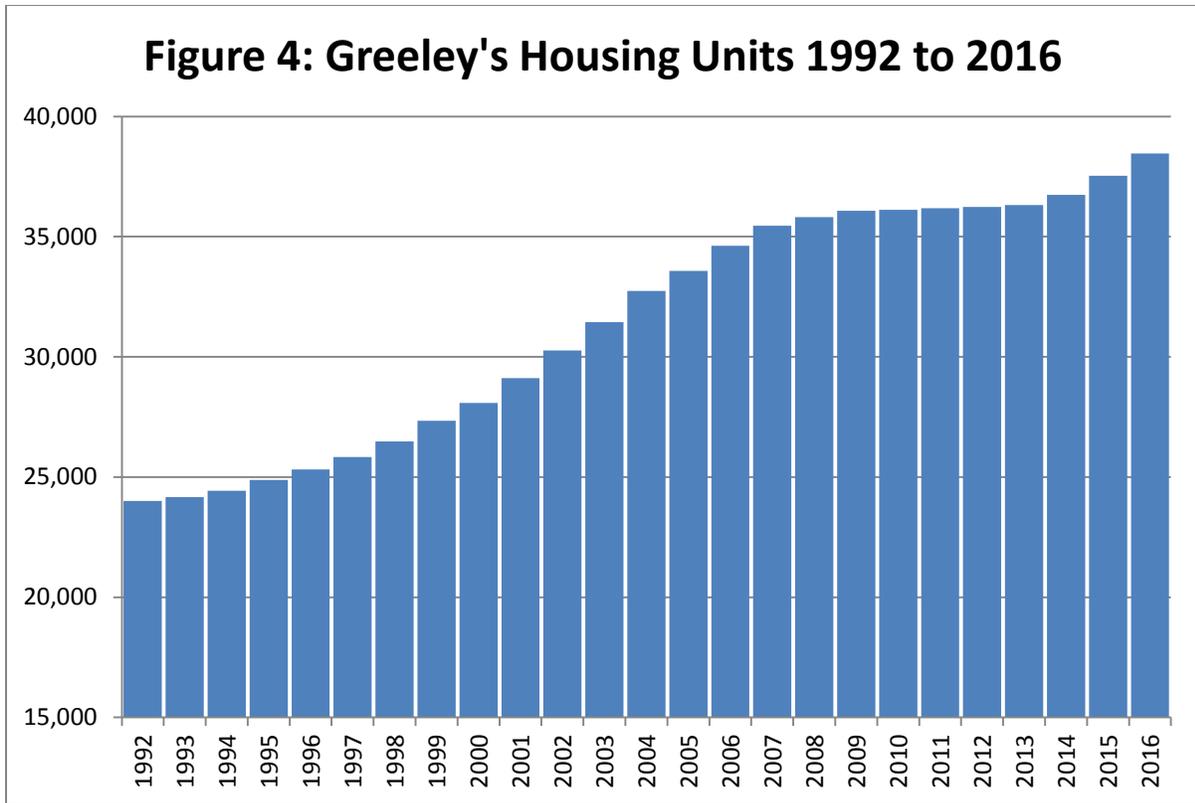


Figure 4 shows that the total housing stock plus building permits and annexations and subtracting demolitions has increased from 24,012 to 38,475 between 1992 and January 2016.

V Population estimate

Since 1991, Greeley’s estimated population has grown 58.9% from 64,832 to 103,037 people. Figure 5 shows Greeley’s population growth from 1992 to 2015. The growth rate has fluctuated between 0.10% and 4.13 %, averaging 1.9% and with a standard deviation of 1.06%.

Table 4: 2016 Population Estimate

Year	SFD	SFDocc	MFD	MFDocc	AHS	UP	Population
2016	24,787	0.95	13,774	0.971	2.7	3347	103,037
2015	24,338	0.971	13,282	0.964	2.7	2671	101,048
2014	23,976	0.967	12,856	0.967	2.7	3196	98,423
2013	23,743	0.967	12,581	0.954	2.7	2,900	97,320
2012	23,688	0.959	12,539	0.944	2.7	2,980	96,093
2011	23,646	0.955	12,539	0.914	2.7	3,027	95,453
2010	23,570	0.951	12,539	0.914	2.7	3,090	94,358

Population Estimate Based on Modified Housing Method (2010)

Estimated Population = [(SFD x SFDocc) + (MFD x MFDocc)] x AHS + Up

Figure 5: Population 1992-2015

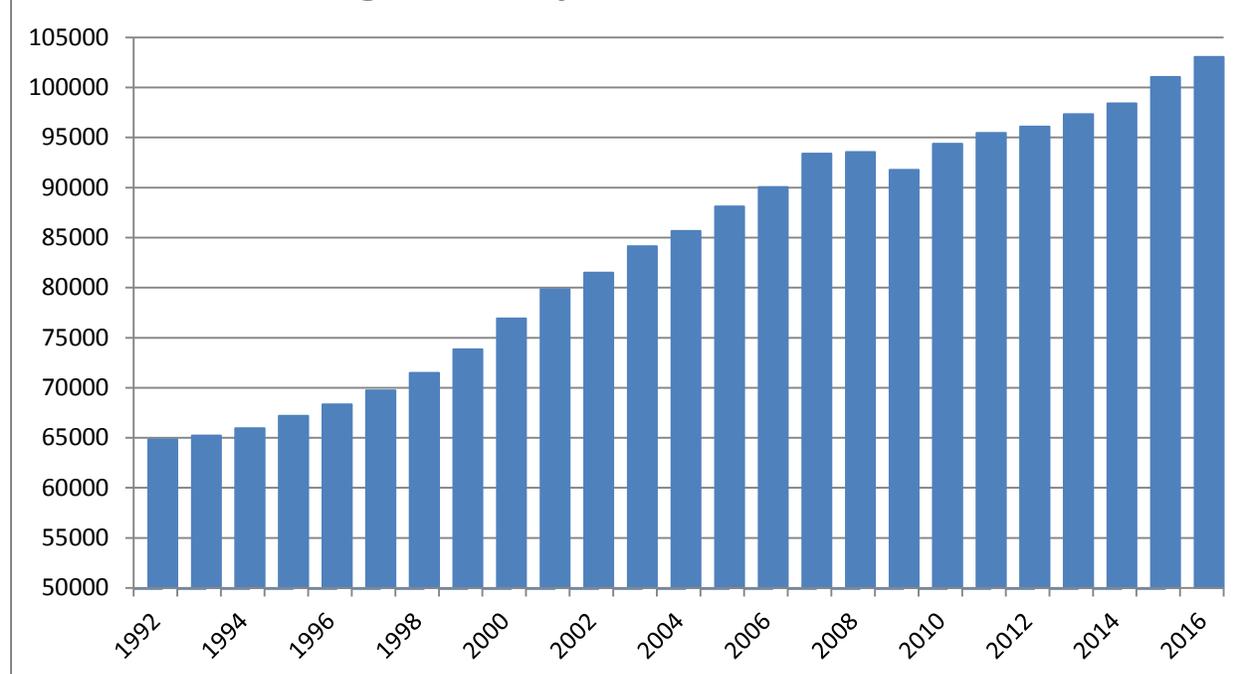


Figure 5 shows the annual estimated population between 1992 and 2016

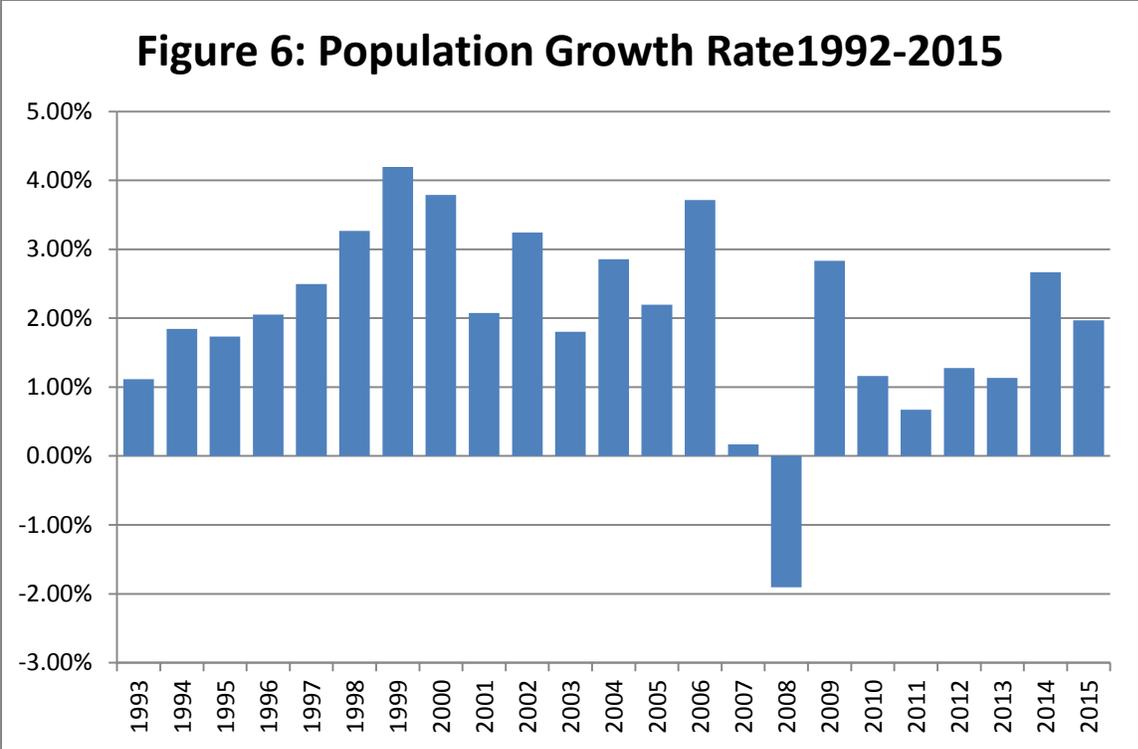


Figure 6 shows that the total population growth rate has varied between -1.91% and 4.20% between 1992 and January 2016.

V Employment

Employment continues to improve slowly throughout Colorado, but significantly more in Northern Colorado. The civilian labor force grew by 0.07% statewide, while the Greeley MSA, which includes all of Weld County, civilian labor force grew by 11.97%, the highest of any Metropolitan Statistical Area in the state as shown in Table 5.

Table 5: Employment Statistics for Colorado MSAs December 2015								
MSA	Civilian Labor Force	% Change over Dec. 2014	Number Employed	% Change over Dec. 2014	Number Unemployed	% Change over Dec. 2014	Unemployment Rate	% Change over Dec. 2014
Boulder-Longmont	174,620	-5.61%	170,017	-5.89%	4,603	-21.92%	2.6%	-13.33%
Colorado Springs	310,580	1.41%	298,147	2.05%	12,433	-20.78%	4.0%	-21.57%
Denver - Aurora	1,493,995	2.43%	1,445,314	2.85%	48,681	-14.56%	3.3%	-15.38%
Fort Collins-Loveland	179,670	-3.81%	174,156	-3.68%	5,514	-7.98%	3.1%	0.00%
Grand Junction	72,369	-4.70%	68,373	-6.28%	3,996	16.23%	5.5%	17.02%
Greeley	151,469	11.97%	146,259	12.51%	5,210	-0.53%	3.4%	-12.82%
Pueblo	71,750	-3.39%	68,130	-3.78%	3,620	-13.58%	5.0%	-12.28%
Colorado Totals	2,808,816	0.07%	2,715,650	1.21%	93,166	-22.99%	3.3%	-19.51%

(Colorado Department of Labor and Employment, 2016)

The total number of employed people also increased, with a statewide growth of 1.21% statewide and 12.51% in the Greeley MSA, also the highest in the state. At the same time, the unemployment number and rate declined significantly.

Table 6 shows the year-over-year comparison of employment in the Greeley MSA (Colorado Department of Labor and Employment, 2016). It shows significant increases in the size of the workforce and total number of persons employed, as well as significant decreases in the number of unemployed persons and the unemployment rate. The 11.97% increase in the civilian labor force includes immigration to the Greeley area, commuting from outside the Greeley area, and people returning to the labor force who were not included in recent

reporting. Examining the growth in the Greeley labor force when compared to the surrounding Metropolitan Statistical Areas appears to indicate that there could be significant pent up regional demand for housing. This demand may currently be addressed through doubling up on housing units, long distance commuting, or employed persons living in campers or group housing away from their families.

Table 6: Year to Year Greeley MSA Employment Comparison				
	Dec. 2012	Dec. 2013	Dec. 2014	Dec. 2015
Civilian labor force	119,038	124,178	134,817	151,469
Number Employed	108,261	115,507	128,851	146,259
Number unemployed	10,777	8,671	5,555	5,210
Unemployment Rate	9.1%	7.0%	3.9%	3.4%

VI Land supply

An important factor in projecting building permits is an examination of the supply of lots. As existing developed lots are absorbed by building activity, are they being adequately replaced by developed and platted lots? Table 7 shows the inventory of developed and final platted single-family lots as of the end of 2013 through 2015. Single-family lots are rapidly being absorbed and built upon. With the increase in home building in 2015, several subdivisions were approved through final platting, developed and had many homes completed. The net change in available

Table 7: Potential Single Family Units Based on Buildable Lots			
Approval Status	Single Family Lots		
	2013	2014	2015
Approved projects with infrastructure installed (permit ready)	656	651	509
Created via demolition since 2012	13	13	20
Total Permit Ready Lots	669	664	529
Approved Projects with incomplete infrastructure	620	646	519
Net Permit ready Lots + Platted Lots	1289	1310	1048

Permit ready lot growth	-0.75%	-20.33%
total lot growth	1.63%	-20.00%

lots between 2014 and 2015 is a 20% decrease in both total lots and finished lots. At the end of 2014, 664 developed lots remained available for builders. By the end of 2015 the number of permit-ready lots had declined 20% to 529, while the total number of both permit ready and paper lots also declined 20% to 1048. At the current rate of building, 449 single-family dwellings per year, the current activity in platting and development of lots appears to be sufficient to maintain an adequate flow of lots for the next two and one-third years. For this growth to occur, all approved lots would need to be developed (Community Development Department, 2016). To supply lots for future needs, additional land needs to be brought forward through the platting process.

MAP 1: Residential Building Permits issued in 2015

2015 Residential Building Permits

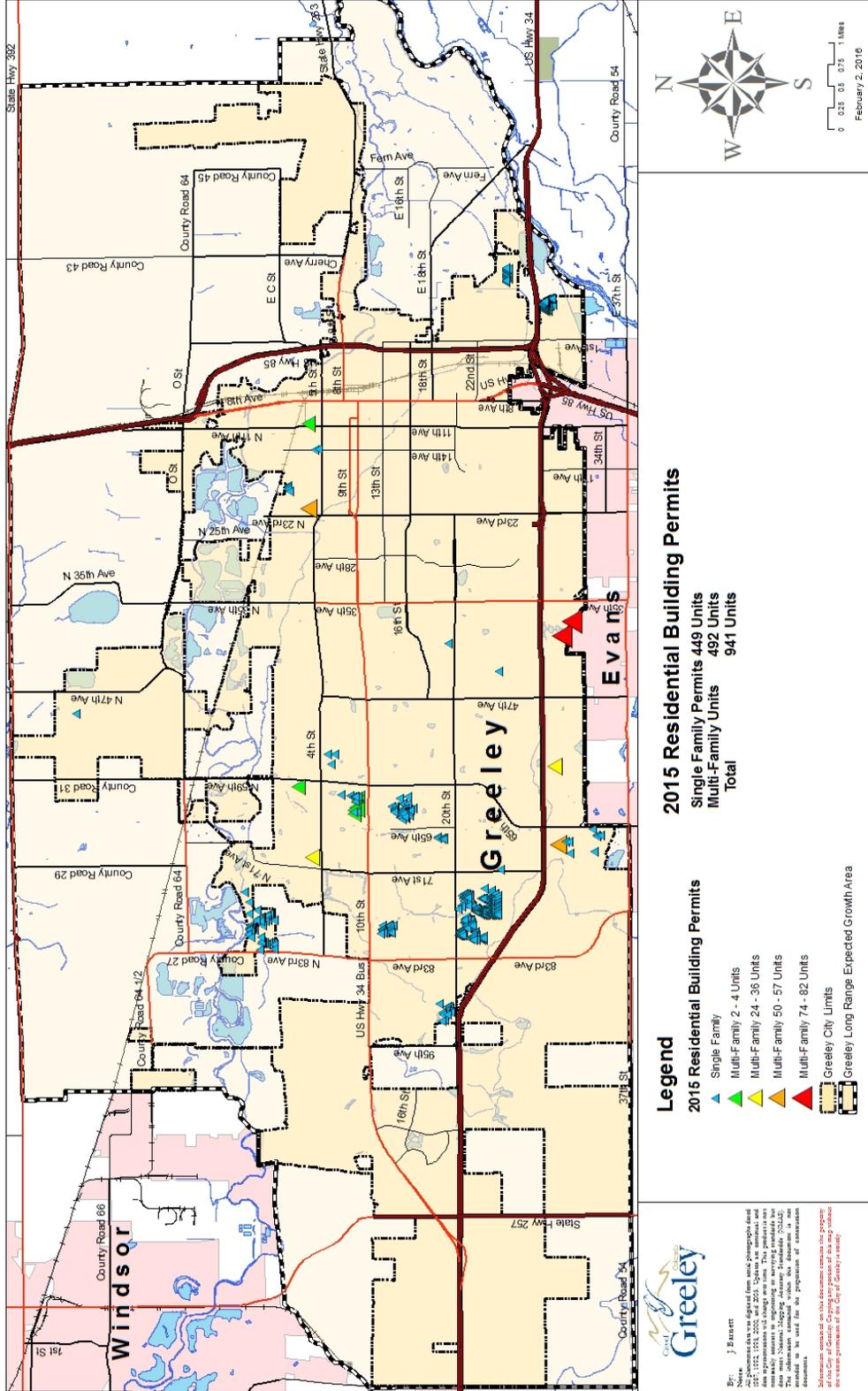


Table 8 shows that there are a total of 275 multi-family units under construction as of Feb. 1, 2016, down from 407 a year ago. In addition, there are permit ready sites for an additional 209 additional units up from 60 a year ago. There are 100 units currently under site planning or zoning review, down from 433 in 2015. The permit ready sites and the additional multi-family sites, if they are all approved, should be sufficient for approximately one year of new multi-family units (Community Development Department, 2016).

Table 8: Multi-Family Units in Process					
Project	Location	Units Under Construction	Permit-Ready Units	Units Being Planned	Total
Homestead Phase IV	North of 29th Street, Approx. 125' East of 39th Avenue	82	0	0	82
Saint Michaels Town Center Phase I	6720 29th Street	33	0	0	33
Mission Village	2239 5th Street	50	0	0	50
Summer Park	SEC of 71st Avenue and Grizzly Drive	24	22	0	46
Renaissance at Fox Hill	4672 20th Street Road	0	25	0	25
Porter House Apartments	South of 29th Street, Approx. 600' West of 53rd Avenue	0	0	100	100
The Reserve	5770 29th Street	72	0	0	72
Guadalupe Apartments	1442 N. 11th Avenue	0	47	0	47
Boomerang Ranch 2nd Filing Multi-Family	SEC of 83rd Avenue and 12th Street	0	48	0	48
Reserve at Hunter's Cove	6024 1st Street	14	23	0	37
Mountain View at West T-Bone Ranch	5551 29th Street	0	44	0	44
TOTAL		275	209	100	584

VII Trends

Growth in Northern Colorado is expected to be slightly lower than for 2015 but still in the 2% to 2.5 % range. This growth is likely to continue because of Northern Colorado's diversified economy more than because oil and gas will recover (Wobbekind, 2016).

Trends that could impact growth and development in Greeley include those that could affect the regional economy, such as continued growth in the technology sector, trends in agriculture, uncertainty after several years of growth in the oil and gas industry, and factors affecting the mix of single and multi-family housing. Factors affecting the mix of single and multi-family housing include apparent lifestyle preferences of the Millennial Generation, the slow recovery from the Great Recession, the availability of financing, and the high cost of raw water.

According to the State Demographers Office, Colorado is expected to have the fourth fastest growth rate and be eighth fastest in terms of absolute population growth of any state. Most of this growth (83%) will occur along the Front Range. During 2016, Colorado is expected to add approximately 65,100 jobs (Leeds School of Business, 2016).

Regional Economy

The economy of Northern Colorado can be divided into two parts: 1) science, technology, and information; and 2) oil and gas and agriculture. These two sectors are affected by different trends and must be analyzed differently (Shields, 2015).

Growth in the science, technology, and information sectors has been strong since the Great Recession and remains so. This growth is expected to continue for the next several years. Many jobs in these sectors pay well and workers in these industries can often afford upscale homes. Many of these workers have a strong preference for significant community amenities such as natural areas, and trails, and walkable communities with bicycle transportation networks and mass transit and they are willing and able to pay premium housing prices to live in these communities (Shields, 2015) (Leeds School of Business, 2015) (Wobbekind, 2016).

Agriculture

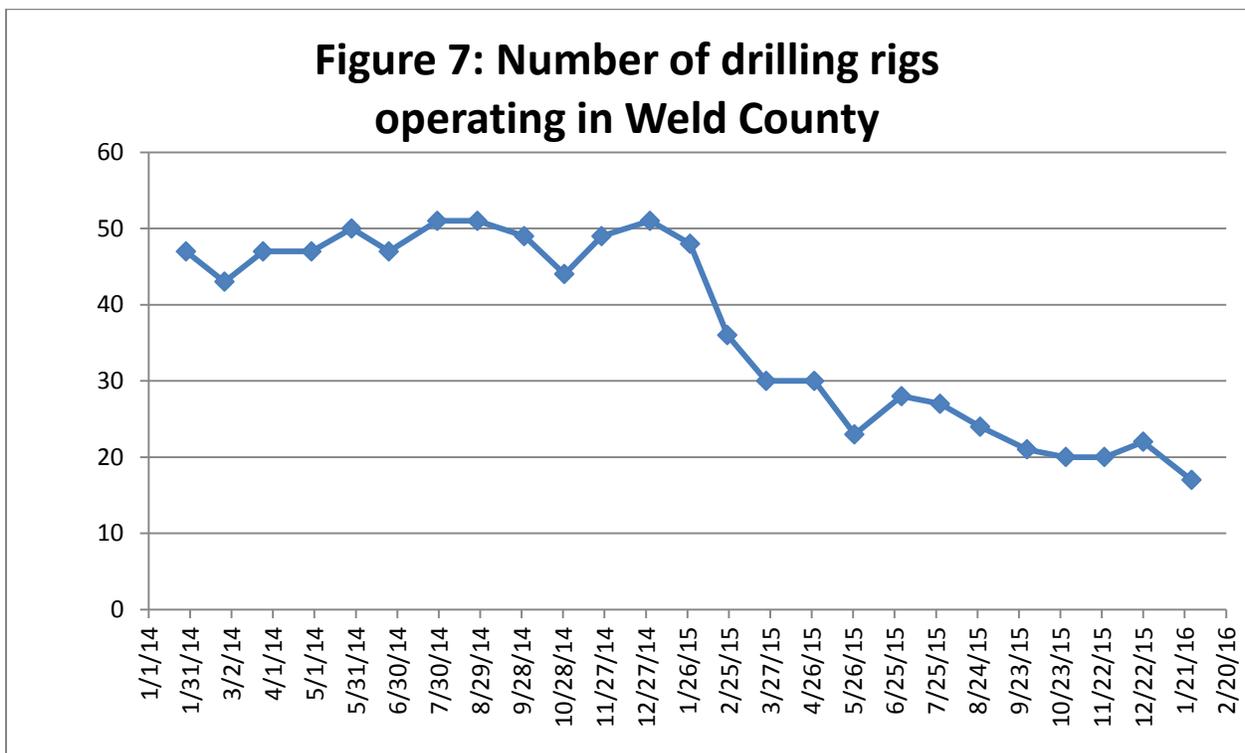
Weld County is the ninth most productive agricultural county in the United States and the most productive outside California in terms of the value of agricultural products produced (Bureau of the Census, 2012). While crop production is a significant portion of this value and is an important support of food processing plants, it is food processing that generates most of the added value. In 2015, agricultural commodity prices are expected to soften, leading to lower profits for farmers. This can lead to the consolidation of farms into fewer but larger operations

that eventually rely on less labor but are larger and more capital intensive. Consolidation does not reduce total acreage or crop production, but urbanization of land and conversion of water to municipal and industrial use does affect agricultural crop production (Bureau of the Census, 2012).

One of the major trends affecting the future of agriculture is the sale of agricultural water for municipal and industrial uses which can lead to permanent reduction in irrigated cropland. During the past two years, the price of agricultural water has nearly tripled (Lynn, 2015). This dramatic increase in price together with the average age of farmers can create an incentive to sell these water rights. After the sale of water rights for future municipal and industrial use, a municipality typically pursues a “change in use” and a “change in diversion” through the water court and the water continues to be rented to the farmer for agricultural use. As more water is converted, land is taken out of production and dried up.

Uncertainty in oil and gas

The price of West Texas Intermediate crude oil has dropped from \$105.79 per barrel on June 24, 2014 to under \$30.00, prices not seen since 2004. As can be seen in Figure 7, the number of drilling rigs took a substantial drop from the upper 40s to low 50s before January to May of 2015 and has remained in the low to mid-twenties since then dropping to 17 in January of this year (Colorado Oil and Gas Conservation Commission, 2015).



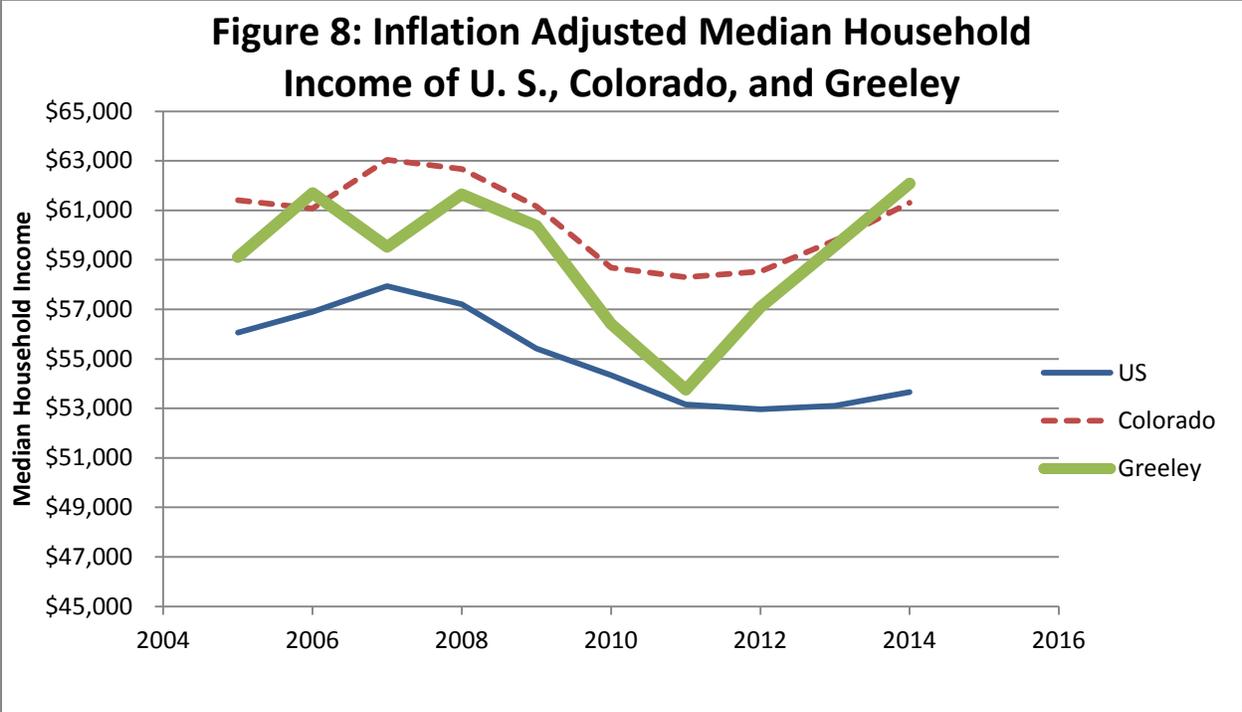
Since the drilling and fracking of each well employs approximately 100 to 125 people. (Shields, 2015), the reduction of 30 active drilling rigs represents the loss of 3600 to 3750 jobs that pay well above the median income. This is not yet reflected in the median household income statistics since those are only available through 2014.

Preferences of the millennials

Throughout American history, each generation has been significantly different than their parents in important characteristics, including attitudes, expectations, education, and aptitudes. The latest generation to come of age is the millennial generation. While far from uniform, this generation is the most highly educated and most technologically skilled in history. Many of them graduated from college with significant debt. Because many have had high stimulation early in life, many prefer rich urban environments.

Long term U. S. real wage trends

Figure 8 shows the inflation adjusted median household incomes for the U. S., Colorado, and Greeley from 2005 through 2014. U. S. real median household income adjusted for inflation peaked in 2007 at \$57,211. From 2007 until 2012, real median household income declined 7.4% to \$52,970(see figure 10). Since then it has recovered only slightly to \$53,657 in 2014 (the latest year for which median household income is available). Colorado’s real median household



income adjusted for inflation also peaked in 2007 at \$63,042 and declined by 15.4% to \$58,304 in 2011. Since then it has recovered nearly its entire decline to \$61,303 in 2014. Greeley's real median household income adjusted for inflation peaked in 2006 and again in 2008 at \$61,696 and 61,649, respectively, and declined 12.9% to \$53,748. Since then it has reached \$62,083, surpassing its previous peaks and exceeding the Colorado adjusted household median income. Much of this increased income can be attributed to the regional energy activity as well as increased demand for workers in the broader economy.

As can be seen in Figure 8, at the end of 2014, Greeley's household median income exceeded that of both Colorado and the U. S. and was increasing. Figure 7, however shows a significant decrease in oil and gas drilling rigs operating in Weld County through 2015. How this decrease in drilling activity will affect Greeley's median household income will not be known before the release of 2015 household income data.

Cost of raw water

New housing pays for water service in two ways: 1) plant investment fees that pay for the "buy-in" of the new housing unit to existing facilities to store, treat, and transmit water (See Table 11); and, 2) payment for, or dedication of the raw water rights to assure that the City has adequate senior, high-quality water rights to serve its water customers. Both the plant investment fees and the cost of providing raw water cost less per unit for higher density and multi-family housing than single family housing. In Greeley, approximately 55% of treated water is used for landscape irrigation.

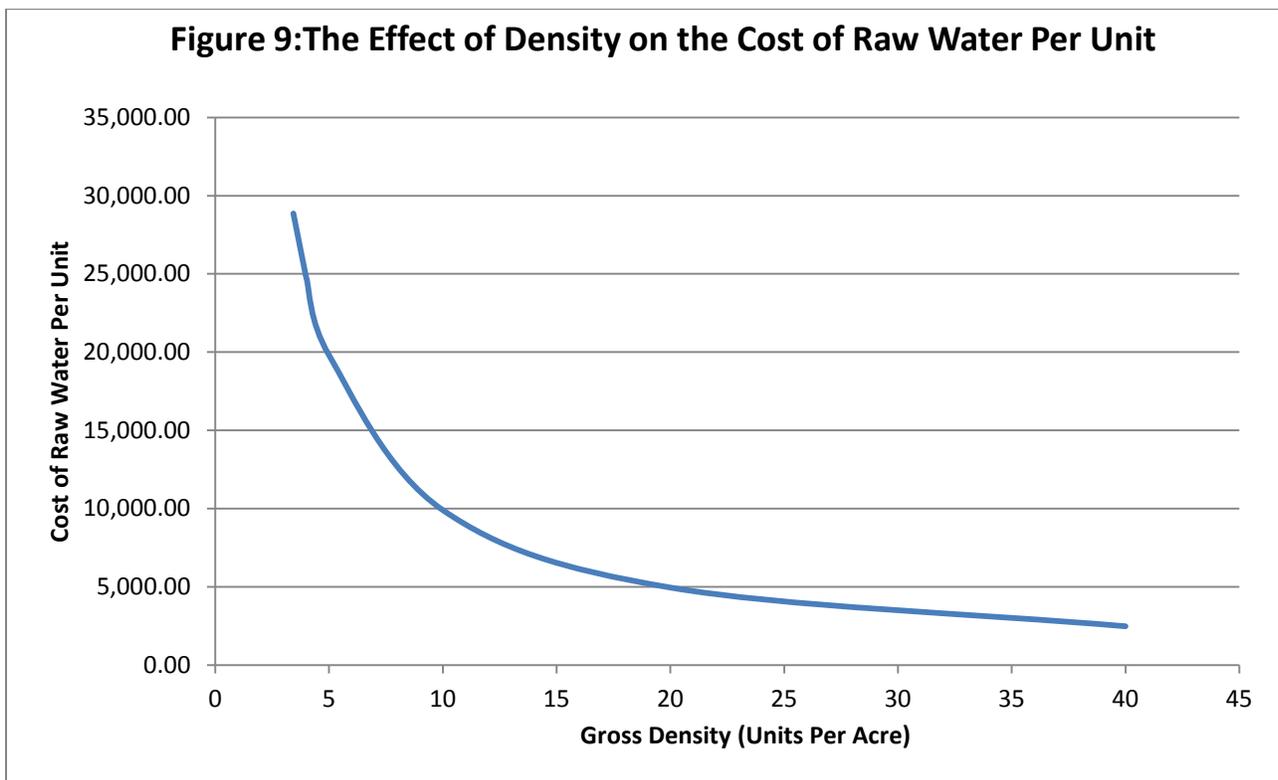
Water plant investment fees vary by density, reflecting the higher per-unit water use in single-family houses because of higher water use per household for landscape irrigation. During summers, over 70% of water is used for outdoor irrigation, and a significant portion of the capacity in reservoirs, treatment plants, transmission lines, and water mains is required to provide capacity for this water. The plant investment fees and water dedication requirements are mechanisms that allocate costs toward users likely to use more water. Nonetheless, these costs per unit have the impact of encouraging higher density and multifamily housing.

The price of raw water in Northern Colorado has increased dramatically between 2013 and 2015, potentially creating an impact on the affordability of newly built housing. During the last year, several changes served to mitigate the potential impact on housing affordability in Greeley. First, the rapid escalation in the price of raw water appears to have ended, at least in the short term. In fact, the price of raw water remains at approximately \$33,000 per acre foot for the second year. During the last year, the average density of single-family subdivisions in Greeley has increased from a gross density of 3.43 units per acre to 3.96 units per acre, thus lowering the raw water required for each unit based on volume per area of raw land. The

increase in density reduces the impact of the price of raw water per average single-family house in Greeley by \$ 3,863, from \$28,863 to \$25,000.

As a result of study in 2015 of the City’s raw water dedication and in-lieu payment rates, other changes have been taken to reduce the burden of raw water dedication and use water more efficiently. Greeley is exploring options to lessen the impact of the cost of raw water dedication on housing, including adopting policies allowing for dedication based on designation of non-irrigated (or partially-irrigated) outlots during subdivision, resulting in a net acreage dedication versus gross.

Greeley also recently completed an update to its Conservation Plan and separately adopted a “Landscape Policy Plan for Water Efficiency.” The City is in the process of implementing these through code changes, incentives, and education measures.



To date, no major housing projects have been developed using water rights purchased since the recent water price escalation. It appears that there is a sufficient supply of lots where water rights have been dedicated in Greeley to meet the need for lots for approximately two years at the 2015 rate of single-family building.

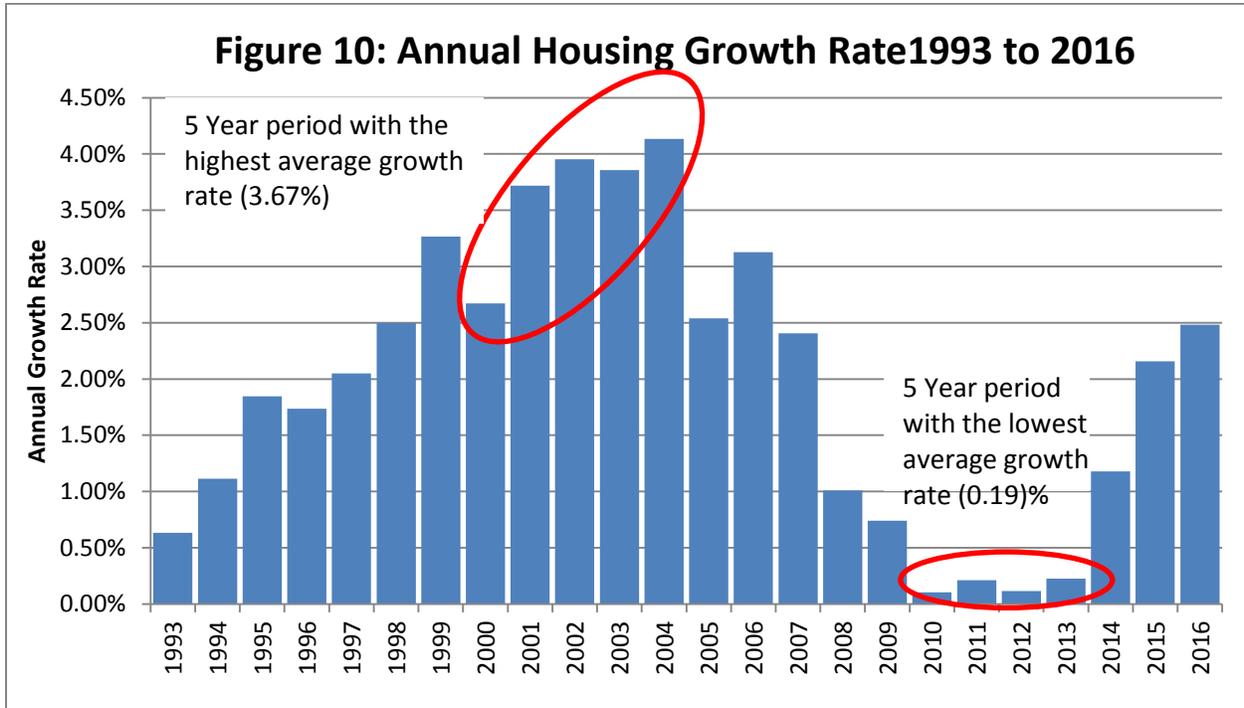
The increase in water price appears to be driven by projections of continued high growth in Northern Colorado municipal and industrial demand. As more conversion of agricultural water to municipal and industrial use takes place, there is less available water suitable for this conversion. Continued raw water price escalation can be expected to affect the market for new housing. Raw water is paid for in the price of new single-family homes and in the rent paid for rental units.

Table 7: The Effect of Raw Water Price on Per Unit Cost by Gross Density	
Density *	Raw Water Cost Per unit
3.43	28,862.97
3.96	25,000.00
4	24,750.00
5	19,800.00
10	9,900.00
20	4,950.00
40	2,475.00

* The average gross density for single-family lots available in Greeley during 2014 was 3.43 units per acre and during 2015 was 3.96 units per acre.

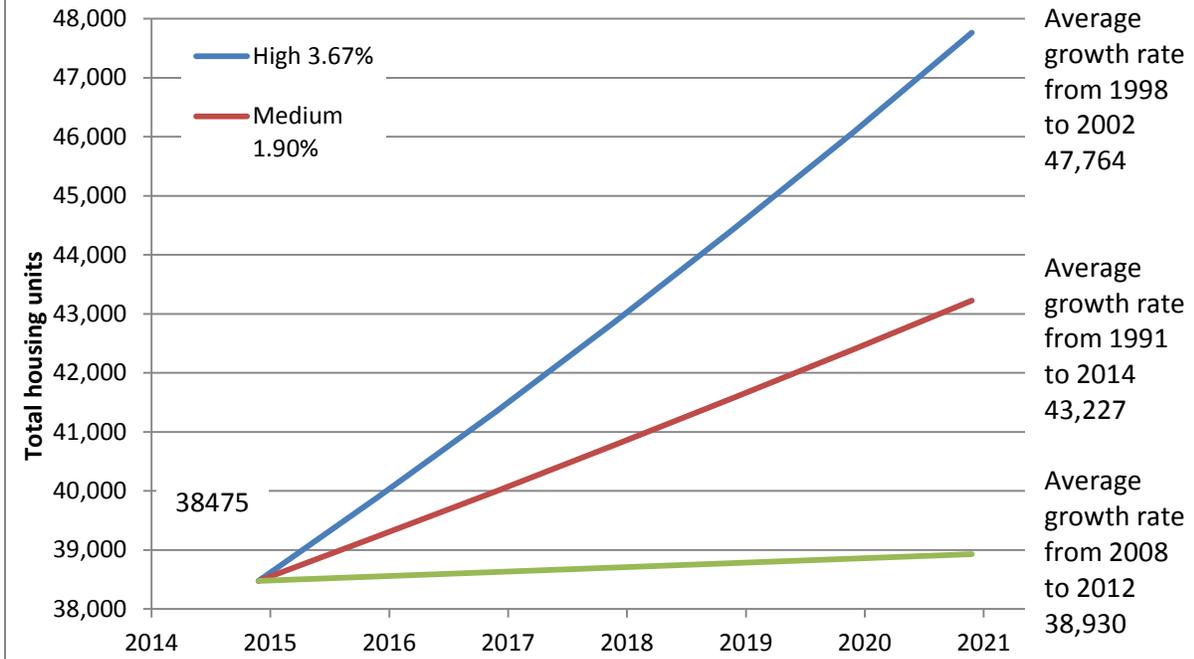
VIII Projections

Between 1991 and 2015, growth rates ranged from a low of 0.12% to a high of 4.14% as shown in Figure 12. The distribution of these growth rates is highly bimodal with lower growth rates occurring during and immediately following recessions and higher growth rates occurring during recovery periods.



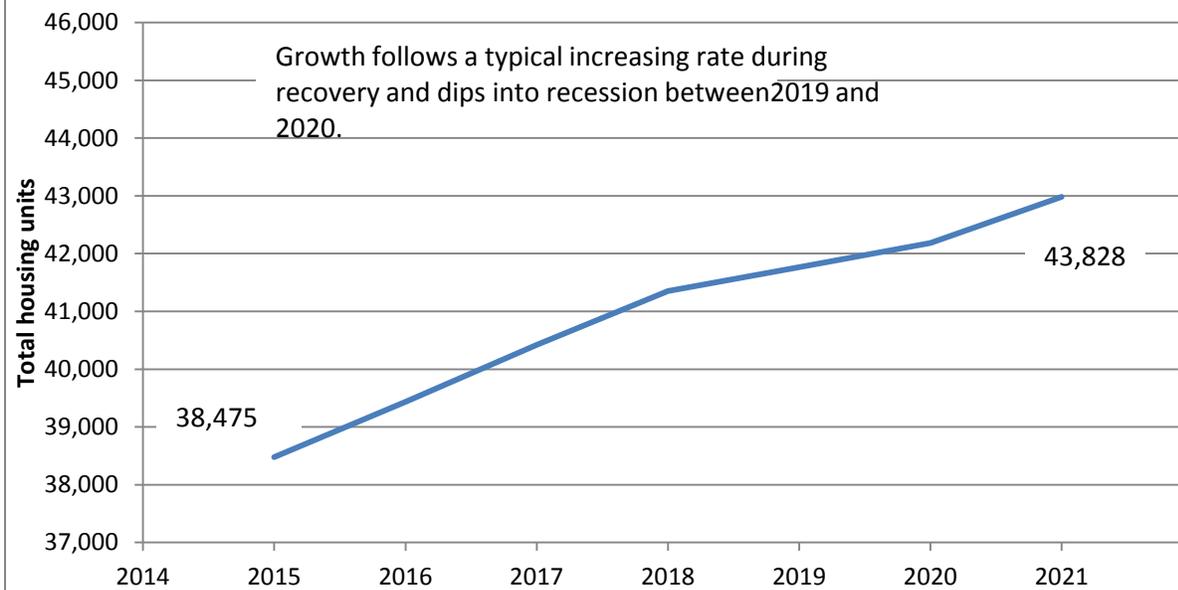
Additionally, strong growth after the Great Recession was driven by energy development, especially during 2013 and 2014. Although oil and gas employment remained steady through January, 2015, the oil and gas price drops and volatility lead to a 60% drop in drilling rigs operating in Weld County. Because many of the oil field workers employed in Weld County had relocated to this area, there is potential for negative energy employment effects to impact the real estate and housing markets.

Figure 11: Year-end potential housing Scenarios 2015 through 2021

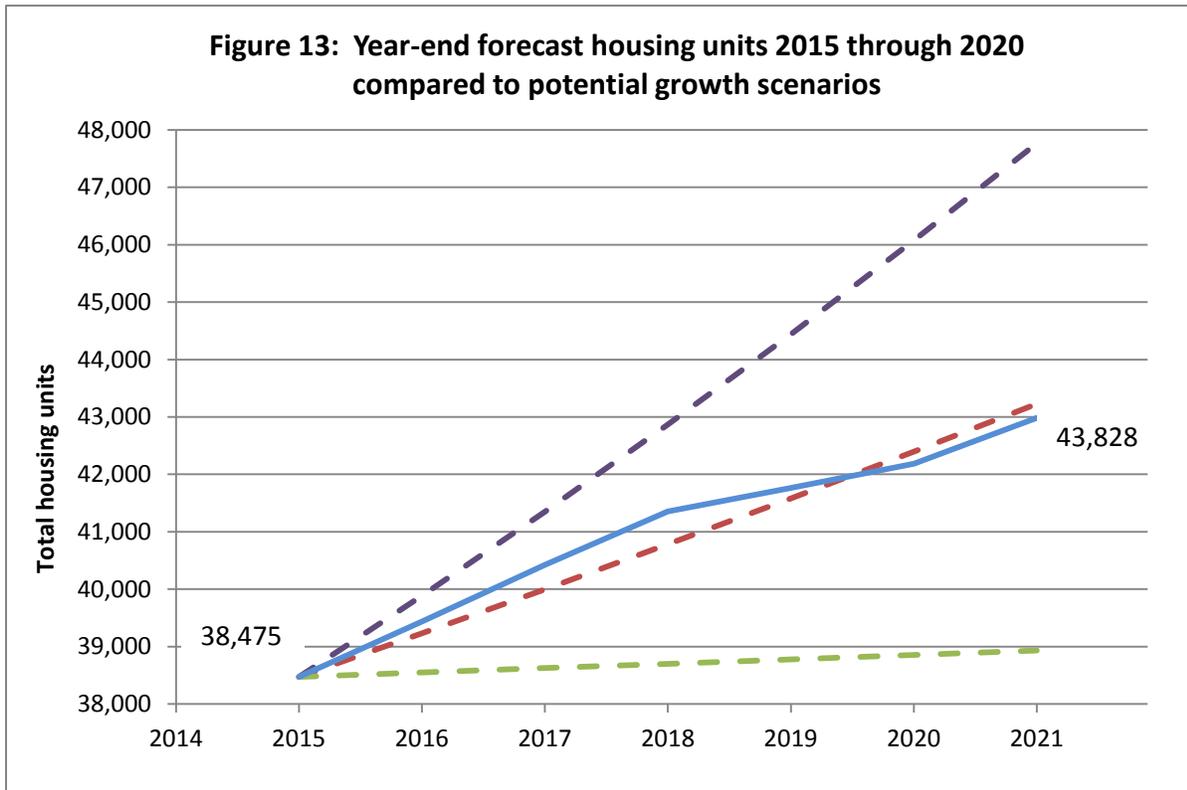


We anticipate that continued growth in the range of 2% in 2016 to 2.5% in 2017, before dropping to approximately 1% in 2019.

Figure 12: Year-end forecast housing units 2016 through 2021



This would be consistent with the slow recovery currently underway. Figure 15 shows that this growth rate would result in an average growth rate over the next five years consistent with both the continuing recovery and the broad and robust growth in Northern Colorado.

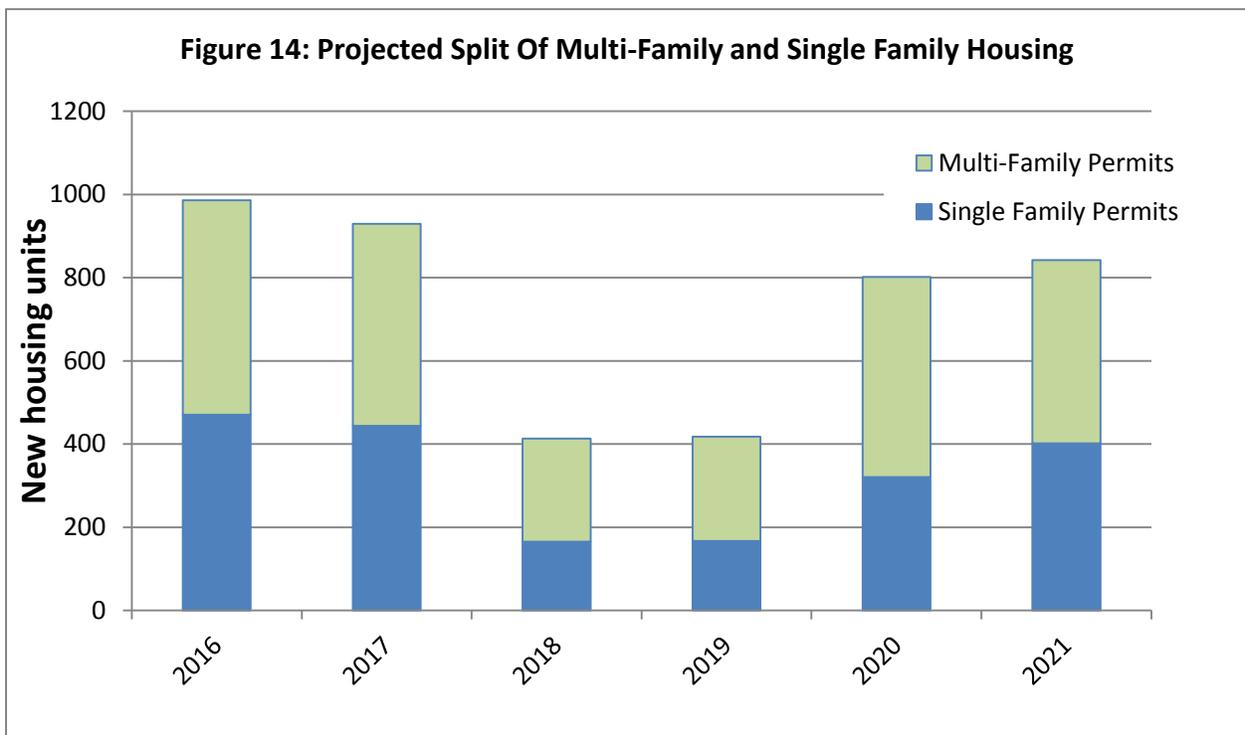


Per this projection, new home construction by year over this period would be as shown in Table 11.

Table 11: Projected Split Of Multi-Family and Single Family Housing

	Total New Housing Permits	Single Family Permits	Multi-Family Permits
2015	941	449	492
2016	986	470	515
2017	930	444	486
2018	414	165	248
2019	418	167	251
2020	801	321	481
2021	843	402	441

It is expected that trends in place will continue as they have since 2012. Unless oil prices decline much more than they already have, Greeley’s growth rate is not likely to be affected. Long term diversification of Northern Colorado’s economy is expected to continue, and this has, and will continue to have, a positive effect on Greeley. We can expect between 900 and 1,000 permits for new housing units to be issued during each of the next three years with a recession or leveling-off of the growth rate sometime before 2020. It is anticipated that much or the pent up demand for housing should be addressed during this time. As land with water already dedicated is absorbed and single-family housing becomes less affordable, market forces will likely mean that a higher proportion of these housing units will be multi-family because of the lower cost per unit of raw water and tap fees.



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WATER & SEWER BOARD AGENDA June 15, 2016

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 5

TITLE: REPORT: WATER MASTER PLAN 2015 REVIEW

RECOMMENDATION: INFORMATIONAL ONLY

ADDITIONAL INFORMATION:

The 2003 Water Master Plan (Master Plan) identified the need of annual reviews to update project goals and accomplishments. Master Plan reviews were completed annually from 2003 to 2007 and a combined 2007 to 2014 Master Plan review was presented in 2015. The 2015 Annual Master Plan Review is included in the board packet and staff will provide a brief presentation on the 2015 Annual Master Plan Review. This Review and Future Annual Master Plan Reviews will assist in budget processes and discussions.



2015 Water Master Plan Review

SUMMARY As required by the Water Master Plan, Greeley staff has performed a review of the following key areas of the Plan:

- **Key policies.** Policy No. 1 “Growth shall pay its own way without unduly affecting existing ratepayers” may be challenging if Greeley wishes to secure its water future. Greeley’s population growth rate has recovered to pre-recessional rates; the raw water market price has increased substantially, while water acquisition competition has increased. For their own long-term benefit, the current rate payers have and may have to continue to act now to secure an adequate water supply for the next fifty years.
- **Driving factors.** The four existing driving factors are population, regulations, age, and competition.
 - Population growth dropped below projections for several years during the recession. Recent population growth rates have increased to previously projected rates and are projected to range between 2% and 2.5%. Water demand projections remain consistent with comprehensive plan projections, as do future estimated water supply needs.
 - Regulatory requirements of the Enhanced Surface Water Treatment Rule and Stage 2 Disinfection Byproducts Rule have not resulted in the additional projects anticipated in the Water Master Plan to be implemented. Greeley has been able to meet the new requirements without the projects through increased monitoring and system testing.
 - Bellvue and Boyd water treatment plants continue to age as well as the transmission and distribution systems. Several replacement projects from depreciation funding have been completed or are planned to keep the system in good condition.
 - Competition for water rights in the Cache La Poudre Basin has increased as large municipalities such as Aurora, Arapahoe County and Cherry Creek are still acquiring new supplies in the basin as well as private equity investors which have purchased water in the Poudre Basin to later sell to the highest bidder. In 2015, C- BT water has become scarce and the price of C-BT

water has risen to more than three times 2008 prices or \$25,000 per unit. Greeley has long benefited from having diverse, relatively cheap water supplies available as it grows; it is becoming clear that those water supplies may no longer be available in as little as 10 to 15 years.

- **Blocks of Agricultural Water.** Greeley has continued its historical practice of being proactive in the development of new water supplies prior to water demands from new growth coming on-line. Recognizing the increasing competition for water supplies in northern Colorado, Greeley Council and the Board committed to a Future Water Account Phase II with the goal of acquiring an additional 10,000 acre-feet over a fifteen-year period. Greeley has acquired from 2011 through the end of 2015 over 2,980 acre-feet of new water supply. Acquisitions are on track with the fifteen year acquisition program volume and financial targets.
- **Review of Integrated Strategies.** Several Master Plan Integrated Strategies have been implemented including constructing a new pipeline from the Bellvue WTP, upgrading both treatment plants, utilizing existing supplies for non-potable or augmentation, and gravel pit acquisition. Improvements to the flocculation/sedimentation basins and filter influent/effluent piping modifications allowed CDPHE to re-rate the Bellvue WTP to 32 MGD contingent upon maintaining the finished water quality. Greeley has completed construction on 24 miles of the total 29 miles of the Bellvue Pipeline. When complete the entire pipeline including the Northern Segment, currently under construction, and the future Gold Hill Segment, will allow an additional 50 MGD capacity to flow by gravity from Bellvue to Greeley (total of 70 MGD). Permitting for Milton Seaman Reservoir expansion has entered the alternatives evaluation phase and based on request from the United States Army Corps of Engineers (USACE), Greeley is redrafting portions of the Purpose and Need Report. Greeley continues to pursue and complete all raw water options identified in the Master Plan.

Key Policies

1. Growth shall pay its own way without unduly affecting existing ratepayers. Specifically:
 - a) Greeley will develop a "Future Water Account" of additional water supplies in advance of new growth. The near-term development of the additional supplies shall be limited to the projected growth expected to 2020 by Greeley's Comprehensive Growth Plan, or 6,000 acre-feet.
 - b) New dry land growth will pay cash-in-lieu of water rights as it occurs once new water supplies have been developed in the Future Water Account. Cash-in-lieu shall be priced at the full, actual cost of developing new water at a 50-year drought yield basis so as to completely replenish the water used from the Future Water Account.
 - c) System development charges (plant investment fees) for development shall be based on growth buying into the replacement cost of the existing asset base without deducting depreciation.
 - d) Waivers or reductions of raw water dedication or system development charges by City Council (e.g., for economic development incentives) shall be repaid by the General Fund to the Water Acquisition Fund.
2. Greeley will pursue agricultural water acquisitions from areas outside Greeley's growth boundaries.
3. Greeley will not enter into any additional open-ended outside service contracts.
4. During a severe drought, Greeley shall incrementally increase the severity of water restrictions as drought conditions intensify considering factors such as water storage within Greeley's system and regional water systems (i.e. C-BT System) Greeley is dependent upon for yield.
5. Greeley will develop non-potable systems where equal or less than the cost of potable sources, striving for 15 percent of new development to be served from non-potable sources.
6. Greeley will maintain a strong water conservation ethic and will invest in additional cost effective water conservation. The volume of savings from conservation will be analyzed periodically and Greeley shall only rely on this volume when those savings actually occur.
7. Construction of new treatment and transmission capacity shall begin when peak demands exceed 90 percent of existing capacity.
8. For the foreseeable future, Greeley will maintain the existing raw water safety factor of 7,300 acre-feet to protect against risks that may occur in meeting customer needs.

Driving Factors

Four driving factors were identified by the Water Master Plan:

- Population and Economic Growth
- Limited Raw Water Opportunities
- State and Federal Regulations
- Aging Infrastructure

Population and Economic Growth

Long-term projections of population growth remain firm at greater than 2% annually. The average population growth rate between 2014 and 2016 was 2.0%, suggesting that the projected population growth rate of 2.5% to 2060 as identified in the *Comprehensive Plan* is still reasonable. The Milton Seaman Water Supply Project has projected a more modest 2.25% for the next forty years.

Approximately 940 water taps were added in 2015 compared to less than 800 taps sold in 2014. The projection for 2016 is approximately 970 water taps. All indications of a stable local economy.

Increasingly Limited Raw Water Opportunities

Public awareness of the need for additional water supplies remains high. Denver suburbs (Castle Rock, ECCV, and Arapahoe County are acquiring ditch company shares in Northern Colorado) have become acutely aware of the need to develop additional water supplies and have evaluated and acquired water sources within the Poudre Basin. Thornton intends to begin taking a portion of their Water Supply and Storage Company (WSSC) water. Private equity firms have been attempting to corner the market on Colorado-Big Thompson units as well as negotiating purchases with ditch companies.

State and Federal Regulations

Greeley is currently in the National Environmental Protection Act (NEPA) permitting process for expansion of Milton Seaman Reservoir. The expansion, if allowed, will require both an occupancy permit from the United States Forest Service and a permit from the United States Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act. The permitting process is complicated by the designation under the Endangered Species Act of "Critical Habitat" for the Preble's Meadow Jumping Mouse in the area of expected reservoir inundation.

The United States Environmental Protection Agency has promulgated its Long Term 2 Enhanced Surface Water Treatment Rule and the "companion" regulation, the Stage 2 Disinfection Byproduct Rule. The Surface Water Treatment Rule was designed for more effective treatment for microbial pathogens of high concern (such as cryptosporidium, which caused an outbreak in Milwaukee in 1993 that sickened over 400,000 people). If levels in

raw water required additional treatment, the Greeley water treatment plants would need to add an additional treatment system. At the Boyd plant, a project was proposed to add UV treatment and at the Bellvue plant, membrane filtration. Additional testing of the raw water has not shown levels which trigger the regulations requirements. Stage 2 Disinfection Byproduct Rule was designed to address Tri-halo-methane's (THMs) and Halo-acetic-acids (HALOs). Both Bellvue and Boyd had projects to change the disinfection from chlorine to a different method. Neither project has been required to date by the new regulations as a result of increased testing in the transmission and distribution systems. Both projects are still identified in the long-range capital plan.

Aging Infrastructure

Greeley continues to replace or repair aging infrastructure. Adding capacity while ensuring the two water treatment plants (WTPs) meet future regulatory compliance requirements and constructing the Bellvue transmission line were identified as the most important needs of Greeley's water system as presented in the *2003 Water Master Plan*. The entire list and status of the projects identified in Appendix C of the Water Master Plan is included in Appendix B of this document.

During past 2003 Master Plan Annual Reviews, decisions were made to defer constructing rehabilitation, treatment and capacity improvements to the Bellvue Water Treatment Plant (WTP) while also minimizing winterization improvements to the Boyd Lake WTP. Capital improvements to the treatment, transmission and distribution system have increased during the past several years. Projects undertaken during 2015 include the following;

- Bellvue WTP: Construction activity was initiated at the end of 2015 to rehabilitate the newer set of filters. The filter underdrain system will be rehabilitated and filter media replaced. This work is scheduled to be completed during the spring of 2016. This rehabilitation project will not increase plant capacity beyond its current rated capacity of 32 million gallons per day (MGD).
- Bellvue Transmission: Construction of Phase 1 of the Bellvue Northern transmission line continued during 2015. The 4.5 miles of open-cut pipeline installation is scheduled to be completed during the spring of 2016 ahead of schedule. The design of Phase 2 of the Northern segment was also completed during 2015. Phase 2 consists of a tunneled section located near LaPorte and the remainder of the open-cut installation. Construction of Phase 2 will complete the final segment on the Bellvue Northern transmission line. The final segment of the Bellvue Transmission pipeline located near the Poudre River to the Gold Hill water storage tanks still remains to be designed and constructed.
- Boyd Lake WTP: The design to replace the tube settlers and sludge collection mechanisms at Boyd Lake WTP with plate settlers and a new sludge collection system was completed during 2015. Construction of these improvements is scheduled to be completed during the spring of 2016. These improvements are part of upgrades intended to improve the finished water quality and towards winterizing Boyd Lake WTP.

- Distribution system renovation continues on schedule. The cement mortar lining program has been completed so efforts have been concentrated on replacing deteriorated piping with an excessive leak history.

Changes to Options Available to Meet New Demands

Water Conservation

On November 19, 2008, the Greeley Water and Sewer Board adopted the Water Conservation Plan that projects a more than eight percent reduction in Greeley's water demand over the next 20 years. The Water Conservation Program is one of the largest programs in the state with an annual budget over \$500,000. Since 2008, the Water Conservation program has provided approximately 175 residential irrigation audits per year, 65 indoor commercial audits per year, 50 commercial irrigation audits, as well as provided over 1,650 toilet rebates and 2,212 washer rebates.

In January 2015, the Water and Sewer Board and City Council approved an updated version of the Water Conservation Plan and sent the plan to the Colorado Water Conservation Board for approval. In the fall of 2015, the Conservation Plan Update was approved by the State of Colorado. The plan includes several new conservation strategies including residential landscape code changes, commercial audits and conservation strategies at city park landscapes. The 2014, Water Conservation Plan Update projects 3,120 acre-feet of water demand reduction over a 20-year planning horizon.

Greeley has evaluated moving to a water budget rate structure. Greeley began a water budget study in 2008. The project goal for the study was to evaluate the effectiveness of empowering customers with information to improve their water efficiency.

After evaluating the water consumption of over 800 residential meters since the early 2000's, Greeley believed a water budget was the best rate structure to promote and encourage the efficient use of water for its customers while discouraging waste. In 2008, staff requested Statements of Qualifications (SOQs) from firms to assist with the development and implementation of a water budget rate structure. Greeley has since implemented a water budget based rate structure study. To date the following has been implemented:

- The Utility Billing System was upgraded to incorporate informational water budget billing.
- An irrigated area database was developed for each single-family residential customer as part of the Water Budget Pilot Project.
- Developed a water budget-based rate model for single family residential customers.
- The first year of the program was completed in 2011. An informational water budget pilot project was conducted with approximately 250 volunteers.
- The program was expanded in 2012 to include a random sample of up to 1,000 residential customers in addition to existing volunteers. The water budget was modified to forecast the customer's water demand, based on historic averages.

- In 2013, the program was expanded to all residential customers city-wide. Per customer feedback, the water budget is now based on actual weather data instead of historical weather data, which was used in 2012. Customers who use more water are in most need of water conservation messages and incentives. Greeley develops targeted communication pieces for customers who regularly exceed water budgets, and exceptionally high water bills are also flagged by utility billing. In order to reduce demand for gross water over users, Greeley will be applying rates to the water budget program.
- In the fall of 2015, the City of Greeley Water & Sewer Board approved further actions that allowed for the implementation of the Water Budget Rate Structure that would adjust single family residential rates to promote water efficiency.
- In the spring of 2016, the Water Budget Rate Structure was supported by Council.
- Following further implementation steps such as changes to the billing system and public outreach program, the Water Budget Rate Structure Resolution will be presented to the Water & Sewer Board for approval in the fall of 2016.

Review of Integrated Strategies

Treatment and Transmission

Greeley continues to work diligently to improve the treatment and transmission portion of the integrated strategy outlined in the October 2003 *Water Master Plan*. The following four items represent the major changes and updates on the most important aspects of treatment and transmission.

1. **Bellvue Transmission System** –To date, 24 of the 29 miles of the Bellvue transmission system have been constructed and are in service conveying water. The Northern Segment of the Bellvue pipeline is the last segment of the pipeline that will be constructed in Larimer County. It will extend from Bellvue WTP and connect to existing piping located at Shields Street. The Bellvue transmission line will be capable of transporting 50 MGD to Greeley and 70 MGD through the transmission system after construction of the final pipeline segment located near the Poudre River to the Gold Hill water storage tanks.

Construction of Phase 1 was initiated in early 2015 and continued during the remainder of the year. Construction of the 4.5 miles of open-cut 60-inch pipeline installation is scheduled to be completed during the spring of 2016, ahead of schedule. The contractor will finish construction activity early since they decided to construct continuously throughout the year in order to minimize mobilization and staffing expenses as opposed to only working during the non-irrigation season when conditions are considered more favorable for pipeline installation.

The design of Phase 2 of this line was also completed and bid during 2015. Phase 2 consists of approximately ½ mile of a tunneled section located near Point-of-Rocks by LaPorte, along with the remaining ½ mile of open-cut installation. Completion of Phase 2 will complete the Bellvue Northern

Pipeline project. Construction activity is anticipated to start during the spring of 2016 and is scheduled to be completed during the spring of 2017. Completion of Phase 2 will allow this new Bellvue transmission line to convey water to Greeley from the Bellvue WTP.

- 2. Bellvue and Boyd Lake WTP Improvements** – Efforts are being made to rehabilitate both water treatment plants, while planning for future growth and ensuring they meet future regulatory compliance requirements. Design efforts for the initial set of improvements were completed during 2015. The existing tube settlers and sludge collection mechanisms at Boyd Lake WTP will be replaced with plate settlers along with a new sludge collection system. The newer filters at Bellvue WTP will also be rehabilitated. This will involve rehabilitating the filter bottoms while also replacing the filter media. Both of these projects are scheduled to be completed during the spring of 2016.

Design efforts will be initiated during 2016 to comply with the recommendations outlined in the 2003 Master Plan. Specifically, these include rehabilitating and providing replacement capacity at Bellevue WTP; while also upgrading the treatment capability and completing the Boyd Lake WTP winterization process.

Proposed design improvements to Bellvue WTP include the construction of two 10 MGD treatment trains. These trains are comprised of new flocculation/sedimentation facilities and filters trains. Construction of these facilities will allow the existing Bellvue filters to be used as a backup system. These facilities are needed to ensure the long term reliability of the treatment plant.

Design of improvements are scheduled for completing the winterization of Boyd Lake WTP, while also improving treatment to minimize taste and odor issues. These improvements will allow the plant to be operated during the winter in the event that Bellvue WTP is out of service. The improvements will consist of enclosing all of the chemical storage tanks within a heated structure, modifying the activated carbon mixing zone and adding a new flocculation zone. Chemical feed lines and electrical equipment will be installed within an accessible equipment chase protecting it from the elements and also making maintenance access easier.

Completing the proposed improvements to the two water treatment plants will provide reliability to the water treatment system, robustness to meet more stringent water quality requirements, and redundancy allowing operation of either plant if required.

- 3. Finished Water Storage** –Siting an optimally sized finished water tank location and size were analyzed utilizing computer water distribution models and completed in 2008 and revised in 2011. A new Gold Hill 5 MG finished water storage tank located at Gold Hill is currently under construction. Completion of this tank will also allow inspection and rehabilitation of the existing 15 MG tank also located at Gold Hill to be performed.

4. **Seaman Water Supply Project (the Milton Seaman Reservoir Expansion)**

Greeley initiated formal consultation with USACE in 2005 for permitting associated with the Seaman Water Supply Project, and the Corps published a Notice of Intent in the Federal Register in 2006. At approximately the same time Greeley was researching the expansion of the Milton Seaman Reservoir, Fort Collins and other water providers were investigating expanding Halligan Reservoir, also located on the North Fork approximately 16 miles upstream from Milton Seaman Reservoir. The participants in the Halligan Reservoir Expansion and Greeley initially formed the Halligan-Seaman Water Management Project (HSWMP) in an effort to share costs and develop operational synergies between the two projects.

These projects were initially assessed in a combined Environmental Impact Statement (EIS) led by the USACE Denver Regulatory Office with the Corps hosting two scoping meetings in 2006. As part of this combined process, the Corps developed a Common Technical Platform (CTP) for the HSWSP and another proposed EIS in the Poudre Basin (called the Northern Integrated Supply Project) that established a consistent method for evaluating resources and hydrology for these multiple projects in the Poudre River Basin. To date, the following work associated with the HSWSP has been completed:

- The permit applicants transitioned from a Shared Vision Planning Outreach Program to a city-designed public outreach program and web 2.0 outreach programs in 2012.
- Hydrologic model runs were completed for the Common Technical Platform for current and future river conditions in 2012.
- The Purpose and Need (P&N) statement was completed and finalized in Feb. 2013 after EPA comments on water quality and water conservation were addressed.
- A Preliminary Draft Alternative Screening Report was released in April 2013 with additional analysis and comments developed in 2014.

In January of 2015, Greeley, Fort Collins, and USACE agreed to separate the HSWSP into two distinct EISs, the Halligan Water Supply Project and Seaman Water Supply Project (SWSP), to primarily address growing discrepancies in timing between the two projects. The newly independent projects will be evaluated and developed by separate Third-Party Consultants. In 2015, under the guidance of the USACE, Greeley selected a new third party contractor and new owners consulting team.

Moving forward, the new third-party contractor has begun to review past analyses and will assist USACE with re-evaluating project screens and project alternatives. The third-party contractor has begun developing water quality models on behalf of Greeley and will also complete impacts assessments for the finalized alternatives and develop the project's draft and final EIS.

Raw Water

Below is an update on the raw water projects identified in the *Water Master Plan*:

- **Windy Gap Firming Project** – The Windy Gap Firming Project entered the federal permitting process in 2003 and a draft EIS was released in the summer of 2011. The Municipal Subdistrict, Northern Colorado Water Conservancy District (Subdistrict) requested a Section 404 (Clean Water Act) Permit from the USACE Omaha District Regulatory Branch to construct Windy Gap Firming Project Water Supply facilities for its customers and 13 other Front Range water providers located in Colorado between Denver and Fort Collins. The U.S. Bureau of Reclamation is the lead federal agency managing the EIS and the USACE Omaha District Regulatory Branch has been participating as a Cooperating Agency.

A portion of costs for the firming project will be paid using the revenue from the sale of 20 of Greeley's 64 Windy Gap units. In 2005, Greeley sold three units to Fort Lupton. Twelve units were put under contract with the Little Thompson Water District, which closed and were transferred in February 2015, and another five units were put under contract with Evans. Evans' Lease/Option Contract expired 2015. The Lease/Option Contract was not renewed and the revenue associated with this transaction was not included in the 2016 budget.

The project permitting is anticipated to be complete by end of 2016, a delay of about seven years. The draft EIS process had taken significantly longer than anticipated, primarily due to lagged turnaround by the Bureau of Reclamation on reviewing key data/reports, federal agreements and Grand County 1041 approvals.

Key milestones were reached between 2011 and 2015 including: the Windy Gap Firming Project's final Environmental Impact Statement published in 2012, State Wildlife Mitigation Plan was approved by the State of Colorado in 2012, the Windy Gap Firming Project's Grand County 1041 approval was obtained by the Sub district in 2013, the supplemental Clarity Agreement for Grand Lake was signed, settlement agreement was reached with Rancher opposition groups, The Record of Decision was signed by the Bureau of Reclamation, and the Carriage Agreement Contract was approved by the Bureau of Reclamation in 2014. The Sub district is still required to obtain 404 Permit from the USACE following the issuance of a Colorado Water Quality Control Division 401 Water Quality Certification. The 401 Certification was issued in of May 2016, and the Section 404 Permit is not anticipated to be issued until late 2016. Project design is anticipated to begin in January 2017, and construction to begin in summer 2018.

- **Upper Poudre Gravel Pit Storage** – Greeley, along with the Tri-Districts (Partners), purchased the already mined Overland Trail Gravel Pits from Lafarge in 2006. When fully online (2022) the pits will increase operational flexibility and serve to maximize existing and newly acquired water supplies.

The total project storage estimated need for Greeley was projected to be 2500 acre-feet. To date, approximately 2500 acre-feet of storage is

owned by Greeley, with approximately 1000 acre-feet lined and ready for operation.

In 2009, the Partners successfully negotiated and purchased properties critical to the Overland Trail Reservoir Project. These include Ponds 1 (Linder), Pond 2 (Trieber), and Pond 3 (Trieber/Warson) south of the existing bike trail. These ponds added approximately 1,200 acre-feet of additional storage to the existing storage purchased in 2005 for the Partners. In 2015, the Partners closed on the Trieber/Warson Parcel following the approval from the State Engineers Office for the compacted clay liner leak test, providing an additional 250 acre-feet of storage for Greeley.

- **Lower Poudre Gravel Lake Storage** – Greeley completed construction of the Poudre Ponds at Greeley (aka 25th Avenue Gravel Lake) along with pump station and inlet / outlet facilities. The ponds met the State Engineer’s requirements for lined storage in 2003. Storage at the site is approximately 1,500 acre-feet. As much as 1,000 acre-feet of additional capacity can be created at the site (for a total capacity of 2,500 acre-feet) with additional mining, which does not appear cost-effective at this time. This project increases the efficiency of Greeley’s water system by allowing the retiming of untreatable supplies to meet non-potable demands.

The total project storage estimated need for Greeley was projected to be 3500 acre-feet; therefore Greeley began a Poudre Ponds expansion program.

In 2012, Greeley exercised the option to purchase additional property (Poudre Ponds Flatiron Parcels) that adjoined Poudre Ponds. Greeley obtained Division of Mining Reclamation and Safety (DRMS) as well as local mining and reclamation permits, and rezoned and annexed the parcels. Greeley selected Hall Irwin to mine Poudre Ponds Flatirons Parcels (Parcel B) contingent upon execution of the option to purchase the additional property. The mining and generation of water storage in the adjoining parcel have many benefits such as shared infrastructure, reduced slurry wall costs, existing conveyance structures and reduction in existing augmentation obligations at the site. To date, over three quarters of the mineable materials have been extracted from the site, and project completion is anticipated in 2019. The project will add an additional 1,500 acre-feet of water storage to the Poudre Ponds facility. Following construction of the liner on Parcel B, Greeley will have approximately 3,000 acre-feet available for storage by 2021.

- **Large Non-potable Development Projects** – Greeley is assessing a Lower Equalizer Project, which could serve Greeley’s existing and master-planned non-potable demand in the service area of the Greeley Loveland Irrigation Company (GLIC) with Greeley’s excess untreatable supplies (primarily wholly consumptive effluent) allowing Greeley to treat its GLIC water supplies at the Boyd Water Treatment Plant.

In 2012, Greeley evaluated the project's feasibility and concluded that the critical success factors (water supply, water demand, exchange potential and operational considerations) suggest that the Lower Equalizer Project could be an efficient way to increase the firm yield of Greeley's water system. Site analysis of four potential reservoir locations began in 2007. A potential site was identified in 2012. Negotiations for the acquisition of this site have been on-going.

Greeley has since assessed an alternative Equalizer Project, which will provide the same function as the Lower Equalizer Project. This Upper Equalizer Project could also serve Greeley's existing and master-planned non-potable demand in the service area of the Greeley Loveland Irrigation Company (GLIC) with Greeley's excess wholly consumptive effluent allowing Greeley to treat its GLIC water supplies at the Boyd Water Treatment Plant.

Potential benefits of the Upper Equalizer Project compared to the Lower Equalizer Project include less or simpler environmental permitting; optimization of existing non-potable facilities; and consolidation of new infrastructure in or near city limits. A preliminary analysis was completed in 2015 for this alternative.

- **Blocks of Agricultural Water** – Greeley has continued its historical practice of being proactive in the development of new water supplies prior to water demands from new growth coming on-line. Greeley developed future water accounts in order to acquire water prior to growth occurring.

In 2008, recognizing the increasing competition for water supplies in northern Colorado, Greeley Council and the Board committed to a Future Water Account Phase II, with the goal of acquiring an additional 10,000 acre-feet over a ten-year period. Greeley has since acquired from 2011 to 2015 2,985 acre-feet of new water supply. This water purchased is still decreed for agricultural use and must go through a water court change case to be used for municipal purposes. In summary, Greeley:

- a. Had begun acquiring shares in the Larimer & Weld Irrigation System and has acquired approximately 45 shares to date since 2012;
- b. Has continued with WSSC acquisition program and has acquired an additional 7.5 shares;
- c. Has acquired the remaining 240 shares of the Boyd and Freeman Irrigation Company;
- d. Has acquired 90 shares in the NPIC; and
- e. Has acquired additional shares in New Cache La Poudre Irrigation Company and Reservoir Company, as well as New Mercer shares.
- f. In 2015 Greeley acquired an additional 16 Shares of New Cache La Poudre Irrigation Company and Reservoir Company, 2 Shares of Windsor Reservoir and Canal Company and 5 Units of Windy Gap Water Rights for additional 400 acre feet of new supplies.

In addition, the following successful water court proceedings are relevant to the continuation of the Water Master Plan and cost reductions in relation to legal fees.

- *15CW3162 (Rockwell Reservoir)* Greeley owns a conditional storage right in the amount of 4,900 acre feet, originally decreed to the Rockwell Reservoir in Case No. W-8675. Greeley also owns certain conditional appropriative rights of exchange originally decreed to the Rockwell Reservoir from a number of other structures in Case No. W-9385-78. In December 2015 Greeley filed its application seeking to make Milton Seaman Reservoir an alternate place of storage for the Rockwell Reservoir conditional storage right, as well as adding Milton Seaman Reservoir as an exchange-to point for certain associated rights of exchange. Opposers have until February 29th to file a Statement of Opposition.
- *Greeley Irrigation Company Case No. 15CW3163-* In December 2015 Greeley filed an application for the change of use for 77.8 of its Greeley Irrigation Company (GIC) shares. GIC owns 5/8ths of Greeley Canal No. 3 and its water rights (Greeley owns the other 3/8ths separate from its GIC share ownership). The application generally tracks Greeley's first GIC share change application (99CW232) and applications filed by others.
- *Leprino* - Greeley has been working with Leprino Foods, Inc. ("Leprino") to file a water court application for quantification of reusable return flows and appropriative rights of substitution and exchange. Greeley has been actively working with Leprino staff to obtain the remaining data needed to complete the engineering report necessary before filing the application.
- *Larimer & Weld Irrigation Company change case* Greeley now owns and will seek to change its shares under the Larimer and Weld Irrigation Ditch system. Greeley has been cooperating with the various ditch companies to review their records in anticipation of a future change case. Additional review of records and data has occurred since the last Board update.

Diligence Applications:

In addition to the applications above, Greeley filed diligence on several matters

- *15CW3099 (application to make absolute, and for reasonable diligence, for 99CW234 conditional rights (Poudre Ponds)* Greeley filed its application for the 99CW234 (Poudre Ponds) conditional water right on August 31, 2015. Greeley is claiming 1300 acre-feet of absolute storage under its 1999 junior priority and a maximum absolute exchange rate of 10.34 cfs.

Reduced water court case objections:

At the end of 2014, Greeley was an active objector in 34 water court cases. From 2014 to 2015, Greeley stipulated to 19 cases. At the end of 2015, Greeley was actively opposing 25 cases, an approximate 27% decrease in case load.

WATER & SEWER BOARD AGENDA JUNE 15, 2016

ENCLOSURE X NO ENCLOSURE

ITEM NUMBER: 6

TITLE: ACTION: APPROVE WATER AND SEWER
2017/2018 OPERATING BUDGET AND 5 YEAR
CIP

RECOMMENDATION: APPROVE 2017/2018 WATER AND SEWER
OPERATING BUDGET AND 5 YEAR CIP AND
RECOMMEND TO CITY MANAGER

ADDITIONAL INFORMATION:

Staff prepared the 2017/2018 operating budget and the five year capital program for review by the Water and Sewer Board. The proposed budget continues to emphasize system maintenance and reliability as well as securing additional water supplies. Highlights for the budget include:

Operating

- No new positions or program requests

Capital

- Continue critical projects
 - Water treatment plants Needs Assessment implementation
 - Windy Gap Firming nearing construction
 - Milton Seaman Permitting
 - WPCF rehabilitation projects

Rate Impact

The proposed budget will have relatively minor rate impacts for 2017. On average, residential water bills will increase approximately \$0.55/month and residential sewer rates will not increase from 2016. Additionally, single family residential water customers will transition from a uniform rate structure to a water budget rate structure in 2017.



Water & Sewer 2017/2018 Operating Budget and 5 Year CIP

June 15, 2016



Overview

- Rates/Revenue
 - Model assumptions
 - Rate changes
 - Water budget rates
- Operating
- Capital
 - Review program drivers
 - New projects

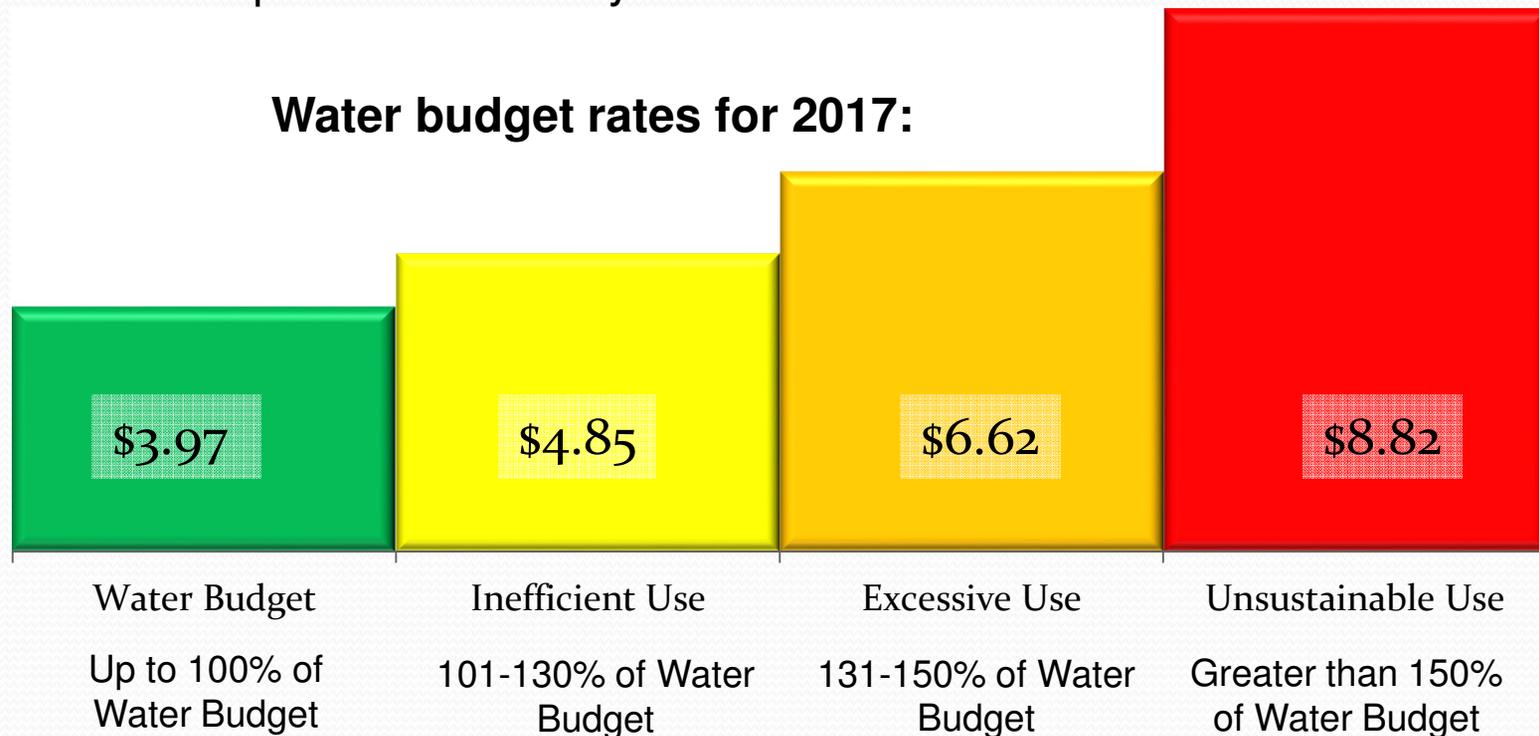


Model Information

- Growth rate = 1.8%
- Single family water use = 130,000 gallons/year
 - Down 7,000 gallons from previous model
 - Incorporated water budget rates
- 2006 & 2008 water bonds refunded
 - Average annual savings of \$400,000

Residential Water Budget Rate Structure

Proposed for Greeley SFR customers for 2017:

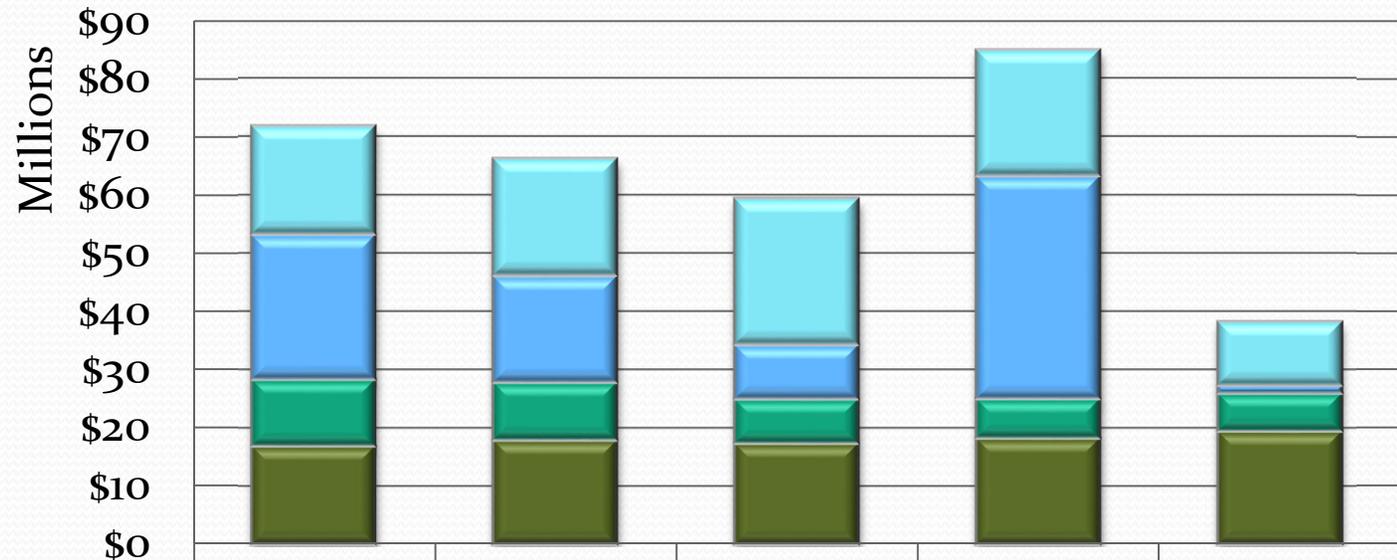


Uniform rate would have been \$4.21 – 3.5% increase from the 2016 rate of \$4.10

Proposed Water Rate Changes

Customer Class	% Rate Increase	Rates
Inside Residential	3.5%	Varies
Inside Commercial	4.5%	\$4.04
Inside Industrial	1.0%	\$3.05
Outside Residential	0.5%	\$9.92
Outside Commercial	0.5%	\$9.72
Outside Industrial	(6.0)%	\$3.10
City of Evans	7.0%	\$3.23
Town of Windsor	4.5%	\$3.66
Town of Milliken	(7.0)%	\$5.40

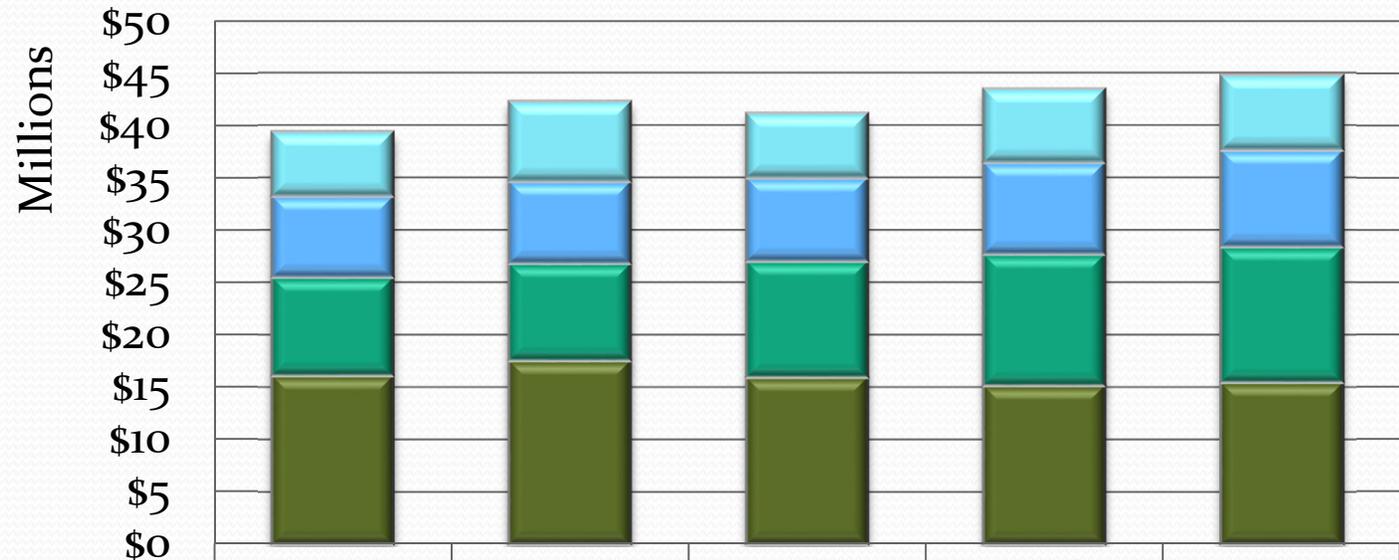
Water Expenditure Projections*



	2015	2016	2017	2018	2019
Replacement	\$18.7	\$20.2	\$25.1	\$21.7	\$10.9
New Construction	\$24.8	\$18.2	\$9.3	\$38.2	\$1.4
Acquisition	\$11.4	\$9.9	\$7.6	\$6.8	\$6.6
Operating	\$16.9	\$17.9	\$17.4	\$18.2	\$19.4
Total	\$71.8	\$66.2	\$59.4	\$84.9	\$38.2

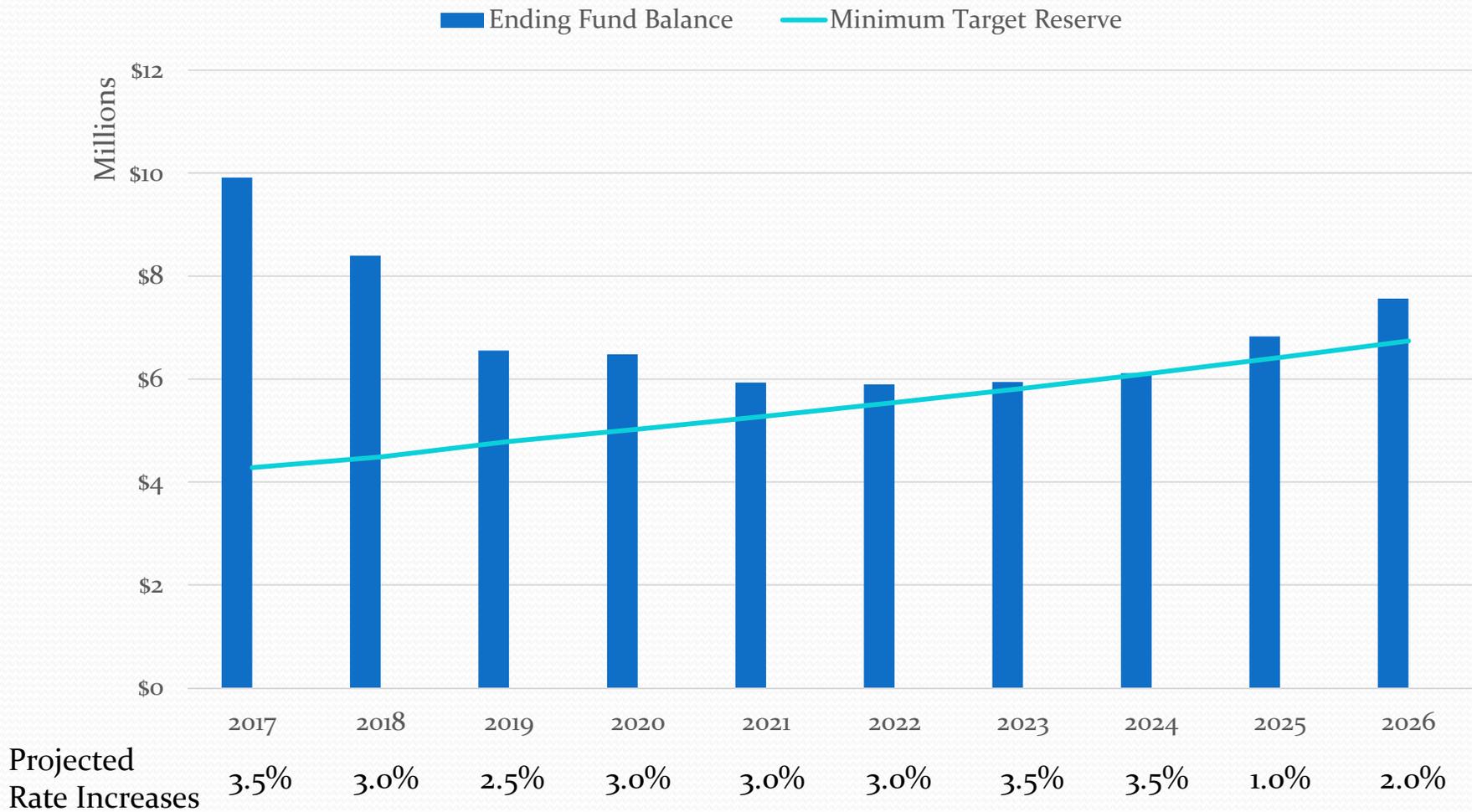
* Projected cash flow – timing will differ from budget

Water Revenue Projections



	2015	2016	2017	2018	2019
PIF	\$6.2	\$7.7	\$6.2	\$7.0	\$7.2
Rates-Depreciation	\$7.7	\$7.8	\$8.0	\$8.7	\$9.2
Rates-Debt Service	\$9.4	\$9.3	\$11.1	\$12.5	\$12.9
Rates-O&M	\$16.1	\$17.5	\$16.0	\$15.2	\$15.5
Total	\$39.4	\$42.3	\$41.1	\$43.5	\$44.8

Projected Water Operating Cash Flow



Proposed Sewer Rate Changes

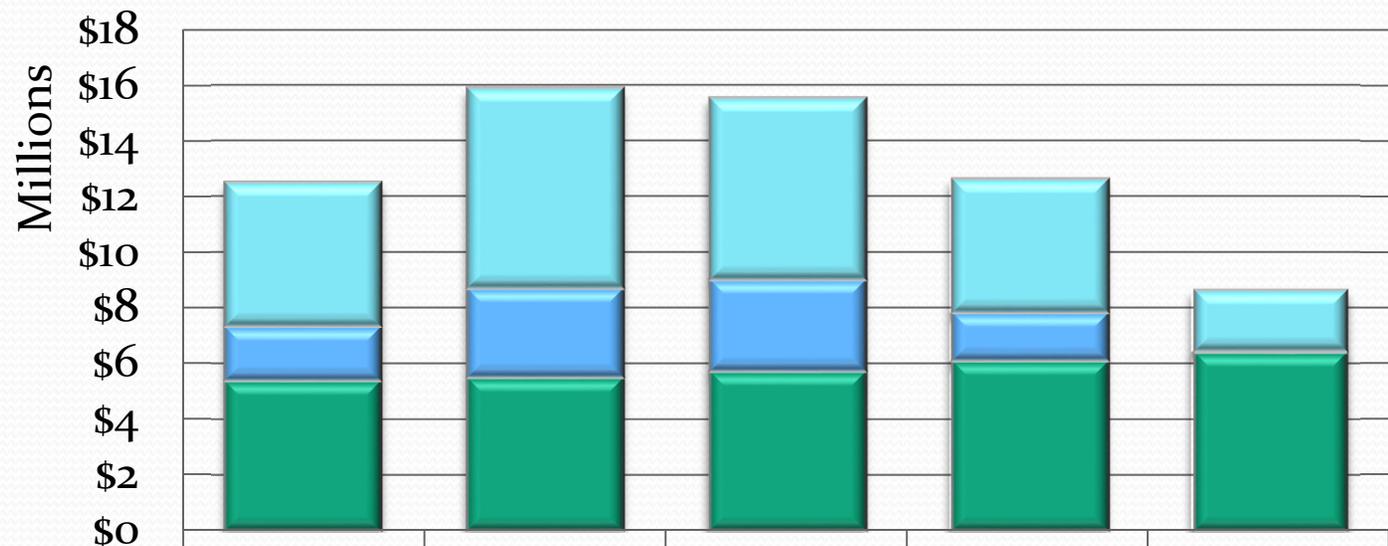
Customer Class	% Revenue Increase	Rates
Single Family	0%	\$1.89
Multi-Family	2.0%	\$2.22
Commercial I	2.0%	\$2.21
Commercial II	0%	\$3.03
Commercial III	0%	\$3.87
Commercial IV	0%	\$4.69
Commercial V	0%	\$5.41

Avg monthly bill = \$19.39
--No change from 2016

Proposed Sewer Rate Changes

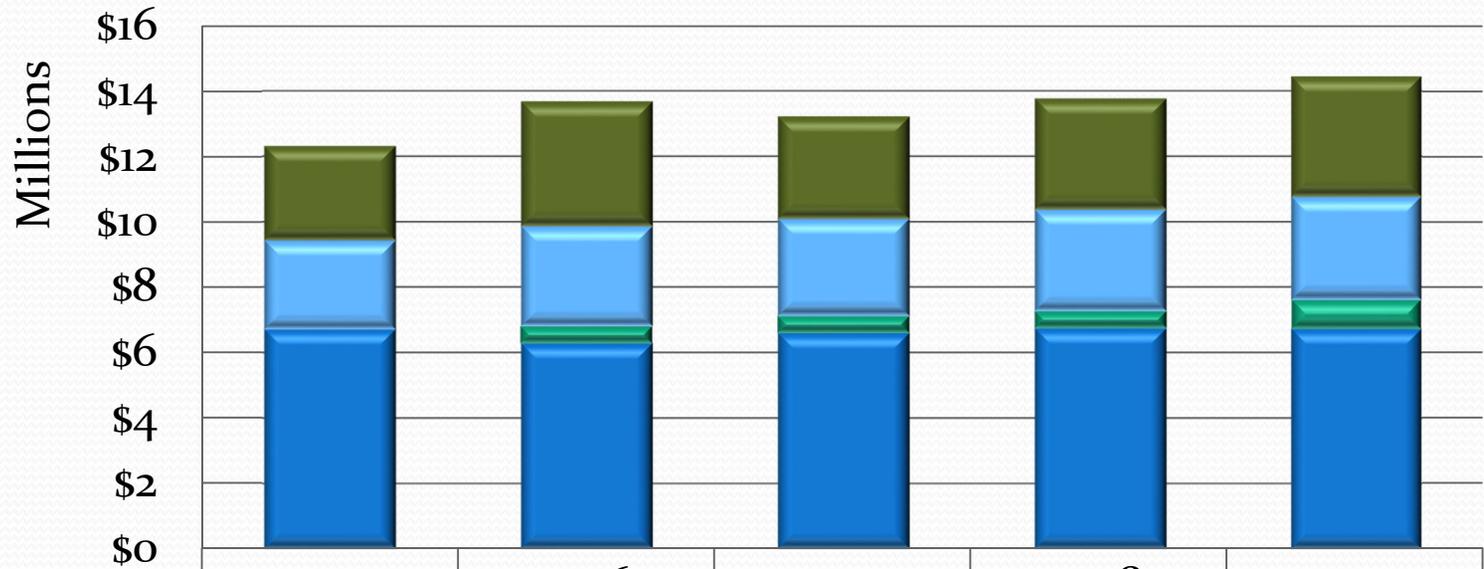
Customer Class	% Revenue Increase	Rates
Industrial SIC 2026	2.5%	\$13.27
Industrial 2013	0%	\$14.13
Industrial SIC 7218	4.0%	\$3.55
Industrial SIC 2034	0%	\$2.70

Sewer Expenditure Projections



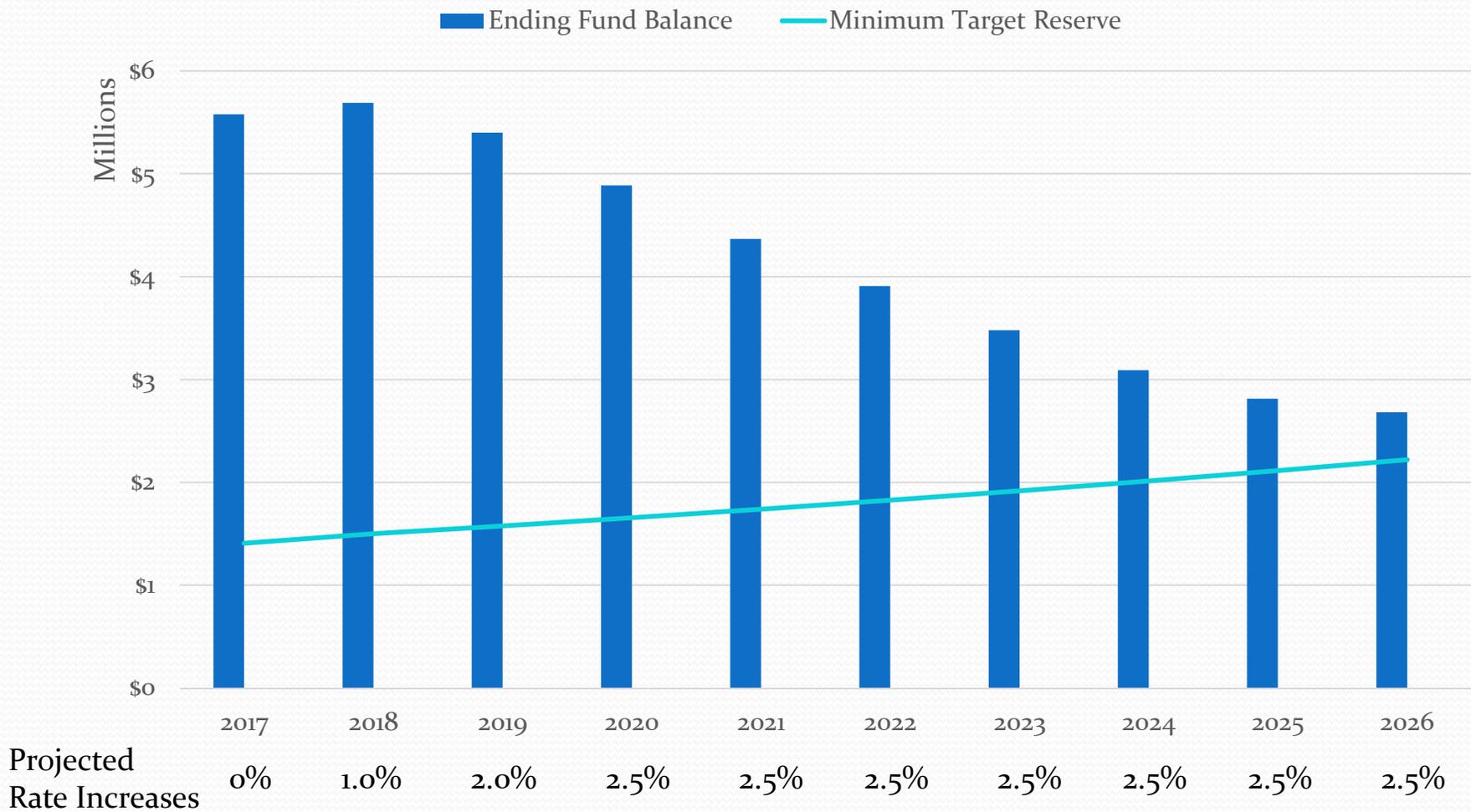
	2015	2016	2017	2018	2019
Replacement	\$5.2	\$7.2	\$6.5	\$4.8	\$2.2
New Construction	\$1.9	\$3.2	\$3.3	\$1.7	\$0.1
Operating	\$5.4	\$5.5	\$5.7	\$6.1	\$6.4
Total	\$12.5	\$15.9	\$15.5	\$12.6	\$8.6

Sewer Revenue Projections



	2015	2016	2017	2018	2019
■ PIF	\$2.9	\$3.8	\$3.1	\$3.4	\$3.7
■ Rates-Depreciation	\$2.7	\$3.1	\$3.0	\$3.1	\$3.1
■ Rates-Debt Service	\$0.0	\$0.5	\$0.5	\$0.5	\$0.9
■ Rates-O&M	\$6.7	\$6.3	\$6.6	\$6.7	\$6.7
Total	\$12.3	\$13.7	\$13.2	\$13.8	\$14.4

Projected Sewer Operating Cash Flow



2017 Residential Rate Impacts

- System wide
 - Average combined water and sewer bill increases by \$0.55/month
- If within water budget
 - Average combined water and sewer bill **decreases** by \$2.80/month
 - One time adjustment because of the transition from uniform rate to water budget rates

Plant Investment Fees

	2016	2017
Water	\$10,800	\$10,800
Sewer	\$5,450	\$5,300
Total W&S PIF	\$16,250	\$16,100



Operating Budget

- No new positions or programs
- Continue succession planning program

Budget Drivers - Capital

Continuing projects

- Water treatment plants rehab projects – \$38 million
- Windy Gap firming - \$37 million
- These 2 projects require an estimated **\$53 million** bond in 2017
- Milton Seaman permitting - \$4 million
 - Water resources advertisement campaign
 - \$600,000 - 2 year project
 - Water efficiency tactical team (WETT)
 - \$400,000 - 2 year project



Budget Drivers - Capital

- Continuing projects
 - WPCF rehab projects
 - Primary Clarifier Pumping and Thickening - \$3 million
 - Nitrification Phase 2 - \$11 million

Recommended Projects & Additions - Approximate Rate Impact

Project	10 Year Rate Impact	Annual Rate Impact
W.R Advertisement Campaign/WETT	0.2%	0.02%
Succession program	0.1%	0.01%



Questions?

W&S Projected Revenues and Expenses

Water

Revenue Summary

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Total 2017-2026</u>
User Charges	\$33.2	\$34.6	\$35.0	\$36.4	\$425.6
Plant Investment Fees	\$6.2	\$7.7	\$6.2	\$7.0	\$89.3
Hydrant Water Sales	\$1.0	\$0.8	\$0.4	\$0.4	\$4.2
Miscellaneous Revenue	\$1.6	\$1.6	\$1.4	\$1.4	\$16.2
Sale of Assets (Includes Windy Gap Unit Sale)	\$6.5	\$6.5	\$0.0	\$0.0	\$0.0

(Millions)

Expense Summary

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Total 2017-2026</u>
O&M (Includes Assessments)	\$17.3	\$17.6	\$17.4	\$18.2	\$222.2
Water Acquisition	\$5.9	\$11.4	\$7.6	\$6.8	\$68.5
Water Construction	\$22.4	\$24.8	\$9.3	\$38.2	\$77.8
Capital Replacement	\$10.1	\$16.7	\$25.1	\$21.7	\$125.3
Debt Service	\$9.4	\$9.3	\$11.5	\$12.5	\$137.5

New Bonds

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Total 2017-2026</u>
Water Construction	\$0.0	\$0.0	\$30.0	\$0.0	\$30.0
Water Acquisition	\$0.0	\$0.0	\$0.0	\$0.0	\$39.0
Water Replacement	\$0.0	\$0.0	\$23.0	\$0.0	\$49.0

Sewer

Revenue Summary

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Total 2017-2026</u>
User Charges	\$9.3	\$9.6	\$9.9	\$10.2	\$118.8
Plant Investment Fees	\$2.7	\$3.8	\$3.1	\$3.4	\$44.6
Miscellaneous Revenue	\$0.2	\$0.2	\$0.2	\$0.2	\$1.6

Expense Summary

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Total 2017-2026</u>
O&M	\$5.8	\$5.4	\$5.7	\$6.1	\$72.9
Sewer Construction	\$3.4	\$5.4	\$3.3	\$1.7	\$21.3
Capital Replacement	\$3.3	\$8.7	\$6.5	\$4.8	\$40.0
Debt Service	\$0.6	\$0.5	\$0.5	\$0.5	\$10.0

New Bond Issues

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Total 2017-2026</u>
Sewer Construction	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Sewer Replacement	\$6.0	\$0.0	\$0.0	\$0.0	\$8.0

W&S Totals

	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>	<u>Total 2017-2026</u>
O&M	\$23.1	\$23.0	\$23.1	\$24.3	\$295.1
Capital-New & Replacement	\$39.3	\$55.6	\$44.2	\$66.4	\$264.4
Acquisition	\$5.9	\$11.4	\$7.6	\$6.8	\$68.5

Water Pro-Forma 2017

Line No.	Total for 2017	Operating	Construction	Replacement	Acquisition	
Operating Revenue:						
1	34,961,297	34,961,297				
2	6,178,660		6,178,660			
3	375,000	375,000				
4	365,000				365,000	
5	102,700		102,700			
6	41,982,657	35,336,297	6,281,360	-	365,000	
Operating Expenses:						
7	16,568,971	16,467,764	101,207			
8	898,000	898,000				
9	17,466,971	17,365,764	101,207	-	-	
10	Operating Income	24,515,686	17,970,533	6,180,153	-	365,000
Non-Operating Revenue:						
11	1,430,000	1,430,000				
12	113,000	25,700	32,600	27,200	27,500	
13	114,958	114,958				
14	-					
15	53,000,000		30,000,000	23,000,000		
16	54,657,958	1,570,658	30,032,600	23,027,200	27,500	
Non-Operating Expenses:						
17	7,612,200				7,612,200	
18	34,389,560		9,303,140	25,086,420		
19	11,453,736	1,114,219	6,351,528	1,074,311	2,913,678	
20	122,065	122,065				
21	1,879,948	1,879,948				
22	55,457,509	3,116,232	15,654,668	26,160,731	10,525,878	
Interfund Revenue or (Expense)						
23	60,600	(17,129,583)	6,262,268	8,014,237	2,913,678	
24	Annual Surplus (Deficiency)	23,776,735	(704,624)	26,820,353	4,880,706	(7,219,700)
25	Beginning Fund Balance 2017	33,289,509	10,618,763	(385,025)	8,439,082	14,616,689
26	Ending Fund Balance 2017	57,066,244	9,914,139	26,435,328	13,319,788	7,396,989
27	Minimum Target Reserve		4,281,969			

Water Pro Forma 2017 - 2026

Line No.	10-year Total	Operating	Construction	Replacement	Acquisition	
Operating Revenue:						
1	421,444,179	421,444,179				
2	89,321,180		89,321,180			
3	4,184,667	4,184,667				
4	9,744,263				9,744,263	
5	1,228,835		1,228,835			
6	525,923,124	425,628,846	90,550,015	-	9,744,263	
Operating Expenses:						
7	210,864,825	209,704,606	1,160,219			
8	11,301,573	11,301,573				
9	222,166,398	221,006,179	1,160,219	-	-	
10	Operating Income	303,756,726	204,622,667	89,389,796	-	9,744,263
Non-Operating Revenue:						
11	16,176,934	16,176,934				
12	809,500	178,000	462,500	121,600	47,400	
13	1,245,579	1,245,579				
14	-					
15	118,000,000		30,000,000	49,000,000	39,000,000	
16	136,232,013	17,600,513	30,462,500	49,121,600	39,047,400	
Non-Operating Expenses:						
17	68,461,487				68,461,487	
18	203,047,634		77,796,264	125,251,370		
19	137,453,535	3,339,397	60,090,081	26,804,066	47,219,991	
20	1,065,729	1,065,729				
21	21,551,497	21,551,497				
22	431,579,882	25,956,623	137,886,345	152,055,436	115,681,478	
Interfund Revenue or (Expense)						
23	556,800	(199,322,985)	59,281,906	93,377,889	47,219,990	
24	Total Surplus (Deficiency)	8,965,657	(3,056,428)	41,247,857	(9,555,947)	(19,669,825)
25	Beginning Fund Balance 2017	33,289,509	10,618,763	(385,025)	8,439,082	14,616,689
26	Ending Fund Balance 2026	42,255,166	7,562,335	40,862,832	(1,116,865)	(5,053,136)
27	Minimum Target Reserve		6,737,782			

Sewer Pro-Forma 2017

Line No.		Total for 2017	Operating	Construction	Replacement
Operating Revenue:					
1	User Charges	9,945,876	9,945,876		
2	Plant Investment Fees	3,121,885		3,121,885	
3	Total Operating Revenue	13,067,761	9,945,876	3,121,885	-
Operating Expenses:					
4	O&M	5,712,745	5,712,745		
5	Total Operating Expenses	5,712,745	5,712,745	-	-
6	Operating Income	7,355,016	4,233,131	3,121,885	-
Non-Operating Revenue:					
7	Miscellaneous	138,000	138,000		
8	Investment Income	24,829	13,503	9,019	2,307
9	Bond Issue	-			
10	Total Non-Operating Revenue	162,829	151,503	9,019	2,307
Non-Operating Expenses:					
11	Capital	9,821,655		3,295,395	6,526,260
12	Debt Service	531,144			531,144
13	Art In Public Places	32,805		32,805	
14	Water Fund for Services and Meters	82,153	82,153		
15	General Fund for General Administration	547,117	445,910	101,207	
16	Total Non-Operating Expenses	11,014,874	528,063	3,429,407	7,057,404
Interfund Revenue or (Expense)					
17	Total Interfund Revenue (Expense)	-	(3,503,961)	-	3,503,961
18	Annual Surplus (Deficiency)	(3,497,029)	352,610	(298,503)	(3,551,136)
19	Beginning Fund Balance 2017	11,680,156	5,224,793	3,757,009	2,698,354
20	Ending Fund Balance 2017	8,183,127	5,577,403	3,458,506	(852,782)
21	Minimum Target Reserve		1,408,622		

Sewer Pro Forma 2017 - 2026

Line No.		10-year Total	Operating	Construction	Replacement
Operating Revenue:					
1	User Charges	118,785,400	118,785,400		
2	Plant Investment Fees	44,590,519		44,590,519	
3	Total Operating Revenue	163,375,919	118,785,400	44,590,519	-
Operating Expenses:					
4	O&M	72,909,041	72,909,041		
5	Total Operating Expenses	72,909,041	72,909,041	-	-
6	Operating Income	90,466,878	45,876,359	44,590,519	-
Non-Operating Revenue:					
7	Miscellaneous	1,524,639	1,524,639		
8	Investment Income	427,226	107,910	292,799	26,517
9	Bond Issue	8,000,000			8,000,000
10	Total Non-Operating Revenue	9,951,865	1,632,549	292,799	8,026,517
Non-Operating Expenses:					
11	Capital	61,330,738		21,332,810	39,997,928
12	Debt Service	10,031,458			10,031,458
13	Art In Public Places	257,554		257,554	
14	Water Fund for Services and Meters	988,025	988,025		
15	General Fund for General Administration	6,272,077	5,111,858	1,160,219	
16	Total Non-Operating Expenses	78,879,852	6,099,883	22,750,583	50,029,386
Interfund Revenue or (Expense)					
17	Total Interfund Revenue (Expense)	-	(43,952,090)	-	43,952,090
18	Total Surplus (Deficiency)	21,538,891	(2,543,065)	22,132,735	1,949,221
19	Beginning Fund Balance 2017	11,680,156	5,224,793	3,757,009	2,698,354
20	Ending Fund Balance 2026	33,219,047	2,681,728	25,889,744	4,647,575
21	Minimum Target Reserve		2,221,200		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	CITY OF GREELEY - WATER & SEWER DEPARTMENT 10 YEAR CIP for Water and Sewer Projects - 2017-2026														
2	<i>Revised June 1, 2016</i>														
3	POTABLE DEMAND				<u>YEAR</u>	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
4	Projected Peak Potable demand (base)					50.3	50.5	50.8	51.3	51.8	52.3	52.8	53.3	53.9	54.4
5	DESIGN-Peak potable demand (10% safety)					55.3	55.6	55.8	56.4	57.0	57.5	58.1	58.7	59.3	59.9
6															
7	Bellvue System														
8	Capacity of Bellvue Plant					32	32	52	52	52	52	52	52	52	52
9	Capacity of Bellvue Transmission Lines					26.6	26.6	31	31	31	31	31	31	31	31
10	Capacity of Bellvue System					26.6	26.6	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
11	Boyd System														
12	Capacity of Boyd Plant					38	38	38	38	38	38	38	38	38	38
13	Capacity of Boyd Pipelines					40	40	40	40	40	40	40	40	40	40
14	Capacity of Boyd system					38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
15	Combined System Capacities														
16						64.6	64.6	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
17	WATER				PROJECT TOTALS										
18	CONSTRUCTION 405														
19	Supply	Driver	Period	Description	2017 to 2026	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
20	Milton Seaman Permitting	Master Plan	Long Term	Enlargement adds raw water storage for drought protection	3,958,000	1,250,000	1,250,000	1,250,000	208,000						
21	Milton Seaman & Bellvue Waterline Mitigation	Master Plan	Long Term	Mitigation for impacts of Milton Seaman Expansion & Bellvue Pipeline	3,200,000	100,000	100,000					750,000	750,000	750,000	750,000
22	Windy Gap FIRMING	Master Plan	Long Term	Firms water rights for 49 Windy Gap units	37,075,000	575,000	36,500,000								
23	30" Pleasant Valley Pipeline Connection	Master Plan	Mid Term	Greeley & Tri-Dist line from Pleasant Valley pipeline to Overland ponds	809,000							109,000	700,000		
24	Pump Station at Overland Ponds	Master Plan	Mid Term	Greeley & Tri-Dist PS to remove water from river; hold to time release	300,000								300,000		
25	Treatment														
26	Bellvue 2mg Clearwell	Operations	Short to Long Term	Best practice 10% of max daily production, need 4 mg have 2mg	5,014,400				490,000	4,524,400					
27	Boyd WTP-UV @ 40mgd	Regulatory	Long Term	Additional treatment if required. Potential future State requirements	5,692,000									883,000	4,809,000
28	Residuals Gravity Thickener-Bellvue	Operations	Short Term	2nd residual gravity thickener to respond to increased loads after fires	1,900,040				184,000	1,716,040					
29	Transmission & Distribution														
30	Finished storage 10MG	Master Plan	Mid to Long Term	Master Plan shows additional 15 mg near Gold Hill, 5 in 2015, 10 in 2022	10,000,000							10,000,000			
31	Bellvue Treated Water Line Permitting	Master Plan	Short Term	Permitting activities for the Northern Segment	50,000	50,000									
32	Bellvue Transmission Program (60")	Master Plan	Short to Long Term	Northern Segment will allow limited gravity service to Gold Hill.	1,401,500	1,353,000	17,200	31,300							
33	Distribution Line Extension & Oversizing	Operations & Master Plan	Short Term	Development reimbursement for water line oversizing	2,284,000	1,151,000	115,200	116,200	122,300	129,300	130,000	130,000	130,000	130,000	130,000
34	Land Acquisition & Management	Administration	On-going	Easements info into GIS & protects rights, acquire easements	1,500,000	135,000	140,000	145,000	150,000	155,000	155,000	155,000	155,000	155,000	155,000
35	New Construction Meters	Operations	On-going	City installed meters for new development (reimbursed)	350,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000
36	Water Taps	Operations	On-going	City installed taps for new development or removing compound taps	750,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
37	SUB-TOTAL 405 PROJECTS				74,283,940	4,724,000	38,232,400	1,652,500	1,264,300	6,634,740	395,000	11,254,000	2,145,000	2,028,000	5,954,000

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
38	WATER				PROJECT											
39	REPLACEMENT 406				TOTALS	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	
40	Supply	Driver	Period		2017 to 2026											
41	Ancillary system Improvements	Maintenance	On-going	Irrigation ditch system assessments and City maint.	3,650,000	365,000	365,000	365,000	365,000	365,000	365,000	365,000	365,000	365,000	365,000	
42	Non-Potable Replacement Rehab.	Maintenance	On-going	Maintenance to non-potable irrigation system	1,302,000	126,000	126,000	126,000	132,000	132,000	132,000	132,000	132,000	132,000	132,000	
43	Non-Potable Master Plan	Master Plan	Short Term	Non-potable distribution analysis based off of Water Resources MP	50,000	50,000										
44	Poudre River Turnout Rehabilitation	Maintenance	Short to Long Term	Bellvue WTP 60 yr old Poudre River turnout ogee weir	560,000	560,000										
45	Water Resource Advertisement Campaign	Master Plan	Short Term	Ad campaign in support of Milton Seaman permitting	600,000	300,000	300,000									
46	Water Efficiency Tactical Team	Master Plan	Short Term	Multi-pronged study related to managing City's water resources	400,000	200,000	200,000									
47	Water Operations Master Plan	Master Plan	Short to Long Term	Knowledge capture project transferring paper data to electronic	100,000	100,000										
48	Boyd Water Quality Study	Operations	Long Term	Source water treatment to improve water quality for Boyd	400,000			250,000	150,000							
49	Milton Seaman Outlet Works Evaluation	Operations	Short Term	Alternatives evaluation for reservoir outlet gates	300,000	300,000										
50	Milton Seaman Bridge Replacement	Operations	Short Term	Replace existing south bridge into Milton Seaman	645,000	645,000										
51	Treatment															
52	Bellvue WTP General Rehab.	Maintenance	On-going	Small or unanticipated maintenance projects	2,166,000	355,000	283,000	191,000	191,000	191,000	191,000	191,000	191,000	191,000	191,000	
53	Boyd WTP- General Rehab.	Maintenance	On-going	Small or unanticipated maintenance projects	1,893,000	373,000	240,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	
54	Water Security Projects	Operations	On-going	System security identified after 9/11. Respond to any new requirements	170,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	17,000	
55	Bellvue Needs Assessment Projects	Maintenance	Short Term	Design/construct improvements to filters and other systems at Bellvue	24,747,000	22,722,000	130,000	1,455,000	440,000							
56	Boyd Needs Assessment Projects	Maintenance	Short Term	Design/construct improvements to enable Boyd to operate in winter	14,695,900	11,907,400	86,500	1,129,000	1,064,000	509,000						
57	Boyd Plant #2 Demolition	Maintenance	Short Term	Demolition of existing plant constructed in 1967	456,000	456,000										
58	Transmission & Distribution															
59	Transmission System Rehab.	Maintenance	On-going	Replacement and rehabilitation of transmission lines	16,290,000	1,906,000	1,752,000	1,579,000	1,579,000	1,579,000	1,579,000	1,579,000	1,579,000	1,579,000	1,579,000	
60	Distribution Pipeline Replacements	Maintenance	On-going	Replaces lines based on leak history or increase size for operation	10,433,000	1,908,000	1,325,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	900,000	
61	Valve Replacement	Maintenance	On-going	Replaces failed valves	990,000	99,000	99,000	99,000	99,000	99,000	99,000	99,000	99,000	99,000	99,000	
62	Fire Hydrant Replacement	Maintenance	On-going	Replace hydrants that do not meet current city standards	770,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	77,000	
63	Meter Replacement	Maintenance	On-going	Replace meters that become inaccurate or fail	2,425,000	325,000	325,000	325,000	325,000	325,000	160,000	160,000	160,000	160,000	160,000	
64	Treated Water Reservoir Rehabilitation	Maintenance	Short Term	Gold Hill joint repairs and system repairs at Moiser Hill	489,000	36,000	36,000	88,500	88,500	40,000	40,000	40,000	40,000	40,000	40,000	
65	Gold Hill Tank Repair	Maintenance	Short Term	Repair floor joints at the 15 MG Gold Hill Reservoir		1,262,600	27,000									
66	Instrumentation & Controls	Operations	On-going	Maintains SCADA systems and control panels	2,000,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	
67	Capital Outlay Replacement	Maintenance	On-going	Replacement of rolling stock: trucks, loaders, etc.	6,250,000	1,097,000	570,000	583,000	510,000	490,000	600,000	600,000	600,000	600,000	600,000	
68	Transmission Customers Re-Route	Operations	Short Term	Existing transmission line customers moved to other water providers	2,150,000						450,000	400,000	450,000	400,000	450,000	
69	W&S Facilities Program	Operations	Long Term	Site will be developed to house W&S construction crews/equipment	4,000,000			4,000,000								
70	Distribution System Model & Master Plan	Master Plan	Short to Long Term	Study to determine distribution system improvements needed	655,000	355,000	300,000									
71	Asset Management System	Operations	Short to Long Term	Hardware and software for asset management system started 2013	45,000	15,000	15,000	15,000								
72	Bellvue Raw Water Line Replacement	Maintenance	Short Term	Rehabilitate raw water lines at Bellvue WTP	16,240,600			373,000	660,000	6,874,300	8,333,300					
73	Bellvue Raw Water Line Permitting	Master Plan	Short term	Permitting activities for the Northern Segment	500,000			250,000								
74	SUB-TOTAL 406 PROJECTS				116,662,100	45,757,000	6,723,500	12,182,500	6,957,500	11,958,300	13,303,300	4,920,000	4,970,000	4,920,000	4,970,000	
75	WATER ACQUISITIONS 407	Driver	Period													
76	Equalizer	Master Plan	Long Term	Reservoir and exchanges for higher yields from GLIC	4,300,000	50,000					4,250,000					
77	Overland Trail	Master Plan	Long Term	Greeley and Tri-Districts for approx 2,350 ac-ft storage	6,230,000	435,000	35,000						5,760,000			
78	Development of Parcel B, Poudre Ponds	Master Plan	Long Term	Augmentation storage and return flows	4,623,000	673,000	375,000	375,000			3,200,000					
79	Future Water Acquisition	Master Plan	Long Term	Water rights for 10,000 ac-ft	49,350,000	6,550,000	6,550,000	6,550,000	6,550,000	6,550,000	6,550,000	6,550,000	3,500,000			
80	Greeley Irrigation Company Change Case	Master Plan	Long Term	Water use court system change from irrigation to municipal use	300,000	150,000	150,000									
81	Rockwell Ranch Change Case	Master Plan	Long Term	Water use court system change from irrigation to municipal use	300,000	200,000	100,000									
82	Larimer & Weld Companies Change Case	Master Plan	Long Term	Water use court system change from irrigation to municipal use	600,000	200,000	200,000	200,000								
83	Leprino Produced Water Claim	Master Plan	Long Term	Water use court system to claim credit for Leprino produced water	500,000	200,000	150,000	150,000								
84	SUB-TOTAL 407 PROJECTS				66,203,000	8,458,000	7,560,000	7,275,000	6,550,000	6,550,000	14,000,000	6,550,000	9,260,000			
85	WATER TOTALS (405+406+407)															
86						257,149,040	58,939,000	52,515,900	21,110,000	14,771,800	25,143,040	27,698,300	22,724,000	16,375,000	6,948,000	10,924,000

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
87	SEWER				PROJECT TOTALS										
88	CONSTRUCTION 402														
89															
90	Collection	Driver	Period	Description	2017 to 2026	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
91	N. Greeley Sewer Phase II	Master Plan	Mid to Long Term	Provides service north of the Poudre and along HWY 85	5,758,000						5,758,000				
92	Additional Sanitary Sewer MH's	Operations	Short Term	Manholes added for operation and maintenance benefits	590,000	43,000	53,000	53,000	63,000	63,000	63,000	63,000	63,000	63,000	63,000
93	Sewer Taps	Operation	Short Term	Sewer taps for new development (reimbursed)	100,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
94	Poudre Trunk Phase II	Master Plan	Mid to Long Term	Provides service west of 83rd Ave to 120th Ave	2,450,500	420,000			2,030,500						
95	83rd Ave Sewer Project	Master Plan	Mid to Long Term	Provides service from 10th St and 83rd Ave to Poudre Trunk Phase II	1,439,000	205,000			1,234,000						
96	Highland Capacity Improvements	Maintenance	Short Term	Master Plan identified sewer that does not meet city std capacity	2,062,500			170,000	1,892,500						
97	Treatment														
98	New Primary Clarifier (1 @ 100 dia)	Master Plan	Long Term	When flows require add clarifier expands hydraulic capacity of WPCF	4,985,000							235,000	4,750,000		
99	SUB-TOTAL 402 PROJECTS				17,385,000	678,000	63,000	233,000	5,230,000	73,000	5,831,000	308,000	4,823,000	73,000	73,000
100	SEWER				PROJECT TOTALS										
101	REPLACEMENT 403														
102	Collection	Driver	Period		2017 to 2026	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
103	Sewer Collection Rehabilitation	Maintenance	Short Term	Lines smaller than 6" identified for replacement and system rehab	3,063,000	406,500	402,000	319,500	297,500	262,500	275,000	275,000	275,000	275,000	275,000
104	Trenchless Main and Collector Rehab	Maintenance	On-going	Inpipe Cure-in-Place repair of sanitary system	4,971,000	575,000	732,000	518,000	448,000	448,000	450,000	450,000	450,000	450,000	450,000
105	Manhole Rehabilitation	Maintenance	On-going	Repair corroded manholes with cementitious material	110,000		55,000		55,000						
106	Lift Station Rehabilitation	Maintenance	Short Term	Rehab existing lift station and update to current standards	1,495,500	595,500	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
107	Manhole & Pipe Replacement	Maintenance	On-going	MH lids replaced during city street overlays	1,395,000	320,000	155,000	115,000	115,000	115,000	115,000	115,000	115,000	115,000	115,000
108	Wastewater Flow Monitoring Program	Maintenance	Short Term	Install flow meters on trunk lines for flow monitoring	250,000	50,000	50,000	50,000	50,000	50,000					
109	Treatment														
110	General Rehabilitation Projects	Maintenance	On-going	Small or unanticipated maintenance projects	1,686,600	240,300	160,700	160,700	160,700	160,700	160,700	160,700	160,700	160,700	160,700
111	Sewer Security Projects	Regulatory	Long Term	System security identified after 9/11. Respond to any new requirements	250,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
112	Dewatering Centrifuge	Maintenance	Short Term	MP identified anticipated replacement of 1995 centrifuge.	1,106,300				136,300	970,000					
113	Replace Influent Raw Sewage Pumps (3)	Maintenance	Short Term	1995 pumps which are beginning to have more frequent repairs	1,011,600					1,011,600					
114	900 KW Generator	Maintenance	Short Term	MP identified anticipated replacement of 1985 generator	708,800					708,800					
115	Rotomat Barscreens @ Headworks (3)	Maintenance	Short Term	MP identified anticipated replacement of 1994 Barscreen	1,002,000							1,002,000			
116	Dewatered Sludge Cake Pump	Maintenance	Short Term	MP identified anticipated replacement of 1996 pump	592,100				71,800	520,300					
117	Convert Sludge Storage Tank to Primary Digester	Maintenance/Operations	Short to Long Term	Add digester capacity	1,361,300						154,300	1,207,000			
118	WPCF Stream Temperature Assessment	Regulatory	Short to Long Term	Study effluent temperature issues for possible new regulations	200,000	50,000	50,000	50,000	50,000						
119	Nitrification Project Phase II	Regulatory	Long Term	Plant upgrade to meet upcoming biological nutrient reduction regs	11,235,700			956,100	10,279,600						
120	WPCF Solids Processing Improvements	Maintenance	Short Term	Plant maintenance/replacement that will improve solids processing	535,400	535,400									
121	WPCF Secondary Clarifier Mechanisms Replace	Maintenance	Short Term	Replace secondary clarifier mechanisms	1,117,370			138,570	978,800						
122	Studies & Others														
123	San. Sewer Mast. Plan Update	Master Plan	Long Term	Update 2008 Collection Master Plan	605,000		605,000								
124	Capital Outlay Replacement	Maintenance	On-going	Replacement of rolling stock: trucks, loaders, etc.	1,596,000	767,000	42,000			400,000	50,000		85,000	202,000	50,000
125	WPCF Solids Handling & Treatment MP	Master Plan	Long Term	Update 2011 WPCF Solids Handling & Treatment Master Plan	340,300	340,300									
126	SUB-TOTAL 403 PROJECTS				34,632,970	3,905,000	2,376,700	2,432,870	12,767,700	4,771,900	1,330,000	3,334,700	1,210,700	1,327,700	1,175,700
127															
128	SEWER TOTALS (402+403)=				52,017,970	4,583,000	2,439,700	2,665,870	17,997,700	4,844,900	7,161,000	3,642,700	6,033,700	1,400,700	1,248,700
129	WATER & SEWER TOTALS=				309,167,010	63,522,000	54,955,600	23,775,870	32,769,500	29,987,940	34,859,300	26,366,700	22,408,700	8,348,700	12,172,700

Water & Sewer Capital Program

2017-2021

405 – Water New Construction Fund

Windy Gap Firming

Project Number:	197	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Construction Supply	Regions:	5- Outside City
Fund:	405 - Water Construction	Location:	Proposed Chimney Hollow Reservoir near Carter Lake
Project Manager:	Eric Reckentine	Budget Unit #:	4050088088070000
Project Status:	Funded		

Description:

The project will fund the Northern Water's Windy Gap Firming Project (WGFP) which is expected to deliver a firm annual yield of 4,000 acre-feet. The final Environmental Impact Statement has been received and Northern Water is negotiating a carriage contract with the Bureau of Reclamation before obtaining water quality certification from the state and a 404 permit for the U.S. Corps of Engineers.

Discussion of Progress:

Permitting ongoing

Justification:

Due to storage limitations within the Colorado Big Thompson (C-BT) and other factors, Windy Gap owners haven't been able to rely on Windy Gap to meet a portion of their current water needs or future requirements. The Windy Gap Firming project is proposed to improve the yield of water deliveries from the existing Windy Gap project to participating Windy Gap owners.

Revenue Detail:

None

Impact on Operating Budget:

Water resource assessments will go up an unknown amount once the project is built and Northern Water starts assessing Greeley for its upkeep and operation.

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
	Fund Balance	-	36,500,000	-	-	-	36,500,000
4611	Development Fees	575,000	-	-	-	-	575,000
	Total Revenue	\$575,000	\$36,500,000	-	-	-	\$37,075,000
Expense							
8202	Construction	-	36,500,000	-	-	-	36,500,000
8206	Design Fees	575,000	-	-	-	-	575,000
	Total Expense	\$575,000	\$36,500,000	-	-	-	\$37,075,000
Net Total							
		-	-	-	-	-	-

Bellvue Two Million Gallon Clearwell

Project Number:	378	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Construction Treatment	Regions:	5- Outside City
Fund:	405 - Water Construction	Location:	Bellvue Filter Plant
Project Manager:	Sam Boone	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

Design and construct a 2 million gallon (mg) clearwell, piping, and chemical injection in tandem with the existing clearwell.

Discussion of Progress:

Planning

Justification:

Colorado Department of Health & Environment (CDPHE) Design Criteria requires sufficient storage volume to backwash several filters in rapid succession without the filters having to follow fluctuations in water use. Design criteria also requires two clearwell compartments. We do not currently meet CDPHE guidelines; plant flows currently have to be raised four to six million gallons per day (mgd) during filter backwashing and there is only one compartment in the existing clearwell.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	-	-	-	490,000	4,524,400	5,014,400
	Total Revenue	-	-	-	\$490,000	\$4,524,400	\$5,014,400
Expense							
8202	Construction	-	-	-	-	4,390,000	4,390,000
8206	Design Fees	-	-	-	440,000	-	440,000
8214	Legal Publications	-	-	-	-	500	500
8232	Project Management	-	-	-	20,000	50,000	70,000
8236	Soils Investigation	-	-	-	25,000	-	25,000
8238	Surveying	-	-	-	5,000	-	5,000
8240	Testing And Inspection	-	-	-	-	40,000	40,000
9303	Public Art Fund	-	-	-	-	43,900	43,900
	Total Expense	-	-	-	\$490,000	\$4,524,400	\$5,014,400
Net Total							
		-	-	-	-	-	-

Bellvue Residuals Gravity Thickener

Project Number:	2151	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Construction Treatment	Regions:	5- Outside City
Fund:	405 - Water Construction	Location:	Bellvue Filter Plant
Project Manager:	Sam Boone	Budget Unit #:	4050088083990000
Project Status:	Funded		

Description:

Design in 2020 and construct in 2021 a 2nd residuals gravity thickener with cover at the Bellvue Water Treatment Plant.

Discussion of Progress:

Planning

Justification:

Phase I of the residuals handling facilities was designed for a plant production rate of 25 million gallons per day (mgd). Current plant rating by the State is 35 mgd. The wild fires of 2011 and 2012 and the flooding in 2013 have significantly altered the raw water quality requiring increased chemical dosing with increased residuals production. The 2nd gravity thickener will provide acceptable solids loading for these increases and increased production.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	-	-	-	184,000	1,716,040	1,900,040
	Total Revenue	-	-	-	\$184,000	\$1,716,040	\$1,900,040
Expense							
8202	Construction	-	-	-	-	1,654,000	1,654,000
8206	Design Fees	-	-	-	166,000	-	166,000
8214	Legal Publications	-	-	-	-	500	500
8232	Project Management	-	-	-	8,000	25,000	33,000
8236	Soils Investigation	-	-	-	10,000	-	10,000
8240	Testing And Inspection	-	-	-	-	20,000	20,000
9303	Public Art Fund	-	-	-	-	16,540	16,540
	Total Expense	-	-	-	\$184,000	\$1,716,040	\$1,900,040
Net Total							
		-	-	-	-	-	-

Bellvue Transmission Program - 60-inch

Project Number:	123	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Construction Transmission & Distribution	Regions:	5- Outside City
Fund:	405 - Water Construction	Location:	Bellvue transmission line-Laporte area
Project Manager:	Dan Moore	Budget Unit #:	4050088088180000
Project Status:	Funded		

Description:

This project is the construction of the Northern Segment of the Bellvue Transmission Main, six miles of the 60-inch line between the end of the completed line at Shields in Fort Collins to the Bellvue Filter Plant. Construction has begun as Corps of Engineers' verification of a Nationwide 12 permit for the line segment has been obtained.

Discussion of Progress:

Phase 2 tunnel construction scheduled for completion June 2017. Warranty ends June 2019.

Justification:

To secure Greeley's water future, the 2003 Water Master Plan instituted a policy to expand the transmission system when demand reaches 90% of system capacity. The 60" transmission pipeline, which is 29 miles long, is being built in multiple segments over several years to connect the Bellvue Water Treatment Plant to customers in Greeley. Sections of this pipeline have passed through developing areas in Fort Collins and Windsor. The Northern Segment will pass through areas of unincorporated Larimer County. The project was 80% (24 miles) complete at the beginning of 2016. The Northern Segment is needed to supply water by gravity to the Gold Hill treated water storage reservoirs.

Revenue Detail:

The new pipeline may allow less use of the Boyd Filter Plant which is more expensive to run than the Bellvue Filter Plant

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	1,353,000	17,200	31,300	-	-	1,401,500
	Total Revenue	\$1,353,000	\$17,200	\$31,300	-	-	\$1,401,500
Expense							
8204	Contingency	1,000,000	-	-	-	-	1,000,000
8206	Design Fees	30,000	-	-	-	-	30,000
8212	Land/Building	150,000	10,000	15,000	-	-	175,000
8226	Permits,Fees, Etc	30,000	-	-	-	-	30,000
8229	Professional Services	20,000	-	-	-	-	20,000
8232	Project Management	50,000	5,000	10,000	-	-	65,000
8240	Testing And Inspection	60,000	2,000	6,000	-	-	68,000
9303	Public Art Fund	13,000	200	300	-	-	13,500
	Total Expense	\$1,353,000	\$17,200	\$31,300	-	-	\$1,401,500
Net Total							
		-	-	-	-	-	-

Distribution Line Extension and Oversizing

Project Number:	124	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Construction Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	405 - Water Construction	Location:	City wide
Project Manager:	Dan Moore	Budget Unit #:	4050088088050000
Project Status:	Funded		

Description:

This program provides for reimbursement to developers for installing oversized pipe at the request of the City. The program can also fund extensions between completed subdivisions to improve the pipe network system. Anticipated projects for 2017 construction will connect the Spanish Colony to "C" Street. Oversizing reimbursement is anticipated for Boomerang Ranch, Northridge, and Owl Ridge subdivisions.

Discussion of Progress:

Annual program

Justification:

Provides the means for the City to oversize pipes being installed by developers and to extend mains as necessary for the benefit of the entire system. Oversizing and main extensions are dependent upon development and master grid sizing plans. As a result, improved flow, pressure, and system reliability can be built into the future and existing distribution system. Overall cost to the developer is minimal and the City saves mobilization costs.

Revenue Detail:

This program is in place to oversize water pipes in coordination with new development. Expenditures are usually at least partially reimbursable.

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	1,151,000	115,200	116,200	122,300	129,300	1,634,000
Total Revenue		\$1,151,000	\$115,200	\$116,200	\$122,300	\$129,300	\$1,634,000
Expense							
8202	Construction	750,000	100,000	101,000	107,000	114,000	1,172,000
8203	Construction - City Depts	5,000	7,000	7,000	7,000	7,000	33,000
8204	Contingency	70,000	-	-	-	-	70,000
8206	Design Fees	100,000	-	-	-	-	100,000
8212	Land/Building	100,000	-	-	-	-	100,000
8226	Permits, Fees, Etc	20,000	-	-	-	-	20,000
8232	Project Management	25,000	1,000	1,000	1,000	1,000	29,000
8234	Repair/Maintenance Supplies	-	6,000	6,000	6,000	6,000	24,000
8240	Testing And Inspection	70,000	-	-	-	-	70,000
9303	Public Art Fund	11,000	1,200	1,200	1,300	1,300	16,000
Total Expense		\$1,151,000	\$115,200	\$116,200	\$122,300	\$129,300	\$1,634,000
Net Total							
		-	-	-	-	-	-

Land Acquisition and Management

Project Number:	125	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Construction Transmission & Distribution	Regions:	5- Outside City
Fund:	405 - Water Construction	Location:	City wide
Project Manager:	Dan Moore	Budget Unit #:	4050088088110000
Project Status:	Funded		

Description:

This annual program supports contract employees and consultants to acquire new easements and property and to research, compile, and defend existing easements and lands. A new filing system is being created utilizing the GIS to efficiently catalog for quick retrieval over 100 years of easement and land records that have been buried in hundreds of project and property files.

Discussion of Progress:

Annual program

Justification:

Professional expertise is required to acquire new land and easements and to protect Greeley's existing properties for the installation, operation, and maintenance of Greeley's pipelines, treatment plants, reservoirs, pump stations and other facilities. This project also provides the department with right-of-way expertise to protect our existing facilities from development on and around those facilities outside of the Greeley city limits. Proper cataloging of existing records for rapid retrieval provides good customer service to developers, contractors, and City staff.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	135,000	140,000	145,000	150,000	155,000	725,000
Total Revenue		\$135,000	\$140,000	\$145,000	\$150,000	\$155,000	\$725,000
Expense							
8212	Land/Building	135,000	140,000	145,000	150,000	155,000	725,000
Total Expense		\$135,000	\$140,000	\$145,000	\$150,000	\$155,000	\$725,000
Net Total							

New Construction Meters

Project Number:	121	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Construction Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	405 - Water Construction	Location:	City wide
Project Manager:	Jeff Littell	Budget Unit #:	4050088088080000
Project Status:	Funded		

Description:

This program purchases new meters for resale to property owners or developers for new water service connections. To maintain quality and uniformity, the customer is required to purchase all system meters from the City. This is an on-going project.

Discussion of Progress:

Annual program

Justification:

City ordinance requires a meter on every tap. The cost of new meters in this account is offset by the sale of these meters to customers. Providing meters to customers assures the proper meter is installed and compatible with our automated meter reading and billing system. The cost of each meter varies from \$200 to \$11,850.

Revenue Detail:

New customers = new revenue sources

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	35,000	35,000	35,000	35,000	35,000	175,000
	Total Revenue	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$175,000
Expense							
8208	Furniture, Fixtures &	27,500	27,500	27,500	27,500	27,500	137,500
8234	Repair/Maintenance Supplies	2,000	2,000	2,000	2,000	2,000	10,000
8244	Capital Equipment >\$5,000	5,500	5,500	5,500	5,500	5,500	27,500
	Total Expense	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$175,000
Net Total							

Water Taps

Project Number:	122	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Construction Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	405 - Water Construction	Location:	City wide
Project Manager:	Jeff Littell	Budget Unit #:	4050088088100000
Project Status:	Funded		

Description:

The transmission/distribution crews construct taps on the water system lines for both its own operations and those required by new customers. Tapping valves and pipe related materials used for tap construction are purchased from the Inventory account. All applicable costs are included in this account to complete the tap (asphalt, flow fill, concrete, etc.)

Discussion of Progress:

Annual program

Justification:

The transmission/distribution crews construct taps on the water system lines for both its own operations and those required by new customers. Tapping valves and pipe related materials used for tap construction are purchased from the Inventory Budget account. All applicable costs are included in this account to complete the tap (asphalt, flow fill, concrete, etc.). Cost recovery is only applicable for taps constructed for customers.

Revenue Detail:

New customers = new water revenue

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4461	New Meter Sales	25,000	26,265	27,594	28,990	30,440	138,289
4462	Large Meter Sales	15,000	15,759	16,556	17,394	18,232	82,941
4464	Labor & Materials	2,700	2,837	2,980	3,131	3,287	14,935
4611	Development Fees	1,529,660	5,379,043	5,598,778	6,464,014	1,867,348	20,838,843
4724	Expense Reimbursement	172,770	-	-	-	-	172,770
5632	Rents From Equipment	60,000	60,000	60,000	60,000	60,000	300,000
5902	Bond Proceeds	30,000,000	-	-	-	-	30,000,000
	Total Revenue	\$31,805,130	\$5,483,904	\$5,705,908	\$6,573,529	\$1,979,307	\$51,547,778
Expense							
8202	Construction	5,000	5,000	5,000	5,000	5,000	25,000
8203	Construction - City Depts	5,000	5,000	5,000	5,000	5,000	25,000
8216	Miscellaneous	3,500	3,500	3,500	3,500	3,500	17,500
8234	Repair/Maintenance Supplies	61,500	61,500	61,500	61,500	61,500	307,500
	Total Expense	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$375,000
Net Total		\$31,730,130	\$5,408,904	\$5,630,908	\$6,498,529	\$1,904,307	\$51,172,778

406 – Water Replacement Fund

Ancillary System Improvements

Project Number:	174	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Christie Coleman	Budget Unit #:	4060088088580000
Project Status:	Funded		

Description:

This program provides contributions for capital repairs of irrigation ditches and pumping systems of which the City is part owner.

Discussion of Progress:

Annual program

Justification:

As a part owner of various irrigation ditches, the department has the responsibility to participate in the cost and maintenance of aging ditch and lateral infrastructure.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	365,000	365,000	365,000	365,000	365,000	1,825,000
	Total Revenue	\$365,000	\$365,000	\$365,000	\$365,000	\$365,000	\$1,825,000
Expense							
8202	Construction	300,000	300,000	300,000	300,000	300,000	1,500,000
8206	Design Fees	30,000	30,000	30,000	30,000	30,000	150,000
8216	Miscellaneous	18,000	18,000	18,000	18,000	18,000	90,000
8232	Project Management	17,000	17,000	17,000	17,000	17,000	85,000
	Total Expense	\$365,000	\$365,000	\$365,000	\$365,000	\$365,000	\$1,825,000
Net Total							

Non-Potable Replacement Rehabilitation

Project Number:	425	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Roger Schmidt	Budget Unit #:	4060088088740000
Project Status:	Funded		

Description:

This item funds replacement or rehabilitation of non-potable pumps, piping, ponds, and related equipment. Water and Sewer is now responsible for maintaining non-potable assets that were Parks responsibility. This is an on-going project.

Discussion of Progress:

Ongoing effort

Justification:

Efficient economic operation of this program requires ongoing rehabilitation and replacement of features such as pumps, motors, controls, Supervisory Control and Data Acquisition (SCADA) equipment, pressure reducing valves, buildings and piping.

Revenue Detail:

None

Impact on Operating Budget:

The non-potable division has taken on assets that were being maintained by Parks. The electric budget in operating has increased to account for the increased pumping capacity.

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
	Fund Balance	-	-	6,000	-	-	6,000
5638	Funded Depreciation	126,000	126,000	126,000	132,000	132,000	642,000
	Total Revenue	\$126,000	\$126,000	\$132,000	\$132,000	\$132,000	\$648,000
Expense							
8202	Construction	25,000	25,000	30,000	30,000	30,000	140,000
8208	Furniture, Fixtures &	4,000	4,000	4,000	4,000	4,000	20,000
8216	Miscellaneous	8,000	8,000	8,000	8,000	8,000	40,000
8234	Repair/Maintenance Supplies	80,000	80,000	80,000	80,000	80,000	400,000
8244	Capital Equipment >\$5,000	9,000	9,000	10,000	10,000	10,000	48,000
	Total Expense	\$126,000	\$126,000	\$132,000	\$132,000	\$132,000	\$648,000
Net Total		-	-	-	-	-	-

Non Potable Master Plan

Project Number:	2160	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Studies	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Eric Reckentine	Budget Unit #:	4060088084080000
Project Status:	Funded		

Description:

Non-Potable distribution system analysis based on recommendations from 2014 Water Master Plan Update

Discussion of Progress:

Planning

Justification:

Driven by 2014 Master Plan update - detailed analysis of non-potable system upgrades feasibilities and costs

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	50,000	-	-	-	-	50,000
	Total Revenue	\$50,000	-	-	-	-	\$50,000
Expense							
8229	Professional Services	50,000	-	-	-	-	50,000
	Total Expense	\$50,000	-	-	-	-	\$50,000
Net Total							
		-	-	-	-	-	-

Cache la Poudre River Turnout Rehabilitation

Project Number:	841	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	Bellvue Filter Plant
Project Manager:	Christie Coleman	Budget Unit #:	4060088088830000
Project Status:	Funded		

Description:

This project will assess maintenance needs and complete needed maintenance at the Bellvue WTP Intake Structure including possibly repairing/upgrading gates; improving maintenance access to the sediment chamber; replacing valves and trash racks; and resurfacing the existing weir.

Discussion of Progress:

The design is complete. Construction is expected in the winter of 2016

Justification:

The existing concrete structure is over 60 years old and is in need of maintenance in order to ensure it's continued functionality. With out this needed maintenance, trash and sediment may enter and block the Bellvue WTP raw-water supply lines.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	560,000	-	-	-	-	560,000
	Total Revenue	\$560,000	-	-	-	-	\$560,000
Expense							
8202	Construction	550,000	-	-	-	-	550,000
8240	Testing And Inspection	10,000	-	-	-	-	10,000
	Total Expense	\$560,000	-	-	-	-	\$560,000
Net Total							
		-	-	-	-	-	-

Water Resource Advertisement Campaign

Project Number:	406.22	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Studies	Regions:	
Fund:	406 - Water Capital Replacement	Location:	Region wide
Project Manager:	Eric Reckentine	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

Water education campaign for rate payers and other key stakeholders in the region.

Discussion of Progress:

Planning

Justification:

Greeley is growing into a regional water provider. As such, we take a lead role in water planning and infrastructure. We have recognized that our decisions and projects are likely to have public support when our residents and rate-payers understand how our system works, and how we secure their water future. This program is designed to offer the education that provides that understanding.

Revenue Detail:

No additional information

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	300,000	300,000	-	-	-	600,000
	Total Revenue	\$300,000	\$300,000	-	-	-	\$600,000
Expense							
8216	Miscellaneous	50,000	50,000	-	-	-	100,000
8229	Professional Services	250,000	250,000	-	-	-	500,000
	Total Expense	\$300,000	\$300,000	-	-	-	\$600,000
Net Total							
		-	-	-	-	-	-

Water Efficiency Tactical Team

Project Number:	406.21	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Studies	Regions:	
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Eric Reckentine	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

As Greeley plans for its future, water planning is critical. A major portion of this planning includes water conservation. This activity includes work items all meant to conserve and/or efficiently use our current and future water supplies. The work items include: continued implementation of the state approved 2015 Water Conservation Plan, approval and implementation of a new landscaping code, updating the non-potable water master plan, implementing a water budget rate structure and developing a water issues messaging campaign similar to the Greeley Unexpected program.

Discussion of Progress:

Planning

Justification:

Necessary to assure that the City responds to internal and external water supply challenges that have occurred since implementation of the conservation plan and landscape code amendments.

Revenue Detail:

No additional information

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	200,000	200,000	-	-	-	400,000
	Total Revenue	\$200,000	\$200,000	-	-	-	\$400,000
Expense							
8216	Miscellaneous	50,000	50,000	-	-	-	100,000
8229	Professional Services	150,000	150,000	-	-	-	300,000
	Total Expense	\$200,000	\$200,000	-	-	-	\$400,000
Net Total							
		-	-	-	-	-	-

Water Operations Plan

Project Number:	406.10	Budget Year:	2017
Division:	850 - Water General Management	Council Priority:	Infrastructure & Growth- Public Facilities & Equip
Project Type:	Water Replacement Supply	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Adam Prior	Budget Unit #:	4060088084190000
Project Status:	Funded		

Description:

The Water Operations Plan is a SharePoint system designed for capturing and documenting the copious amounts of paper data the water and sewer department has. It is also capturing the vast knowledge of an aging workforce before they retire.

Discussion of Progress:

Thus far, the Water Operations Plan has a solid organization, functional metadata, extensive searchability features, and significant backloading of historical data/documents. It has also undergone an enhancement to include a workflow for employee files and an onboarding program.

Justification:

The Water Operations Plan is becoming a primary tool for operational, record and workflow needs in the department. As data is being uploaded and staff begins to use it more regularly, upgrading and enhancements are becoming more prevalent.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	100,000	-	-	-	-	100,000
	Total Revenue	\$100,000	-	-	-	-	\$100,000
Expense							
8229	Professional Services	90,000	-	-	-	-	90,000
8232	Project Management	10,000	-	-	-	-	10,000
	Total Expense	\$100,000	-	-	-	-	\$100,000
Net Total							
		-	-	-	-	-	-

Boyd Water Quality

Project Number:	406.15	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Supply	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	Watershed for Boyd Lake
Project Manager:	Sam Boone	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

Design and construction of treatment systems at the source waters for Boyd Lake WTP

Discussion of Progress:

Planning

Justification:

Treating source waters with effective and economical techniques will improve raw and finished water qualities, reduce treatment plant chemical dosages, reduce residuals production and handling/disposal costs, and improve customer satisfaction.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	-	250,000	150,000	-	400,000
	Total Revenue	-	-	\$250,000	\$150,000	-	\$400,000
Expense							
8202	Construction	-	-	-	150,000	-	150,000
8206	Design Fees	-	-	250,000	-	-	250,000
	Total Expense	-	-	\$250,000	\$150,000	-	\$400,000
Net Total							
		-	-	-	-	-	-

Milton Seaman Outlet Works Evaluation

Project Number:	2162	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Supply	Regions:	
Fund:	406 - Water Capital Replacement	Location:	Milton Seaman Reservoir
Project Manager:	Sam Boone	Budget Unit #:	4060088084090000
Project Status:	Funded		

Description:

An engineering evaluation of alternatives to replace the original reservoir outlet gates.

Discussion of Progress:

Planning

Justification:

The original gates have withstood over 60 years of submergence in an anarobic condition. The cast iron gate leaf seal channels have corroded and eroded to the point of compromising the brass seals allowing water to leak past the gates. This water is lost and can not be credited to our account. The condition will continue to deteriorate jeopardizing drought storage.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	300,000	-	-	-	-	300,000
	Total Revenue	\$300,000	-	-	-	-	\$300,000
Expense							
8206	Design Fees	286,000	-	-	-	-	286,000
8229	Professional Services	10,000	-	-	-	-	10,000
8232	Project Management	4,000	-	-	-	-	4,000
	Total Expense	\$300,000	-	-	-	-	\$300,000
Net Total							
		-	-	-	-	-	-

Milton Seaman Access Bridge Replacement

Project Number:	406.17	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Supply	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	Milton Seaman Reservoir
Project Manager:	Adam Prior	Budget Unit #:	4060088084280000
Project Status:	Funded		

Description:

Replace the existing south bridge with a 12' x 100' long free span steel bridge placed on new abutments.

Discussion of Progress:

Planning

Justification:

The abutments and center pier were not constructed to any design standards nor are they founded on stable subgrades. An event more destructive than the September, 2013 flood, an estimated 1 in 75 to 100 year event, could render the bridge impassable. Colorado State Engineer's Office, Dam Safety Branch requires access for manpower and equipment to Class I high hazard dams. It would allow safe construction equipment access than the existing 11' wide bridge.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	645,000	-	-	-	-	645,000
	Total Revenue	\$645,000	-	-	-	-	\$645,000
Expense							
8202	Construction	600,000	-	-	-	-	600,000
8232	Project Management	18,000	-	-	-	-	18,000
8240	Testing And Inspection	27,000	-	-	-	-	27,000
	Total Expense	\$645,000	-	-	-	-	\$645,000
Net Total							
		-	-	-	-	-	-

Bellvue Water Treatment Plant General Rehabilitation

Project Number:	705	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	Bellvue Filter Plant
Project Manager:	Sam Boone	Budget Unit #:	4060088088590000
Project Status:	Funded		

Description:

This is an annual project for the rehabilitation of buildings, heating/ventilating/air conditioning (HVAC) systems, pumps and motors, electrical replacements, chemical storage & metering, valves, and compressors. For '17 & '18: 8202 - rebuild residuals recovery, return flow, & house service pumps, asphalt repair; '17 to '21: 8234 includes 3 VFD drives on EQ basin mixers, and volumetric chemical feeders.

Discussion of Progress:

Ongoing planning, design, procurement, construction

Justification:

These items will help to maintain operational reliability, effectiveness, and improve efficiency for continued compliance with Federal and State regulations and fulfill the Water & Sewer department mandates.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	355,000	283,000	191,000	191,000	191,000	1,211,000
	Total Revenue	\$355,000	\$283,000	\$191,000	\$191,000	\$191,000	\$1,211,000
Expense							
8202	Construction	220,000	150,000	60,000	60,000	60,000	550,000
8206	Design Fees	4,000	4,000	4,000	4,000	4,000	20,000
8208	Furniture, Fixtures &	6,000	6,000	6,000	6,000	6,000	30,000
8232	Project Management	10,000	8,000	6,000	6,000	6,000	36,000
8234	Repair/Maintenance Supplies	40,000	40,000	40,000	40,000	40,000	200,000
8244	Capital Equipment >\$5,000	75,000	75,000	75,000	75,000	75,000	375,000
	Total Expense	\$355,000	\$283,000	\$191,000	\$191,000	\$191,000	\$1,211,000
Net Total		-	-	-	-	-	-

Boyd Water Treatment Plant General Rehabilitation

Project Number:	341	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	Boyd Filter Plant
Project Manager:	Sam Boone	Budget Unit #:	4060088088640000
Project Status:	Funded		

Description:

This project consists of replacing chemical feed pumps, high service pump overhauls, electrical switchgear components, grounds rehabilitation, and other mechanical items. Account 8202 includes \$45,000 for road rehab.-'17, 800 Hp high service motor rebuild @ \$25k/year-'17 to '20, \$80k/year for Boyd Lake Raw Water Pump rehab.- '17 & '18. 2017 Capital includes a 200 Hp motor & high service pump.

Discussion of Progress:

Ongoing planning, design, procurement, construction

Justification:

These items will help maintain operational reliability, effectiveness, and improve efficiency for continued compliance with Federal and State regulations. They will also help to fulfill Water and Sewer department mandates.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	373,000	240,000	160,000	160,000	160,000	1,093,000
	Total Revenue	\$373,000	\$240,000	\$160,000	\$160,000	\$160,000	\$1,093,000
Expense							
8202	Construction	200,000	150,000	75,000	75,000	75,000	575,000
8229	Professional Services	5,000	5,000	5,000	5,000	5,000	25,000
8232	Project Management	18,000	15,000	10,000	10,000	10,000	63,000
8234	Repair/Maintenance Supplies	35,000	35,000	35,000	35,000	35,000	175,000
8244	Capital Equipment >\$5,000	115,000	35,000	35,000	35,000	35,000	255,000
	Total Expense	\$373,000	\$240,000	\$160,000	\$160,000	\$160,000	\$1,093,000
Net Total							
		-	-	-	-	-	-

Security Projects-Water

Project Number:	406.20	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Treatment	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	Bellvue and Boyd Water Treatment Plants
Project Manager:	Sam Boone	Budget Unit #:	4060088087010000
Project Status:	Funded		

Description:

This program provides security requirements for the water system such as gates or cameras. The Public Health Security and Bioterrorism Preparedness and Response Act of 2002 required security and emergency planning to be incorporated into each water system's overall operations. This is an ongoing project. \$50,000 for security lighting and cameras at the Water Treatment Plants in 2016.

Discussion of Progress:

Ongoing annual program

Justification:

This budget is used for identified security and emergency response planning requirements for the water system. The Environmental Protection Agency (EPA) distributes security information and suggests improvements to water systems. Vulnerability assessment and emergency drinking water response plans are periodically required to be updated by the EPA and reviewed during the State Sanitary Inspection. All security installations to date, except for cameras, have been accomplished by using water department staff resources.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	17,000	17,000	17,000	17,000	17,000	85,000
Total Revenue		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000	\$85,000
Expense							
8203	Construction - City Depts	4,000	4,000	4,000	4,000	4,000	20,000
8208	Furniture, Fixtures &	8,000	8,000	8,000	8,000	8,000	40,000
8234	Repair/Maintenance Supplies	5,000	5,000	5,000	5,000	5,000	25,000
Total Expense		\$17,000	\$17,000	\$17,000	\$17,000	\$17,000	\$85,000
Net Total							

Bellvue Needs Assessment Projects

Project Number:	406.9	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Treatment	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	Bellvue WTP
Project Manager:	Erik Dial	Budget Unit #:	4060088084210000
Project Status:	Funded		

Description:

This project encapsulates all of the rehabilitation work for Bellvue Water Treatment Plant outlined in the water treatment Needs Assessment. The most significant portion of the project dollars will be the replacement of the filters at Bellvue.

Discussion of Progress:

Planning

Justification:

Both water treatment plants are due for significant rehabilitation. A Needs Assessment was completed that laid out the schedule and estimated costs for performing the rehab activities at both plants. The rehabilitation will result in more flexibility in how water is produced because Boyd will be available year round and Bellvue will operate more efficiently with new filters.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Future	Total
Revenue								
5638	Funded Depreciation	21,071,000	130,000	1,455,000	440,000	-	-	23,096,000
5902	Bond Proceeds	23,000,000	-	10,000,000	-	9,000,000	7,000,000	49,000,000
	Total Revenue	\$44,071,000	\$130,000	\$11,455,000	\$440,000	\$9,000,000	\$7,000,000	\$72,096,000
Expense								
8202	Construction	21,071,000	-	1,330,000	-	-	-	22,401,000
8206	Design Fees	-	130,000	-	440,000	-	-	570,000
8214	Legal Publications	1,000	-	-	-	-	-	1,000
8229	Professional Services	1,400,000	-	75,000	-	-	-	1,475,000
8232	Project Management	100,000	-	50,000	-	-	-	150,000
8240	Testing And Inspection	150,000	-	-	-	-	-	150,000
	Total Expense	\$22,722,000	\$130,000	\$1,455,000	\$440,000	-	-	\$24,747,000
Net Total		\$21,349,000	-	\$10,000,000	-	\$9,000,000	\$7,000,000	\$47,349,000

Boyd WTP Needs Assessment Projects

Project Number:	872	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Treatment	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	Boyd Filter Plant
Project Manager:	Sam Boone	Budget Unit #:	4060088084120000
Project Status:	Funded		

Description:

This project encapsulates all of the rehabilitation work for Boyd Water Treatment Plant outlined in the water treatment Needs Assessment. The work performed will replace many dated components within the plant as well as enable Boyd to operate year round.

Discussion of Progress:

Planning

Justification:

Both water treatment plants are due for significant rehabilitation. A Needs Assessment was completed that laid out the schedule and estimated costs for performing the rehab activities at both plants. The rehabilitation will result in more flexibility in how water is produced because Boyd will be available year round and Bellvue will operate more efficiently with new filters.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	11,907,400	86,500	1,129,000	1,064,000	509,000	14,695,900
	Total Revenue	\$11,907,400	\$86,500	\$1,129,000	\$1,064,000	\$509,000	\$14,695,900
Expense							
8202	Construction	10,674,000	-	907,000	895,000	382,000	12,858,000
8206	Design Fees	-	83,000	90,000	38,000	68,000	279,000
8214	Legal Publications	1,000	-	1,000	1,000	1,000	4,000
8229	Professional Services	1,067,400	-	91,000	90,000	38,000	1,286,400
8232	Project Management	100,000	3,500	30,000	30,000	15,000	178,500
8240	Testing And Inspection	65,000	-	10,000	10,000	5,000	90,000
	Total Expense	\$11,907,400	\$86,500	\$1,129,000	\$1,064,000	\$509,000	\$14,695,900
Net Total							
		-	-	-	-	-	-

Boyd WTP Plant #2 Demolition

Project Number:	406.16	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Treatment	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	Boyd Water Treatment Plant
Project Manager:	Sam Boone	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

Demolition of the existing plant constructed in 1967 and reclamation of the grounds.

Discussion of Progress:

Planning

Justification:

The existing plant was decommissioned over 10 years ago. The raw water line was permanently plugged off in 2014 in response to a major influent raw water line leak. Light fixtures are falling from the ceiling in several places. The mold level could be significant. Residential development and a major hiking/biking trail are adjacent to the south and west of the structures. Loveland Fire Department has allowed disconnecting the finished water connection supplying the fire hydrant under the understanding the buildings will be demolished in 2017.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	456,000	-	-	-	-	456,000
	Total Revenue	\$456,000	-	-	-	-	\$456,000
Expense							
8206	Design Fees	35,000	-	-	-	-	35,000
8210	HAZMAT	35,000	-	-	-	-	35,000
8212	Land/Building	350,000	-	-	-	-	350,000
8214	Legal Publications	1,000	-	-	-	-	1,000
8226	Permits, Fees, Etc	5,000	-	-	-	-	5,000
8229	Professional Services	8,000	-	-	-	-	8,000
8232	Project Management	12,000	-	-	-	-	12,000
8240	Testing And Inspection	10,000	-	-	-	-	10,000
	Total Expense	\$456,000	-	-	-	-	\$456,000
Net Total							
		-	-	-	-	-	-

Transmission System Rehabilitation

Project Number:	68	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	City wide and along the major transmission line from Bellvue and Boyd Filter Plants
Project Manager:	Dan Moore	Budget Unit #:	4060088088560000
Project Status:	Funded		

Description:

This project will fund all types of required rehabilitation or replacement of the treated water transmission system. Projects may include the protection of pipe joints, pipe replacement, cathodic protection, lining of pipe, minor upgrades, and repairs to piping for protection prior to impending development. This is an on-going project in part utilizing in-house design and construction. The 2017 project will be the design and replacement of the 20" Kodak line. The 2018 project is the structural rehab for crossing under the Poudre River, railroads, Highway 34, Highway 257, and I-25. Also, 2018 projects include studies for rehabilitation of the existing cathodic protection system, and strategies for rehabilitation or replacement of existing piping. Construction for rehabilitation will occur in 2018 through 2020 at the rate of 2 miles per year.

Discussion of Progress:

Planning

Justification:

Council priority to maintain critical infrastructure. This program is intended to maintain and protect assets worth over \$105,000,000 (replacement value) and restore and prolong the useful life of the 138 miles of older pipeline. Bellvue's old pipelines were constructed between 1923- 1969 and 31 miles have been rehabilitated by cement mortar or poly lining. The Boyd lines were constructed in 1967 and 1973. The rehabilitation schedule will be adjusted to meet the most pressing priority.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	1,906,000	1,752,000	1,579,000	1,579,000	1,579,000	8,395,000
Total Revenue		\$1,906,000	\$1,752,000	\$1,579,000	\$1,579,000	\$1,579,000	\$8,395,000
Expense							
8202	Construction	1,631,000	943,000	1,400,000	1,400,000	1,400,000	6,774,000
8204	Contingency	160,000	95,000	140,000	140,000	140,000	675,000
8206	Design Fees	50,000	75,000	-	-	-	125,000
8212	Land/Building	20,000	-	-	-	-	20,000
8214	Legal Publications	500	500	500	500	500	2,500
8226	Permits,Fees, Etc	5,000	5,000	5,000	5,000	5,000	25,000
8228	Printing, Copying	500	500	500	500	500	2,500
8229	Professional Services	3,000	600,000	-	-	-	603,000
8232	Project Management	10,000	10,000	5,000	5,000	5,000	35,000
8238	Surveying	6,000	3,000	3,000	3,000	3,000	18,000
8240	Testing And Inspection	20,000	20,000	25,000	25,000	25,000	115,000

Total Expense	\$1,906,000	\$1,752,000	\$1,579,000	\$1,579,000	\$1,579,000	\$8,395,000
Net Total	-	-	-	-	-	-

Distribution Pipeline Replacement

Project Number:	69	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Dan Moore	Budget Unit #:	4060088088530000
Project Status:	Funded		

Description:

This will provide replacement and/or rehabilitation of pipes that exhibit extreme corrosion or have an excessive leak history. Pipes that are too small are replaced and enlarged to increase flow capacity. Various rehabilitation methods such as cement mortar lining, swage lining, and pipe bursting may be used. Every two years projects are prioritized based on paving project coordination and other factors. Most projects are replaced using in-house forces. The main project identified for 2017 is the outside contract replacement of 3000 feet of pipeline that serves the Spanish Colony. In 2018 two bored crossing replacements of 8th Avenue will be performed by outside contractor.

Discussion of Progress:

Planning

Justification:

Council priority to maintain critical infrastructure. This program reduces the number of emergency repairs and customer complaints by improving the flow quantity and service for customers and fire protection. Water quality is also improved and chlorination is more effective.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	1,908,000	1,325,000	900,000	900,000	900,000	5,933,000
Total Revenue		\$1,908,000	\$1,325,000	\$900,000	\$900,000	\$900,000	\$5,933,000
Expense							
8202	Construction	780,000	300,000	80,000	80,000	80,000	1,320,000
8203	Construction - City Depts	140,000	490,000	490,000	490,000	490,000	2,100,000
8204	Contingency	80,000	4,000	4,000	4,000	4,000	96,000
8206	Design Fees	75,000	-	-	-	-	75,000
8212	Land/Building	100,000	-	-	-	-	100,000
8224	Operating Supplies	1,000	1,000	2,000	2,000	2,000	8,000
8226	Permits, Fees, Etc	2,000	2,000	10,000	10,000	10,000	34,000
8232	Project Management	10,000	8,000	4,000	4,000	4,000	30,000
8234	Repair/Maintenance Supplies	700,000	500,000	305,000	305,000	305,000	2,115,000
8240	Testing And Inspection	20,000	20,000	5,000	5,000	5,000	55,000
Total Expense		\$1,908,000	\$1,325,000	\$900,000	\$900,000	\$900,000	\$5,933,000
Net Total							
		-	-	-	-	-	-

Valve Replacement

Project Number:	72	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Jeff Littell	Budget Unit #:	4060088088500000
Project Status:	Funded		

Description:

This project replaces inoperable valves. The life expectancy varies from twenty-five to fifty years depending on valve size and maintenance/operation. This is an on-going project.

Discussion of Progress:

Annual program

Justification:

The replacement program ensures that system valves are able to be located, in operating condition and are in the correct operating position (open or closed). Replacement valves are obtained through the Transmission/Distribution division's inventory budget. During cement mortar lining (CML) construction years, the valves in the project area are replaced using this account. Approximately 925 hours (\$20,200) per year is spent on valve turning and the labor cost is charged to the operating budget. The system has approximately 9,200 valves.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	99,000	99,000	99,000	99,000	99,000	495,000
Total Revenue		\$99,000	\$99,000	\$99,000	\$99,000	\$99,000	\$495,000
Expense							
8203	Construction - City Depts	10,000	10,000	10,000	10,000	10,000	50,000
8216	Miscellaneous	1,500	1,500	1,500	1,500	1,500	7,500
8226	Permits, Fees, Etc	1,500	1,500	1,500	1,500	1,500	7,500
8234	Repair/Maintenance Supplies	86,000	86,000	86,000	86,000	86,000	430,000
Total Expense		\$99,000	\$99,000	\$99,000	\$99,000	\$99,000	\$495,000
Net Total							
		-	-	-	-	-	-

Fire Hydrant Replacement

Project Number:	71	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Jeff Littell	Budget Unit #:	4060088088510000
Project Status:	Funded		

Description:

This program will replace substandard fire hydrants and applicable branch piping, gate valves, and asphalt. Repair of asphalt and street damage caused by water truck loading at hydrants is also included. This is an on-going project.

Discussion of Progress:

Annual program

Justification:

The Water staff and Fire department personnel identify approximately ten units for replacement each year. Labor for replacing and performing hydrant maintenance is charged to the operating account. The system has 3,200 hydrants with an expected service life of 50 years. Fire hydrants are also used to distribute water to fracking and construction customers resulting in pavement damage caused by the heavy truck traffic. Each year the damaged pavement is corrected.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	77,000	77,000	77,000	77,000	77,000	385,000
	Total Revenue	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$385,000
Expense							
8202	Construction	25,000	25,000	25,000	25,000	25,000	125,000
8203	Construction - City Depts	13,000	13,000	13,000	13,000	13,000	65,000
8216	Miscellaneous	4,000	4,000	4,000	4,000	4,000	20,000
8234	Repair/Maintenance Supplies	35,000	35,000	35,000	35,000	35,000	175,000
	Total Expense	\$77,000	\$77,000	\$77,000	\$77,000	\$77,000	\$385,000
Net Total							
		-	-	-	-	-	-

Meter Replacement

Project Number:	67	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Jeff Littell	Budget Unit #:	4060088088608863
Project Status:	Funded		

Description:

This program funds the replacement of both large and small water meters and their related components as they wear out or fail; this is an on-going project.

Discussion of Progress:

Annual program. Significant effort ongoing to replace radio transponders that are out of date.

Justification:

Meter accuracy is paramount for revenue collection; Meters and radio transponders are replaced when they fail, which is approximately every ten to fifteen years. In 2014, a new federal law requires any new meter to the system be the "no-lead" type. These meters cost approximately 30% more than the current system meters. This new law also requires any meter removed for maintenance be replaced with a no-lead meter.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	325,000	325,000	325,000	325,000	325,000	1,625,000
	Total Revenue	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000	\$1,625,000
Expense							
8216	Miscellaneous	15,000	15,000	15,000	15,000	15,000	75,000
8234	Repair/Maintenance Supplies	310,000	310,000	310,000	310,000	310,000	1,550,000
	Total Expense	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000	\$1,625,000
Net Total		-	-	-	-	-	-

Treated Water Reservoir Rehabilitation

Project Number:	65	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Dan Moore	Budget Unit #:	4060088088610000
Project Status:	Funded		

Description:

This project will fund the required rehabilitation of the four treated water tanks and reservoirs. The projects may include pumps, motors, structural repairs, floating covers, asphalt driveways, and other miscellaneous reservoir related rehabilitation requirements. This is an on-going project. The 2017 and 2018 work includes PRV vault rehab. The 2019 and 2020 estimates include a sodium hypochlorite replacement for Mosier Hill pump station and 23rd Ave Reservoirs.

Discussion of Progress:

Preparing RFP documents

Justification:

Council priority to maintain critical infrastructure. Concrete and steel reservoir and tanks require major structural repairs and maintenance approximately every 20 years. These 4 major facilities also contain numerous large pumps and control valves that also need repairs and maintenance in addition to the maintenance of the respective reservoir sites.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	36,000	36,000	88,500	88,500	40,000	289,000
	Total Revenue	\$36,000	\$36,000	\$88,500	\$88,500	\$40,000	\$289,000
Expense							
8203	Construction - City Depts	9,000	9,000	15,000	15,000	9,000	57,000
8204	Contingency	-	-	1,000	1,000	1,000	3,000
8224	Operating Supplies	1,000	1,000	2,000	2,000	2,000	8,000
8234	Repair/Maintenance Supplies	26,000	26,000	28,000	28,000	28,000	136,000
8244	Capital Equipment >\$5,000	-	-	42,500	42,500	-	85,000
	Total Expense	\$36,000	\$36,000	\$88,500	\$88,500	\$40,000	\$289,000
Net Total							
		-	-	-	-	-	-

Gold Hill Tank Repair

Project Number:	406.12	Budget Year:	2017
Division:	860 - Transmission/Distribution	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	South of Hwy 34/West of Hwy 257
Project Manager:	Dan Moore	Budget Unit #:	4060088084250000
Project Status:	Funded		

Description:

This 2017 project is for repairs of 9320 feet of floor joints at the 15 MG Gold Hill Reservoir and other repairs as determined by the 2014 engineering study and 2016 design for Gold Hill Reservoir.

Discussion of Progress:

Planning and Design

Justification:

Council priority to maintain critical infrastructure. Concrete and steel reservoir and tanks require major structural repairs and maintenance approximately every 20 years. Gold Hill is experiencing leakage through the joints which wastes time and money and may cause damage to the foundation.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	1,262,600	27,000	-	-	-	1,289,600
	Total Revenue	\$1,262,600	\$27,000	-	-	-	\$1,289,600
Expense							
8202	Construction	1,100,800	-	-	-	-	1,100,800
8206	Design Fees	100,000	-	-	-	-	100,000
8214	Legal Publications	200	-	-	-	-	200
8224	Operating Supplies	3,000	3,000	-	-	-	6,000
8226	Permits, Fees, Etc	500	-	-	-	-	500
8228	Printing, Copying	100	-	-	-	-	100
8232	Project Management	20,000	10,000	-	-	-	30,000
8234	Repair/Maintenance Supplies	2,000	2,000	-	-	-	4,000
8240	Testing And Inspection	36,000	12,000	-	-	-	48,000
	Total Expense	\$1,262,600	\$27,000	-	-	-	\$1,289,600
Net Total							
		-	-	-	-	-	-

Instrumentation And Control

Project Number:	342	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Steve Robben	Budget Unit #:	4060088088548855
Project Status:	Funded		

Description:

This program replaces and refurbishes instruments and control systems known as SCADA (Supervisory Control and Data Acquisition). These devices are used to operate water and sewer systems, including recording data required by regulation and measurement and control of various chemicals. This is an on-going project.

Discussion of Progress:

Annual program

Justification:

Instrumentation and controls wear out or become obsolete over time, requiring replacement or major refurbishment. Refurbishment typically occurs at the facilities of the local supplier or manufacturer. City instrumentation technicians perform the replacement projects. This account includes instruments at all water facilities and pipelines.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	200,000	200,000	200,000	200,000	200,000	1,000,000
	Total Revenue	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
Expense							
8203	Construction - City Depts	15,000	15,000	15,000	15,000	15,000	75,000
8208	Furniture, Fixtures &	80,000	80,000	80,000	80,000	80,000	400,000
8216	Miscellaneous	5,000	5,000	5,000	5,000	5,000	25,000
8224	Operating Supplies	5,000	5,000	5,000	5,000	5,000	25,000
8234	Repair/Maintenance Supplies	75,000	75,000	75,000	75,000	75,000	375,000
8244	Capital Equipment >\$5,000	20,000	20,000	20,000	20,000	20,000	100,000
	Total Expense	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
Net Total		-	-	-	-	-	-

Capital Outlay Replacement-Water

Project Number:	188	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Jeff Littell	Budget Unit #:	4060088088540000
Project Status:	Funded		

Description:

This program replaces major rolling stock: pickups, tractor backhoes, loaders, compressors, dump trucks, and other identified replacement capital items.

Discussion of Progress:

Ongoing equipment replacement

Justification:

This will replace rolling stock that has reached the end of its economic life. This will help maintain the equipment's ability to perform daily tasks and handle emergency calls.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	828,500	760,000	510,000	490,000	560,000	3,148,500
	Total Revenue	\$828,500	\$760,000	\$510,000	\$490,000	\$560,000	\$3,148,500
Expense							
8142	Construction and Maintenance	500,000	725,000	425,000	400,000	-	2,050,000
8144	Transportation/Vehicles	247,000	35,000	85,000	90,000	560,000	1,017,000
8149	Other	81,500	-	-	-	-	81,500
	Total Expense	\$828,500	\$760,000	\$510,000	\$490,000	\$560,000	\$3,148,500
Net Total							
		-	-	-	-	-	-

W&S Facility Program

Project Number:	406.13	Budget Year:	2017
Division:	860 - Transmission/Distribution	Council Priority:	Infrastructure & Growth- Public Facilities & Equip
Project Type:	Water Replacement Transmission & Distribution	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Burt Knight	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

A site or sites will be developed to house Water and Sewer construction crews and their equipment for water and sewer.

Discussion of Progress:

Planning

Justification:

The building that the water crews are currently housed in is in poor condition. Additionally, it is not centrally located and staff have significant travel times to get to the west side of the City.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	4,000,000	-	-	-	4,000,000
	Total Revenue	-	\$4,000,000	-	-	-	\$4,000,000
Expense							
8202	Construction	-	4,000,000	-	-	-	4,000,000
	Total Expense	-	\$4,000,000	-	-	-	\$4,000,000
Net Total							
		-	-	-	-	-	-

Distribution System Model and Master Plan

Project Number:	406.8	Budget Year:	2017
Division:	860 - Transmission/Distribution	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Studies	Regions:	0 - Multiple Wards
Fund:	406 - Water Capital Replacement	Location:	City wide
Project Manager:	Dan Moore	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

Engineering Study to determine what water distribution system improvements are necessary to accommodate future growth.

Discussion of Progress:

Planning

Justification:

Council priority to plan and develop critical infrastructure. This tool will help facilitate timely and efficient planning to determine the most cost effective improvements required for new development.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	355,000	300,000	-	-	-	655,000
	Total Revenue	\$355,000	\$300,000	-	-	-	\$655,000
Expense							
8229	Professional Services	300,000	275,000	-	-	-	575,000
8232	Project Management	25,000	25,000	-	-	-	50,000
8240	Testing And Inspection	30,000	-	-	-	-	30,000
	Total Expense	\$355,000	\$300,000	-	-	-	\$655,000
Net Total							
		-	-	-	-	-	-

Bellvue Raw Water Line Rehabilitation

Project Number:	2156	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Treatment	Regions:	5- Outside City
Fund:	406 - Water Capital Replacement	Location:	Bellvue Filter Plant
Project Manager:	Christie Coleman	Budget Unit #:	4060088084040000
Project Status:	Funded		

Description:

This project will rehabilitate and increase the water-carrying capacity of two 20-inch CIP and one 36-inch RCP existing raw water lines from their connection to the city's Poudre River diversion structure to the Bellvue Water Treatment Plant.

Discussion of Progress:

Planning

Justification:

The 50 to 80 year old pipes are in need of rehabilitation. The project will facilitate the delivery of additional raw water to the Bellvue Water Treatment Plant.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	-	373,000	660,000	6,874,300	7,907,300
Total Revenue		-	-	\$373,000	\$660,000	\$6,874,300	\$7,907,300
Expense							
8202	Construction	-	-	-	-	6,808,000	6,808,000
8206	Design Fees	-	-	-	608,000	-	608,000
8214	Legal Publications	-	-	-	-	300	300
8226	Permits, Fees, Etc	-	-	13,000	-	-	13,000
8228	Printing, Copying	-	-	4,000	-	-	4,000
8229	Professional Services	-	-	304,000	-	-	304,000
8232	Project Management	-	-	52,000	52,000	52,000	156,000
8240	Testing And Inspection	-	-	-	-	14,000	14,000
Total Expense		-	-	\$373,000	\$660,000	\$6,874,300	\$7,907,300
Net Total							
		-	-	-	-	-	-

Bellvue Raw Water Line Permitting

Project Number:	406.23	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Replacement Studies	Regions:	
Fund:	406 - Water Capital Replacement	Location:	Bellvue Water Treatment Plant
Project Manager:	Christie Coleman	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

This budget is for permitting activities related to maintenance upgrades to the Bellvue Raw-water Lines.

Discussion of Progress:

Planning

Justification:

Since permitting has been very involved for the Northern Segment of the Bellvue Treated-water Line, permitting is anticipated to be very involved for upcoming maintenance to the Bellvue Raw-water Lines as well. Staff believes it would be best to treat permitting as a separate project.

Revenue Detail:

No additional information

Impact on Operating Budget:

none

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	250,000	250,000	-	-	500,000
	Total Revenue	-	\$250,000	\$250,000	-	-	\$500,000
Expense							
8204	Contingency	-	-	25,000	-	-	25,000
8229	Professional Services	-	250,000	225,000	-	-	475,000
	Total Expense	-	\$250,000	\$250,000	-	-	\$500,000
Net Total							
		-	-	-	-	-	-

407 – Water Acquisition Fund

Equalizer

Project Number:	584	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Rights Acquisition	Regions:	5- Outside City
Fund:	407 - Water Rights Acquisition	Location:	Greeley Loveland Irrigation Company land
Project Manager:	Eric Reckentine	Budget Unit #:	4070088088910000
Project Status:	Funded		

Description:

This phase of the Lower Equalizer project will secure options to purchase existing or potential gravel pits in the Big Thompson drainage. The Lower Equalizer Project will exchange reusable wastewater effluent down the Poudre River, into the South Platte River and back up the Big Thompson River to be stored, along with junior water storage rights, in proposed reservoirs in the Big Thompson and Poudre River Basins. Water could also be stored in the Lower Equalizer Ponds from the Greeley Loveland Irrigation Company ditch. Stored water could be pumped back to the GLIC system for non-potable irrigation, or released to provide support for non-potable irrigation, exchanges, and augmentation. These are long-term projects. Studies have shown the necessary storage could range up to 2,700 ac/ft and cost from \$6,000 to \$8,000 per acre foot, when complete with inlet and outlet works.

Discussion of Progress:

Greeley Loveland Irrigation Company is designing

Justification:

Project is adding raw water storage capacity as specified in the Water Master Plan

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
	Fund Balance	50,000	-	-	-	-	50,000
	Total Revenue	\$50,000	-	-	-	-	\$50,000
Expense							
8229	Professional Services	50,000	-	-	-	-	50,000
	Total Expense	\$50,000	-	-	-	-	\$50,000
Net Total							
		-	-	-	-	-	-

Overland Trail

Project Number:	1065	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Rights Acquisition	Regions:	5- Outside City
Fund:	407 - Water Rights Acquisition	Location:	Northwest of Fort Collins
Project Manager:	Eric Reckentine	Budget Unit #:	4070088088920000
Project Status:	Funded		

Description:

The Overland Trail Gravel Pits are located NW of Fort Collins. Greeley and the Tri-Districts purchased half of the gravel pits from Lafarge in 2004. The other half were owned by individual land owners; Greeley and Tri-Districts are purchasing these pits as they are mined out and lined. Ultimately, Greeley's storage will be 2,343 acre-feet. The pits will be used to store potable supplies for the Bellvue filter plant and to meet return flows required by ditch company acquisition. The costs shown are Greeley's portion to be paid to the Tri-Districts which are creating the storage.

Discussion of Progress:

See description for progress to date

Justification:

The Water Master Plan intends for the City to develop high quality supplies in the Poudre basin to meet water supply needs prior to the expansion of the Milton Seaman reservoir. The desirable options include building small projects such as the Overland Trail to maximize the value of existing water supplies and of purchased supplies in the future.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
	Fund Balance	435,000	35,000	-	-	-	470,000
	Total Revenue	\$435,000	\$35,000	-	-	-	\$470,000
Expense							
8212	Land/Building	400,000	-	-	-	-	400,000
8229	Professional Services	20,000	20,000	-	-	-	40,000
8232	Project Management	15,000	15,000	-	-	-	30,000
	Total Expense	\$435,000	\$35,000	-	-	-	\$470,000
Net Total							
		-	-	-	-	-	-

Water Acquisition Phase II

Project Number:	581	Budget Year:	2017
Division:	880 - Water Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Rights Acquisition	Regions:	5- Outside City
Fund:	407 - Water Rights Acquisition	Location:	City wide
Project Manager:	Eric Reckentine	Budget Unit #:	4070088088950000
Project Status:	Funded		

Description:

Greeley needs additional water supplies for growth. Water Acquisition Phase II is acquisition of 10,000 acre-feet of agricultural water supplies. An enlarged Seaman Reservoir would expand these supplies by another 6,600 acre-feet. Greeley also needs gravel pit storage on the lower Poudre and Big Thompson Rivers to capture reusable effluent in order to extend water supplies. It is estimated that \$90 million is necessary to purchase this water.

Discussion of Progress:

Ongoing budget, reducing budget to reflect the realities of the water rights market.

Justification:

The Water Master Plan intended for the City to develop a \$36 million Future Water Account (FWA) and to generally identify the water supplies needed for acquiring 6,000 acre-feet of potable firm yield. Supplies identified as being the best fit for the Greeley water system are selling to other utilities at a rate such that when Greeley can generate funds from the cash-in-lieu of water sales they may no longer be available for purchase. Therefore, if the City is going to secure water for its future growth, an active acquisition program should be implemented.

Revenue Detail:

The water fund receives varying amounts of revenue by renting the water supplies back to agriculture. The revenue amount varies year to year depending on water availability.

Impact on Operating Budget:

Water assessment fees increase when the city buys additional shares of ditch company water. The cost varies by the water right acquired.

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
	Fund Balance	6,550,000	6,550,000	6,550,000	6,550,000	6,550,000	32,750,000
	Total Revenue	\$6,550,000	\$6,550,000	\$6,550,000	\$6,550,000	\$6,550,000	\$32,750,000
Expense							
8212	Land/Building	6,500,000	6,500,000	6,500,000	6,500,000	6,500,000	32,500,000
8229	Professional Services	50,000	50,000	50,000	50,000	50,000	250,000
	Total Expense	\$6,550,000	\$6,550,000	\$6,550,000	\$6,550,000	\$6,550,000	\$32,750,000
Net Total		-	-	-	-	-	-

Rockwell Ranch Change Case

Project Number:	407.2	Budget Year:	2017
Division:	850 - Water General Management	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Rights Acquisition	Regions:	0 - Multiple Wards
Fund:	407 - Water Rights Acquisition	Location:	City wide
Project Manager:	Eric Reckentine	Budget Unit #:	4070088087020000
Project Status:	Funded		

Description:

File water court application, complete engineering and obtain decree for the change of use of unchanged water rights.

Discussion of Progress:

Planning stage

Justification:

Ditch and reservoir company shares can only be used for municipal uses including augmentation and replacing return flows if they have been changed in court.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
	Fund Balance	200,000	100,000	-	-	-	300,000
	Total Revenue	\$200,000	\$100,000	-	-	-	\$300,000
Expense							
8229	Professional Services	200,000	100,000	-	-	-	300,000
	Total Expense	\$200,000	\$100,000	-	-	-	\$300,000
Net Total							
		-	-	-	-	-	-

Larimer & Weld Companies Change Case

Project Number:	2164	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Rights Acquisition	Regions:	0 - Multiple Wards
Fund:	407 - Water Rights Acquisition	Location:	City wide
Project Manager:	Eric Reckentine	Budget Unit #:	4070088084150000
Project Status:	Funded		

Description:

File water court application, complete engineering and obtain decree for the change of use of unchanged Larimer and Weld Companies.

Discussion of Progress:

Planning

Justification:

Ditch and reservoir company shares can only be used for municipal uses including augmentation and replacing return flows if they have been changed in court.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
	Fund Balance	200,000	200,000	200,000	-	-	600,000
	Total Revenue	\$200,000	\$200,000	\$200,000	-	-	\$600,000
Expense							
8229	Professional Services	200,000	200,000	200,000	-	-	600,000
	Total Expense	\$200,000	\$200,000	\$200,000	-	-	\$600,000
Net Total							
		-	-	-	-	-	-

Leprino Produced Water Claim

Project Number:	2163	Budget Year:	2017
Division:	870 - Treatment and Supply	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Water Rights Acquisition	Regions:	0 - Multiple Wards
Fund:	407 - Water Rights Acquisition	Location:	City wide
Project Manager:	Eric Reckentine	Budget Unit #:	4070088084140000
Project Status:	Funded		

Description:

File water court application, complete engineering and obtain decree to claim credit for water produced as a result of cheese production process

Discussion of Progress:

Planning

Justification:

As a part of the contract to provide water to Leprino, Greeley is responsible for filing an application to claim the credit for water developed as a result of the production of cheese from milk.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
	Fund Balance	200,000	150,000	150,000	-	-	500,000
	Total Revenue	\$200,000	\$150,000	\$150,000	-	-	\$500,000
Expense							
8229	Professional Services	200,000	150,000	150,000	-	-	500,000
	Total Expense	\$200,000	\$150,000	\$150,000	-	-	\$500,000
Net Total							
		-	-	-	-	-	-

402 – Sewer New Construction Fund

Additional Sanitary Sewer Manholes

Project Number:	184	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Construction Collection	Regions:	0 - Multiple Wards
Fund:	402 - Sewer Construction	Location:	City wide
Project Manager:	Justin Scholz	Budget Unit #:	4020083083108312
Project Status:	Funded		

Description:

This program constructs new manholes that are found to be necessary for safe and efficient access to the sanitary sewer system. As existing sewer lines are inspected, the need for new manholes is often discovered in sewer lines that have limited access, such as cul-de-sacs or line intersections without manholes. The installation of additional manholes allows staff to clean and flush sewer lines efficiently.

Discussion of Progress:

Annual program

Justification:

As existing sewer lines are inspected, the need for constructing new manholes is discovered, e.g. cul de sac with no manholes, lines intersecting with no manholes, and any other sites where access is required. Without the installation of new manholes the system cannot be properly flushed and cleaned which could lead to backups.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	43,000	53,000	53,000	63,000	63,000	275,000
	Total Revenue	\$43,000	\$53,000	\$53,000	\$63,000	\$63,000	\$275,000
Expense							
8203	Construction - City Depts	10,000	10,000	10,000	10,000	10,000	50,000
8226	Permits, Fees, Etc	500	500	500	500	500	2,500
8232	Project Management	1,000	1,000	1,000	1,000	1,000	5,000
8234	Repair/Maintenance Supplies	30,000	40,000	40,000	50,000	50,000	210,000
8240	Testing And Inspection	1,500	1,500	1,500	1,500	1,500	7,500
	Total Expense	\$43,000	\$53,000	\$53,000	\$63,000	\$63,000	\$275,000
Net Total							

Sewer Taps

Project Number:	234	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Construction Collection	Regions:	0 - Multiple Wards
Fund:	402 - Sewer Construction	Location:	City wide
Project Manager:	Paul Tucker	Budget Unit #:	4020083083108311
Project Status:	Funded		

Description:

This program installs sewer taps for new homes. City crews tap the sewer main and complete the installation of the sewer tap. Due to poor quality work by contractors, the City does not allow contractors to install sewer or water taps.

Discussion of Progress:

Annual program

Justification:

Water and Sewer specifications require city personnel to make new taps on existing sewer collection mains.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	10,000	10,000	10,000	10,000	10,000	50,000
	Total Revenue	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000
Expense							
8202	Construction	10,000	10,000	10,000	10,000	10,000	50,000
	Total Expense	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000
Net Total		-	-	-	-	-	-

Poudre Trunk Line Phase 2

Project Number:	544	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Collection	Regions:	4 - 10 St North/23 Ave West
Fund:	402 - Sewer Construction	Location:	Poudre River from 83rd Avenue to 120th Avenue
Project Manager:	Justin Scholz	Budget Unit #:	4020083083250000
Project Status:	Funded		

Description:

Design and construct 6,200 feet of 27 inch sewer trunk main along the Poudre River from 83rd Avenue west to 95th Avenue and 4,300 of 18 inch sewer trunk main in 95th Avenue south to 4th Street. This trunk line would serve developments north of 10th street and west of 83rd avenue. This project scheduled for design in 2017 and construction in 2020. Includes Ditch crossing, traffic control for 83rd Avenue, crossing 3 transmission lines, and ground water assumed in WCR 62.

Discussion of Progress:

Planning

Justification:

The trunk would provide sewer service to developments north of 10th Street. No sewer service is available currently to serve this area.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	420,000	-	-	2,030,500	-	2,450,500
	Total Revenue	\$420,000	-	-	\$2,030,500	-	\$2,450,500
Expense							
8202	Construction	-	-	-	1,500,000	-	1,500,000
8204	Contingency	-	-	-	300,000	-	300,000
8206	Design Fees	200,000	-	-	100,000	-	300,000
8212	Land/Building	150,000	-	-	30,000	-	180,000
8214	Legal Publications	-	-	-	500	-	500
8216	Miscellaneous	5,000	-	-	5,000	-	10,000
8226	Permits, Fees, Etc	-	-	-	5,000	-	5,000
8229	Professional Services	30,000	-	-	-	-	30,000
8232	Project Management	30,000	-	-	20,000	-	50,000
8240	Testing And Inspection	-	-	-	50,000	-	50,000
9303	Public Art Fund	5,000	-	-	20,000	-	25,000
	Total Expense	\$420,000	-	-	\$2,030,500	-	\$2,450,500
Net Total							
		-	-	-	-	-	-

83rd Ave Sewer Project

Project Number:	1038	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Construction Treatment	Regions:	0 - Multiple Wards
Fund:	402 - Sewer Construction	Location:	83rd Avenue/10th Street north to the Poudre trunk line
Project Manager:	Justin Scholz	Budget Unit #:	4020083083340000
Project Status:	Funded		

Description:

This project will install 5600 linear feet of 18 inch sewer pipe in 83rd avenue from Poudre River Road to a point that is approximately 1/4 mile north of 10th Street. The main will provide sewer service for future developments north of 10th Street. Presently there is no method of transporting sewer flows north to the Poudre Trunk line. The plan would be to begin design in 2018 with construction in 2019. Ditch Crossing and potential right of way acquisition are included.

Discussion of Progress:

Planning

Justification:

Should new development occur north of 10th Street and east of 83rd Avenue, this line will provide sewer service to those developments.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	205,000	-	-	1,234,000	-	1,439,000
	Total Revenue	\$205,000	-	-	\$1,234,000	-	\$1,439,000
Expense							
8202	Construction	-	-	-	1,000,000	-	1,000,000
8204	Contingency	-	-	-	160,000	-	160,000
8206	Design Fees	80,000	-	-	-	-	80,000
8212	Land/Building	85,000	-	-	20,000	-	105,000
8214	Legal Publications	-	-	-	500	-	500
8216	Miscellaneous	5,000	-	-	5,000	-	10,000
8226	Permits, Fees, Etc	-	-	-	5,000	-	5,000
8229	Professional Services	20,000	-	-	-	-	20,000
8232	Project Management	15,000	-	-	15,000	-	30,000
8240	Testing And Inspection	-	-	-	20,000	-	20,000
9303	Public Art Fund	-	-	-	8,500	-	8,500
	Total Expense	\$205,000	-	-	\$1,234,000	-	\$1,439,000
Net Total							
		-	-	-	-	-	-

Highland Capacity Improvement Upper

Project Number:	824	Budget Year:	2017
Division:	820 - Wastewater Collection	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Construction Collection	Regions:	3- 10 St South/23 Ave West
Fund:	402 - Sewer Construction	Location:	16th Street and 47th Avenue
Project Manager:	Justin Scholz	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

The 2008 Sanitary Sewer Master Plan identified based on modeling the existing sanitary sewer from 16th Street to 26th Street in 47th Avenue and in 26th Street and 49th Ave are undersized. The MP recommended 5000 ft (18"), 700 ft (15"), 1500 ft (12") of paralleled existing main. Per the MP this phase of the project will install approximately 4100 ft (18"), 700 ft (15"), and 1500 ft (12") for a total of 6300 ft. Project will require Grapevine Ditch crossing, 47th ave and local street traffic control, crossing transmission lines, bypass pumping.

Discussion of Progress:

Planning

Justification:

Flows from the T Bone lift station were routed to this sewer main line which wasn't designed to carry these additional flows. Pipe capacity evaluations criteria were developed using d/D (flow depth to pipe diameter) ratings to determine the pipe capacity under wet and dry conditions. The City of Greeley sewer model identified this line as one needing replacement. Staff has continued to monitor the actual flow depths and d/D levels.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
4611	Development Fees	-	-	170,000	1,892,500	-	2,062,500
	Total Revenue	-	-	\$170,000	\$1,892,500	-	\$2,062,500
Expense							
8202	Construction	-	-	-	1,508,000	-	1,508,000
8204	Contingency	-	-	-	300,000	-	300,000
8206	Design Fees	-	-	150,000	-	-	150,000
8214	Legal Publications	-	-	-	500	-	500
8216	Miscellaneous	-	-	-	5,000	-	5,000
8226	Permits, Fees, Etc	-	-	-	1,000	-	1,000
8232	Project Management	-	-	20,000	20,000	-	40,000
8240	Testing And Inspection	-	-	-	40,000	-	40,000
9303	Public Art Fund	-	-	-	18,000	-	18,000
	Total Expense	-	-	\$170,000	\$1,892,500	-	\$2,062,500
Net Total							
		-	-	-	-	-	-

403 – Sewer Replacement Fund

Sewer Collection System Rehabilitation

Project Number:	66	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Collection	Regions:	0 - Multiple Wards
Fund:	403 - Sewer Capital Replacement	Location:	City wide
Project Manager:	Justin Scholz	Budget Unit #:	4030083083500000
Project Status:	Funded		

Description:

This is an ongoing program to physically replace undersized lines in the sewer collection system. The City typically replaces two to three blocks of line each year, focusing on the worst problem areas.

Discussion of Progress:

Annual program

Justification:

This program was identified as a high priority in the 2008 Sanitary Sewer Master Plan (SSMP). The master plan identified lines six inches or smaller that could not be properly maintained and identified compound taps for elimination. Completion of these projects will improve services to underserved customers and clarify ownership and maintenance responsibilities of customer service lines.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	406,500	402,000	319,500	297,500	262,500	1,688,000
	Total Revenue	\$406,500	\$402,000	\$319,500	\$297,500	\$262,500	\$1,688,000
Expense							
8202	Construction	335,000	375,000	280,000	270,000	235,000	1,495,000
8206	Design Fees	30,000	9,000	23,000	15,000	15,000	92,000
8214	Legal Publications	500	500	500	500	500	2,500
8226	Permits, Fees, Etc	1,000	1,000	1,000	1,000	1,000	5,000
8232	Project Management	7,000	7,500	7,000	5,000	5,000	31,500
8240	Testing And Inspection	8,000	9,000	8,000	6,000	6,000	37,000
8244	Capital Equipment >\$5,000	25,000	-	-	-	-	25,000
	Total Expense	\$406,500	\$402,000	\$319,500	\$297,500	\$262,500	\$1,688,000
Net Total		-	-	-	-	-	-

Trenchless Main and Collector Rehabilitation

Project Number:	795	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Collection	Regions:	0 - Multiple Wards
Fund:	403 - Sewer Capital Replacement	Location:	City wide
Project Manager:	Justin Scholz	Budget Unit #:	4030083083700000
Project Status:	Funded		

Description:

This annual program renews about 1% of the sewer system using cured-in-place pipe. The program focuses on the sewers in the worst condition as identified by the City's TV inspection and by maintenance records.

Discussion of Progress:

This is an annual program that primarily occurs over the winter months.

Justification:

Each year Sewer Collection identifies existing piping that has severe corrosion issues and rehabilitates that pipe using a cure in place process. If the pipe is not rehabilitated there is the possibility of collapse and sanitary sewer overflows on the streets. This process allows staff to rehabilitate older sewer lines without excavating the street and minimizing disruption to its customers.

Revenue Detail:

None

Impact on Operating Budget:

Lining sewer pipe has reduced expensive emergency pipe repairs.

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	575,000	732,000	518,000	448,000	448,000	2,721,000
Total Revenue		\$575,000	\$732,000	\$518,000	\$448,000	\$448,000	\$2,721,000
Expense							
8202	Construction	555,000	705,000	500,000	430,000	430,000	2,620,000
8226	Permits, Fees, Etc	1,000	1,000	1,000	1,000	1,000	5,000
8228	Printing, Copying	1,000	1,000	1,000	1,000	1,000	5,000
8232	Project Management	8,000	1,000	8,000	8,000	8,000	33,000
8240	Testing And Inspection	10,000	15,000	8,000	8,000	8,000	49,000
Total Expense		\$575,000	\$723,000	\$518,000	\$448,000	\$448,000	\$2,712,000
Net Total		-	\$9,000	-	-	-	\$9,000

Manhole Rehabilitation

Project Number:	821	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Collection	Regions:	0 - Multiple Wards
Fund:	403 - Sewer Capital Replacement	Location:	City wide
Project Manager:	Justin Scholz	Budget Unit #:	4030083083730000
Project Status:	Funded		

Description:

This program does rehabilitation of various manholes with severe corrosion issues using cementitious materials with minimum disturbance to the surrounding pavement. Manholes are inspected every two years for excessive corrosion and placed on a list to be rehabilitated based on the severity of the corrosion. With completion of coating in 2016 all manholes that are brick have been identified and coated. As manholes are determined to need coating work will be completed every other year as enough manholes are identified to need coating.

Discussion of Progress:

Ongoing annual program

Justification:

Manholes are inspected every two years for excessive corrosion and placed on a list to be rehabilitated based on the severity of the corrosion. The rehabilitation of the manholes is essential for the continued flow of sewage and lessens the chances of a sanitary sewer overflow.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	55,000	-	55,000	-	110,000
	Total Revenue	-	\$55,000	-	\$55,000	-	\$110,000
Expense							
8202	Construction	-	40,000	-	40,000	-	80,000
8214	Legal Publications	-	200	-	200	-	400
8226	Permits, Fees, Etc	-	800	-	800	-	1,600
8232	Project Management	-	4,000	-	4,000	-	8,000
8240	Testing And Inspection	-	10,000	-	10,000	-	20,000
	Total Expense	-	\$55,000	-	\$55,000	-	\$110,000
Net Total							
		-	-	-	-	-	-

Lift Station Rehabilitation

Project Number:	1042	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Collection	Regions:	0 - Multiple Wards
Fund:	403 - Sewer Capital Replacement	Location:	City Wide
Project Manager:	Justin Scholz	Budget Unit #:	4030083083760000
Project Status:	Funded		

Description:

This program rehabs existing lift stations based on the facilities condition and updates pumping systems to meet current State requirements. The lift station master plan is used to prioritize projects.

Discussion of Progress:

Lift Station 15, Purchase of Auto Start in 2015 Design and Construction of Site Improvements 2016.

Justification:

During the execution of the 2008 Sanitary Sewer Master Plan (SSMP), the City recognized that there was very little information on the condition and hydraulic performance of its lift stations. The assessment determined the remaining useful life and replacement costs. The assessment also identified what systems would need updated to meet compliance with current regulations. Rehab of Lift Station #12 in 2017 backup power, bypass pumping, and consultant recommended repairs.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	595,500	100,000	100,000	100,000	100,000	995,500
	Total Revenue	\$595,500	\$100,000	\$100,000	\$100,000	\$100,000	\$995,500
Expense							
8202	Construction	280,000	-	-	-	-	280,000
8203	Construction - City Depts	110,000	-	-	-	-	110,000
8206	Design Fees	50,000	-	-	-	-	50,000
8214	Legal Publications	500	-	-	-	-	500
8226	Permits, Fees, Etc	5,000	-	-	-	-	5,000
8232	Project Management	20,000	-	-	-	-	20,000
8236	Soils Investigation	5,000	-	-	-	-	5,000
8240	Testing And Inspection	10,000	-	-	-	-	10,000
8244	Capital Equipment >\$5,000	115,000	100,000	100,000	100,000	100,000	515,000
	Total Expense	\$595,500	\$100,000	\$100,000	\$100,000	\$100,000	\$995,500
Net Total							
		-	-	-	-	-	-

Waste Water Collection Manhole and Pipe Rehabilitation

Project Number:	1043	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Collection	Regions:	0 - Multiple Wards
Fund:	403 - Sewer Capital Replacement	Location:	City wide
Project Manager:	Tony Braun	Budget Unit #:	4030083083880000
Project Status:	Funded		

Description:

This program covers repairs of sanitary sewer manholes and main lines done by Wastewater Collection crews. Examples of these repairs include replacement of existing manholes, point repairs to main lines, purchase of frames and covers, miscellaneous repair parts, drop repairs and installations, channel repairs and other needed repairs to existing infrastructure. The replacement of manhole frames and covers during the City's Asphalt Overlay program are also included.

Discussion of Progress:

Annual program

Justification:

The existing manholes covers, frames and barrels are damaged over time by traffic. Collections staff investigate existing sanitary systems prior to work being completed by the City's Asphalt Overlay program. The program provides funding for any repairs needed.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	320,000	155,000	115,000	115,000	115,000	820,000
	Total Revenue	\$320,000	\$155,000	\$115,000	\$115,000	\$115,000	\$820,000
Expense							
8202	Construction	20,000	20,000	20,000	20,000	20,000	100,000
8203	Construction - City Depts	25,000	15,000	10,000	10,000	10,000	70,000
8234	Repair/Maintenance Supplies	235,000	120,000	85,000	85,000	85,000	610,000
8244	Capital Equipment >\$5,000	40,000	-	-	-	-	40,000
	Total Expense	\$320,000	\$155,000	\$115,000	\$115,000	\$115,000	\$820,000
Net Total		-	-	-	-	-	-

Wastewater Flow Monitoring Program

Project Number:	1048	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Studies	Regions:	0 - Multiple Wards
Fund:	403 - Sewer Capital Replacement	Location:	City wide
Project Manager:	Justin Scholz	Budget Unit #:	4030083083810000
Project Status:	Funded		

Description:

Staff will install flow meters on major sewer collection trunk lines throughout the city to monitor flows on its major sewer trunk mains. The monitoring of these flow will help determine the locations of concentrated maintenance efforts.

Discussion of Progress:

New program

Justification:

The recorded collection system flows will be used in the City's sanitary sewer model to help determine the operational capacities of the sewer system and focus maintenance efforts.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	50,000	50,000	50,000	50,000	50,000	250,000
	Total Revenue	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Expense							
8203	Construction - City Depts	3,000	3,000	3,000	3,000	3,000	15,000
8204	Contingency	7,000	7,000	7,000	7,000	7,000	35,000
8214	Legal Publications	500	500	500	500	500	2,500
8226	Permits, Fees, Etc	500	500	500	500	500	2,500
8229	Professional Services	37,000	37,000	37,000	37,000	37,000	185,000
8232	Project Management	2,000	2,000	2,000	2,000	2,000	10,000
	Total Expense	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Net Total							
		-	-	-	-	-	-

General Rehabilitation Projects

Project Number:	349	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Treatment	Regions:	1- 16 St North/35 Ave East
Fund:	403 - Sewer Capital Replacement	Location:	Water Pollution Control Facility
Project Manager:	Tom Dingeman	Budget Unit #:	4030083083750000
Project Status:	Funded		

Description:

A variety of projects that includes such work as the replacement, rehabilitation, or overhaul of large pumps, motors, centrifuge units, gear boxes, air handling units, heat exchangers, variable frequency drive units, landscaping rehab for stormwater program, etc.

Discussion of Progress:

Annual program. Approximately 70% of all planned rehab projects for 2016 have been completed.

Justification:

Manufacturer's recommendations, equipment performance, downtime, and repair history; equipment life expectancies; inability to find replacement parts, etc. all enter into the decision as to whether or not a particular item needs to be replaced, repaired, or refurbished. Rehab funds are budgeted annually so that the plant maintenance staff can stay abreast of the need to address aging equipment and infrastructure at the WPCF.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	240,300	160,700	160,700	160,700	160,700	883,100
Total Revenue		\$240,300	\$160,700	\$160,700	\$160,700	\$160,700	\$883,100
Expense							
8208	Furniture, Fixtures &	80,000	70,400	70,400	70,400	70,400	361,600
8214	Legal Publications	300	300	300	300	300	1,500
8229	Professional Services	50,000	90,000	90,000	90,000	90,000	410,000
8234	Repair/Maintenance Supplies	25,000	-	-	-	-	25,000
8244	Capital Equipment >\$5,000	85,000	-	-	-	-	85,000
Total Expense		\$240,300	\$160,700	\$160,700	\$160,700	\$160,700	\$883,100
Net Total							
		-	-	-	-	-	-

Security Projects-Sewer

Project Number:	403.8	Budget Year:	2017
Division:	810 - Wastewater Treatment	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Treatment	Regions:	0 - Multiple Wards
Fund:	403 - Sewer Capital Replacement	Location:	Water Pollution Control Facility
Project Manager:	Tom Dingeman	Budget Unit #:	4030083083501121
Project Status:	Funded		

Description:

Protecting facilities to resist intentional damage at the Water Pollution Control Facility (WPCF).

Discussion of Progress:

Annual ongoing budget

Justification:

Since 2001, Federal and State government officials have strongly recommended that wastewater treatment facilities perform vulnerability assessments and adopt measures to 'harden' or secure all areas of their facility. Staff is continuously evaluating and implementing new, cost-effective technologies to keep plant employees safe and protect plant assets. Additional security monitoring equipment, repairs and/or upgrades to existing equipment are performed annually.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	25,000	25,000	25,000	25,000	25,000	125,000
	Total Revenue	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000
Expense							
8208	Furniture, Fixtures &	5,000	5,000	5,000	5,000	5,000	25,000
8214	Legal Publications	300	300	300	300	300	1,500
8229	Professional Services	19,700	19,700	19,700	19,700	19,700	98,500
	Total Expense	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000
Net Total							
		-	-	-	-	-	-

WPCF Dewatering Centrifuge Replacement

Project Number:	403.4	Budget Year:	2017
Division:	810 - Wastewater Treatment	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Treatment	Regions:	
Fund:	403 - Sewer Capital Replacement	Location:	Water Pollution Control Facility
Project Manager:	Tom Dingeman	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

This project would replace the existing 1995 Alfa Laval DS 706 high solids dewatering centrifuge unit located in the Dewatering Building on the South Plant at the Water Pollution Control Facility (WPCF). Equipment evaluation, selection, and design would be performed in 2020 with procurement and installation of a new centrifuge unit in 2021. Lead time on this equipment is generally 7-9 months after the order is placed.

Discussion of Progress:

Planning

Justification:

This equipment will serve as a redundant backup unit to the new G3-125 Alfa-Laval dewatering centrifuge that became operational in 2015. Due to aging components, increasing maintenance repairs and downtime, it is anticipated that the DS-706 centrifuge may need to be replaced by 2021. Some repairs were done to the DS-706 centrifuge in December 2015. A new centrifuge would be ~30-40% more energy-efficient than the DS-706.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	-	-	136,300	970,000	1,106,300
	Total Revenue	-	-	-	\$136,300	\$970,000	\$1,106,300
Expense							
8202	Construction	-	-	-	-	850,000	850,000
8206	Design Fees	-	-	-	130,000	-	130,000
8214	Legal Publications	-	-	-	300	-	300
8226	Permits, Fees, Etc	-	-	-	3,500	-	3,500
8229	Professional Services	-	-	-	-	120,000	120,000
8240	Testing And Inspection	-	-	-	2,500	-	2,500
	Total Expense	-	-	-	\$136,300	\$970,000	\$1,106,300
Net Total							
		-	-	-	-	-	-

Replacement of Raw Sewage Pumps (3) at WPCF

Project Number:	832	Budget Year:	2017
Division:	810 - Wastewater Treatment	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Collection	Regions:	1- 16 St North/35 Ave East
Fund:	403 - Sewer Capital Replacement	Location:	Water Pollution and Control Facility
Project Manager:	Tom Dingeman	Budget Unit #:	4030083083850000
Project Status:	Funded		

Description:

This project replaces the three existing Fairbanks Morse vertical turbine raw sewage pumps at the WPCF. In 2021, pump options would be evaluated, followed by a pump selection; then the new pumps would be procured sometime in mid-late 2021 with delivery and installation in mid-2022 due to a long lead time for the manufacture and delivery of the equipment. This critical plant equipment pumps the City's raw sewage from a wet well up into the main wastewater treatment process.

Discussion of Progress:

Planning

Justification:

These pumps have been maintained according to the equipment manufacturer's recommendations. Every three years, each pump is sent back to the factory and thoroughly inspected, re-balanced, and worn parts are replaced except for the volute and impeller. These pumps were installed in 1995. Discussions with the manufacturer indicate that total pump replacement may become necessary by 2022. Significant downtime or failure of these pumps could result in a backup of sewage into the collection system (including homes and businesses) east of the plant. One or two of these pumps run continuously with the third pump serving as a backup unit.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	-	-	-	1,011,600	1,011,600
	Total Revenue	-	-	-	-	\$1,011,600	\$1,011,600
Expense							
8202	Construction	-	-	-	-	875,000	875,000
8206	Design Fees	-	-	-	-	131,000	131,000
8214	Legal Publications	-	-	-	-	300	300
8226	Permits, Fees, Etc	-	-	-	-	3,800	3,800
8242	Utility Services	-	-	-	-	1,500	1,500
	Total Expense	-	-	-	-	\$1,011,600	\$1,011,600
Net Total							
		-	-	-	-	-	-

WPCF 900KW Generator Replacement

Project Number:	403.9	Budget Year:	2017
Division:	810 - Wastewater Treatment	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Treatment	Regions:	
Fund:	403 - Sewer Capital Replacement	Location:	Water Pollution Control Facility
Project Manager:	Tom Dingeman	Budget Unit #:	4030083083890000
Project Status:	Funded		

Description:

This project replaces the existing 900KW backup generator located on the North Plant at the Water Pollution Control Facility (WPCF).

Discussion of Progress:

Planning

Justification:

The existing North Plant backup generator will be 36 years old in 2021. Due to aging components and its maintenance history, it is anticipated that this generator will need to be replaced by 2021. The typical lifespan for this type of generator is 25-40 years. This generator is a critical piece of plant equipment. When main power is lost to the North Plant, this generator will provide power to run raw sewage pumps, sludge pumps, turbo blowers, clarifier drive motors, UV disinfection system, and other ancillary pumps and motors. A planned turnkey project would add a new generator to the North Plant and help to further maximize the plant's energy savings through Xcel Energy's Interruptible Service Option Credit Program.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	-	-	-	708,800	708,800
	Total Revenue	-	-	-	-	\$708,800	\$708,800
Expense							
8202	Construction	-	-	-	-	650,000	650,000
8214	Legal Publications	-	-	-	-	300	300
8226	Permits, Fees, Etc	-	-	-	-	3,500	3,500
8229	Professional Services	-	-	-	-	50,000	50,000
8240	Testing And Inspection	-	-	-	-	5,000	5,000
	Total Expense	-	-	-	-	\$708,800	\$708,800
Net Total							
		-	-	-	-	-	-

WPCF Dewatered Sludge Cake Pump Replacement

Project Number:	403.6	Budget Year:	2017
Division:	810 - Wastewater Treatment	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Treatment	Regions:	
Fund:	403 - Sewer Capital Replacement	Location:	Water Pollution Control Facility
Project Manager:	Tom Dingeman	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

This project replaces the 1996 Schwing sludge cake pump located in the Dewatering Building on the South Plant at the WPCF. This pump delivers solids from the dewatering centrifuge to the sludge hopper for temporary storage or directly to a truck for immediate biosolids land application. This pump will serve as a redundant backup sludge cake pump. The new pump became operational in 2015. Replacement of the old pump is anticipated by 2021. A design project would commence in 2020 to select a new sludge cake pump with procurement and installation of the equipment in 2021. Lead time on this equipment is generally 5-8 months.

Discussion of Progress:

Planning

Justification:

The maintenance on the existing pump has increased in recent years. Therefore, a complete pump replacement is anticipated by 2021 based on the equipment's life expectancy, manufacturer's recommendation, and repair/maintenance history. The pump's hydraulic unit was replaced in 2015 and some safety upgrades were added.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	-	-	71,800	520,300	592,100
Total Revenue		-	-	-	\$71,800	\$520,300	\$592,100
Expense							
8202	Construction	-	-	-	-	460,000	460,000
8206	Design Fees	-	-	-	70,000	-	70,000
8214	Legal Publications	-	-	-	300	300	600
8226	Permits, Fees, Etc	-	-	-	1,500	-	1,500
8229	Professional Services	-	-	-	-	60,000	60,000
Total Expense		-	-	-	\$71,800	\$520,300	\$592,100
Net Total							
		-	-	-	-	-	-

WPCF Stream Temperature Assessment Study

Project Number:	403.5	Budget Year:	2017
Division:	810 - Wastewater Treatment	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Studies	Regions:	
Fund:	403 - Sewer Capital Replacement	Location:	
Project Manager:	Tom Dingeman	Budget Unit #:	4030083084201122
Project Status:	Funded		

Description:

This project is a continuation of work that was begun in 2015 in which a pre-hearing statement was prepared and submitted to the Colorado Department of Public Health & Environment (CDPHE). The statement was based in part on a lack of evidence relating in-stream temperature to aquatic life health. It outlines the next steps to eliminate 'uncertainty' in the local stream temperature standards. The ongoing assessment study further investigates the 'uncertainty' regarding the water quality stream standards necessary to protect current and future uses. The scope of work developed is based on the next steps needed to eliminate the uncertainty in the temperature standards. Proposed work includes temperature data assessment, aquatic life data collection and analysis, feasibility studies that analyzes possible alternative temperature management strategies, and regulatory support. Additional fish and benthic data will need to be collected over the next few years per CDPHE's recommendations.

Discussion of Progress:

This project will require plant staff to collect additional stream data over the next five years. Since this is a regulatory effort that is driven by decisions and direction from the Colorado Water Quality Control Division and Commission, the scope of work could change. The project has commenced and is progressing well. Brown & Caldwell is the consultant.

Justification:

Failure to meet the current water quality stream standards for temperature may result in the WPCF having to spend several million dollars to design and construct evaporative cooling towers or some other technology to effectively cool the final treated effluent from the wastewater treatment plant prior to its discharge into Segment 12 of the Cache la Poudre River. This technology would be required to meet the current stream standards for temperature. Plant data collected over the past several years indicate that the plant's treated effluent exceeds the current stream standards for this segment of the River often throughout the entire year. A temporary modification request was received in 2015 with the CDPHE. The ultimate goal of this study is to receive site specific standards for stream temperature or a variance by 2020.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	50,000	50,000	50,000	50,000	-	200,000
	Total Revenue	\$50,000	\$50,000	\$50,000	\$50,000	-	\$200,000
Expense							
8229	Professional Services	50,000	50,000	50,000	50,000	-	200,000
	Total Expense	\$50,000	\$50,000	\$50,000	\$50,000	-	\$200,000
Net Total							
		-	-	-	-	-	-

Nitrification Project Phase 2

Project Number:	781	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Treatment	Regions:	1- 16 St North/35 Ave East
Fund:	403 - Sewer Capital Replacement	Location:	Water Pollution Control Facility
Project Manager:	Tom Dingeman	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

Phase II would include upgrades to the wastewater treatment plant's four aeration basins to provide for biological nutrient reduction (BNR). This project is necessary in order for the WPCF to comply with State of Colorado nutrients regulations promulgated in 2012. The plant will likely have more stringent nutrient limits for total inorganic nitrogen and total phosphorus in its discharge permit by 2017. The construction phase would include all new basin gates, new baffle walls for anoxic and anaerobic zones, instream mixed liquor recycle pumping, new mixing equipment for de-nitrification, additional on-line instrumentation, a second gravity thickener to reduce solids carryover to the BNR process, and a struvite recovery system. The project also includes work to improve primary clarifier performance and provides volatile fatty acids for biological phosphorus removal. A gravity thickener and sludge pumping is added, and the project increases the capacity of the bioreactors (aeration basins). The project is planned for 2019-2020.

Discussion of Progress:

Planning

Justification:

This project is driven by the 2012 Colorado Nutrients Regulations which will require the WPCF to comply with total inorganic nitrogen (TIN) and total phosphorus (TP) limits when the plant's discharge permit is renewed in 2017. Project costs have increased to account for current conditions and provide required capacity to meet Regulation 85.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	-	956,100	10,279,600	-	11,235,700
	Total Revenue	-	-	\$956,100	\$10,279,600	-	\$11,235,700
Expense							
8202	Construction	-	-	-	9,339,000	-	9,339,000
8206	Design Fees	-	-	934,000	-	-	934,000
8214	Legal Publications	-	-	600	600	-	1,200
8226	Permits, Fees, Etc	-	-	15,000	-	-	15,000
8229	Professional Services	-	-	-	940,000	-	940,000
8240	Testing And Inspection	-	-	5,000	-	-	5,000
8242	Utility Services	-	-	1,500	-	-	1,500
	Total Expense	-	-	\$956,100	\$10,279,600	-	\$11,235,700
Net Total							
		-	-	-	-	-	-

Water Pollution Control Facility Solids Processing Improvements

Project Number:	403.2	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Treatment	Regions:	0 - Multiple Wards
Fund:	403 - Sewer Capital Replacement	Location:	Water Pollution Control Facility
Project Manager:	Tom Dingeman	Budget Unit #:	4030083083940000
Project Status:	Funded		

Description:

This Project is a continuation of the design work performed in 2015, and includes the 2016-2017 engineering construction management services, equipment procurement costs, and contractor fees for a number of new consolidated sewer capital replacement projects: 1) covers for two primary digesters; 2) mixing system for the primary digesters; 3) boiler heating system for the plant; 4) sludge thickening equipment; 5) conversion of sludge storage tank to a third primary digester; 6) south plant standby generator.

Discussion of Progress:

The procurement of new equipment and construction services is planned for 2016-2017. In 2016, the estimated engineering construction management services fee is \$615,300, and a power generation package to be covered under the Contractor's fee is estimated at \$464,900. This package will include engineering/design, generation equipment, new switchgear & associated controls, paralleling interconnect, enclosure & cold weather package, testing, concrete pads & site preparation, installation, and training. All project costs were updated in early 2016. Increased project costs have been added to the 2017 budget and is attributed to higher construction cost estimates due to changing market conditions, a more detailed understanding of the project components, higher equipment costs, and added contingency funds for unexpected project occurrences. Engineer's opinion of cost is currently 6.22M.

Justification:

This continuing work was identified in the 2012 Biosolids Master Plan ("Plan"). The Plan developed a long-term sustainable strategy for the handling, treatment and disposal of the City's wastewater treatment biosolids including a lot of prioritized capital improvement projects and timing as to when those projects would be initiated. The Plan addresses aging equipment and infrastructure deficiencies, equipment redundancy, primary clarifier treatment performance, and future solids handling and treatment needs.

Revenue Detail:

Sewer depreciation

Impact on Operating Budget:

May result in more efficient plant operations and potentially lower operating expense.

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	535,400	-	-	-	-	535,400
	Total Revenue	\$535,400	-	-	-	-	\$535,400
Expense							
8202	Construction	250,000	-	-	-	-	250,000
8204	Contingency	150,000	-	-	-	-	150,000
8214	Legal Publications	400	-	-	-	-	400
8229	Professional Services	130,000	-	-	-	-	130,000
8238	Surveying	2,500	-	-	-	-	2,500
8240	Testing And Inspection	2,500	-	-	-	-	2,500
	Total Expense	\$535,400	-	-	-	-	\$535,400
Net Total							
		-	-	-	-	-	-

WPCF Secondary Clarifier Mechanisms Replacement

Project Number:	403.7	Budget Year:	2017
Division:	810 - Wastewater Treatment	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Treatment	Regions:	0 - Multiple Wards
Fund:	403 - Sewer Capital Replacement	Location:	Water Pollution Control Facility
Project Manager:	Tom Dingeman	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

New secondary (final) clarifier mechanisms with full radius scum trough for two 85' diameter suction header clarifiers, and one 120' diameter suction header clarifier.

Discussion of Progress:

Planning

Justification:

The existing clarifier mechanisms are over 30 years old and their scum troughs are unable to effectively remove scum and foam from the clarifiers when it accumulates. When foam results from the treatment process, effluent quality is degraded which can potentially lead to permit non-compliances. The new mechanisms are built with elongated scum assemblies, wipers, and scum flushing valves. The existing mechanisms cannot be retrofitted with this new scum removal equipment technology. Also, once the plant commences with the planned biological nutrient removal (BNR) Phase II project, foam mitigation for the aeration basins and secondary clarifiers will become very important and necessary. It is recommended that this project be included as a part of the 2018-2019 Nitrification (BNR) Phase II project.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	-	138,570	978,800	-	1,117,370
	Total Revenue	-	-	\$138,570	\$978,800	-	\$1,117,370
Expense							
8202	Construction	-	-	-	883,800	-	883,800
8206	Design Fees	-	-	133,570	-	-	133,570
8226	Permits, Fees, Etc	-	-	2,500	-	-	2,500
8229	Professional Services	-	-	-	95,000	-	95,000
8240	Testing And Inspection	-	-	2,500	-	-	2,500
	Total Expense	-	-	\$138,570	\$978,800	-	\$1,117,370
Net Total							
		-	-	-	-	-	-

Sanitary Sewer Master Plan Update

Project Number:	247	Budget Year:	2017
Division:	830 - Sewer Capital Improvement	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Studies	Regions:	0 - Multiple Wards
Fund:	403 - Sewer Capital Replacement	Location:	City wide
Project Manager:	Justin Scholz	Budget Unit #:	4030083083580000
Project Status:	Funded		

Description:

Update the existing master plan to analyze the existing infrastructure with future development and growth within the City of Greeley.

Discussion of Progress:

Initiate updates to Masterplan in 2018

Justification:

The goals of the updated master plan are to refine the existing models to include newly constructed infrastructure, reevaluate capacity issues with the existing system and with future development based on the most recent master plan, and provide recommendations for capital improvements. The master plan will provide sanitary sewer basins to assist in determining how proposed developments will be served. Includes update to 208 Utility Report.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	-	605,000	-	-	-	605,000
	Total Revenue	-	\$605,000	-	-	-	\$605,000
Expense							
8206	Design Fees	-	550,000	-	-	-	550,000
8228	Printing, Copying	-	5,000	-	-	-	5,000
8232	Project Management	-	50,000	-	-	-	50,000
	Total Expense	-	\$605,000	-	-	-	\$605,000
Net Total							
		-	-	-	-	-	-

WPCF Solids Handling & Treatment Master Plan Update

Project Number:	1046	Budget Year:	2017
Division:	810 - Wastewater Treatment	Council Priority:	Infrastructure & Growth- Environmental Infrast'r
Project Type:	Sewer Replacement Treatment	Regions:	1- 16 St North/35 Ave East
Fund:	403 - Sewer Capital Replacement	Location:	Water Pollution Control Facility
Project Manager:	Tom Dingeman	Budget Unit #:	Unassigned
Project Status:	Funded		

Description:

Update the 2012 Water Pollution Control Facility (WPCF) biosolids master plan every 5 years, and incorporate the necessary changes for the planning, prioritization of work, and budgeting of future plant projects. The updated study would include such items as exploring options for the de-commissioning of the aging digester building and the three secondary anaerobic digester tanks, sludge storage tank conversion to a third primary anaerobic digester, options for additional onsite sludge storage, biogas utilization, energy conservation, solids reduction technologies, etc.

Discussion of Progress:

Updated every five years. The next update will be done in 2017. Early planning of project will commence in late 2016.

Justification:

To keep the master plan current with new regulations, treatment technologies, equipment, project priorities and available funding. To further reduce energy and annual operation & maintenance (O&M) costs at the WPCF.

Revenue Detail:

None

Impact on Operating Budget:

None

GL	Description	2017	2018	2019	2020	2021	Total
Revenue							
5638	Funded Depreciation	340,300	-	-	-	-	340,300
	Total Revenue	\$340,300	-	-	-	-	\$340,300
Expense							
8206	Design Fees	340,000	-	-	-	-	340,000
8214	Legal Publications	300	-	-	-	-	300
	Total Expense	\$340,300	-	-	-	-	\$340,300
Net Total							
		-	-	-	-	-	-

Water Operating Budget

2017-2018

Detail Expenditures for Water Fund 404

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
Administration	Regular Employees	393,936	470,292	503,755	627,069	664,153	Operations Manager filled
	Salaries & Wages - Seasonal	6,623	-	-	-	-	
	Overtime-Regular	10,160	5,000	5,000	10,000	10,000	
	Accrued Payroll	494	-	-	-	-	
	Disability	1,734	1,927	2,267	3,294	3,662	
	Health	48,706	98,272	108,065	123,849	138,629	
	Life	1,005	789	874	1,308	1,441	
	Dental	2,063	2,940	3,174	3,861	3,930	
	Workers Compensation	1,784	4,843	5,778	2,211	2,455	
	General Employees	15,675	18,811	20,150	25,084	26,564	
	401K	6,069	9,407	10,075	12,041	12,751	
	FICA	23,979	29,159	31,232	38,879	41,178	
	Medicare	5,729	6,819	7,305	9,094	9,632	
	Office Supplies & Materials	7,370	10,000	10,000	10,000	10,000	
	Medical/Chemical	10	-	-	-	-	
	Clothing And Uniforms	196	-	-	-	-	
	Fleet Fuel	222	887	927	357	370	
	Other Operating Supplies	14,239	5,450	5,450	10,000	10,000	
	Machinery,Vehicle & Equipment Parts	4	-	-	-	-	
	General Maint Supplies	80	1,400	1,400	500	500	
	Small Items Of Equipment \$100 - \$5,000	146,538	145,687	5,000	5,000	5,000	
	Postage	3,310	3,050	3,050	3,150	3,150	
	Advertising	413	1,000	1,000	1,000	1,000	
	In-House Copying	9,761	10,000	10,000	11,000	11,000	
	Outside Printing	6,289	4,500	4,500	6,000	6,000	
	Publications, Subscriptions, and Dues	12,603	20,000	20,000	18,000	18,000	
	Water/Sewer/Stormwater	17,441	15,750	15,750	18,500	18,500	
	Telephone	3,833	3,000	3,000	4,000	4,000	
	Other Professional Services - White collar	56,353	79,170	79,170	79,170	79,170	
	Equipment Maintenance Charges	1,012	2,500	2,500	1,178	1,260	
	Other Repair Maintenance Services	2,864	400	400	400	400	
	Hotel & Motel	300	600	600	1,000	1,000	
	Meals	66	200	200	200	200	
	Air Travel	696	-	-	-	-	
	Mileage	1,573	1,300	1,300	1,300	1,300	
	Other Travel	106	-	-	-	-	
	Registration	4,935	10,000	10,000	10,000	10,000	
	Other Purchased Services - Blue Collar	3,468	2,150	2,150	3,500	3,500	
	Rent	96,690	94,800	94,800	96,000	97,000	
	Bank/Investment Charges	104,609	135,000	135,000	135,000	135,000	
	Miscellaneous	1,735	-	-	-	-	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Grants-Outside Public Agency	1,050	-	-	-	-	
	Bad Debt Expenses	(857)	-	-	-	-	
Administration Total		1,014,865	1,195,103	1,103,872	1,271,945	1,330,745	
Engineering	Regular Employees	146,761	146,889	8,346	262,482	281,934	Chief Engineer filled
	Salaries & Wages - Seasonal	5,942	6,400	6,400	6,400	6,400	
	Termination Leave Payout	11,653	-	-	-	-	
	Overtime-Regular	126	-	-	-	-	
	Accrued Payroll	2,414	-	-	-	-	
	Disability	571	1,932	1,917	1,593	1,810	
	Health	15,452	69,024	63,038	39,104	45,392	
	Life	326	760	713	514	588	
	Dental	555	2,065	1,852	1,126	1,140	
	Workers Compensation	4,382	14,561	12,273	4,175	5,059	
	General Employees	5,473	18,846	17,044	11,310	12,111	
	401K	2,737	9,422	6,874	5,343	5,726	
	FICA	9,416	29,212	21,313	16,675	17,894	
	Medicare	2,202	6,832	4,985	3,901	4,187	
	Office Supplies & Materials	329	1,100	1,100	1,100	1,100	
	Fleet Fuel	1,694	2,380	2,485	1,842	1,914	
	Other Operating Supplies	780	200	200	500	500	
	Machinery,Vehicle & Equipment Parts	56	150	150	150	150	
	Small Items Of Equipment \$100 - \$5,000	2,224	1,000	1,000	1,500	1,500	
	Postage	-	150	150	150	150	
	Advertising	36	300	300	150	150	
	Outside Printing	78	1,500	1,500	750	750	
	Publications, Subscriptions, and Dues	496	2,500	2,500	2,500	2,500	
	Telephone	12,472	4,200	4,200	4,200	4,200	
	Architectural/Engineering	-	15,000	12,000	15,000	15,000	
	Other Professional Services - White collar	-	19,000	22,000	19,000	19,000	
	Equipment Maintenance Charges	2,073	6,000	6,000	6,073	6,498	
	Other Repair Maintenance Services	-	300	300	-	-	
	Hotel & Motel	-	-	-	1,200	1,200	
	Meals	-	205	205	300	300	
	Air Travel	-	500	500	1,000	1,000	
	Mileage	109	-	-	500	500	
	Other Travel	17	-	-	100	100	
	Registration	3,555	5,060	5,060	5,060	5,060	
	Other Purchased Services - Blue Collar	-	200	200	12,000	12,000	
	Rent	63	-	-	-	-	
Engineering Total		231,991	365,688	204,605	425,698	455,813	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
Utility Construction Inspection	Regular Employees	54,988	61,438	94,696	51,529	56,104	
	Termination Leave Payout	2,736	-	-	-	-	
	Overtime-Regular	1,992	-	-	-	-	
	Accrued Payroll	(711)	-	-	-	-	
	Disability	216	252	427	354	409	
	Health	11,770	11,700	19,299	11,623	13,641	
	Life	137	101	163	102	121	
	Dental	317	350	567	326	328	
	Workers Compensation	1,316	1,148	2,358	223	401	
	General Employees	2,156	2,457	3,786	2,376	2,569	
	401K	1,078	1,229	1,896	1,107	1,199	
	FICA	3,512	3,809	5,871	3,351	3,639	
	Medicare	821	890	1,373	785	850	
	Office Supplies & Materials	59	150	150	150	150	
	Medical/Chemical	46	30	30	30	30	
	Clothing And Uniforms	720	1,740	1,740	1,740	1,740	
	Fleet Fuel	5,754	6,300	6,552	3,673	3,817	
	Other Operating Supplies	493	150	150	150	150	
	General Maint Supplies	14	50	50	50	50	
	Small Items Of Equipment \$100 - \$5,000	446	120	120	120	120	
	In-House Copying	196	150	150	150	150	
	Outside Printing	16	25	25	25	25	
	Publications, Subscriptions, and Dues	-	441	441	441	441	
	Telephone	1,038	750	750	750	750	
	Equipment Maintenance Charges	6,204	3,450	3,450	4,607	4,929	
	Hotel & Motel	-	250	250	500	500	
	Meals	113	-	-	-	-	
	Air Travel	-	150	150	150	150	
Other Travel	18	-	-	-	-		
Registration	280	1,610	1,610	1,985	1,700		
Other Purchased Services - Blue Collar	320	-	-	-	-		
Utility Construction Inspection Total		96,049	98,740	146,054	86,297	93,963	
Service and Meters	Regular Employees	231,404	222,675	233,177	249,453	264,205	
	Salaries & Wages - Seasonal	-	16,800	-	-	-	
	Overtime-Regular	5,899	5,425	5,425	7,875	8,400	
	Accrued Payroll	1,377	-	-	-	-	
	Disability	977	912	1,051	1,310	1,458	
	Health	50,634	64,345	70,757	68,118	76,247	
	Life	581	393	425	542	595	
	Dental	1,787	1,925	2,079	2,123	2,161	
Workers Compensation	9,440	7,233	7,761	9,821	10,931		

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Worker Compensation/Seasonal	-	363	-	375	375	
	General Employees	8,868	8,908	9,326	9,979	10,567	
	401K	4,434	4,453	4,663	4,791	5,071	
	FICA	13,081	13,805	14,456	15,465	16,381	
	FICA Seasonal	-	1,286	-	1,285	1,285	
	Medicare	3,059	3,228	3,380	3,618	3,831	
	Office Supplies & Materials	36	300	300	315	315	
	Medical/Chemical	67	300	300	315	315	
	Clothing And Uniforms	2,235	2,250	2,250	2,350	2,350	
	Fleet Fuel	10,057	17,887	18,676	11,976	12,445	
	Other Operating Supplies	15,190	2,950	2,950	5,100	5,100	
	Machinery,Vehicle & Equipment Parts	124	1,033	1,033	1,033	1,033	
	Water,Sewer,Irrigation Line Repair Parts	3,812	8,000	8,360	8,360	8,610	
	General Maint Supplies	2,795	12,300	12,854	12,850	12,850	
	Small Items Of Equipment \$100 - \$5,000	895	3,700	3,700	3,700	3,800	
	Postage	3	30	30	30	30	
	In-House Copying	238	-	-	-	-	
	Outside Printing	699	250	250	350	350	
	Publications, Subscriptions, and Dues	-	300	300	50	50	
	Electric	2,860	4,860	4,860	5,000	5,200	
	Natural Gas	-	5,304	5,304	5,500	5,700	
	Telephone	1,698	2,730	2,730	2,100	2,100	
	Other Professional Services - White collar	840	12,000	12,000	2,100	2,100	
	Equipment Maintenance Charges	10,197	10,450	10,920	5,616	6,009	
	Other Repair Maintenance Services	-	300	300	310	310	
	Registration	95	150	150	1,025	1,025	
	Other Purchased Services - Blue Collar	103	3,099	3,099	10,300	10,300	
	Rent	2,640	3,148	3,148	3,200	3,200	
Service and Meters Total		386,125	443,092	446,014	456,335	484,699	
Transmission-Reservoir	Regular Employees	368,025	325,078	380,215	409,718	433,949	
	Salaries & Wages - Seasonal	21,177	17,500	18,200	19,300	19,300	
	Overtime-Regular	41,308	22,505	23,293	24,000	24,725	
	Accrued Payroll	1,092	-	-	-	-	
	Disability	1,594	1,332	1,712	2,152	2,393	
	Health	72,294	81,893	90,055	86,695	97,041	
	Life	940	562	669	861	950	
	Dental	2,280	2,450	2,646	2,702	2,751	
	Workers Compensation	17,640	10,798	12,433	17,618	19,614	
	Worker Compensation/Seasonal	-	1,610	1,610	1,700	1,700	
	General Employees	14,474	13,003	15,207	16,389	17,358	
	401K	7,237	6,502	7,605	7,866	8,333	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	FICA	25,209	20,154	23,573	25,403	26,905	
	FICA Seasonal	-	1,339	1,393	1,450	1,450	
	Medicare	5,896	4,714	5,511	5,941	6,292	
	Office Supplies & Materials	1,791	2,262	2,262	2,350	2,350	
	Medical/Chemical	34,511	37,015	38,680	43,780	45,100	
	Clothing And Uniforms	5,198	5,790	6,060	6,250	6,400	
	Gas And Diesel Fuel	41	-	-	-	-	
	Fleet Fuel	16,277	31,969	33,369	18,161	18,871	
	Other Operating Supplies	5,391	4,000	4,000	5,550	5,700	
	Machinery,Vehicle & Equipment Parts	1,153	3,600	3,600	3,800	3,800	
	Water,Sewer,Irrigation Line Repair Parts	10,128	12,000	12,360	12,900	12,900	
	General Maint Supplies	29,554	22,000	22,000	23,000	23,000	
	Street & Traffic Repair and Maintenance Supplies	1,584	1,000	1,000	1,600	1,600	
	Plant Materials	816	1,000	1,000	1,050	1,050	
	Small Items Of Equipment \$100 - \$5,000	4,375	6,204	6,204	5,400	5,400	
	Postage	56	10	10	50	50	
	In-House Copying	679	170	170	725	725	
	Outside Printing	152	142	142	150	150	
	Publications, Subscriptions, and Dues	335	814	814	825	825	
	Electric	160,917	243,280	243,280	250,000	257,500	
	Natural Gas	5,034	7,210	7,210	7,210	7,400	
	Telephone	13,796	13,070	13,070	13,800	14,200	
	Other Utility	647	574	574	680	680	
	Other Professional Services - White collar	-	2,737	2,737	2,800	2,800	
	Machine, Vehicle, Equipment	2,601	1,000	1,000	2,700	2,700	
	Equipment Maintenance Charges	23,132	18,499	19,050	25,834	27,642	
	Buildings	-	2,000	2,000	850	875	
	Streets, Roads, Traffic Lights	-	2,000	2,000	1,000	655	
	Other Repair Maintenance Services	718	1,093	1,093	1,450	2,550	
	Hotel & Motel	216	-	-	-	-	
	Meals	99	-	-	-	-	
	Mileage	20	-	-	-	-	
	Registration	7,594	5,283	5,283	8,050	8,050	
	Other Purchased Services - Blue Collar	10,565	7,775	7,775	10,750	10,750	
	Rent	2,663	4,125	4,125	4,300	4,300	
Transmission-Reservoir Total		919,205	946,062	1,024,990	1,076,810	1,130,784	
Distribution	Regular Employees	667,416	650,480	844,886	1,012,180	1,064,647	Operations re-organization moved positions here
	Termination Leave Payout	1,558	-	-	-	-	
	Overtime-Regular	119,052	120,000	124,200	129,925	133,850	
	Accrued Payroll	(1,712)	-	-	-	-	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Disability	2,945	2,665	3,242	4,656	5,182	
	Health	158,357	175,485	205,840	210,544	235,670	
	Life	1,723	1,139	1,302	1,893	2,074	
	Dental	5,668	5,250	6,048	6,562	6,682	
	Workers Compensation	30,747	23,831	27,745	37,968	42,265	
	General Employees	26,280	26,018	28,792	35,486	37,587	
	401K	12,398	13,011	14,397	17,034	18,038	
	FICA	45,399	40,327	44,631	55,001	58,261	
	Medicare	10,617	9,429	10,437	12,865	13,622	
	Office Supplies & Materials	509	1,543	1,543	1,600	1,600	
	Medical/Chemical	4,879	1,234	1,234	1,300	1,300	
	Clothing And Uniforms	13,823	13,210	13,210	14,000	14,000	
	Gas And Diesel Fuel	137	-	-	-	-	
	Fleet Fuel	44,945	73,775	76,884	50,877	55,532	
	Other Operating Supplies	4,103	3,568	3,568	3,750	3,750	
	Machinery,Vehicle & Equipment Parts	3,701	9,153	9,153	9,700	9,700	
	Water,Sewer,Irrigation Line Repair Parts	3,955	12,000	13,230	13,400	13,400	
	General Maint Supplies	22,390	20,000	20,000	21,300	21,300	
	Street & Traffic Repair and Maintenance Supplies	10,695	26,125	26,125	20,600	20,600	
	Plant Materials	-	70	70	70	70	
	Small Items Of Equipment \$100 - \$5,000	2,710	6,200	6,200	6,325	6,325	
	Postage	35	45	45	45	45	
	In-House Copying	2,553	4,068	4,068	4,150	4,150	
	Outside Printing	169	356	356	365	365	
	Publications, Subscriptions, and Dues	941	311	311	325	325	
	Electric	3,913	5,868	6,337	6,600	6,600	
	Natural Gas	4,823	4,223	4,223	4,400	4,400	
	Telephone	5,867	6,420	6,420	6,650	6,650	
	Other Utility	-	60	60	60	60	
	Other Professional Services - White collar	19,633	32,740	35,356	31,000	31,000	
	Machine, Vehicle, Equipment	760	3,000	3,000	3,125	3,125	
	Equipment Maintenance Charges	95,058	74,000	76,000	95,471	102,154	
	Buildings	1,458	120	120	120	120	
	Streets, Roads, Traffic Lights	18,719	51,742	54,070	51,500	51,500	
	Other Repair Maintenance Services	445	1,000	1,000	1,050	1,050	
	Mileage	545	500	500	515	515	
	Registration	11,032	5,500	6,143	11,800	11,800	
	Other Purchased Services - Blue Collar	41,270	17,000	17,500	30,500	30,500	
	Rent	1,337	1,500	1,500	1,550	1,550	
Distribution Total		1,400,854	1,442,966	1,699,746	1,916,262	2,021,364	

Inventory	Inventory	324,847	232,158	232,158	275,000	275,000	Offset by inventory sales
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Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
Inventory Total		324,847	232,158	232,158	275,000	275,000	
Non-Potable Operations							
	Regular Employees	142,420	189,442	153,139	158,731	168,119	
	Salaries & Wages - Seasonal	23,783	18,400	18,400	18,950	19,500	
	Overtime-Regular	8,211	8,000	8,000	8,250	8,500	
	Accrued Payroll	(1,528)	-	-	-	-	
	Disability	586	777	689	834	927	
	Health	40,071	46,796	38,595	37,155	41,589	
	Life	351	328	273	337	372	
	Dental	695	1,400	1,134	1,158	1,179	
	Workers Compensation	6,977	6,764	5,468	6,826	7,600	
	Worker Compensation/Seasonal	-	1,058	1,058	1,100	1,100	
	General Employees	5,288	7,577	6,126	6,350	6,724	
	401K	2,644	3,790	3,063	3,048	3,228	
	FICA	10,155	11,745	9,495	9,842	10,423	
	FICA Seasonal	-	1,408	1,408	1,500	1,500	
	Medicare	2,375	2,746	2,221	2,302	2,439	
	Office Supplies & Materials	20	422	422	450	450	
	Medical/Chemical	737	3,300	3,300	2,150	2,150	
	Clothing And Uniforms	1,890	4,540	4,540	4,650	4,800	
	Fleet Fuel	10,389	16,665	17,394	11,498	11,948	
	Other Operating Supplies	1,137	1,028	1,028	1,050	1,050	
	Machinery,Vehicle & Equipment Parts	2,093	11,490	11,490	12,000	12,000	
	Water,Sewer,Irrigation Line Repair Parts	2,215	1,340	1,340	1,400	1,400	
	General Maint Supplies	10,968	17,168	17,168	17,700	18,200	
	Street & Traffic Repair and Maintenance Supplies	21	2,159	2,159	2,250	2,250	
	Plant Materials	51	514	514	530	560	
	Small Items Of Equipment \$100 - \$5,000	13,290	6,500	6,500	6,800	6,800	
	Postage	-	100	100	100	100	
	In-House Copying	149	-	-	-	-	
	Outside Printing	-	93	93	100	100	
	Publications, Subscriptions, and Dues	-	450	450	475	475	
	Electric	207,281	395,443	427,078	440,000	440,000	
	Telephone	3,755	6,680	6,680	6,900	6,900	
	Other Utility	-	31	31	35	35	
	Other Professional Services - White collar	-	411	411	425	425	
	Equipment Maintenance Charges	12,118	22,648	25,164	16,848	18,027	
	Grounds	-	514	514	525	525	
	Buildings	-	2,159	2,159	2,250	2,250	
	Other Repair Maintenance Services	3,566	10,620	10,620	11,000	11,000	
	Registration	2,500	5,000	5,000	5,200	5,200	
	Other Purchased Services - Blue Collar	10,311	9,250	9,250	11,000	11,000	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Rent	2,654	2,196	2,196	2,300	2,300	
	Transportation/Vehicles	34,147	50,000	-	-	-	
Non-Potable Operations Total		561,320	870,952	804,670	814,019	833,145	
Water Resources	Regular Employees	542,161	908,315	1,054,040	704,765	749,152	Vacancies not budgeted
	Termination Leave Payout	15,457	-	-	-	-	
	Overtime-Regular	66	-	-	-	-	
	Accrued Payroll	1,158	-	-	-	-	
	Disability	2,391	3,726	4,741	3,849	4,307	
	Health	56,998	128,680	154,371	100,902	114,067	
	Life	1,320	1,460	1,758	1,415	1,576	
	Dental	1,683	3,763	4,442	2,929	2,978	
	Workers Compensation	15,731	21,767	26,373	21,943	24,712	
	General Employees	22,313	36,332	42,161	28,748	30,541	
	401K	9,562	18,167	21,081	13,739	14,599	
	FICA	34,796	56,316	65,351	43,971	46,733	
	Medicare	8,138	13,171	15,285	10,285	10,930	
	Office Supplies & Materials	444	515	515	540	540	
	Medical/Chemical	20	-	-	-	-	
	Other Operating Supplies	1,767	1,000	1,000	1,060	1,060	
	General Maint Supplies	91	-	-	-	-	
	Small Items Of Equipment \$100 - \$5,000	5,063	17,500	17,500	17,500	1,800	
	Postage	9	-	-	-	-	
	Advertising	504	-	-	-	-	
	Outside Printing	55	-	-	-	-	
	Publications, Subscriptions, and Dues	2,711	1,200	1,200	2,700	2,700	
	Electric	25,754	45,000	45,000	55,000	55,000	
	Water/Sewer/Stormwater	1,520	1,729	1,791	1,850	1,900	
	Natural Gas	-	-	-	-	-	
	Telephone	6,125	6,508	6,703	6,900	7,100	
	Legal	275,768	300,000	300,000	300,000	300,000	
	Architectural/Engineering	292,444	300,000	300,000	300,000	300,000	
	Other Professional Services - White collar	1,691	-	-	-	-	
	Hotel & Motel	2,004	-	-	2,000	2,000	
	Meals	372	-	-	-	-	
	Mileage	5,368	7,000	7,000	7,000	7,000	
	Other Travel	1,890	1,240	1,240	1,240	1,240	
	Registration	14,702	10,100	10,100	10,100	10,100	
	Other Purchased Services - Blue Collar	6	1,658	1,658	1,750	1,750	
	Assessment Fees	3,149,320	3,621,000	3,978,000	2,920,000	2,920,000	Original Windy Gap debt payment completed in 2016
	Grants-Outside Public Agency	1,800	-	-	-	-	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
Water Resources Total		4,501,201	5,506,147	6,061,310	4,560,186	4,611,785	
Bellvue Filter Plant	Regular Employees	545,064	567,860	527,852	640,191	678,052	Filling vacant operator position
	Salaries & Wages - Seasonal	13,860	26,000	52,000	52,000	52,000	
	Overtime-Regular	47,844	4,000	4,000	4,000	4,000	
	Accrued Payroll	2,013	-	-	-	-	
	Disability	2,327	2,327	2,378	3,362	3,739	
	Health	74,214	116,990	115,785	117,657	131,698	
	Life	1,350	954	917	1,327	1,464	
	Dental	2,705	3,500	3,402	3,667	3,734	
	Workers Compensation	24,371	20,275	18,845	27,527	30,650	
	Worker Compensation/Seasonal	-	658	658	658	658	
	General Employees	21,325	22,712	21,112	25,609	27,120	
	401K	9,978	11,357	10,559	12,293	13,018	
	FICA	35,606	35,208	32,727	39,692	42,039	
	FICA Seasonal	-	875	875	875	875	
	Medicare	8,327	8,235	7,654	9,284	9,832	
	Office Supplies & Materials	642	1,200	1,200	1,200	1,200	
	Medical/Chemical	640,879	731,451	820,000	826,000	826,000	
	Clothing And Uniforms	3,671	3,500	3,500	4,050	4,050	
	Gas And Diesel Fuel	1,752	-	-	-	-	
	Fleet Fuel	7,159	16,206	16,784	7,749	8,052	
	Other Operating Supplies	721	2,050	2,050	2,050	2,050	
	Machinery,Vehicle & Equipment Parts	10,432	23,137	23,137	23,137	23,137	
	Water,Sewer,Irrigation Line Repair Parts	485	1,025	1,025	1,025	1,025	
	General Maint Supplies	31,381	15,420	15,420	31,000	31,000	
	Street & Traffic Repair and Maintenance Supplies	-	150	150	2,000	150	
	Plant Materials	52	250	250	250	250	
	Small Items Of Equipment \$100 - \$5,000	8,324	18,800	18,800	18,800	18,800	
	Postage	5	100	100	100	100	
	Advertising	-	100	100	500	500	
	In-House Copying	185	350	350	500	500	
	Outside Printing	-	150	150	150	150	
	Publications, Subscriptions, and Dues	175	600	600	600	600	
	Electric	123,149	145,000	155,000	155,000	162,750	
	Natural Gas	5,998	41,200	41,200	41,200	41,200	
	Telephone	6,633	7,200	7,200	15,000	15,000	
	Other Utility	1,156	2,500	2,500	2,500	2,500	
	Other Professional Services - White collar	5,803	7,910	7,910	7,910	7,910	
	Machine, Vehicle, Equipment	5,258	-	-	-	-	
	Equipment Maintenance Charges	5,353	10,800	10,800	10,108	10,816	
	Buildings	2,123	2,050	2,050	2,200	2,200	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Streets, Roads, Traffic Lights	-	500	500	500	500	
	Other Repair Maintenance Services	40	4,100	4,100	10,000	10,000	
	Hotel & Motel	107	-	-	-	-	
	Meals	9	-	-	-	-	
	Mileage	362	-	-	-	-	
	Registration	1,135	9,000	9,000	9,000	9,000	
	Other Purchased Services - Blue Collar	106,948	160,000	90,000	120,000	120,000	
	Rent	1,343	3,000	3,000	3,000	3,000	
Bellvue Filter Plant Total		1,760,263	2,028,700	2,035,640	2,233,671	2,301,319	
High Mountain Reservoirs	Regular Employees	186,636	175,829	184,911	264,786	280,446	
	Salaries & Wages - Seasonal	4,163	13,520	13,520	14,560	14,560	
	Overtime-Regular	652	5,000	5,000	5,000	5,000	
	Accrued Payroll	635	-	-	-	-	
	Disability	748	721	832	1,390	1,546	
	Health	41,316	35,097	38,595	49,540	55,452	
	Life	478	295	321	550	606	
	Dental	1,350	1,050	1,134	1,544	1,572	
	Workers Compensation	8,424	6,277	6,602	11,386	12,678	
	General Employees	7,300	7,033	7,397	10,592	11,216	
	401K	3,650	3,517	3,698	5,084	5,384	
	FICA	10,933	10,901	11,464	16,418	17,388	
	Medicare	2,557	2,549	2,682	3,840	4,068	
	Office Supplies & Materials	883	600	600	600	600	
	Medical/Chemical	8	1,125	1,125	1,125	1,125	
	Clothing And Uniforms	1,725	915	915	943	972	
	Gas And Diesel Fuel	1,492	-	-	-	-	
	Fleet Fuel	10,844	20,364	21,261	13,036	13,547	
	Other Operating Supplies	2,762	2,783	2,783	2,869	2,957	
	Machinery,Vehicle & Equipment Parts	11,531	14,579	14,579	15,030	15,495	
	General Maint Supplies	6,072	17,781	17,781	18,330	18,896	
	Street & Traffic Repair and Maintenance Supplies	470	338	338	338	338	
	Small Items Of Equipment \$100 - \$5,000	200	1,000	1,000	1,000	1,000	
	Postage	-	100	100	100	100	
	Outside Printing	-	600	600	600	600	
	Publications, Subscriptions, and Dues	-	300	300	300	300	
	Electric	5,222	2,929	2,929	3,019	3,112	
	Telephone	6,437	7,417	7,417	7,807	8,218	
	Other Utility	177	-	-	-	-	
	Other Professional Services - White collar	9,494	177,878	7,878	8,292	8,548	
	Machine, Vehicle, Equipment	4,876	-	-	-	-	
	Equipment Maintenance Charges	11,269	10,528	10,966	11,232	12,018	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Buildings	416	10,721	10,721	10,721	10,750	
	Meals	499	-	-	-	-	
	Registration	50	-	-	-	-	
	Other Purchased Services - Blue Collar	138,835	150,000	-	-	-	
	Rent	3,105	7,595	7,595	7,830	8,072	
	Grants-Outside Public Agency	16,667	30,000	-	-	-	
High Mountain Reservoirs Total		501,877	719,342	385,044	487,862	516,564	
Water Conservation Program	Regular Employees	157,305	178,090	187,046	185,875	196,869	
	Salaries & Wages - Seasonal	44,878	42,850	42,850	42,850	42,850	
	Overtime-Regular	3,204	4,000	4,000	4,000	4,000	
	Accrued Payroll	818	-	-	-	-	
	Disability	699	730	841	977	1,086	
	Health	38,868	43,286	47,601	45,825	51,293	
	Life	395	307	333	397	438	
	Dental	1,420	1,295	1,399	1,428	1,454	
	Workers Compensation	1,407	3,300	3,456	2,203	2,451	
	General Employees	6,114	7,123	7,482	7,436	7,873	
	401K	2,691	3,562	3,741	3,569	3,780	
	FICA	11,846	11,042	11,597	11,525	12,206	
	Medicare	2,770	2,582	2,713	2,696	2,856	
	Office Supplies & Materials	4,010	1,200	1,200	1,200	1,200	
	Medical/Chemical	9	-	-	-	-	
	Clothing And Uniforms	875	300	300	300	300	
	Fleet Fuel	1,341	1,805	1,885	1,405	1,460	
	Other Operating Supplies	53,568	37,000	37,000	37,000	37,000	
	Machinery,Vehicle & Equipment Parts	157	150	150	150	150	
	Water,Sewer,Irrigation Line Repair Parts	3,757	370	370	370	370	
	General Maint Supplies	2,746	127	127	127	127	
	Street & Traffic Repair and Maintenance Supplies	49	500	500	500	500	
	Plant Materials	2,500	4,000	4,000	4,000	4,000	
	Small Items Of Equipment \$100 - \$5,000	682	1,000	1,000	1,000	1,000	
	Postage	619	2,000	2,000	2,000	2,000	
	Advertising	17,646	15,000	15,000	15,000	15,000	
	Outside Printing	9,457	10,000	10,000	10,000	10,000	
	Publications, Subscriptions, and Dues	15,170	8,000	8,000	8,000	8,000	
	Telephone	3,139	2,000	2,000	2,000	2,000	
	Other Utility	-	200	200	200	200	
	Architectural/Engineering	50,500	60,000	60,000	60,000	60,000	
	Other Professional Services - White collar	3,290	4,000	4,000	4,000	4,000	
	Equipment Maintenance Charges	4,173	2,000	2,000	3,369	3,605	
	Grounds	167	500	500	500	500	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Hotel & Motel	1,168	-	-	-	-	
	Meals	314	-	-	-	-	
	Air Travel	678	-	-	-	-	
	Mileage	2,258	-	-	-	-	
	Other Travel	191	-	-	-	-	
	Registration	3,212	5,000	5,000	5,000	5,000	
	Other Purchased Services - Blue Collar	11,561	3,000	3,000	3,000	3,000	
	Rent	1,480	-	-	-	-	
	Rebates	49,532	85,000	85,000	85,000	85,000	
	Grants-Outside Public Agency	-	7,500	7,500	7,500	7,500	
Water Conservation Program Total		516,663	548,819	563,791	560,402	579,068	
Boyd Lake Filter Plant	Regular Employees	521,278	472,574	557,384	475,147	503,250	Water Quality Advisor retirement (a succession program overfilled position)
	Salaries & Wages - Seasonal	48,936	41,217	41,217	50,000	50,000	
	Overtime-Regular	5,573	-	-	-	-	
	Overtime Seasonal	-	525	525	5,000	5,000	
	Accrued Payroll	1,617	-	-	-	-	
	Disability	2,282	1,936	2,510	2,497	2,776	
	Health	102,809	93,592	115,785	99,080	110,904	
	Life	1,314	790	962	997	1,101	
	Dental	2,726	2,800	3,402	3,088	3,144	
	Workers Compensation	25,397	17,395	19,804	20,430	22,750	
	Worker Compensation/Seasonal	-	2,600	2,600	2,600	2,600	
	General Employees	20,652	18,901	22,294	19,009	20,127	
	401K	9,429	9,451	11,151	9,125	9,661	
	FICA	33,138	29,300	34,558	29,460	31,199	
	FICA Seasonal	-	3,459	3,459	3,459	3,459	
	Medicare	7,750	6,853	8,083	6,892	7,299	
	Office Supplies & Materials	1,055	411	411	900	900	
	Medical/Chemical	670,006	746,165	839,644	839,644	839,644	
	Clothing And Uniforms	2,801	2,500	2,500	3,500	3,500	
	Fleet Fuel	7,974	12,105	12,613	8,913	9,261	
	Other Operating Supplies	2,063	2,000	2,000	2,000	2,000	
	Machinery, Vehicle & Equipment Parts	8,411	8,000	8,000	12,000	12,000	
	Water, Sewer, Irrigation Line Repair Parts	95	-	-	-	-	
	General Maint Supplies	21,817	20,000	20,000	26,000	26,000	
	Street & Traffic Repair and Maintenance Supplies	670	-	-	-	-	
	Plant Materials	86	-	-	-	-	
	Small Items Of Equipment \$100 - \$5,000	4,751	8,000	8,000	11,000	11,000	
	Postage	68	-	-	-	-	

Budget Category	Account	Actual	Budget			Notes	
		2015	2015	2016	2017		2018
	In-House Copying	399	300	300	300	300	
	Publications, Subscriptions, and Dues	87	500	500	500	500	
	Electric	277,953	333,649	376,581	395,410	415,180	
	Water/Sewer/Stormwater	6,569	3,000	3,000	3,000	3,000	
	Telephone	2,783	4,000	4,000	4,000	4,000	
	Other Utility	431	1,100	1,100	1,100	1,100	
	Other Professional Services - White collar	-	6,000	6,000	6,000	6,000	
	Machine, Vehicle, Equipment	1,022	5,000	5,000	6,000	6,000	
	Equipment Maintenance Charges	7,766	9,000	9,000	10,108	10,816	
	Buildings	1,887	-	-	-	-	
	Hotel & Motel	-	600	600	600	600	
	Meals	113	600	600	600	600	
	Mileage	567	800	800	800	800	
	Other Travel	18	-	-	-	-	
	Registration	1,685	7,100	7,100	7,100	7,100	
	Tuition	400	-	-	-	-	
	Other Purchased Services - Blue Collar	180,398	221,668	141,668	222,000	222,000	Sludge hauling costs increasing
	Rent	2,704	1,541	1,541	2,000	2,000	
Boyd Lake Filter Plant Total		1,987,481	2,095,432	2,274,692	2,290,259	2,357,571	
Water Quality	Publications, Subscriptions, and Dues	20,000	10,000	10,000	10,000	10,000	
	Architectural/Engineering	183,346	218,075	218,075	301,650	317,200	
	Other Purchased Services - Blue Collar	21,008	16,541	16,541	17,350	18,250	
	Rent	321	-	-	-	-	
Water Quality Total		224,675	244,616	244,616	329,000	345,450	
Water Fund 404 Total		14,427,416	16,737,817	17,227,202	16,783,746	17,337,270	

Sewer Operating Budget

2017-2018

Detail Expenditures for Sewer Fund 401

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
Engineering	Regular Employees	61,676	73,314	41,489	121,175	127,696	Engineer moved to Sewer, Chief Eng filled
	Termination Leave Payout	401	-	-	-	-	
	Accrued Payroll	(652)	-	-	-	-	
	Disability	313	411	373	681	760	
	Health	17,538	12,869	14,152	13,633	15,393	
	Life	177	160	140	238	264	
	Dental	316	385	416	405	404	
	Workers Compensation	812	3,581	577	3,408	3,824	
	General Employees	2,773	4,013	3,319	5,015	5,290	
	401K	1,386	2,006	1,660	2,390	2,520	
	FICA	4,008	6,219	5,145	7,597	8,008	
	Medicare	937	1,455	1,204	1,777	1,873	
	Office Supplies & Materials	277	200	200	300	300	
	Other Operating Supplies	565	200	200	300	300	
	Small Items Of Equipment \$100 - \$5,000	5,015	1,500	1,500	1,500	1,500	
	Postage	-	600	600	200	200	
	Advertising	-	300	300	300	300	
	Outside Printing	-	100	100	100	100	
	Publications, Subscriptions, and Dues	17,836	20,506	20,506	20,506	20,506	
	Telephone	606	750	750	750	750	
	Other Professional Services - White collar	-	10,000	10,000	10,000	10,000	
	Registration	53	1,060	1,060	1,060	1,060	
Engineering Total		114,036	139,629	103,691	191,335	201,048	
Sewer Administration	Regular Employees	73,361	73,979	78,045	137,883	146,038	Operations Manager filled
	Accrued Payroll	602	-	-	-	-	
	Disability	313	304	351	723	806	
	Health	3,348	10,529	11,579	16,101	18,023	
	Life	177	120	132	277	307	
	Dental	73	315	341	501	511	
	Workers Compensation	285	179	1,116	290	322	
	General Employees	2,808	2,959	3,121	5,515	5,842	
	401K	1,404	1,479	1,562	2,647	2,802	
	FICA	4,086	4,587	4,838	8,548	9,053	
	Medicare	986	1,072	1,133	2,000	2,117	
	Office Supplies & Materials	3	100	100	100	100	
	Other Operating Supplies	35	-	-	-	-	
	Small Items Of Equipment \$100 - \$5,000	31,155	35,898	-	-	-	- 2015 budget was one-time radio replacement
	Postage	60	230	230	230	230	

Budget Category	Account	Actual	Budget			Notes
		2015	2015	2016	2017	
	Publications, Subscriptions, and Dues	1,363	1,285	1,285	1,400	1,400
	Telephone	519	215	215	550	550
	Other Professional Services - White collar	8,641	17,480	17,480	17,480	17,480
	Meals	34	90	90	90	90
	Air Travel	187	-	-	-	-
	Mileage	854	800	800	850	850
	Other Travel	24	-	-	-	-
	Registration	695	1,500	1,500	1,500	1,500
	Bank/Investment Charges	57,675	75,000	75,000	75,000	75,000
Sewer Administration Total		188,687	228,121	198,918	271,685	283,021
Utility Construction Insp	Regular Employees	47,339	118,596	94,694	82,404	86,816
	Termination Leave Payout	2,736	-	-	-	-
	Overtime-Regular	1,937	-	-	-	-
	Accrued Payroll	(711)	-	-	-	-
	Disability	215	485	426	464	518
	Health	11,735	23,397	19,296	15,915	17,910
	Life	137	199	163	167	186
	Dental	317	700	567	482	486
	Workers Compensation	1,315	2,219	2,358	1,389	1,561
	General Employees	2,155	4,744	3,789	3,416	3,604
	401K	1,077	2,371	1,893	1,627	1,716
	FICA	3,507	7,353	5,871	5,169	5,448
	Medicare	820	1,721	1,373	1,209	1,275
	Office Supplies & Materials	59	150	150	150	150
	Medical/Chemical	46	-	-	-	-
	Clothing And Uniforms	13	740	740	740	740
	Other Operating Supplies	401	150	150	150	150
	General Maint Supplies	94	-	-	-	-
	Small Items Of Equipment \$100 - \$5,000	729	525	525	525	525
	In-House Copying	196	150	150	150	150
	Outside Printing	16	25	25	25	25
	Publications, Subscriptions, and Dues	-	441	441	441	441
	Telephone	881	750	750	750	750
	Machine, Vehicle, Equipment	-	-	-	-	-
	Equipment Maintenance Charges	125	-	-	1,693	1,812
	Hotel & Motel	-	250	250	500	500
	Meals	113	-	-	-	-
	Air Travel	-	150	150	150	150
	Other Travel	18	-	-	-	-
	Registration	280	1,610	1,610	1,985	1,610
Utility Construction Insp Total		75,550	166,726	135,371	119,501	126,523

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
WPCF Administration	Regular Employees	194,966	187,828	297,980	310,361	322,802	
	Salaries & Wages - Seasonal	5,028	12,480	12,480	12,480	12,480	
	Termination Leave Payout	1,758	-	-	-	-	
	Overtime-Regular	78	-	-	-	-	
	Accrued Payroll	374	-	-	-	-	
	Disability	878	769	891	1,105	1,229	
	Health	31,207	35,097	38,595	37,155	41,589	
	Life	520	311	340	435	480	
	Dental	985	1,050	1,134	1,158	1,179	
	Workers Compensation	6,219	5,373	5,665	6,663	7,410	
	Worker Compensation/Seasonal	-	790	790	790	790	
	General Employees	7,814	7,514	7,919	8,415	8,912	
	401K	3,812	3,756	3,960	4,039	4,278	
	FICA	11,728	11,645	12,274	13,043	13,814	
	FICA Seasonal	-	954	954	954	954	
	Medicare	2,743	2,724	2,870	3,051	3,231	
	Office Supplies & Materials	522	1,920	1,920	1,920	1,920	
	Medical/Chemical	-	180	180	180	180	
	Clothing And Uniforms	1,633	3,060	3,060	3,060	3,060	
	Fleet Fuel	257	612	639	439	456	
	Other Operating Supplies	842	1,000	800	825	825	
	General Maint Supplies	15	100	100	100	100	
	Small Items Of Equipment \$100 - \$5,000	5,873	7,390	1,540	2,800	1,600	
	Postage	-	50	50	50	50	
	Advertising	-	700	700	400	400	
	In-House Copying	994	1,650	1,650	1,650	1,650	
	Outside Printing	-	250	700	400	400	
	Publications, Subscriptions, and Dues	11,960	10,415	10,325	13,651	13,651	
	Telephone	2,432	3,200	3,200	3,200	3,200	
	Other Utility	193	-	-	-	-	
	Legal	-	-	-	5,000	5,000	
	Architectural/Engineering	31,250	-	-	15,000	15,000	Reflecting recent needs for engineering consulting
	Other Professional Services - White collar	17,490	19,100	19,100	31,200	31,200	Higher software maintenance fees, add'l hours for SCADA programmer
	Machine, Vehicle, Equipment	-	-	-	-	-	
	Equipment Maintenance Charges	1,788	800	800	1,011	1,082	
	Buildings	148	500	500	500	500	
	Other Repair Maintenance Services	-	355	355	355	355	
	Hotel & Motel	908	920	2,130	1,920	1,920	
	Meals	68	567	708	769	769	

Budget Category	Account	Actual	Budget			Notes
		2015	2015	2016	2017	
	Air Travel	221	400	800	900	900
	Mileage	69	593	593	548	548
	Other Travel	89	70	140	170	170
	Registration	280	1,375	2,125	2,970	2,970
	Other Purchased Services - Blue Collar	24,667	25,675	25,675	28,030	28,030
	Rent	28	-	-	-	-
WPCF Administration Total		369,839	351,173	463,642	516,697	535,084
Laboratory	Regular Employees	174,519	185,761	196,239	203,045	215,055
	Accrued Payroll	667	-	-	-	-
	Disability	760	762	882	1,066	1,185
	Health	26,496	35,097	38,595	37,155	41,589
	Life	441	309	338	420	464
	Dental	1,248	1,050	1,134	1,158	1,179
	Workers Compensation	6,468	6,334	6,693	7,696	8,559
	General Employees	6,876	7,430	7,849	8,121	8,603
	401K	3,438	3,716	3,925	3,899	4,129
	FICA	10,187	11,518	12,167	12,588	13,333
	Medicare	2,382	2,693	2,845	2,945	3,118
	Office Supplies & Materials	80	650	650	650	650
	Medical/Chemical	9,729	12,700	12,700	13,080	13,400
	Clothing And Uniforms	220	800	800	800	800
	Other Operating Supplies	149	255	255	255	255
	Machinery, Vehicle & Equipment Parts	160	600	600	600	600
	General Maint Supplies	29	550	550	550	550
	Small Items Of Equipment \$100 - \$5,000	558	8,640	8,640	8,890	9,150
	Postage	-	20	20	20	20
	In-House Copying	74	-	-	-	-
	Outside Printing	23	135	135	135	135
	Publications, Subscriptions, and Dues	111	732	732	750	750
	Other Professional Services - White collar	3,900	4,200	4,200	4,300	4,400
	Machine, Vehicle, Equipment	249	-	-	1,740	1,740
	Equipment Maintenance Charges	127	1,650	1,650	-	-
	Hotel & Motel	178	300	450	450	450
	Meals	-	237	225	232	232
	Mileage	94	224	380	390	390
	Registration	708	1,195	945	1,000	1,000
	Other Purchased Services - Blue Collar	19,094	38,510	38,510	39,310	39,310
	Rent	1,269	2,500	2,500	2,500	2,500
Laboratory Total		270,235	328,568	344,609	353,745	373,546
Maintenance	Regular Employees	270,561	269,254	282,160	345,186	365,598

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Termination Leave Payout	705					
	Overtime-Regular	4,141	2,000	2,000	4,500	4,500	
	Accrued Payroll	(1,656)					
	Disability	1,139	1,105	1,271	1,811	2,016	
	Health	46,980	58,495	64,325	68,118	76,247	
	Life	682	456	494	719	795	
	Dental	1,663	1,750	1,890	2,123	2,161	
	Workers Compensation	10,356	9,181	9,621	13,271	14,762	
	General Employees	10,513	10,769	11,285	13,807	14,624	
	401K	5,256	5,386	5,643	6,627	7,021	
	FICA	15,868	16,694	17,494	21,403	22,666	
	Medicare	3,711	3,905	4,090	5,006	5,300	
	Office Supplies & Materials	46	320	320	250	250	
	Medical/Chemical	16,226	29,145	29,145	21,590	57,990	2018 increase is for purchase of media for larger gas scrubber
	Clothing And Uniforms	1,624	4,280	4,280	3,420	3,420	
	Fleet Fuel	7,385	11,491	11,963	5,932	6,164	
	Other Operating Supplies	1,190	1,750	1,750	3,050	3,050	
	Machinery,Vehicle & Equipment Parts	57,046	57,035	63,570	64,320	82,320	2018 increase is due to warranties expiring on equipment, more parts purchased in house
	Water,Sewer,Irrigation Line Repair Parts	749	1,700	1,700	1,700	1,700	
	General Maint Supplies	19,968	35,955	35,955	36,875	36,875	
	Plant Materials	738	12,300	12,300	6,000	12,300	
	Small Items Of Equipment \$100 - \$5,000	4,402	15,600	10,100	10,000	8,000	
	Postage	65	300	300	150	150	
	Advertising	-	200	200	200	200	
	In-House Copying	175	-	-	-	-	
	Publications, Subscriptions, and Dues	87	1,360	1,360	958	958	
	Telephone	984	864	864	1,000	1,000	
	Other Utility	2,479	4,700	4,700	4,700	4,700	
	Other Professional Services - White collar	2,242	11,100	6,600	11,600	6,600	
	Machine, Vehicle, Equipment	12,178	34,200	34,200	56,900	46,900	2017 increase for 2 centrifuge gear box overhaul
	Equipment Maintenance Charges	2,997	4,400	4,400	3,982	4,261	
	Grounds	1,400	2,500	2,500	9,600	4,100	
	Buildings	1,595	6,660	6,660	6,700	6,700	
	Streets, Roads, Traffic Lights	-	6,600	6,600	6,600	20,000	2018 chip seal for roads within the plant
	Hotel & Motel	436	600	600	600	600	
	Meals	-	172	225	300	311	
	Air Travel	209	500	-	450	450	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Mileage	-	62	62	65	65	
	Registration	1,970	3,430	1,655	3,115	3,190	
	Other Purchased Services - Blue Collar	3,970	7,395	7,395	7,245	7,245	
	Rent	15,264	5,000	5,000	12,000	12,000	
Maintenance Total		525,346	638,614	654,677	761,873	847,189	
Operations	Regular Employees	524,996	522,982	550,164	471,031	498,890	
	Termination Leave Payout	805	-	-	-	-	
	Overtime-Regular	1,141	3,000	3,000	3,000	3,000	
	Accrued Payroll	(365)	-	-	-	-	
	Disability	2,164	2,141	2,479	2,475	2,752	
	Health	118,002	105,291	115,785	99,080	110,904	
	Life	1,399	876	950	990	1,092	
	Dental	3,404	3,150	3,402	3,088	3,144	
	Workers Compensation	19,979	17,833	18,757	17,850	19,857	
	General Employees	21,152	20,917	22,005	18,844	19,953	
	401K	10,542	10,458	11,007	9,046	9,577	
	FICA	30,790	32,426	34,110	29,204	30,929	
	Medicare	7,201	7,585	7,978	6,832	7,235	
	Office Supplies & Materials	80	400	400	400	400	
	Medical/Chemical	293,464	309,942	349,942	353,477	358,477	
	Clothing And Uniforms	1,256	2,400	2,400	2,800	2,800	
	Fleet Fuel	571	1,853	1,935	888	923	
	Other Operating Supplies	1,545	2,300	2,300	2,300	2,300	
	Machinery, Vehicle & Equipment Parts	200	1,000	1,000	1,000	1,000	
	General Maint Supplies	818	1,220	1,220	1,250	1,280	
	Small Items Of Equipment \$100 - \$5,000	250	19,000	10,105	15,700	13,700	
	Advertising	-	200	200	200	200	
	In-House Copying	159	-	-	-	-	
	Outside Printing	-	45	45	45	45	
	Publications, Subscriptions, and Dues	199	2,710	2,710	1,096	1,096	
	Electric	385,110	445,292	445,292	467,556	490,934	
	Natural Gas	39,054	22,050	32,050	43,000	47,300	
	Telephone	2,137	2,340	2,340	2,400	2,400	
	Machine, Vehicle, Equipment	342	750	750	2,250	2,250	
	Equipment Maintenance Charges	1,294	4,480	4,480	1,011	1,082	
	Buildings	-	1,200	1,200	4,000	4,000	
	Hotel & Motel	-	883	1,783	1,520	1,520	
	Meals	-	638	895	780	756	
	Air Travel	-	-	-	450	450	
	Mileage	-	402	475	341	476	
	Other Travel	-	40	40	40	40	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Registration	369	3,890	3,890	3,965	3,965	
	Other Purchased Services - Blue Collar	141,555	155,000	155,000	181,560	191,560	Increase in biosolids hauling cost
	Rent	1,347	1,440	1,440	1,550	1,550	
Operations Total		1,610,959	1,706,134	1,791,529	1,751,019	1,837,837	
Industrial Pretreatment	Regular Employees	183,919	185,761	196,239	196,690	208,324	
	Accrued Payroll	709	-	-	-	-	
	Disability	815	762	882	1,033	1,148	
	Health	41,165	35,097	38,595	37,155	41,589	
	Life	481	309	338	408	451	
	Dental	1,344	1,050	1,134	1,158	1,179	
	Workers Compensation	7,025	6,334	6,693	7,455	8,291	
	General Employees	7,414	7,430	7,849	7,867	8,334	
	401K	3,290	3,716	3,925	3,777	4,000	
	FICA	10,604	11,518	12,167	12,194	12,916	
	Medicare	2,480	2,693	2,845	2,853	3,020	
	Office Supplies & Materials	171	400	400	400	400	
	Medical/Chemical	722	1,025	1,025	1,025	1,025	
	Clothing And Uniforms	86	950	950	950	950	
	Gas And Diesel Fuel	10	-	-	-	-	
	Fleet Fuel	425	976	1,019	336	349	
	Other Operating Supplies	802	2,800	2,800	2,550	2,550	
	Machinery, Vehicle & Equipment Parts	292	330	330	350	350	
	General Maint Supplies	261	400	400	400	400	
	Small Items Of Equipment \$100 - \$5,000	12,029	14,546	870	2,865	1,000	
	Postage	-	700	700	700	700	
	Advertising	483	6,250	6,250	8,250	8,250	
	In-House Copying	73	-	-	100	100	
	Outside Printing	23	300	300	300	300	
	Publications, Subscriptions, and Dues	159	590	590	678	678	
	Telephone	1,045	900	900	1,100	1,100	
	Other Professional Services - White collar	3,140	3,700	3,700	3,950	3,950	
	Equipment Maintenance Charges	955	980	980	864	924	
	Buildings	-	-	-	1,200	1,200	
	Other Repair Maintenance Services	-	1,070	1,070	1,070	1,070	
	Hotel & Motel	546	400	400	1,840	1,840	
	Meals	93	240	240	520	520	
	Air Travel	560	550	550	850	900	
	Mileage	69	400	400	400	400	
	Other Travel	266	100	100	260	260	
	Registration	695	800	800	2,010	2,010	
	Other Purchased Services - Blue Collar	12,259	24,170	24,170	18,000	18,000	

Budget Category	Account	Actual	Budget				Notes
		2015	2015	2016	2017	2018	
	Rent	2,112	2,230	2,230	2,400	2,400	
	Grants-Outside Public Agency	-	-	-	2,500	2,500	
Industrial Pretreatment Total		296,523	319,477	321,841	326,458	343,378	
Sewer Collection	Regular Employees	564,605	562,974	590,681	626,659	663,720	Budget combined with Collection Maintenance and Pumping Stations
	Termination Leave Payout	14,977	-	-	-	-	
	Overtime-Regular	12,164	12,422	12,422	23,100	23,750	
	Accrued Payroll	(4,470)	-	-	-	-	
	Disability	2,413	2,308	2,659	3,288	3,662	
	Health	132,177	146,237	160,813	154,813	173,288	
	Life	1,423	980	1,061	1,343	1,472	
	Dental	3,540	4,375	4,725	4,825	4,912	
	Workers Compensation	30,814	23,408	28,397	35,873	39,927	
	General Employees	22,225	22,517	23,625	25,066	26,549	
	401K	10,417	11,262	11,813	12,031	12,739	
	FICA	35,147	34,902	36,620	38,851	41,153	
	Medicare	8,220	8,158	8,566	9,090	9,621	
	Office Supplies & Materials	575	2,781	2,781	2,781	2,850	
	Medical/Chemical	38,569	55,566	57,747	43,725	45,050	
	Clothing And Uniforms	4,133	6,841	7,089	7,300	7,525	
	Fleet Fuel	37,558	65,417	68,034	34,315	38,856	
	Other Operating Supplies	1,764	2,588	2,588	2,660	2,740	
	Machinery, Vehicle & Equipment Parts	22,152	43,175	43,175	33,170	34,160	
	Water, Sewer, Irrigation Line Repair Parts	4,836	9,306	9,306	8,860	9,125	
	General Maint Supplies	11,383	12,763	12,763	12,880	13,275	
	Street & Traffic Repair and Maintenance Supplies	-	2,060	2,060	11,670	12,025	
	Plant Materials	-	160	160	160	160	
	Small Items Of Equipment \$100 - \$5,000	5,865	11,544	11,544	15,300	15,800	
	Postage	-	22	22	20	20	
	Advertising	-	287	287	290	290	
	In-House Copying	499	350	350	350	350	
	Outside Printing	17	300	300	300	300	
	Publications, Subscriptions, and Dues	460	496	496	500	515	
	Electric	38,922	45,590	49,260	44,065	45,400	
	Water/Sewer/Stormwater	10,052	-	-	-	-	
	Natural Gas	2,062	6,500	6,670	6,775	7,000	
	Telephone	4,562	5,600	5,600	5,775	5,950	
	Other Utility	281	480	480	480	500	
	Other Professional Services - White collar	1,745	1,500	1,500	1,500	1,500	
	Machine, Vehicle, Equipment	805	-	-	13,550	14,000	
	Equipment Maintenance Charges	26,251	61,050	63,310	41,649	44,565	

Budget Category	Account	Actual	Budget			Notes
		2015	2015	2016	2017	
	Grounds	2,015	3,625	3,625	2,075	2,150
	Buildings	163	2,369	2,369	2,400	2,500
	Streets, Roads, Traffic Lights	-	3,015	3,015	7,450	7,700
	Other Repair Maintenance Services	-	579	579	600	600
	Hotel & Motel	1,500	-	-	-	-
	Meals	471	285	285	300	300
	Air Travel	1,512	-	-	-	-
	Other Travel	319	-	-	-	-
	Registration	6,987	7,600	7,600	9,825	10,100
	Other Purchased Services - Blue Collar	6,542	7,005	7,005	9,100	9,350
	Rent	7,486	23,950	24,250	29,200	30,100
Sewer Collection Total		1,073,138	1,212,347	1,275,632	1,283,964	1,365,549
401 - Sewer Total		4,524,313	5,090,789	5,289,910	5,576,277	5,913,175

FARM LEASE AGREEMENT

This FARM LEASE AGREEMENT ("Lease Agreement") is entered this 9 day of June, 2016, between the CITY OF GREELEY, COLORADO, whose address is 1100 10th Street, Third Floor, Greeley, Colorado 80631 ("Greeley") and DOUBLE J FARMS & FEEDING, INC., whose address is 13789 HIGHWAY 14, AULT, CO 80610 ("Double J").

RECITALS

WHEREAS, Greeley owns agricultural property consisting of approximately 280 acres located in Section 22, Township 8 North, Range 65 West, in Weld County, Colorado, as is more particularly described in Exhibit "A", attached hereto and made a part hereof (the "Land"); and,

WHEREAS, the Greeley owns 2.25 Shares of capital stock in the Water Supply and Storage Company ("WSSC") (evidenced by stock certificate no. 6698); 2 Shares of capital stock in the Collins Lateral Company (evidenced by stock certificate no. 855); and 2 shares in the Lone Tree Lateral Company (evidenced by stock certificate no. 251), ("Surface Water Rights"); and,

WHEREAS, there are several irrigation wells located on the Land, which are described as Roseberry Well No. 1-11260, Roseberry Well No. 2-11261, and Roseberry Well No. 3-11262, decreed on July 28, 1976, in Case No. W-2109, District Court, Water Division No. 1 ("Roseberry Wells"); Dill Well No. 1-9303-F, Dill Well No. 2-9304-F, Dill Well No. 3-9305-F, Dill Well No. 4-9306-F, Dill Well No. 5, and Dill Well No. 6, decreed on December 3, 1975, in Case No. W-4379, District Court, Water Division No. 1 ("Dill Wells"); and Pumping Plant No. 1 (Permit No. 15362R), Pumping Plant No. 2 (Permit No. 15361R), Pumping Plant No. 3 (Permit No. 15363R), decreed on September 10, 1953, in Case No. CA11217, District Court, Water Division No. 1 ("Coffin Wells") (collectively, "Irrigation Wells"); and,

WHEREAS, use of the Roseberry Wells is subject to the terms and conditions under the Lonetree Members Accretion Company ("LOMAC") augmentation plan. The Dill Wells have been included in the Cache la Poudre Augmentation Plan, decreed on February 10, 1975, in Case No. W-7921 (75), which is operated and monitored by Weld County Underground Water Users Association (collectively, "Augmentation Plans"); and,

WHEREAS, Double J currently owns a portion of the mineral interests to the Land; and,

WHEREAS, approximately 174 acres of the Land has been developed and is no longer irrigated cropland ("Non-Irrigated Land"), reducing the irrigated cropland portion to approximately 106 acres, as is more particularly described and depicted on Exhibit "B" attached hereto and made a part hereof; and,

WHEREAS, Greeley desires to lease, under the terms of this Lease Agreement, the Surface Water Rights and the Irrigation Wells ("collectively, "Water Rights") and the Land (collectively, "Property") to Double J for agricultural purposes; and,

THEREFORE, for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Greeley and Double J agree as follows:

LEASE AGREEMENT

1. FARM LEASE. Greeley does hereby lease to Double J the above-described Property for agricultural purposes, subject to the terms and conditions of this Lease Agreement.

2. TERM OF LEASE. This annual lease of the Property shall begin on the date this Lease Agreement is fully executed and end on December 31, 2016. Thereafter, the Lease Agreement shall automatically renew for the following year's agricultural season (March 1st through December 31st), for a total of nine subsequent agricultural seasons, unless written notice of termination is given by Double J or Greeley to the other party on or before February 1st for the proceeding agricultural season or unless it is terminated for cause by Greeley under Section 13 of this Lease Agreement.

3. ANNUAL LEASE AMOUNT. Each year that this Lease Agreement is in effect, Double J shall pay to Greeley Nine Thousand Ten Dollars (\$9,010) ("Annual Lease Amount") for the use and occupancy of the Property, which is equal to \$85.00 per acre of the One Hundred and Six Acres (106) irrigated cropland. The Annual Lease Amount shall be due and payable in two installments. The first installment of Four Thousand Five Hundred Five Dollars (\$4,505) shall be due fifteen (15) days after execution of this Lease Agreement for 2016, and March 31st of the current agricultural season every year thereafter; the second installment of Four Thousand Five Hundred Five Dollars (\$4,505) shall be due December 15th of the then current agricultural season.

4. OBLIGATION OF GREELEY. Greeley's obligations under this lease are subject to the City of Greeley, Colorado Charter Section 17 4-(c) a, copy of which is attached hereto as Exhibit C.

5. WATER RIGHTS.

a. Double J may, at no additional expense, use the Water Rights for agricultural irrigation of the Land, subject to the terms and conditions of this Lease Agreement.

b. Greeley shall work with Double J, to the extent necessary, to ensure that the Irrigation Wells are covered under the Augmentation Plans. Double J may dedicate the Surface Water Rights for use under the Augmentation Plans provided so long as such dedication and use is made explicitly subject to Greeley's rights pursuant to, but not limited to, Sections 2, 4, and 13 of this Lease Agreement.

c. Double J shall deliver to Greeley a completed Historical Use Affidavit and Questionnaire, in the form attached hereto as Exhibit D. Double J acknowledges that Greeley may file an application to change the use of the Water Rights with the Division 1 Water Court for the State of Colorado during the term of this Agreement. Double J shall cooperate with Greeley and its agents or representatives in the review and analysis of the historical use of the

Water Rights. Upon request from Greeley, Double J shall provide information regarding use of the Water Rights in preparation for any proceeding before the Division 1 Water Court.

d. Greeley shall be responsible for any ditch, reservoir, or augmentation company assessments or other charges and expenses attributable to the Water Rights.

e. Double J shall have no right to any rebates or other payments from WSSC for the lease of transmountain return flows associated with the Surface Water Rights.

f. Double J agrees to use the Water Rights, and the water delivered pursuant to this Lease Agreement, only for agricultural irrigation of the Land.

g. Double J agrees to take and use the water delivered pursuant to the Water Rights to the fullest extent possible, and shall undertake no action which could be construed as abandonment of the Water Rights. Double J shall provide advance written notice, on or before February 1, of any year, to Greeley if it no longer intends to irrigate the Land and/or the entirety of the Property with the Water Rights the following irrigation season.

h. Double J shall not sublease or rent the Water Rights to others or allow others to use the Water Rights or water delivered pursuant to said Water Rights on lands or for uses other than those described in this Section 4.

i. Double J shall comply with all of the rules, regulations, and policies of the ditch, reservoir, or augmentation company that delivers the Surface Water Rights or augments the Irrigation Wells pursuant to the Augmentation Plans described herein.

j. Greeley makes no warranties or guarantees of, or representations about, the amount of water that will be yielded or delivered pursuant to the Water Rights.

k. Greeley shall not be liable for any failure of delivery of water pursuant to the Water Rights due to drought or other force of nature or failure of any ditch and/or reservoir delivery systems.

6. IMPROVEMENTS. There are no structures on the Property, except for the wells, siphons, and pumping lagoons used in connection with the Water Rights.

7. CONDITION OF PROPERTY. Prior to signing this Lease Agreement, Double J has inspected or caused to be inspected the Property, and leases it in an "as is" condition. No additional representation, statement or warranty, express or implied, has been made by or on behalf of Greeley as to the condition of the Property, specifically including but not by way of limitation, all the wells, siphons, and pumping lagoons used in connection with the Water Rights. In no event shall Greeley be liable for any defect in the Property or for any limitation on its use for farmland or pasture. In addition, Double J knowledge's that the minerals have been severed from the surface rights, and the surface rights are subject to the development of the mineral rights.

8. AUTHORIZED USE OF THE PROPERTY.

a. Double J shall occupy and use the Property solely for agricultural purposes.

b. Double J shall be responsible for the proper care of the Property consistent with sound agricultural practices.

c. Double J shall apply all weed control chemicals and fertilizers in compliance with applicable federal, state, and local regulations.

d. Double J shall irrigate the Property with the Water Rights and the water delivered pursuant to this Lease Agreement.

e. Double J shall furnish, at Double J's sole expense, all labor, machinery, fertilizer, weed spray, and other items needed for farming the Property.

9. DOUBLE J'S COVENANTS AND AGREEMENTS.

a. Double J shall maintain and make any necessary repairs, at Double J's expense, to any lateral ditches, headgates, and other personal property necessary to deliver the Water Rights to the Land and to wells, siphons, and pumping lagoons used in connection with the Water Rights on the Land, throughout the lease term.

b. Double J shall keep the Property, including the Non-Irrigated Land, clear of weeds.

c. Double J shall not assign this Lease Agreement nor sublet the Property or any part thereof without the prior written consent of Greeley, which consent shall not be unreasonably withheld.

d. Double J shall not construct, nor permit construction of any structure, building or other improvement, temporary or otherwise, on the Property without Greeley's prior written consent, which consent shall be in the sole discretion of Greeley.

e. Double J shall not erect, paint, or maintain any signs on the Property without securing the prior written consent of Greeley, which consent shall be in the sole discretion of Greeley.

f. Double J shall not allow any noise, odors, fumes, or vibrations on the Property other than those caused by normal agricultural practices that would cause disruption of normal activities on adjacent properties.

g. Double J shall not use or permit to be used any insecticide, pesticide, rodenticide, herbicide, or other chemical substance on the Property for weed, pest, or rodent

control or fertilization which is prohibited by any federal, state or local statute, ordinance, resolution, rule or regulation.

h. Double J shall not directly or indirectly create, incur, assume, or suffer to exist any mortgage, pledge, lien, charge, encumbrance, or claim on or with respect to the Property.

i. Double J agrees, covenants, and warrants to maintain the Property throughout the term of the Lease in as good repair and condition as at the commencement of this Lease Agreement.

j. Double J agrees to deliver up and surrender to Greeley possession of the Property at the expiration or termination of this Lease Agreement.

10. INDEMNIFICATION.

a. Double J assumes the risk of loss or damage to any crops on the Property whether from windstorm, fire, earthquake, snow, water run-off, soil conditions, or any other causes whatsoever.

b. Double J releases and agrees to indemnify, defend and hold harmless Greeley, its agents, officers, employees, and volunteers from and against all damages, claims, actions, causes of action, demands, judgments, costs, expenses of every kind and nature, predicated upon injury to or death of any person or loss of or damage to any property, arising, in any manner, from Double J's operations under this Lease Agreement.

c. Nothing in this Lease Agreement is intended constitute a waiver, express or implied, of any of the immunities, rights, benefits, protections or other provisions, of the Colorado Governmental Immunity Act, C.R.S. §§24-10-101 et seq., as applicable now or hereafter amended.

11. HAZARDOUS WASTE.

a. Double J shall not cause or permit any Hazardous Material to be brought upon, kept, or used in or about the Property by Double J, its agents, employees, contractors, or invitees without the prior written consent of Greeley. Greeley shall not unreasonably withhold consent so long as Double J demonstrates to Greeley's reasonable satisfaction that such Hazardous Material is necessary or useful to Double J's use of the Property for agricultural purposes, so long as any chemicals (including without limitation fertilizer, herbicides, insecticides) are applied in conformance with good farming methods, applicable rules and regulations and the label directions of each chemical and kept, and stored in a manner that complies with all laws regulating such chemicals.

b. If Double J breaches the obligations stated herein, or if the presence of Hazardous Material on the Property caused or permitted by Double J results in contamination of the Property, or if contamination of the Property by Hazardous Material otherwise occurs for

which Double J is legally liable to Greeley for damage resulting therefrom, then Double J shall indemnify, defend, and hold Greeley harmless from any and all claims, judgments, damages, penalties, fines, costs, liabilities, or losses which arise during or after the lease term as a result of such contamination. This indemnification of Greeley by Double J includes, without limitation, costs incurred in connection with any investigation of site conditions or any cleanup, remedial, removal, or restoration work required by any federal, state, or local governmental agency or political subdivision because of Hazardous Material present in the soil or groundwater on or under the Property.

c. Without limiting the foregoing, if the presence of any Hazardous Material on the Property caused or permitted by Double J results in any contamination of the Property, Double J shall promptly take all actions at its sole expense as are necessary to return the Property to the condition existing prior to the introduction of any such Hazardous Material to the Property; provided that Greeley's approval of such actions shall first be obtained, which approval shall not be unreasonably withheld so long as such actions would not potentially have any material adverse effect on the Property.

d. As used herein, the term "Hazardous Material" means any hazardous or toxic substance, material, or waste which is or becomes regulated by any local governmental authority, the State of Colorado, or the United States Government. The term "Hazardous Material" includes, without limitation, any material or substance that is (i) defined as a "hazardous substance" under appropriate state law provisions; (ii) petroleum; (iii) asbestos; (iv) designated as a "hazardous substance" pursuant to Section 311 of the Federal Water Pollution Control Act, 33 U.S.C. § 1321; (v) defined as a "hazardous waste" pursuant to Section 1004 of the Federal Resource Conservation and Recovery Act, 42 U.S.C. § 6903; (vi) defined as a "hazardous substance" pursuant to Section 101 of the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. § 9601; or (vii) defined as a "regulated substance" pursuant to Subchapter IX, Solid Waste Disposal Act (Regulation of Underground Storage Tanks), 42 U.S.C. § 6991.

12. RESERVATIONS. Greeley reserves its rights under this Lease Agreement to (i) have its officers, employees, and representatives enter and inspect or protect the Property at any time; (ii) use any portion of the Property for public utilities and as ingress and egress for public use and rights of way; (iii) use, repair, install, replace, and maintain public utilities and rights-of-way on, over, or under the Property; and (iv) use any portion of the Property as a site for the application of digested biosolids.

13. TERMINATION FOR CAUSE.

a. Double J agrees to observe and perform the terms and conditions of this Lease Agreement. If Double J fails to make payment of the Annual Lease Amount, or any part thereof, or if Double J fails to observe or perform any term or condition of this Lease Agreement, then Greeley, upon written notice to Double J, may in its sole discretion terminate this Lease Agreement and re-enter and repossess the Property, with or without legal proceedings, using such force as may be necessary, and remove any property belonging to Double J without prejudice to any claim for rent or for the breach of covenants hereof. Double J agrees to

indemnify and hold Greeley harmless from and against any costs for the removal and storage of Double J's property incurred by Greeley under the provisions of this section.

b. If Greeley determines that Double J has created a public safety hazard, then Greeley may immediately take action to secure the safe operation of the Property, including without limitation, terminating this Lease Agreement and/or removing Double J and any of Double J's equipment or crops from the Property.

c. If Double J, after the expiration or termination of this Lease Agreement, shall remain in possession of the Property without a written agreement, the holding over shall be a tenancy from month-to-month at a monthly rental rate equivalent to one-twelfth of the Annual Lease Amount, payable in advance on the first day of each month. No payments of money by Double J after the expiration or termination of this Lease Agreement shall reinstate, continue, or extend the terms of this Lease Agreement.

14. INSURANCE REQUIREMENTS.

a. Double J shall purchase and maintain for the full period of this Lease Agreement, including any additional extension periods, at Double J's sole expense, insurance policies providing coverage as follows:

i. Farm liability insurance, including coverage for bodily injury, property damage, contractual liability, and broad-form property damage and owner/contractor's protective coverage, with a minimum coverage of not less than \$1,000,000.00 or as approved by the City of Greeley Risk Manager; and

ii. Workers' compensation and employers' liability insurance, if applicable, which shall cover the obligations of Double J in accordance with the provisions of the Workers' Compensation Act of Colorado, as amended.

b. Before commencement of the lease term, Double J must present all applicable insurance policies, certificates of insurance, and endorsements, along with a signed copy of this Lease Agreement, to the City of Greeley Risk Manager, and receive the Risk Manager's written approval as to the adequacy of such insurance coverage.

c. The insurance policies shall contain an endorsement naming the City of Greeley, Colorado, a municipal corporation, and its council members, officers, agents, employees, and volunteers as additional insured parties with respect to all activities Double J may perform under this Lease Agreement. Moreover, such endorsement shall include a notice provision requiring 30 days written notice to Greeley before any cancellation.

d. Only insurance companies with authority to issue policies in the State of Colorado shall provide insurance coverage under this Lease Agreement.

e. For the term of this Lease Agreement, Double J shall not cancel, materially change, or fail to renew the insurance coverage, and Double J shall notify the City of

Greeley's Risk Manager of any material reduction or exhaustion of aggregate policy limits. If Double J fails to purchase or maintain the insurance coverage stated in this Lease Agreement, Greeley shall have the right to procure such insurance coverage at Double J's expense.

f. Nothing in this Section 14 shall limit the extent of Double J's responsibility for payment of claims, liabilities, damages, fines, penalties, and costs resulting from Double J's occupancy, use, or control of the Property or Double J's performance or nonperformance under this Lease Agreement.

15. NO VESTED INTEREST IN SHARES OR JOINT VENTURE. Greeley grants no interest in the Property to Double J other than as explicitly set forth in this Lease Agreement. Double J shall make no claim to any rights, title, or interest in the Property other than as explicitly set forth in this Lease Agreement. This Lease Agreement does not create a partnership or joint venture of any kind between the Parties, and Double J shall bear the entirety of any loss, cost, or expense incurred through its use of the Property.

16. MISCELLANEOUS PROVISIONS.

a. This Lease Agreement shall be construed and enforced in accordance with the laws of the State of Colorado.

b. No waiver or default by Greeley of any of the terms, covenants, warranties, or conditions hereof to be performed, kept, or observed by Double J shall be construed as, or operate as, a waiver by Greeley of any of the terms, covenants, warranties, or conditions herein contained, to be performed, kept, or observed by Double J.

c. Double J agrees that Greeley shall be under no obligation to maintain the Property in a particular condition or for a particular use, and Double J waives all claims for damages of any kind or nature, whatsoever, resulting therefrom.

d. Article and section headings shall not be deemed to govern, limit, modify, or in any manner affect the scope, meaning, or intent of the provisions of this Lease Agreement.

e. The provisions of this Lease Agreement shall be construed as to their fair meaning, and not for or against any party based upon any attribution to such party of the language in question.

f. Double J shall perform all obligations under this Lease Agreement in strict compliance with all applicable laws, rules, charters, ordinances and regulations, as now exist or are later enacted or amended, of Greeley, and all county, state and federal entities having jurisdiction over the Property.

g. None of the terms, conditions, or covenants in this Lease Agreement shall give or allow any claim, benefit, or right of action by any third person not a party hereto. Any person other than Greeley or Double J receiving services or benefits under this Lease Agreement shall be only an incidental beneficiary.

h. This Lease Agreement is an integration of the entire understanding of the parties with respect to the matters set forth herein. No representations, warranties, or certifications, expressed or implied, shall exist as between the parties, except as specifically set forth in this Lease Agreement. The parties shall only amend this Lease Agreement in writing with the proper official signatures attached thereto.

i. Invalidation of any specific provisions of this Lease Agreement shall not affect the validity of any other provision of this Lease Agreement.

j. Double J acknowledges that this Lease Agreement may not be recorded.

k. This Lease Agreement shall extend to and be binding upon the heirs, successors, and permitted assigns of the parties.

17. NOTICE. Any notice or payment required by this Lease Agreement shall be provided by U.S. mail or hand delivery to Double J or to Greeley at the addresses set forth above, unless the party to receive such notice or payment provides to other party written notice of a change of the address listed above.

IN WITNESS WHEREOF, the parties hereto have executed this Lease Agreement as of the date stated in the preamble.

CITY OF GREELEY, COLORADO, a
Municipal Corporation, acting by and
through its Water and Sewer Board

Attest:

By: _____
Mayor

City Clerk

[Double J Signature Page to Follow]

EXHIBIT A
to
FARM LEASE AGREEMENT
(Double J Farms & Feeding, Inc.)

The Land shall include the real property legally described as follows:

Parcel 1: The East 1/3 of the Northwest ¼ of Section 22, Township 8 North, Range 65 West of the 6th P.M., County of Weld, State of Colorado, being 52.631 acres more or less; and,

Parcel 2: Lot B of Recorded Exemption No. 0551-22-4-RE 620, recorded June 15, 1983 in Book 999 at Reception No. 01930309, being a part of the Southeast ¼ of Section 22, Township 8 North, Range 65 West of the 6th P.M., County of Weld, State of Colorado, being 151.967 acres more or less.

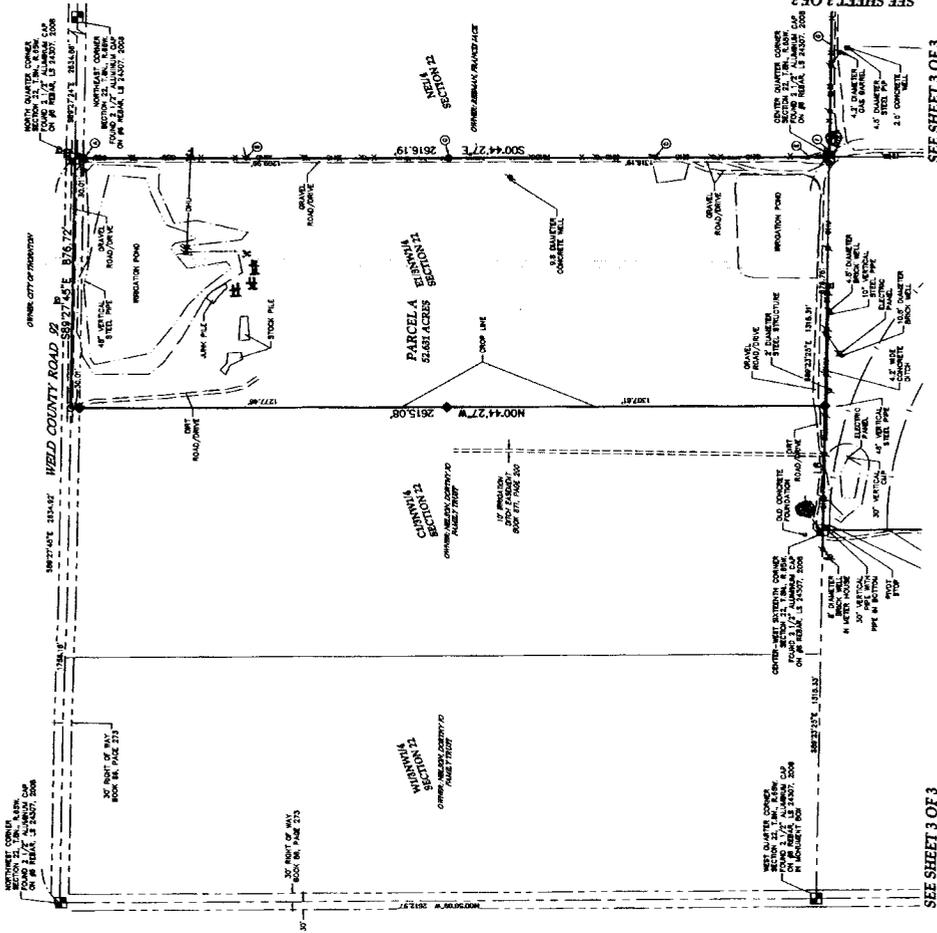
Parcel 3: Lot B of Amended Recorded Exemption No. 0551-22-3-AMRE1907, recorded February 26, 2001 at Reception No. 2827884, being a part of the East ½ of the Southwest ¼ of Section 22, Township 8 North, Range 65 West of the 6th P.M., County of Weld, State of Colorado.

Also described as: The East Half of the Southwest Quarter of Section 22, Township 8 North, Range 65 West of the 6th Principal Meridian, County of Weld, State of Colorado, EXCEPT that parcel described as Lot A of Amended Recorded Exemption No. 0551-22-3-AMRE1907 recorded February 26, 2001 at Reception No. 2827884, being a part of the E ½ of the SW ¼ of Section 22, Township 8 North, Range 65 West of the 6th P.M., and EXCEPT that parcel described as Subdivision Exemption No. 593, recorded July 10, 1996 in Book 1555 at Reception No. 2500336, County of Weld, State of Colorado.

Said described parcel being 75.623 Acres, more or less.

ALTA/ACSM LAND TITLE SURVEY

Located in Section 22, Township 8 North, Range 65 West Of The 6th P.M.,
County Of Weld, State Of Colorado



LINE	BEARING	LENGTH
L1	N07°28'37\"	45.37'
L2	N07°28'42\"	41.57'
L3	S88°18'36\"	87.44'
L4	S00°00'00\"	150.00'
L5	N48°08'39\"	176.00'
L6	S89°23'37\"	436.87'

LEGEND

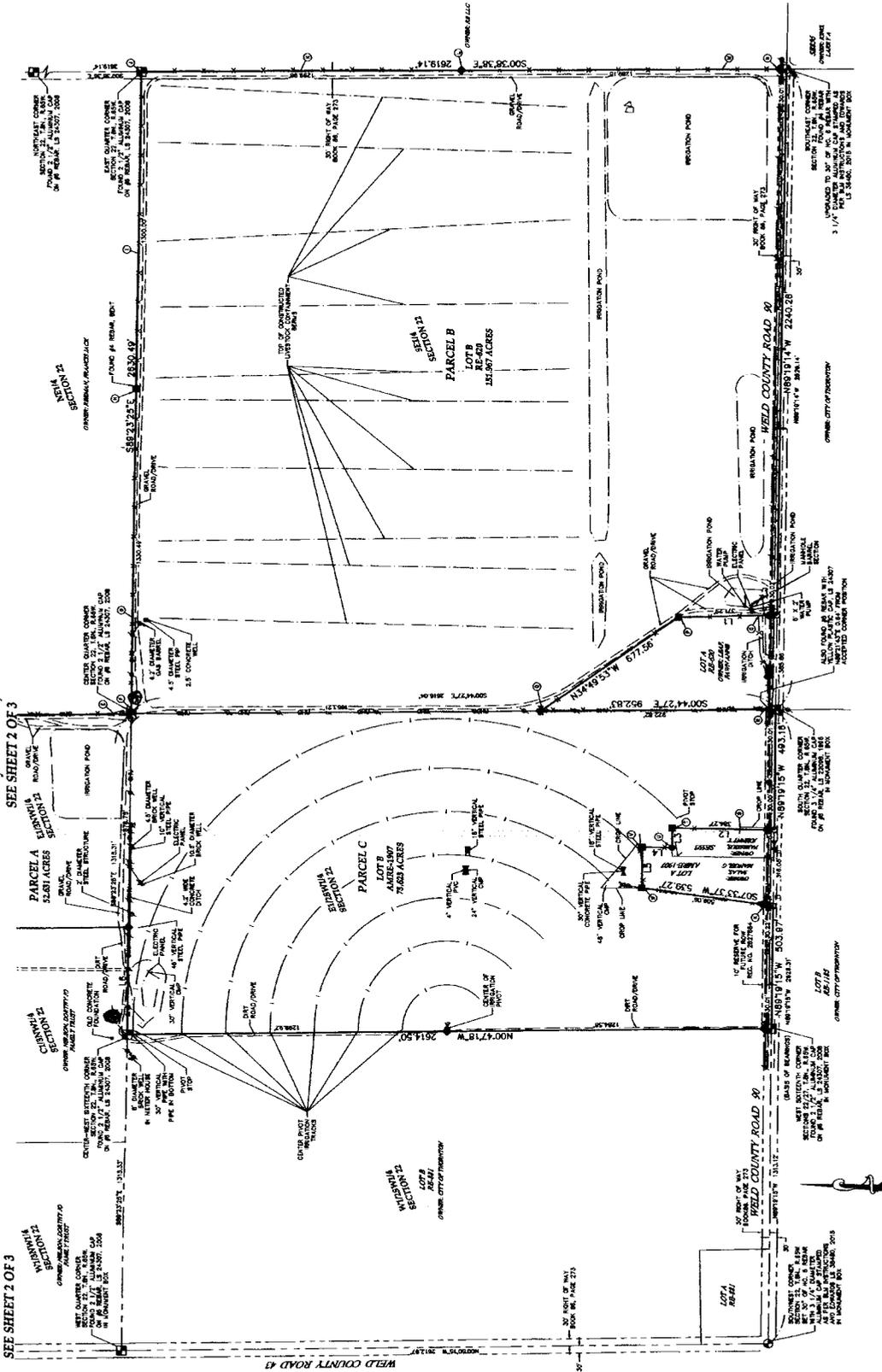
—	EDGE OF ASPHALT	⊠	ELECTRIC METER
---	EDGE OF LANDSCAPING	⊠	POUR AND/OR CORNER AS THRESHOLD CORNER AS APPROVED
---	EDGE OF DIRT ROAD	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)
---	EDGE OF GRAVEL ROAD	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)
---	ALUMINUM	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)
---	FENCE LINE	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)
---	PIPE	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)
---	OVERHEAD UTILITY LINE	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)
---	IRIGATION LINE	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)
---	TOP OF BANK	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)
---	SEWER LINE	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)
---	RESIDENTIAL LINE	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)
---	PROPERTY LINE	⊠	STANDARD IRON NAIL (UNLESS OTHERWISE NOTED)

- ① INTERFERING LOCATIONS TO PROPERTY LINE TABLE
1. From corner to 1.5 ft. East of the property line.
 2. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 3. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 4. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 5. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 6. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 7. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 8. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 9. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 10. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 11. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 12. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 13. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 14. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 15. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 16. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 17. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 18. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 19. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.
 20. From the 1.5 ft. East of the property line to the 1.5 ft. East of the property line.



ALTA/ACSM LAND TITLE SURVEY

Located in Section 22, Township 8 North, Range 65 West Of The 6th P.M.,
County Of Weld, State Of Colorado



DATE	7/10/2015
FILE NAME	201508ALTA
SCALE	1"=200'
DRAWN BY	CSK
CHECKED BY	NET

KING SURVEYORS
650 E. Garden Drive | Windsor, Colorado 80550
Phone: (970) 686-5011 | email: info@Kingsurveyors.com

REVISIONS	DATE	BY	DESCRIPTION

ALTA/ACSM LAND TITLE SURVEY
CITY OF GREELEY
1000 10TH STREET
GREELEY, CO 80631

EXHIBIT B
to
FARM LEASE AGREEMENT
(Double J Farms & Feeding, Inc.)

Map of Irrigated and Non-Irrigated Land

[see attached page]

Exhibit B

 Cropland ~ 106 acres

 Non-cropland ~ 174 acres



0

0.25

0.5

Miles

6/6/2016, DS
has2.mxd

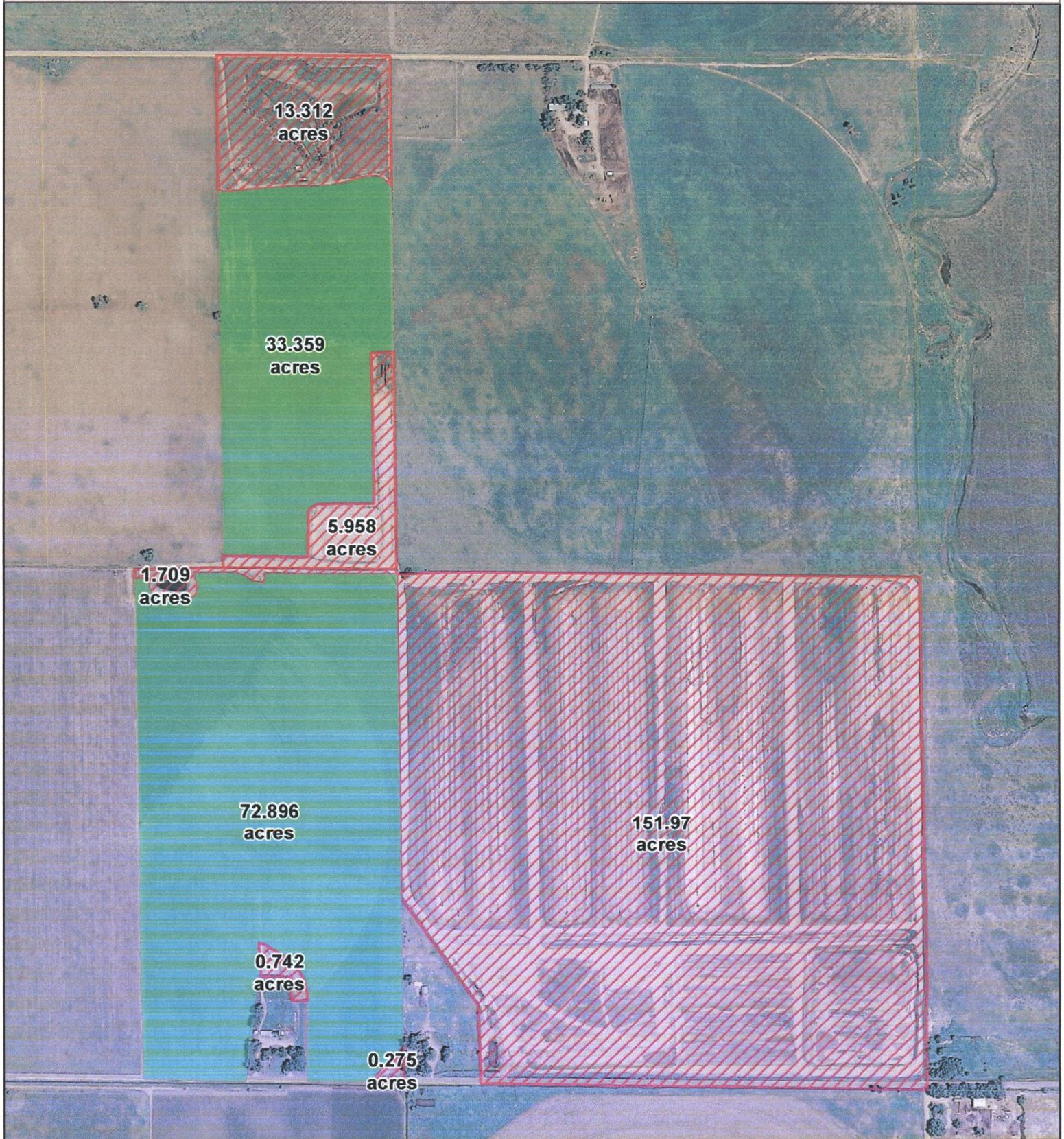


EXHIBIT C
to
FARM LEASE AGREEMENT
(Double J Farms & Feeding, Inc.)

CHARTER AND CODE OF THE CITY OF GREELEY, COLORADO

Section 17-4. - Water and Sewer Board, Powers or Duties.

The Water and Sewer Board shall have the power and shall be required to:

- a. Annually establish minimum water rates, which need not be uniform for all classes of users; the minimum rates must be sufficient to include all expenditures for the following:
 1. All operation and maintenance of the water system;
 2. All debt service requirements;
 3. Additions to a reserve account in sufficient amounts to offset depreciation to the water system. Said reserve shall be based on accepted principles of accounting for a water system.

- b. Annually establish minimum sanitary sewer service rates, which need not be uniform for all classes of users; the minimum rates must be sufficient to include all expenditures for the following:
 1. All operation and maintenance of the sanitary sewer system;
 2. All debt service requirements;
 3. Additions to a reserve account in sufficient amounts, to offset depreciation to the sanitary sewer system. Said reserve shall be based on accepted principles of accounting for a sanitary sewer system.

- c. Acquire, develop, convey, lease and protect water and sewer assets, supplies and facilities. The Water and Sewer Board shall have power to lease water not needed by the City for immediate use, as herein provided. Any sale or exchange of water, water and sewer facilities or land shall be approved by the City Council. However, no rights shall become vested by franchise or lease or under a continued leasing or under a continuance of the conditions concerning any return flow arising therefrom, so as to defeat or impair the right to terminate the leases or franchises or change the place of use.

EXHIBIT D
to
FARM LEASE AGREEMENT
(Double J Farms & Feeding, Inc.)

Historical Use Affidavit and Questionnaire

(see attached map depicting the Non-Irrigated Land)

In making this application, applicant understands that the Cache La Poudre Water Users Association's augmentation plan operates in accordance with the decree entered by the District Court in and for Water Division No. 1, State of Colorado, in Case No. W-7921 (75). Paragraph 2, page 5, of the decree provides in pertinent part as follows:

“... in the event that any wells shall divert out of priority, and not as an alternate point of diversion for the direct flow rights described in Exhibit ‘A’ (Exhibit ‘A’ is a listing of the surface decrees assigned to the plan by members of the Cache La Poudre Water Users Association), then diversion from such wells [sic] shall be subject to lawful rules and regulations promulgated by the State Engineer ..., or such further orders and decrees as may be issued by the court in its continued jurisdiction”

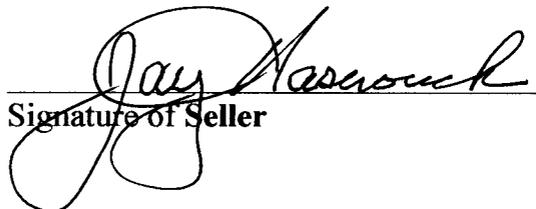
Thus, should either the State Engineer or the District Court, Water Division No. 1, determine that any well that is the subject of this transfer application is not entitled to pump as an alternate point of diversion under the plan as decreed in Case No. W-7921 (75), then the ability of such well to pump under the plan shall be curtailed unless and until a subsequent determination is made that the well is in fact pumping as an alternate point of diversion for the direct flow rights assigned to the plan.

Applicant further understands that the plan is operated on a voluntary basis by the Cache La Poudre Water Users Association, and that the board of the Association reserves the right to discontinue coverage of any well under the plan at any time, upon written notice to the owner of the well as stated in the Association's records.

Name, address and telephone number of **seller of lands/well(s)** for the Augmentation Plan. (PLEASE PRINT)

Name: Jay Hasbrouck Telephone No. 970-371-0868

Address: 18979 WCR 78


Signature of Seller

Date: _____
(Sold/Transferred 1-19-2016)

Name, address and telephone number of **new owner** who will be paying the fees for the Augmentation Plan. (PLEASE PRINT)

Name: City of Greeley c/o Water & Sewer Department

Telephone No. 970-336-4095

Address: 1100 10th Street, Suite 300
Greeley, CO 80631

Signature of **new owner** Date: _____
(Acquired/Transferred 1-19-2016)

AFFIDAVIT OF HISTORICAL USE OF WATER RIGHTS

WATER RIGHTS:

Ditch or Reservoir Company: CBT water - WSSC
Shares or Interest: 2.25

Name and address of owner and user of water rights:

Owner: City of Greeley
Water and Sewer Department
1100 10th Street, Suite 300
Greeley, Colorado 80631

User(s): Double J Farms
13789 Hwy 14
Ault, CO 80610

Year water rights were used as described: _____

IRRIGATED LAND:

Legal description and size/acreage of land irrigated by above-mentioned water rights:
_____.

Name and address of owner(s) of above-mentioned irrigated land if different from owner or user of the water rights: _____.

I have not intended to abandon the aforementioned water rights during my period of use. I state that the information contained here and in the attached Questionnaire Regarding Use of Water Shares, which is incorporated herein by reference, is known to me and is correct.

The undersigned Jay Hasbrouck, having personal knowledge of the irrigation of the above described lands by virtue of being the owner and/or person who has farmed and irrigated those lands, being first duly sworn, hereby states that the information provided in this statement is true and accurate.

[Acknowledgement to Follow on Next Page]

QUESTIONNAIRE REGARDING USE OF WATER SHARES

The person completing this questionnaire need not necessarily be the Lessee, but must have personal knowledge of the information provided

1. Name of person completing this questionnaire: Jay Hasbrouck
Mailing Address: 18979 WCR 78
Eaton CO 80615
Telephone: 970-371-0868
Facsimile: 970-834-2860
Email Address: jay@doublejine.com

2. The information provided below pertains to 2.25 shares of the WSSC
Company, represented by Certificate No. 6698 (hereinafter "Shares").
855 + 251

3. Did you use the Shares pursuant to a Lease Agreement? ~~Yes~~ NO
Date of the Lease: _____
Name of Lessee (if different from Question 1): _____
Name of Lessor: _____

4. The information in this questionnaire relates to my use of the Shares during the 20__ irrigation
season (hereinafter "Lease Year").

5. Do you still own the farm or parcel irrigated by these Shares? NO

6. Was your use of the Shares during the Lease Year consistent with all terms and conditions of the
Lease Agreement and with the bylaws, rules, regulations, and policies of the ditch company?
Yes

7. What is the legal description of the farm or parcel on which these Shares were
used? _____

8. What is the total size of the farm or parcel? _____ acres.

9. What is the size of the area(s) on the farm or parcel that was irrigated? _____ acres.

10. What is the size of the area(s) on the farm or parcel that was irrigated using water from the
Shares? _____ acres.

11. Please provide the following information regarding how the water from these Shares is delivered.
 - Location and ID Number of the head gate at the main ditch: _____

 - Name and general location of any lateral(s) delivering the water to the land historically
irrigated: _____

- Identification of any carrier or lateral ditch stock required to deliver these rights: _____.
- Approximate location of pumps, if used: _____.
- Approximate location and size of storage ponds or reservoirs, including tail water ponds, if used: _____.

12. How was water applied during the Lease Year? Sprinkler _____ Furrow _____ Flood _____
 Other/Combination (Describe): _____.

13. What was the irrigation season for the Lease Year? Start Date: _____ Stop Date: _____

14. During the Lease Year, did you divert and irrigate with all water available under the Shares? _____.
 If no, please explain the reason why all water was not taken, approximately how much was not taken, and for how long: _____

 _____.

15. Other than the Shares leased, was any other water (including other shares that are in the same Company as the Shares that are the subject of this questionnaire) used to irrigate the farm or parcel on which the Shares are/were used during the Lease Year? If so, please provide the following information.

- Number of shares: _____
- Ditch Company: _____
- Number of any Irrigation Wells: _____
- Identification and Permit No. of any Irrigation Wells: _____
- _____
- Capacity of Irrigation Wells: _____
- Approximate location of Irrigation Wells: _____
- _____
- Any other water used: _____
- Describe how the water has been used, including the estimated percentage of the total irrigation supply provided by such water: _____
- _____

16. During the Lease Year, what crops were grown on the land irrigated by the Shares?

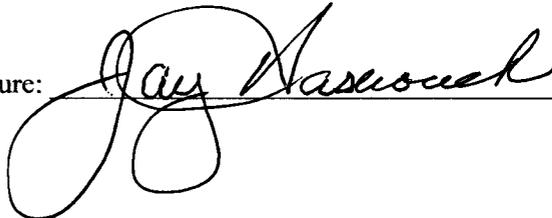
1. Crop: CORN Percentage: 100% Location: _____
2. Crop: _____ Percentage: _____ Location: _____
3. Crop: _____ Percentage: _____ Location: _____
4. Crop: _____ Percentage: _____ Location: _____
5. Crop: _____ Percentage: _____ Location: _____
6. Crop: _____ Percentage: _____ Location: _____

17. Were the lands on which the Shares were used subirrigated? _____

18. If possible, please provide a map, sketch, or aerial photograph showing locations of (*check if included*):

- _____ Farm or Parcel
- _____ Areas irrigated by the Shares during the Lease Year
- _____ Areas irrigated with other water
- _____ Lateral ditches, wells, pumps, pipelines, storage reservoirs, or tail water ponds

I understand that I may be required to sign an affidavit attesting to the accuracy, to the best of my knowledge, of the information provided herein.

Signature:  _____

Date: 9 June 2016

WATER & SEWER BOARD AGENDA JUNE 15, 2016

ENCLOSURE _____

NO ENCLOSURE X

ITEM NUMBER: 8

TITLE: EXECUTIVE SESSION

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

WATER & SEWER BOARD AGENDA JUNE 15, 2016

ENCLOSURE _____

NO ENCLOSURE __X__

ITEM NUMBER: 9

TITLE: LEGAL REPORT

POSSIBLE ACTION: STATEMENTS OF OPPOSITION, IF ANY

RECOMMENDATION: INFORMATION ONLY

ADDITIONAL INFORMATION:

WATER & SEWER BOARD AGENDA JUNE 15, 2016

ENCLOSURE _____

NO ENCLOSURE X

ITEM NUMBER: 10

TITLE: DIRECTOR'S REPORT

RECOMMENDATION: INFORMATIONAL ONLY

ADDITIONAL INFORMATION:

- Water Board Tour, July 22nd – Tour Locations
- Weld County URS Process Update

WATER & SEWER BOARD AGENDA JUNE 15, 2016

ENCLOSURE _____

NO ENCLOSURE __X__

ITEM NUMBER: 11

TITLE: SUCH OTHER BUSINESS THAT MAY BE
BROUGHT BEFORE THE BOARD AND
ADDED TO THIS AGENDA BY MOTION OF
THE BOARD

RECOMMENDATION: TO BE DETERMINED

ADDITIONAL INFORMATION: