

City Council Utility Committee

Meeting Agenda

Friday, September 28, 2018

SPRUCE CONFERENCE ROOM, CITY HALL, 1ST FLOOR

2:30-4:00 pm

- I. Call to Order
- II. Roll Call
- III. Approval of Agenda
- IV. Approval of Minutes from May 11, 2018
- V. Public Comments on Items Not on the Agenda
- VI. Agenda Items and Date for Next Meeting
 - Advance Agenda & Meeting Dates
- VII. 2019 Utility Rate Workshop
 - Review and develop utility rate scenarios within the financial model based on the proposed 2019/2020 budget. Seek to finalize 2019 utility rates for recommended adoption in 2019.
- VIII. Adjourn 4:00 pm

Attachments: 5-11-18 Draft Minutes

Advance Agenda

CIP Rate Impacts

2nd Quarter Financials

BNSF Underpass Cost Estimate

**City Council
Utility Committee
Draft - Meeting Minutes**

Friday, May 11, 2018

CITY COUNCIL CHAMBERS, CITY HALL, 2nd FLOOR

I. **Call to Order** – Ashley Stolzmann called the meeting to order at 2:35 pm.

II. **Roll Call** was taken and the following members were present:

City Council: Robert Muckle and Ashley Stolzmann

Absent: Jay Keany

Staff Present: Kurt Kowar, Kevin Watson, Cory Peterson, and Cara Golden

Public: none

III. **Approval of Agenda:** Agenda approved as written.

IV. **Approval of the Minutes:** The meeting minutes from February 2nd and March 9th were approved as written.

V. **PUBLIC COMMENTS ON ITEMS NOT ON THE AGENDA:**

None

VI. **Agenda Items and Date for Next Meeting**

Councilmember Stolzmann requested the addition of budget for the next agenda. Mayor Muckle asked for legislation requiring pay as you throw pricing and requiring composting to be presented to Council for the September 14th Utility Committee meeting. Director Kowar stated that this is similar to how the County governs waste.

VII. **Solid Waste RFP (Request for Proposals)**

Director Kowar outlined the second draft for the upcoming Solid Waste RFP. The overall framework of the bids was discussed. Director Kowar suggested holding community meetings to provide a question and answer forum and solicited

customer feedback before the bids come to City Council; the Committee was in favor of the suggestion. The Committee requested that a Sustainability Advisory Board member be added to the RFP selection committee. Director Kowar committed to updating the sections of the RFP that are currently in yellow, and the population data before bringing it to City Council.

The Committee discussed the new concept that was presented about providing one container of compost and recycling of any size in the base cost of trash however charging for additional containers. The idea was presented by staff for two main reasons: to try to meet the goal of reducing overall waste & to help ensure that the residential program serves only residents. Staff has some concern that if a household can have as many compost and recycling bins as they want at no cost it could lead to people bringing commercial waste home as a cost savings for their business, or it could lead to home businesses being subsidized heavily by the other residential users. The Committee agreed that the staff proposal of only including the first bin of any size in the trash cost was a good one that would promote overall waste reduction while encouraging people to divert waste & asked that the staff work on messaging the concept so that the public and other Councilmembers understand the sustainability and cost issues around this proposal. Director Kowar agreed & committed to ensuring that the language in the RFP was clear that this new concept would be integrated into each alternate bid option.

Councilmember Stolzmann asked that when the RFP comes to Council that the take rate and cost of the bulky item pick-up be called out for discussion. Mayor Muckle stated that Council was supportive of leaving the bulky item pickup in the contract & he supports that program as-is. Council Member Stolzmann agreed that the Council had supported it, but with the low take rate, it seems like most residents are subsidizing the service and she wondered if this was increasing the monthly cost unnecessarily; she favored requiring that the bulky item service would be available for a fee per each use rather than "free." Staff agreed to provide the information for discussion when it goes before Council, but noted that they would stick with the Council direction to include it as the default.

Councilmember Stolzmann asked about outreach to residents that are not currently being served by the City. Director Kowar stated that he had met with some Board Members and residents of the Coal Creek Ranch HOA. He had not met with the other HOAs yet. Councilmember Stolzmann suggested taking a City Councilmember with him on the outreach visits & using the Councilmembers to help identify HOA contacts. Director Kowar committed to having an accurate up to date map of which areas are in the city service area and which are being served by their HOA to include in the Council packet. Utility Committee was supportive of this RFP being added to a future Council agenda with the changes as discussed. The next draft RFP will be scheduled for a Council meeting in the third quarter.

VIII. Preliminary CIP Budget Request

Director Kowar described the current process and provide some general discussion on the overall Utility CIPs. Director Kowar and Mr. Peterson outlined

each submitted water project. Councilmember Stolzmann noted that there was a dramatic increase in capital funding request & stated that this would have a large impact to rates. She asked if this list was inclusive of all of our assets; Mr. Peterson stated that no, this was not all the assets and that staff is working to have all of our assets into our asset management software by year end. Staff have inputted the distribution and collection systems assets and are working uploading the assets for plants. Once all the assets are accounted for, staff will be able to better predict the long term CIP plan. All water projects were discussed; important items of note were:

- NCWCD-Windy Gap Firming Project: the decrease in funding requested was due to the projected upfront cash payment in 2018
- Water Line Replacement & Water Line Replacement City Streets: These projects are being combined as they are the same work that are bid on the same contract
- McKay Reservoir Pipeline: alternatives to this project are being explored
- Lateral Ditch Piping: Councilmember Stolzmann noted that this project has increased in estimated cost by about \$2 million. Mr. Peterson explained that the original projection was incorrect. Councilmember Stolzmann asked about the department priority rating of “highest” and about project alternatives. Mr. Peterson stated that this project would enable us to better utilize our water rights with more reliable deliveries. Currently, we have to maintain an open ditch and there is water loss and some lead time to get the ditch switched on. Mayor Muckle stated that he is supportive of redundancy and supports this project. Councilmember Stolzmann noted that there is already redundancy at the plant with the tie into Superior’s water system. She also noted that the alternative of planning ahead and using the ditch still exists even if we do not do this project at this time. Last she noted that this needed capacity is a buildout issue and may be able to be done at a later date than proposed. Staff agreed to bring back additional information about this project including timing and alternatives.
- Marshall Lake Sediment Control: Mayor Muckle stated that he was very much in favor of this project. Councilmember Stolzmann asked that the dates in the CIP and in the rate model be updated to match. Mr. Peterson agreed.
- Vehicle Replacement: Councilmember Stolzmann asked if there was a functional need for trucks with this towing power or if more sustainable alternatives could be substituted. Director Kowar explained that the trucks serve a functional need and there is not a suitable electric or natural gas alternative on the market at this time.
- Fire Hydrant Painting: Director Kowar agreed to evaluate combining the project into one year as all the hydrants are in need of painting now. This may result in cost savings by doing the project in one shot.
- Snow Plow: Staff agreed to correct the program listed for the snow and ice removal to “Transportation”. Staff also agreed to verify the split between

the utility funds and the capital projects fund to ensure that the enterprise was not being overcharged.

- Barricades and Barricade Trailer: Staff agreed to verify the split between the utility funds and the capital projects fund to ensure that the enterprise was not being overcharged.
- WTP Boat: Staff committed to asking parks if they have a boat that could be shared.
- WTP Chemical Storage: Councilmember Stolzmann asked how this was different from the project that Council funded in the budget amendment last year. Mr. Peterson stated that it was the same project, but when the bid the project it was much more expensive than projected. Staff decided to move the date out and rebid the project.
- Utility Leak Detector: this item failed & has been purchased. The CIP request will be removed

Due to time limitation sewer and storm water projects were tabled to the next Utility Committee meeting. Staff will coordinate to set up this next meeting at the end of June.

Staff alerted the committee to a potential unanticipated yet necessary Stormwater project that is being triggered by the construction of the Highway 42 Underpass. This project may likely be in the \$2-3 Million dollar range. Councilmember Stolzmann noted that areas of the Urban Renewal Area have directly impacted the Stormwater flows. Mayor Muckle concurred. Staff and the Mayor are going to explore if the Urban Renewal Authority could fund this new project.

IX. Update – CIP Projects

Mr. Peterson outlined the status the HBWTP projects and recent struggles with procuring some equipment. All projects are within budget and are maintaining an acceptable range on schedules.

X. CWCB Grant

Director Kowar gave a brief discussion on the CWCB Grant. The grant determination has been moved to August. The City has the option to pursue social marketing outside of the grant cycle. Additional informational material was provide. While the concept is promising, staff indicated this as a low priority item that could be delayed until next year or later.

XI. Xcel Renewable Initiative (Discussion)

Director Kowar presented a new initiative provided by Xcel for the purchase of renewable energy. The City will be promoting this program through the City Manager's Office.

XII. Update – Water Resources

Mr. Peterson provided an overview of the current conditions of water supplies as being close to average.

XIII. Upcoming Projects and Council Action

Mr. Peterson provided an update on the HBWTP Upgrade project. The blowers for the air scour are aging and not sized appropriately and will require replacement. A contract amendment is anticipated in June to cover the cost of this replacement. Sufficient funds are available within existing budgets.

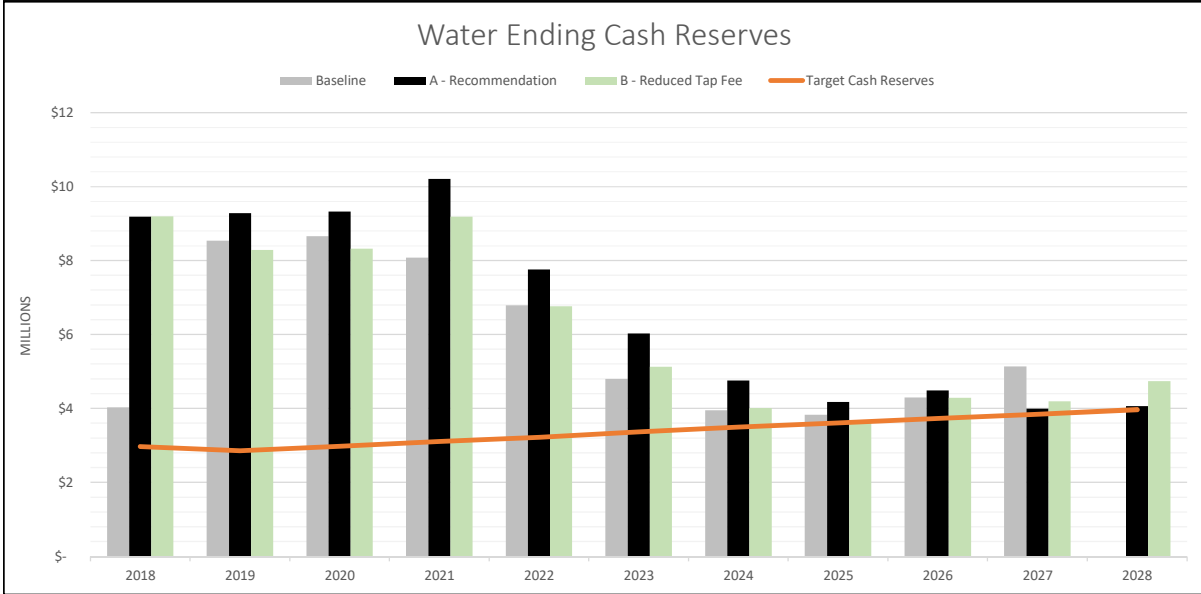
XIV. Adjourn

The meeting was adjourned at 4:45 pm by Councilmember Stolzmann and seconded by Mayor Muckle.

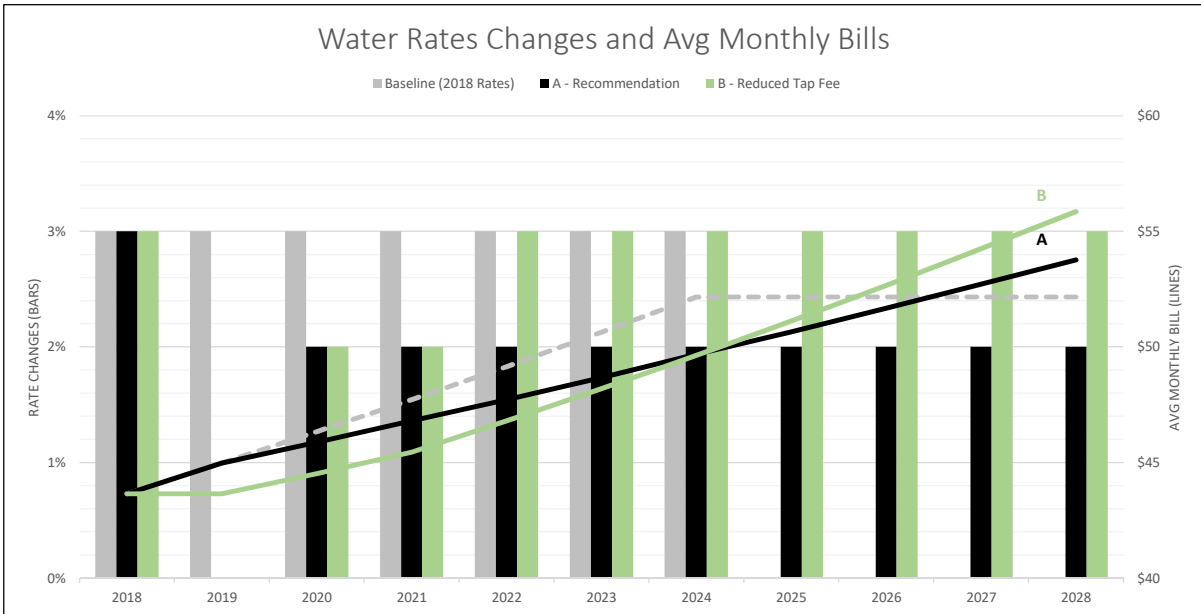
Utility Committee Advanced Agenda

DATE	ISSUE
2018	
11/9	Final 2019 Rates 3 rd Quarter Financial Review (2018) Windy Gap CIP Update Project Tour (HBWTP)
2019	
1/11	4 th Quarter Financial Review (2018) Windy Gap CIP Update
3/8	Water Supply Update (Begin Drought Strategy discussion if needed) Windy Gap CIP Update
5/10	Water Supply Update (Drought Strategy if needed) 1 st Quarter Financial Review (2019) Windy Gap CIP Update Water Engineering Update

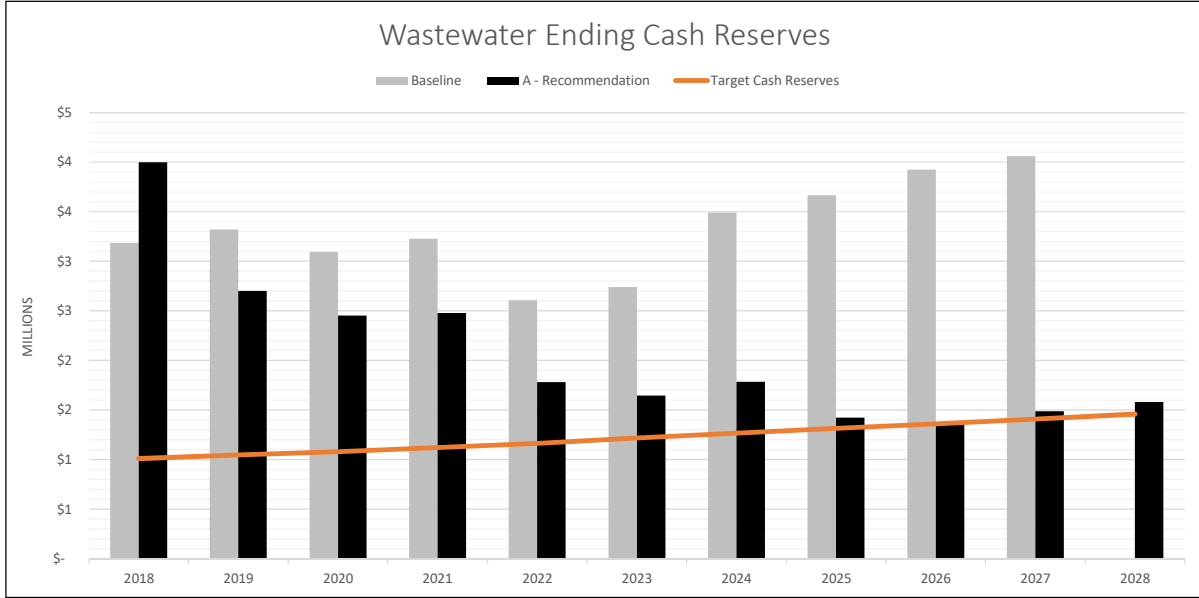
Option A - Recommended ('19-'20 Budget & Windy Gap Shift)
 Option B - (\$1M reduction of Tap Fee Revenue for 2018)



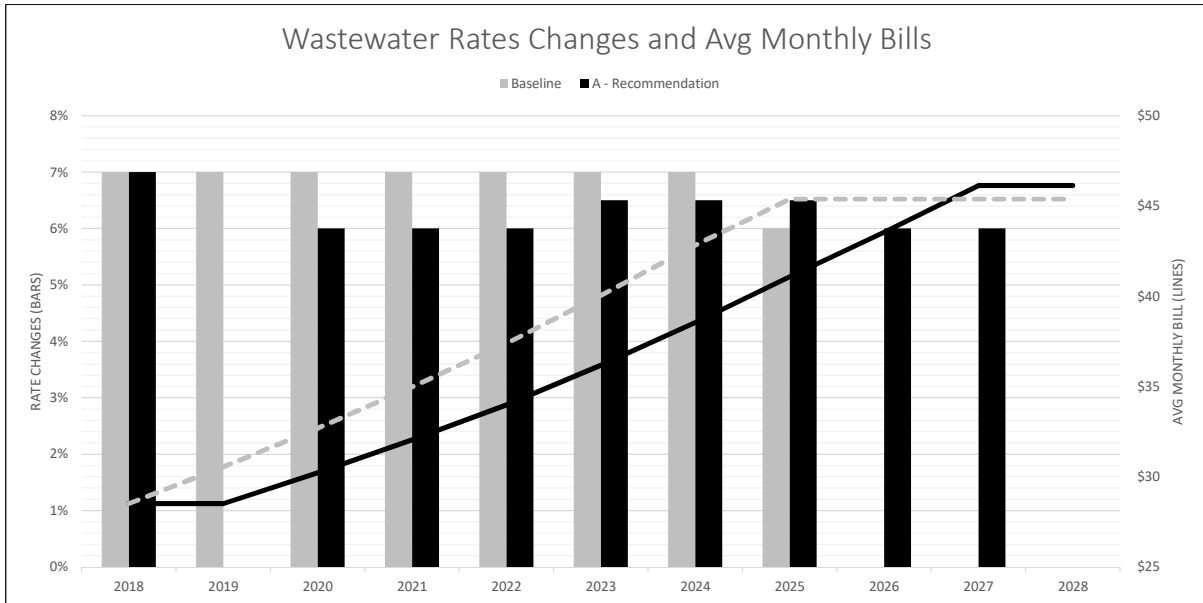
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Cumm. TOTAL
Baseline: (Prior Rate Approval - May 1, 2018)											
Rate Change	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	0.0%	0.0%	0.0%	0.0%	19.4%
Avg. Yearly Change	\$ 16.04	\$ 16.16	\$ 16.52	\$ 17.18	\$ 17.96	\$ 18.20	\$ -	\$ -	\$ -	\$ -	\$ 5,994.98
Option A: Recommended (Utility Committee revised CIP, 2019/2020 Budget, & 1 yr shift of Windy Gap)											
Rate Change	0.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	19.5%
Avg. Yearly Change	\$ -	\$ 10.51	\$ 11.17	\$ 10.75	\$ 11.29	\$ 10.87	\$ 12.07	\$ 11.65	\$ 11.65	\$ 12.43	\$ 5,738.39
Option B: (Option A with a \$1M reduction in Tap Fee Revenue received in 2018)											
Rate Change	0.0%	2.0%	2.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	28.0%
Avg. Yearly Change	\$ -	\$ 10.51	\$ 11.17	\$ 16.28	\$ 16.64	\$ 17.18	\$ 18.08	\$ 18.32	\$ 19.10	\$ 19.22	\$ 5,906.39



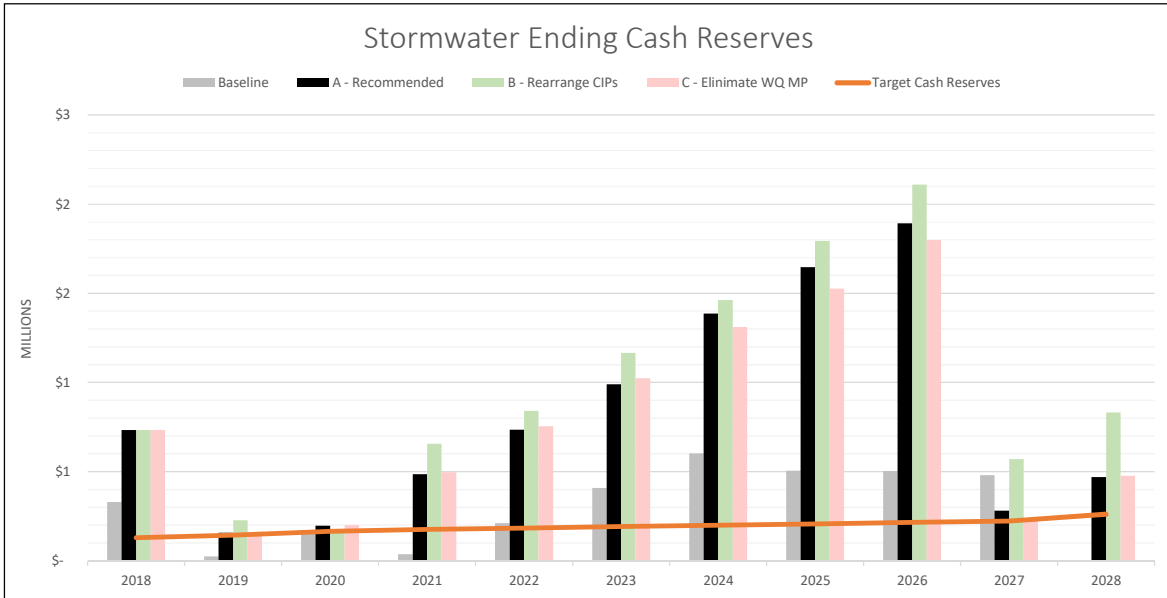
Option A - Recommended ('19-'20 Budget)



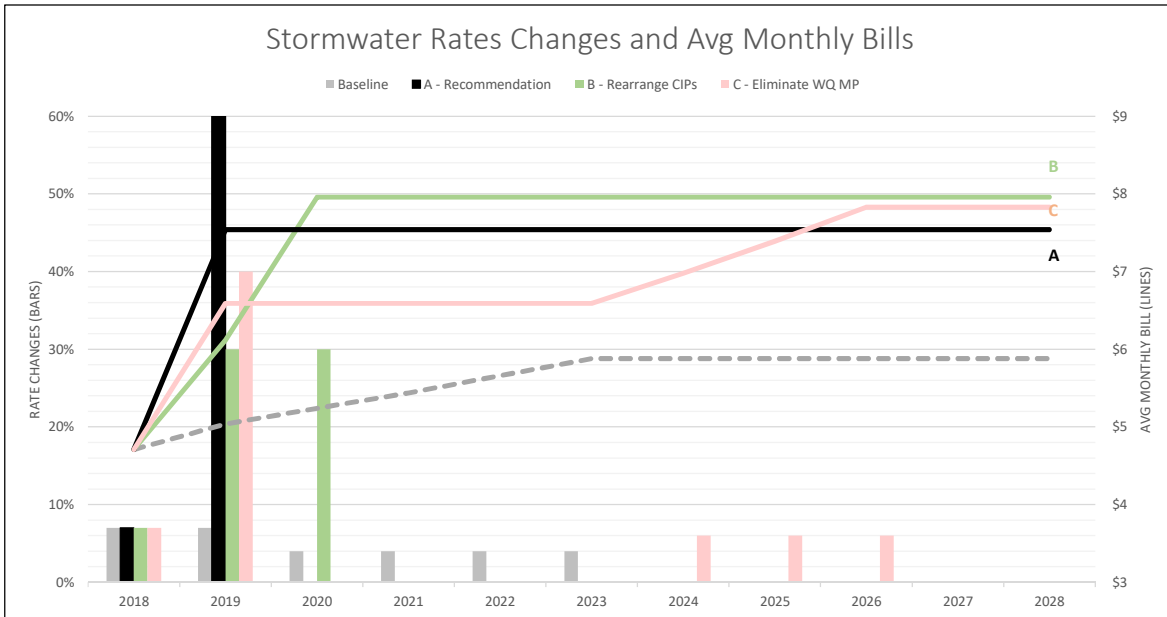
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Cumm. TOTAL
Baseline: (Prior Rate Approval - May 1, 2018)											
Rate Change	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	6.0%	0.0%	0.0%	0.0%	59.1%
Avg. Yearly Change	\$ 24.34	\$ 25.75	\$ 27.53	\$ 28.94	\$ 31.78	\$ 33.55	\$ 30.48	\$ -	\$ -	\$ -	\$ 4,800.70
Option A: Recommendation (Utility Committee revised CIP & 2019/2020 Budget)											
Rate Change	0.0%	6.0%	6.0%	6.0%	6.5%	6.5%	6.0%	6.0%	0.0%	0.0%	61.7%
Avg. Yearly Change	\$ -	\$ 20.62	\$ 21.91	\$ 23.04	\$ 26.52	\$ 28.18	\$ 30.36	\$ 29.59	\$ 31.25	\$ -	\$ 4,517.23



Option A - Recommendation ('19-'20 Budget & Eliminated Goodhue)
 Option B - (Pond Maint. Skip '19 and '21, but double '20 and '22 & delay WQ MP to '20)
 Option C - (Eliminate WQ MP)



	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Cumm. TOTAL
Baseline: (Prior Rate Approval - May 1, 2018)											
Rate Change	7.0%	4.0%	4.0%	4.0%	4.0%	0.0%	0.0%	0.0%	0.0%	0.0%	25.2%
Avg. Yearly Change	\$ 3.96	\$ 2.40	\$ 2.40	\$ 2.64	\$ 2.64	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 679.92
Option A: Recommendation (Utility Committee revised CIP, 2019/2020 Budget, & elimination of Goodhue)											
Rate Change	60.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	60.0%
Avg. Yearly Change	\$ 33.96	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 904.80
Option B: (Option A with Pond Maint. Skipped in '19 and '21 and double '20 and '22, & Delay WQ MP to 2020)											
Rate Change	30.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	69.0%
Avg. Yearly Change	\$ 16.92	\$ 22.08	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 933.12
Option C: (Option A with the eliminate of the WQ MP)											
Rate Change	40.0%	0.0%	0.0%	0.0%	0.0%	6.0%	6.0%	6.0%	0.0%	0.0%	66.7%
Avg. Yearly Change	\$ 22.56	\$ -	\$ -	\$ -	\$ -	\$ 4.68	\$ 4.92	\$ 5.28	\$ -	\$ -	\$ 849.72

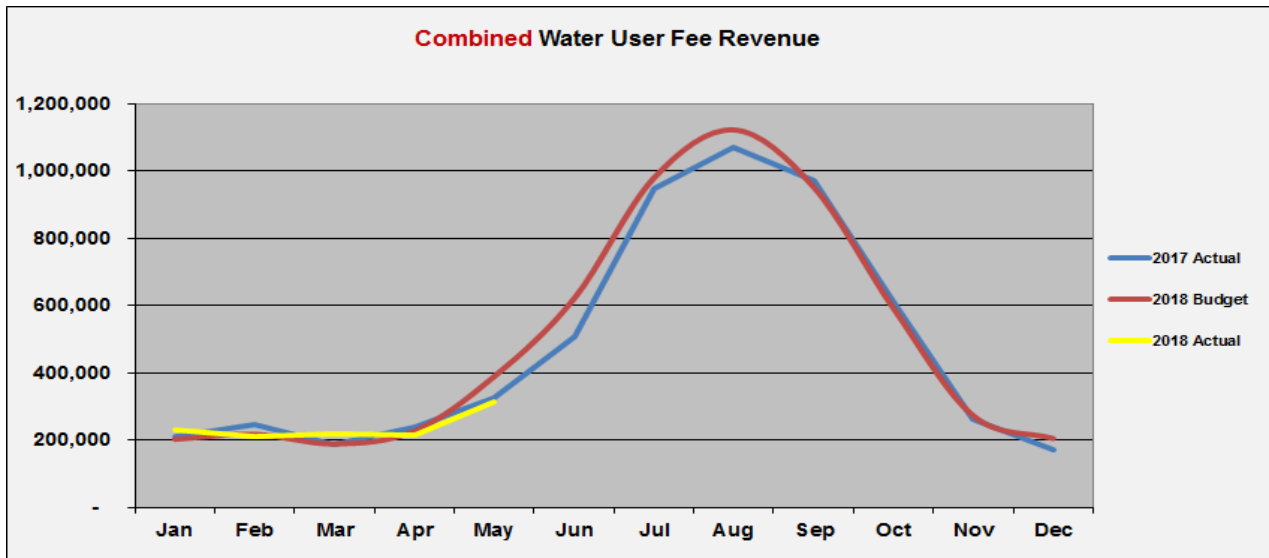
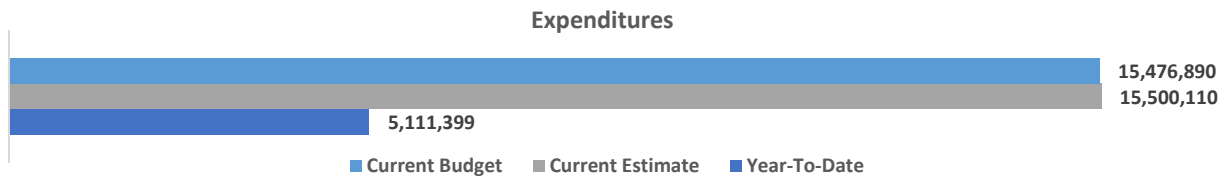
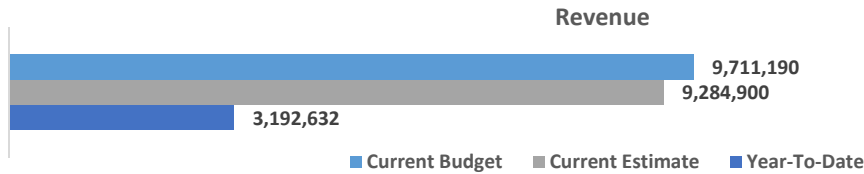


UTILITY RATE IMPACTS (Residential - Average Use)

	2018 Rates		Prior 2019 Rates (May, 2018)		New 2019 Rates (Recommended)	
Fund	Total Yearly Chargers	Total Yearly Chargers	Percent Change	Total Yearly Chargers	Percent Change	
Water	\$523.81	\$539.84	3%	\$523.81	0%	
Wastewater	\$342.24	\$366.58	7%	\$342.24	0%	
Stormwater	\$56.52	\$60.48	7%	\$90.48	60%	
Total	\$922.57	\$966.90	5%	\$956.53	4%	

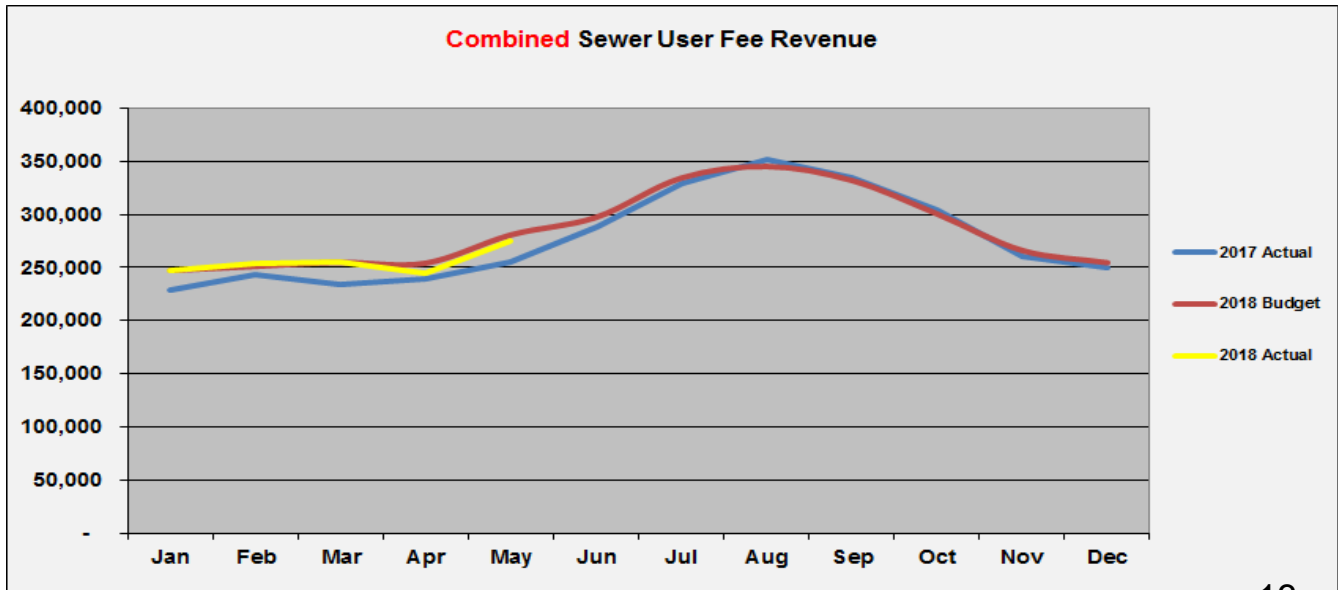
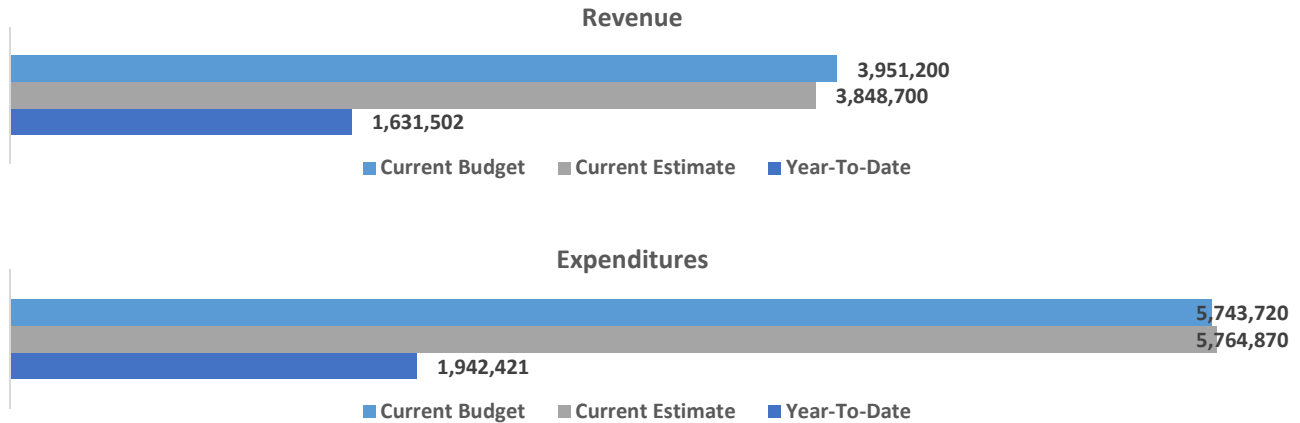
Water Utility Fund
Revenue, Expenditures, & Changes to Fund Balance
June 30, 2018 - Budgetary Basis & Cash Basis

	2017	2018				
	Audited Actuals	Current Budget	Actuals @ 06/30/18	Percent of Budget	Current Estimate	Percent of Budget
Revenue:						
Intergovernmental Revenue	335,181	-	-		-	
Charges for Services:						
User Fees	5,851,124	6,089,240	1,421,368	23.3%	5,794,630	95.2%
Tap Fees	4,659,014	3,371,190	1,617,186	48.0%	3,138,310	93.1%
Miscellaneous Revenue	416,444	250,760	153,077	61.0%	350,960	140.0%
Other Financing Sources	-	-	1,000		1,000	
Total Revenue	11,261,763	9,711,190	3,192,632	32.9%	9,284,900	95.6%
Expenditures:						
Central Fund-Wide Charges	476,752	495,150	234,517	47.4%	498,650	100.7%
Utility Billing	135,665	153,830	53,211	34.6%	154,090	100.2%
Water Utility Engineering	69,564	96,490	31,876	33.0%	96,700	100.2%
Water Plant Operations	1,324,028	2,137,480	620,674	29.0%	2,138,240	100.0%
Raw Water Operations	481,185	971,380	352,465	36.3%	971,380	100.0%
Water Distribution	461,871	583,450	202,083	34.6%	585,000	100.3%
Water Treatment Plant Building Maintenance	186,069	219,750	64,725	29.5%	221,990	101.0%
Debt Service	976,824	987,190	121,172	12.3%	987,190	100.0%
Replacement Capital - Public Works	2,049,987	2,992,600	665,904	22.3%	2,992,600	100.0%
Capital - Public Works	1,869,152	6,839,570	2,764,772	40.4%	6,854,270	100.2%
Total Expenditures	8,031,098	15,476,890	5,111,399	33.0%	15,500,110	100.2%
Revenue Over/(Under) Expenditures	3,230,664	(5,765,700)	(1,918,768)		(6,215,210)	
Beginning Working Capital	14,666,139	17,896,803	17,896,803		17,896,803	
Ending Working Capital	17,896,803	12,131,103	15,978,035		11,681,593	



Wastewater Utility Fund
Revenue, Expenditures, & Changes to Fund Balance
June 30, 2018 - Budgetary Basis & Cash Basis

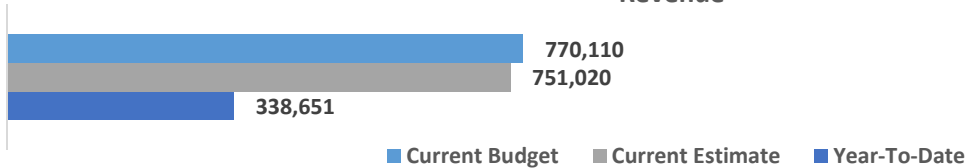
	2017		2018			
	Audited Actuals	Current Budget	Actuals @ 06/30/18	Percent of Budget	Current Estimate	Percent of Budget
Revenue:						
Charges for Services:						
User Fees	3,366,598	3,470,190	1,409,334	40.6%	3,351,500	96.6%
Tap Fees	819,240	369,720	156,760	42.4%	373,320	101.0%
Miscellaneous Revenue	160,451	111,290	65,408	58.8%	123,880	111.3%
Total Revenue	4,346,289	3,951,200	1,631,502	41.3%	3,848,700	97.4%
Expenditures:						
Central Fund-Wide Charges	371,666	353,080	161,751	45.8%	353,380	100.1%
Utility Billing	113,671	122,560	44,611	36.4%	122,820	100.2%
Wastewater Utility Engineering	44,841	71,410	20,990	29.4%	71,410	100.0%
Wastewater Collections	224,838	237,480	99,773	42.0%	250,830	105.6%
Wastewater Treatment Plant Operations	758,609	883,550	365,237	41.3%	890,550	100.8%
Pretreatment	44,433	99,140	14,079	14.2%	99,140	100.0%
Wastewater Treatment Plant Building Maint	300,726	393,860	100,923	25.6%	394,100	100.1%
Debt Service	1,272,007	1,278,240	639,121	50.0%	1,278,240	100.0%
Replacement Capital - Public Works	1,051,821	1,116,220	51,528	4.6%	1,116,220	100.0%
Capital - Public Works	6,473,209	1,188,180	444,407	37.4%	1,188,180	100.0%
Total Expenditures	10,655,819	5,743,720	1,942,421	33.8%	5,764,870	100.4%
Revenue Over/(Under) Expenditures	(6,309,531)	(1,792,520)	(310,919)		(1,916,170)	
Beginning Working Capital	12,374,069	6,064,538	6,064,538		6,064,538	
Ending Working Capital	6,064,538	4,272,018	5,753,620		4,148,368	



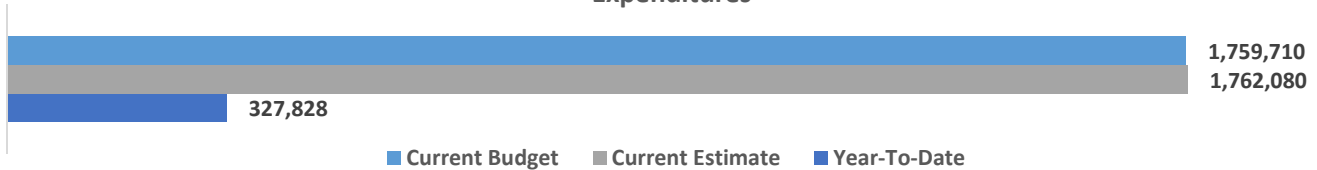
Storm Water Utility Fund
Revenue, Expenditures, & Changes to Fund Balance
June 30, 2018 - Budgetary Basis & Cash Basis

	2017	2018				
	Audited Actuals	Current Budget	Actuals @ 06/30/18	Percent of Budget	Current Estimate	Percent of Budget
Revenue:						
Licenses & Permits	500	2,000	-	0.0%	2,000	100.0%
Intergovernmental Revenue	265,643	-	-		-	
Charges for Services	739,801	762,240	333,280	43.7%	738,050	96.8%
Miscellaenous Revenue	9,870	5,870	5,371	91.5%	10,970	186.9%
Total Revenue	1,015,814	770,110	338,651	44.0%	751,020	97.5%
Expenditures:						
Storm Water Utility Engineering	34,501	61,080	15,972	26.1%	61,080	100.0%
Storm Water Administration & Operations	253,443	291,050	100,714	34.6%	293,420	100.8%
Debt Service	260,532	261,810	130,905	50.0%	261,810	100.0%
Capital - Public Works	390,646	1,145,770	80,237	7.0%	1,145,770	100.0%
Total Expenditures	939,122	1,759,710	327,828	18.6%	1,762,080	100.1%
Revenue Over/(Under) Expenditures	76,692	(989,600)	10,824		(1,011,060)	
Beginning Working Capital	1,165,980	1,242,672	1,242,672		1,242,672	
Ending Working Capital	1,242,672	253,072	1,253,496		231,612	

Revenue

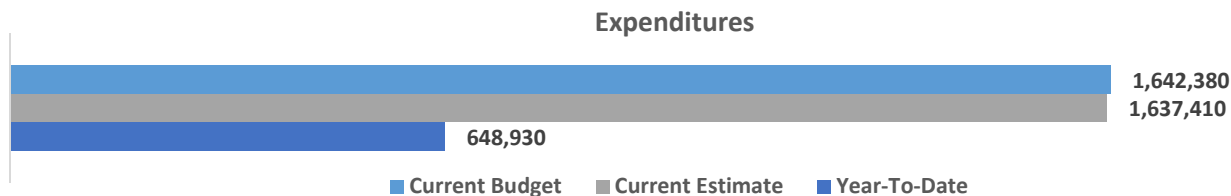
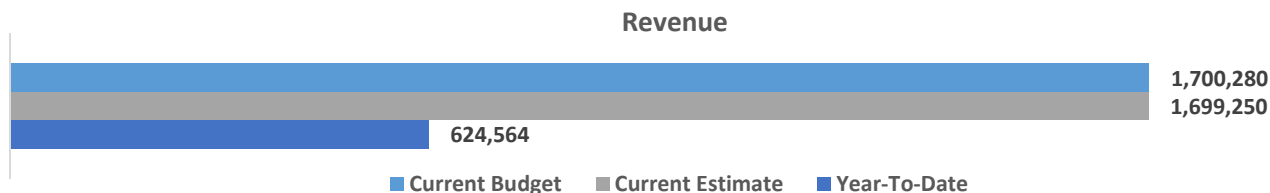


Expenditures



Solid Waste & Recycling Fund
Revenue, Expenditures, & Changes to Fund Balance
June 30, 2018 - Budgetary Basis & Cash Basis

	2017	2018				
	Audited Actuals	Current Budget	Actuals @ 06/30/18	Percent of Budget	Current Estimate	Percent of Budget
Revenue:						
Charges for Services:						
User Fees	1,424,193	1,478,480	540,686	36.6%	1,478,480	100.0%
Administration Fees	127,936	149,980	49,921	33.3%	148,980	99.3%
Hazardous Waste Fees	54,834	61,200	27,063	44.2%	61,200	100.0%
Other Fees	10,657	9,550	6,524	68.3%	9,550	100.0%
Miscellaenous Revenue	(3)	1,070	370	34.6%	1,040	97.2%
Total Revenue	1,617,618	1,700,280	624,564	36.7%	1,699,250	99.9%
Expenditures:						
Administration & Operations	96,944	98,570	34,528	35.0%	99,170	100.6%
BC Household Hazardous Waste	62,256	58,070	11,564	19.9%	59,760	102.9%
Professional Services - Solid Waste Hauling	1,433,766	1,485,740	602,837	40.6%	1,478,480	99.5%
Total Expenditures	1,592,967	1,642,380	648,930	39.5%	1,637,410	99.7%
Revenue Over/(Under) Expenditures	24,651	57,900	(24,366)		61,840	
Beginning Working Capital	(7,332)	17,319	17,319		17,319	
Ending Working Capital	17,319	75,219	(7,047)		79,159	



BNSF BULLHEAD GULCH TRAIL UNDERPASS - 50 100 yr channel option
 30% DESIGN OPINION OF PROBABLE CONSTRUCTION COSTS
 June 8, 2018

ITEM NO.	DESCRIPTION	UNIT	ROADWAY/ UTILITIES	STRUCTURES	LANDSCAPE / HARDSCAPE	LIGHTING	PROJECT TOTALS	PROJECT COST	COST
							QUANTITY	UNIT COST	COST
SITE WORK									
201	CLEARING AND GRUBBING	LS	1				1	\$5,000.00	\$5,000.00
202	REMOVAL OF CONCRETE SIDEWALK	SY	44				44	\$7.50	\$333.33
202	REMOVAL OF STORM PIPE	LF	85				85	\$75.00	\$6,375.00
203	EMBANKMENT (COMPLETE IN PLACE)	CY	75				75	\$5.00	\$375.00
203	UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)	CY	1,660				1,660	\$8.00	\$13,280.00
203	UTILITY POTHOLING	HR	40				40	\$350.00	\$14,000.00
207	TOPSOIL (STOCKPILE AND REDISTRIBUTE)	CY	100				100	\$7.00	\$700.00
208	SILT FENCE	LF	1000				1,000	\$5.00	\$5,000.00
208	CONCRETE WASHOUT AREA	EA	2				2	\$1,200.00	\$2,400.00
208	STABILIZED CONSTRUCTION ENTRANCE	EA	2				2	\$1,700.00	\$3,400.00
210	ADJUST MANHOLE	EA	1				1	\$300.00	\$300.00
506	RIPRAP	SY	222				222	\$200.00	\$44,377.78
507	CONCRETE SLOPE AND DITCH PAVING	CY	21				21	\$500.00	\$10,435.19
602	18 INCH REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	54				54	\$75.00	\$4,050.00
602	38 x 60 INCH HE REINFORCED CONCRETE PIPE (COMPLETE IN PLACE)	LF	56				56	\$200.00	\$11,200.00
603	18 INCH REINFORCED CONCRETE END SECTION	EA	2				2	\$1,200.00	\$2,400.00
603	38 x 60 INCH HE REINFORCED CONCRETE END SECTION	EA	1				1	\$1,200.00	\$1,200.00
608	CONCRETE SIDEWALK (6 INCH)	SY	548				548	\$55.00	\$30,118.61
601	CONCRETE CLASS B (WALL) for retaining walls	CY	94				94	\$875.00	\$81,881.10
601	CONCRETE CLASS B for channel bottom	CY	40				40	\$650.00	\$25,742.89
627	PAVEMENT MARKING	SF	50				50	\$10.00	\$500.00
630	FLAGGING	LS	1				1	\$50,000.00	\$50,000.00
							ROADWAY AND UTILITIES TOTAL =		\$313,068.90
LANDSCAPE & HARDSCAPE									
212	NATIVE SEED	LS			1		1	\$2,500.00	\$2,500.00
214	DECIDUOUS TREE	EA			4		4	\$500.00	\$2,000.00
504	CAST-IN-PLACE CONCRETE LANDSCAPE WALL	LF			247		247	\$175.00	\$43,225.00
514	PEDESTRIAN RAILING (STEEL)	LF					0	\$180.00	\$0.00
630	TEMPORARY IRRIGATION	LS			1		1	\$10,000.00	\$10,000.00
							LANDSCAPE & HARDSCAPE TOTAL =		\$57,725.00
LIGHTING									
613	LIGHT FIXTURES	LS				1	1	\$15,000.00	\$15,000.00
							LIGHTING TOTAL =		\$15,000.00
PROJECT TOTALS									
									\$313,068.90
									\$57,725.00
									\$15,000.00
							SUBTOTAL =		\$385,793.90
							10%		\$38,579.39
PROJECT COSTS									
506	PRELIMINARY DESIGN (2013) (30% DESIGN, GEOTECH, SURVEY, BNSF SUBMITTAL)	LS	1				1	\$100,000.00	\$100,000.00
507	FINAL DESIGN (2016-2018) (DESIGN, GEOTECH, SURVEY)	LS	1				1	\$181,240.00	\$181,240.00
508	CONSTRUCTION ADMINISTRATION/ AS-BUILTS	LS	1				1	\$40,000.00	\$40,000.00
509	RAILROAD BRIDGE (BRIDGE, CM, FLAGGING, CONSTRUCTION)	LS		1			1	\$1,059,849.41	\$1,059,849.41
510	RAILROAD CONTINGENCY (20%)	LS		1			1	\$211,969.88	\$211,969.88
619	LEVEL 3 RELOCATION (PER AGREEMENT)	LS	1				1	\$13,184.00	\$13,184.00
626	CONSTRUCTION SURVEY (2%)	LS	1				1	\$7,715.88	\$7,715.88
626	MOBILIZATION (5%)	LS	1				1	\$19,289.69	\$19,289.69
630	TRAFFIC CONTROL (2%)	LS	1				1	\$7,715.88	\$7,715.88
	BNSF EASEMENT	LS	1				1	\$47,900.00	\$47,900.00
	BNSF CROSSING PERMITS	LS	1				1	\$10,000.00	\$10,000.00
TOTAL ENGINEERS ESTIMATE OF PROBABLE CONSTRUCTION COSTS:									\$2,123,238.03

BNSF Underpass - Dual 72" Storm Piping Option (No Ped Underpass)

ITEM	DESCRIPTION	UNIT	QUANTITY	ENGINEERS ESTIMATE	
				Unit Cost	Total Cost
1	Mobilization	LS	1	\$ 45,000.00	\$ 45,000.00
2	Surveying	LS	1	\$ 20,000.00	\$ 20,000.00
3	Utility Coordination/lowering	LS	1	\$ 25,000.00	\$ 25,000.00
4	Erosion Control	LS	1	\$ 15,000.00	\$ 15,000.00
5	Trenchless Installation of 72-Inch Smooth Steel Pipe (SSP)	LF	260	\$ 2,500.00	\$ 650,000.00
6	Tunneling Shafts	LS	1	\$ 75,000.00	\$ 75,000.00
7	Monitoring	LS	1	\$ 20,000.00	\$ 20,000.00
8	Concrete, Structural, Footing/Headwall/Wingwall	CY	20	\$ 1,500.00	\$ 30,000.00
9	Railroad Flagging	DAY	30	\$ 1,800.00	\$ 54,000.00
10	Construction Management	LS	1	\$ 100,000.00	\$ 100,000.00
				TOTAL	\$ 1,034,000