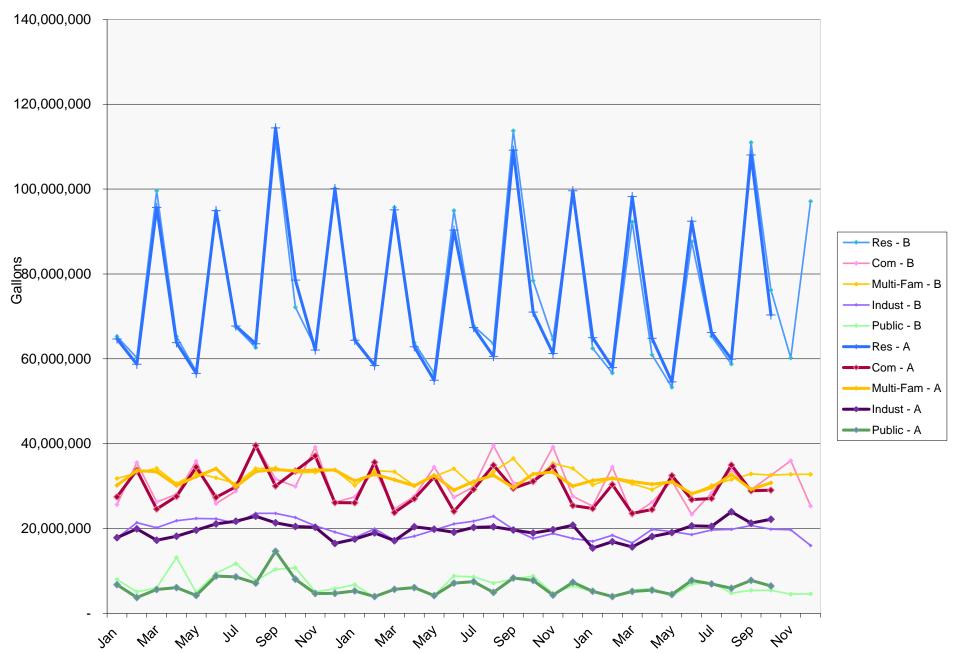
#### WAUKESHA WATER UTILITY STATEMENT OF REVENUES & EXPENSES MONTH ENDED 10/31/2018

		CURRENT M	ONTH		YEAR TO DATE				ANNUAL BUDGET	
OPERATING REVENUES:	ACTUAL'18	BUDGET'18	VARIANCE	%	ACTUAL'18	BUDGET'18	VARIANCE	<u></u> %		
		•			•	•			•	
Residential	\$383,443.38	\$415,095.74	(\$31,652.36)	(7.63)	\$4,031,424.34	\$4,055,129.72	(\$23,705.38)	(0.58)	\$4,935,965.56	
Commercial	128,079.61	147,263.47	(19,183.86)	(13.03)	1,188,797.73	1,248,389.69	(59,591.96)	(4.77)	1,511,321.72	
Industrial	75,470.84	69,901.99	5,568.85	7.97	661,715.07	664,607.17	(2,892.10)	(0.44)	790,195.60	
Public	26,111.30	31,010.77	(4,899.47)	(15.80)	239,994.08	262,917.36	(22,923.28)	(8.72)	302,092.85	
Multi Family	132,733.47	142,414.84	(9,681.37)	(6.80)	1,287,119.21	1,338,660.56	(51,541.35)	(3.85)	1,618,382.44	
Irrigation	11,886.98	0.00	11,886.98	0.00	32,917.80	0.00	32,917.80	0.00	0.00	
Total Metered Sales	\$757,725.58	\$805,686.81	(\$47,961.23)	(5.95)	\$7,441,968.23	\$7,569,704.50	(\$127,736.27)	(1.69)	\$9,157,958.17	
Private Fire Capacity	\$21,311.82	\$18,500.04	\$2,811.78	15.20	\$205,159.45	\$184,867.06	\$20,292.39	10.98	\$222,476.02	
Public Fire Capacity	165,734.74	163,244.74	2,490.00	1.53	1,734,488.93	1,740,259.28	(5,770.35)	(0.33)	2,113,211.26	
Other Operating Revenues	54,746.25	51,022.50	3,723.75	7.30	343,310.64	336,805.38	6,505.26	1.93	473,981.97	
TOTAL OPERATING REVENUES	\$999,518.39	\$1,038,454.09	(\$38,935.70)	(3.75)	\$9,724,927.25	\$9,831,636.22	(\$106,708.97)	(1.09)	\$11,967,627.42	
OPERATING EXPENSES:										
Source	\$50,310.61	\$50,778.77	(\$468.16)	(0.92)	\$502,524.00	\$513,787.70	(\$11,263.70)	(2.19)	\$615,345.28	
Pumping	72,675.51	87,013.28	(14,337.77)	(16.48)	755,352.72	887,961.89	(132,609.17)	(14.93)	1,061,398.85	
Treatment	22,007.65	32,890.66	(10,883.01)	(33.09)	337,282.41	400,906.60	(63,624.19)	(15.87)	491,137.92	
Distribution	79,401.47	108,955.11	(29,553.64)	(27.12)	842,731.96	896,514.85	(53,782.89)	(6.00)	1,412,137.56	
Customer Service	17,544.23	15,271.23	2,273.00	14.88	150,007.53	101,903.94	48,103.59	47.20	127,755.52	
Administrative	99,683.26	118,935.96	(19,252.70)	(16.19)	1,112,504.77	1,354,134.54	(241,629.77)	(17.84)	1,584,571.00	
Total	\$341,622.73	\$413,845.01	(72,222.28)	(17.45)	\$3,700,403.39	\$4,155,209.52	(454,806.13)	(10.95)	\$5,292,346.13	
MANAGERS' MARGIN	657,895.66	624,609.08	33,286.58	5.33	6,024,523.86	5,676,426.70	\$348,097.16	6.13	6,675,281.29	
Depreciation	152,144.91	152,003.45	141.46	0.09	1,521,209.01	1,520,034.50	1,174.51	0.08	1,824,041.40	
Tax Equivalent	153,174.20	153,174.20	0.00	0.00	1,531,742.00	1,531,742.00	0.00	0.00	1,838,090.40	
Other Taxes	11,987.21	12,124.45	(137.24)	(1.13)	130,933.84	133,978.30	(3,044.46)	(2.27)	158,227.20	
TOTAL OPERATING EXPENSES	\$658,929.05	\$731,147.11	(\$72,218.06)	(9.88)	\$6,884,288.24	\$7,340,964.32	(\$456,676.08)	(6.22)	\$9,112,705.13	
TOTAL OPERATING INCOME(LOSS)	\$340,589.34	\$307,306.98	\$33,282.36	10.83	\$2,840,639.01	\$2,490,671.90	\$349,967.11	14.05	\$2,854,922.29	
NON OPERATING INCOME&(EXPENSE)	(129,828.49)	(200,729.50)	70,901.01	(35.32)	(1,317,681.53)	(1,892,968.02)	575,286.49	(30.39)	(467,892.24)	
NET INCOME(LOSS)	\$210,760.85	\$106,577.48	\$104,183.37	97.75	\$1,522,957.48	\$597,703.88	\$925,253.60	154.80	\$2,387,030.05	

WWU Billed Gallons Actual v Budget 2016 - 2018



#### WAUKESHA WATER UTILITY BALANCE SHEET 10/31/2018

ASSETS CURRENT	THIS YEAR
CORRENT CASH AND INVESTMENTS	\$26 911 060 26
ACCOUNTS RECEIVABLE	\$26,811,969.26 6,499,501.11
RECEIVABLE FROM SEWER REIMB	0.01
MATERIALS & SUPPLIES	522,791.77
OTHER CURRENT ASSETS	15,840.00
ACCRUED UTILITY REVENUE	0.00
TOTAL CURRENT ASSETS	\$33,850,102.15
DEFERRED	
DEFERRED ASSETS	\$22,874,606.44
TOTAL DEFERRED DEBITS	22,874,606.44
RESTRICTED	
DEBT PAYMENT ACCOUNT	\$456,117.17
DEBT RESERVE ACCOUNT	477,266.99
CONSTRUCTION FUND	149.26
TAX EQUIV RESERVE ACCOUNT	1,582,573.61
TOTAL RESTRICTED FUNDS	\$2,516,107.03
LONG TERM	
UTILITY PLANT IN SERVICE-NET	\$90,027,687.74
PROPERTY HELD FOR FUTURE USE	435,089.69
CONSTRUCTION WORK IN PROGRESS	4,022,827.70
RESTRICTED NET PENSION	(120,942.00)
TOTAL UTILITY PLANT TOTAL ASSETS	\$94,364,663.13 \$153,605,478.75
TOTAL ASSETS	\$155,605,476.75
LIABILITIES	
CURRENT	
CUR PORTION BOND	1,074,211.17
NOTES PAYABLE	26,610,000.00
ACCOUNTS PAYABLE	2,328,023.48
PAYABLE TO OTHER FUNDS CUSTOMER DEPOSITS	3,772,041.29
A/P MISCELLANEOUS	193,933.23 0.00
TAXES ACCRUED	1,562,400.00
INTEREST ACCRUED	74,711.45
EMPLOYEE WITHHOLDING	32,484.12
ACCRUED PAYROLL	67,968.00
ACCRUED VACATION	236,087.81
TOTAL CURRENT LIABILITIES	\$35,951,860.55
DEFERRED CREDITS	. , ,
CUSTOMER ADVANCES CONSTRUCTION	\$0.00
REGULATORY LIABILITY	987,379.78
OPEB LIABILITY	3,964,905.19
OTHER DEFERRED CREDITS	2,805,426.02
TOTAL DEFERRED CREDITS	\$7,757,710.99
LONG-TERM	P25 270 002 40
BONDS	\$35,278,002.49
EQUITY	• • • • •
CAPITAL PAID IN BY MUNICIPALITY	\$2,707,846.48
EQUITY FINANCED BY UTILITY	36,520,472.56
EQUITY FROM CONTRIBUTIONS	33,170,671.20
RESTRICTED EQUITY	695,957.00
NET PROFIT (LOSS)	1,522,957.48
TOTAL EQUITY AND LIABILITIES	\$74,617,904.72
TOTAL EQUITY AND LIABILITIES	\$153,605,478.75

#### WAUKESHA WATER UTILITY STATEMENT OF SOURCES AND USES OF CASH PERIOD ENDING OCTOBER 31, 2018

Cash Balance	: - Septem	ber 30,	2018
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\$21,557,961

\$29,328,076

#### **SOURCES:**

**USES:** 

Operations:  Customers - water sales  Waste Water Utility - joint metering billing  Rent of utility property - cellular leases  Receipts on sewer bills  Receipts from return flow  Reimbursement from City for return flow expenses  Reimbursement from City for sewer construction costs  Other - miscellaneous  Total Cash From Operating Activities	\$1,290,031 56,007 54,361 1,587,159 106,567 572,721 436,623 7,297 \$4,110,766	-	
Capital and Related Financing Activities: Grants Contributions Issuance of long-term debt Sale of short-term debt Interest income Total Cash From Capital/ Investing Activities	5,854 9,770,000 49,824 \$9,825,678		
Total Cash Receipts		\$13,936,445	
Salaries, wages, payroll taxes and benefits Subcontracted and outside services Disbursement to city for sewer transfer Disbursement to city for return flow transfer Pumping power Purchase of materials and supplies Tax equivalent - PILOT Acquisition of capital assets Debt service - principal Debt service - interest  Total Cash Used	\$229,714 16,025 1,075,092 60,640 60,696 256,952 1,902,898 2,090,000 474,311	\$6,166,329_	
Net Change in Cash		-	\$7,770,115

Cash Balance - October 31, 2018

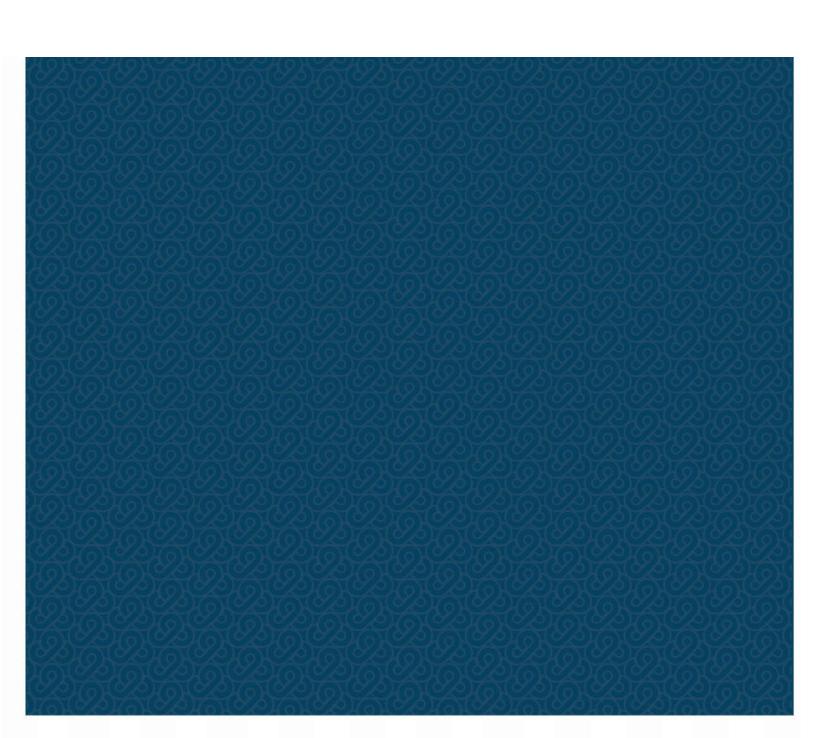
# WWU TRANSMISSION AND DISTRIBUTION BUDGET VARIANCE ANALYSIS

Project	Project #	Description/Location	Budget	Current Estimate	Costs to Date	Ale	dermanic District	Construction Completion					
WM offsets from WSB from Genesee Road to Fiddlers Creek Drive	M00501	Water Main offsets to accommodate changes in the storm sewer and roadway alignments. Project run by WDOT.		\$ 134,208	\$ 21,115	6 7 13 14	Jack Wells Daniel J. Manion Dean Lemke Sarah Wilke	Fall 2019					
Northview Rd - Grandview to Tallgrass	M00518	Replace 1,500 feet of 8-inch main from 1967 with 12-inch PVC water main on Northview Rd. between Grandview and Tallgrass. Project done with City.		\$ 360,504	\$ 254,430	5	Peter Bartels Sarah Wilke	November 2018					
South St - Grand to Barstow and Gaspar St - Main to Broadway	M00519	Replace 720 feet of 12-inch main from 1938 with 12-nch dulctile iron main on South St. from Grand to Barstow. Replace 280 feet of 6-inch main from 1909 with 8-inch ductile iron. Project done with City.		\$ 395,176	\$ 359,856	11	Erik Helgestad	July 2018					
Fairview - Motor to St Paul and Motor - Fairview to Washington	M00520	Replace 1,540 feet of 6-inch from 1927 with 8-inch PVC on Fairview - Motor to St. Paul and Motor - Fairview to Washington. Project done with City.		\$ 304,562	\$ 216,371	2	Eric Payne	September 2018					
Oakmont to Pebble Valley Zone	TBD	Extend 12" water main through easement connecting Pebble Valley and Oakmont.		\$ 325,000	\$ -	14	Sarah Wilke	Summer 2019					
	Routine I	Projects	\$ 2,160,072	\$ 1,519,449	\$ 851,772								
	Misc Ro	outine	\$ 905,584	\$ 905,584	\$ 905,584								
	Total R	outine	\$ 3,065,656	\$ 2,425,033	\$ 1,757,356								
Main St - Barstow to Lombardi	GLCD0007	Replace 2,800 feet of 8-inch from 1909 with 24-inch ductile iron on Main St. from Barstow to		\$ 2,049,467	\$ 1,722,131	3	Cassie Rodriguez	November					
Lombardi		Lombardi. Project being done with City sanitary.				* 1,1 ==,121					11	Erik Helgestad	2018
N Moreland -	GLCD0009	Replace 2,000 feet of 8-inch from 1957 with 16-inch ductile iron		\$ 616,800	\$ 553,595	4	Joe Pieper	October					
Michigan to Summit	0200000	main on N. Moreland Blvd. from Michigan to Summit.		Ψ 010,000	Ψ 000,000	15	Cory Payne	2018					
Motor - Fairview to Mountain and Fairview - Motor to Dopp	GLCD0010	Replace 1,160 feet of 6-inch from 1917 with 20-inch ductile iron on Motor - Fairview to Mountain and Fairview - Motor to Dopp. Project done with City.		\$ 347,462	\$ 266,596	2	Eric Payne	September 2018					
Dist	ribution Syste	m Improvements	\$ 4,001,241	\$ 3,013,730	\$ 2,542,322								
Total Transmission & Distribution \$ 7,066,897   \$ 5,438,763   \$ 4,299,678													

**Bold Totals are Based on Bids** 



# **Exhibit 5 – Earned Value Analysis**





#### **Earned Value Analysis**

The Earned Value (EV) technique is being used to monitor the Program scope, schedule and cost, and to assess overall Program performance. The components of EV are the work breakdown structure, the schedule and the estimated costs. By connecting these components, future Program performance can be predicted and proactive actions can be taken to stay on track.

The work breakdown structure is a grouping of Program elements that define and organize the scope of the Program. For this Program, the work breakdown structure is defined by the Task and subtask activities, deliverables, meetings and workshops. An estimated cost, or Planned Value (PV), duration and interdependencies are assigned to the Task and subtask activities, deliverables, meetings and workshop. A PV cumulative cost curve is used to identify the value at any point in time of the work that is planned to be done.

On a monthly basis, the value of the work completed as a percentage of the PV is determined by the Program Manager and defines the EV which is shown on the cumulative cost curve. The monthly Program invoices define the Actual Costs (AC) which are also shown on the cumulative cost curve. Using the cumulative cost curves developed for the overall Program and each Task, the Schedule Performance Index (SPI) and the Cost Performance Index (CPI) are calculated. SPI is calculated by dividing EV by PV. The CPI is calculated by dividing EV by AC.

At the December 2017 Commission Meeting, the WWU Commission approved the 2018 Milwaukee Route Study for \$1,345,565 and the Phase 2 2018 budget of \$13,999,908. The remaining budget for Task 3-300 and 5-200 water quality scope in the amount of \$691,441 has been removed from the Program Approved Total amount of \$34,242,960.

The 2018 budgets approved by the Commission in December 2017 have been added to the Earned Value charts in this Exhibit. The Earned Value charts have been updated to reflect the planned expenditure of the 2018 budgets for each Task through December 2018.

The work progress and challenges for each Task are noted on the following graphs.



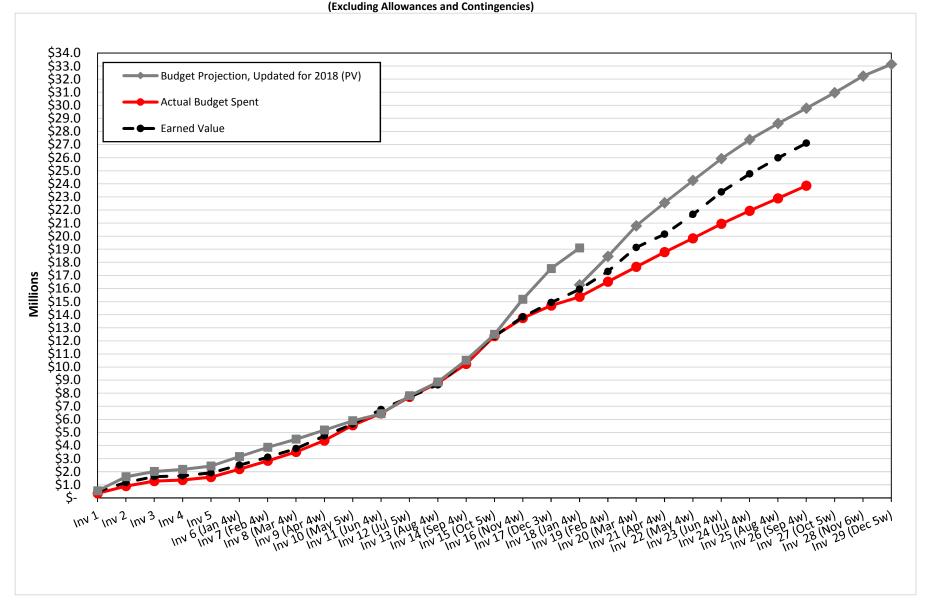


#### Great Lakes Water Supply Program PM/CM Program

# Waukesha Water Utility SERVING WALKESHA SINCE 1886

#### GREELEYAND HANSEN

# Earned Value Chart Phase 1 and 2 (Invoice No. 26)



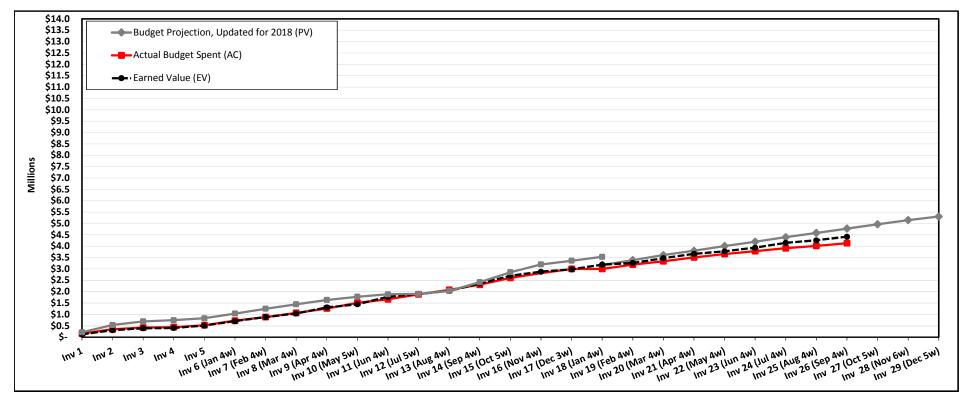
% Spent 71.6% Actual Budget Spent \$23,855,207 Schedule Performance Index (SPI) 0.91
Cost Performance Index (CPI) 1.14

Note: Budget associated with Task 3-300, 5-200 and 5-300 water quality scope has been removed.



### Task 1 - Program Management Earned Value Chart (Excluding Allowances and Contingencies)





Earned Value Calculations	
Budget at Completion <sup>(BAC)(1)</sup> (BAC)	\$ 5,390,965
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$ 907,680
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ 285,603
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ (357,996)
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.07
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	0.93
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	0.99
Estimate at Completion (EAC1) (EAC1=BAC/CPI)	\$ 5,042,668.86
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ 348,296.14

#### Task 1 Program Management Plan/Progress

- Prepared and submitted Invoice No. 25; updated the Financial Management Dashboard and Report for Invoice No. 25.
- Held sixteen (14) Program Team Task 1 meetings.
- The draft PSC Type 2 Application for Certificate of Authority (1-800 D1) was submitted to the QM Team for review.
- The Practicable Alternatives Analysis and the Project Narrative of the WDNR Chapter 30 Wetlands and Waterways permit application (3-110 D1) was submitted to the QM team for review.

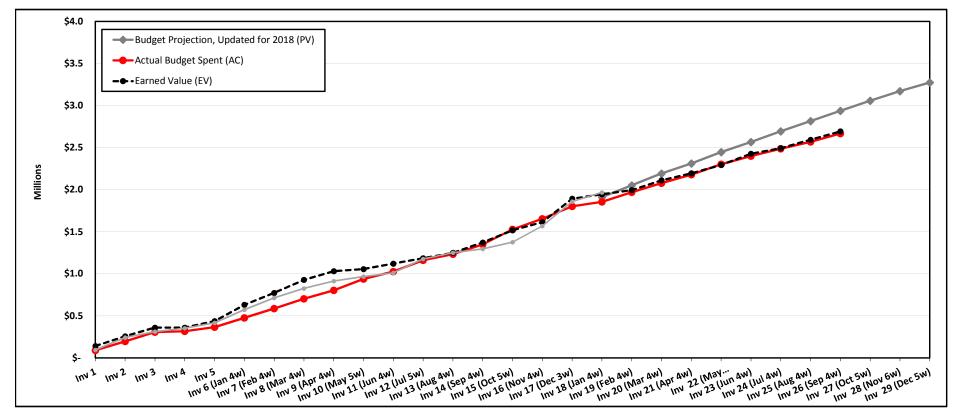
#### Task 1 Program Management Challenges

 The Program Open House in Milwaukee occurred on April 4. Delay in the scheduling of the Open House meeting negatively impacts the Program schedule for completion of field investigations that are needed for submission of the PSC Construction Authorization which is a critical path item for the design, bidding and construction of the Program.



# Task 2 - Programmatic Support Services Earned Value Chart (Excluding Allowances and Contingencies)





Earned Value Calculations	
Budget at completion <sup>(BAC)</sup> (BAC)	\$ 3,325,716
Estimate to Complete (ETC1) (ETC1=EAC1-AC)	\$ 625,941
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ 25,344
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ (243,051)
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.01
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	0.92
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	0.93
Estimate at Completion (EAC1) (EAC1=BAC/CPI)	\$ 3,294,427.07
Variance at Completion (VAC1=BAC-EAC1)	\$ 31,288.93

#### Task 2 Programmatic Support Services Plan/Progress

- Consulted with the Milwaukee Water Works regarding site acquisition for a pumping station.
- Prepared initial draft of Construction Communications Workshop Recommendation Report.
- Reviewed a draft letter to the Wisconsin
  Department of Transportation requesting a
  hardship exemption for use of the I-43 corridor.

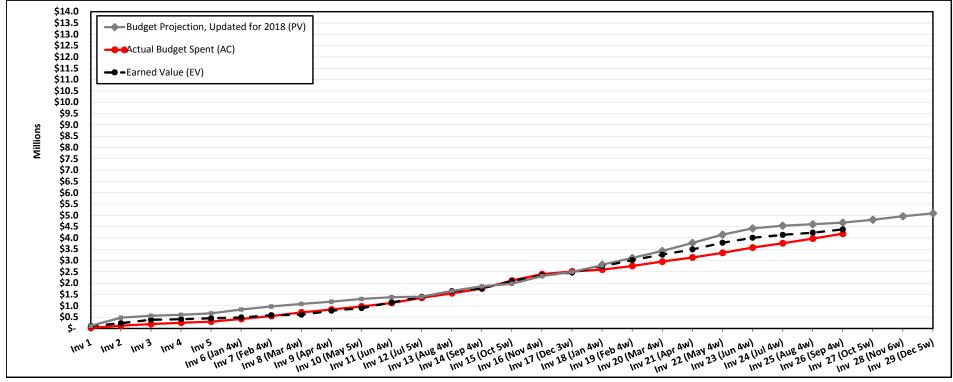
#### Task 2 Programmatic Support Services Challenges

 WWU legal counsel will be discussing the Draft 2018 Program Information Plan with Wisconsin PSC. The results of the discussion may impact the Program strategic communication plan.



### Task 3 - Permitting Earned Value Chart (Excluding Allowances and Contingencies)





Note: The Task 3 amount for Invoice 5 was reported incorrectly in the previous version of this Report. The correct cumulative amount is \$263.96 lower. The Task 3 Budget at completion amount was revised to reflect Task Authorizations and contract amendments

Earned Value Calculations	
Budget at completion <sup>(BAC)(1)</sup> (BAC)	\$ 5,083,873
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$ 672,476
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ 189,017
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ (296,171)
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.05
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	0.94
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	0.98
Estimate at Completion (EAC1=BAC/CPI)	\$ 4,864,534.71
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ 219,338.29

#### Task 3 Permitting Plan/Progress

- Held three (3) Program Task 3 meetings.
- The Facility Plan Amendment Plan was submitted to WDNR.
- Continued drafting the PSC CA application and the WDNR/USACE wetlands and waterways applications and supporting documents.
- Verified required permits were obtained for Supply Pipeline field investigations.

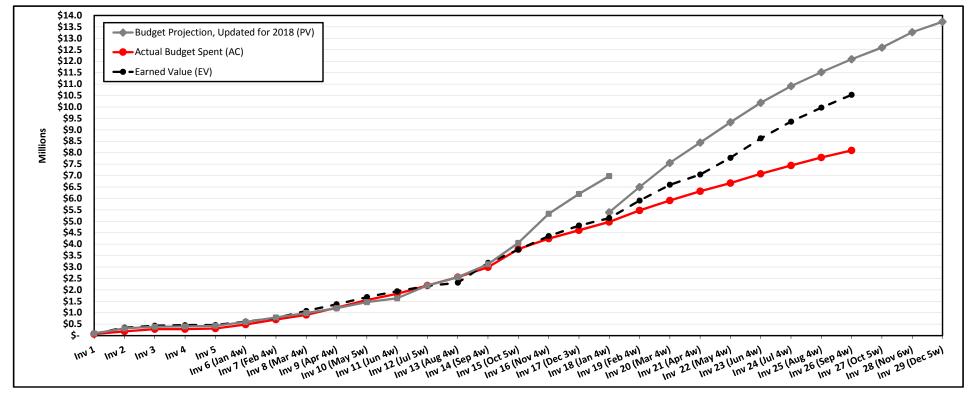
#### Task 3 Permitting Challenges

 WisDOT/FHWA has requested additional documentation to satisfy NEPA compliance in relation to the I-43 corridor.



### Task 4 - Route Study and Pipeline Earned Value Chart (Excluding Allowances and Contingencies)





Note: The Task 4 Budget at completion amount was revised to reflect Task Authorizations and contract amendments

Earned Value Calculations	
Budget at completion <sup>(BAC)</sup> (BAC)	\$ 13,744,049
Estimate to Complete (ETC1) (ETC1=EAC1-AC)	\$ 2,466,512
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ 2,437,534
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ (1,550,053)
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.30
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	0.87
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	1.13
Estimate at Completion (EAC1) (EAC1=BAC/CPI)	\$ 10,564,040.26
Variance at Completion (VAC1=BAC-EAC1)	\$ 3,180,009.03

#### Task 4 Route Study and Pipeline Plan/Progress

- Design is progressing more efficiently than anticipated to reserve budget for 2019.
- The Draft WisDOT Interstate 43 Hardship Application (4-110 D1) was resubmitted to WisDOT and FHWA for review and comment.
- CP5 60% Contract Documents were submitted for QM review.
- CP2 60% Contract Documents were further developed.

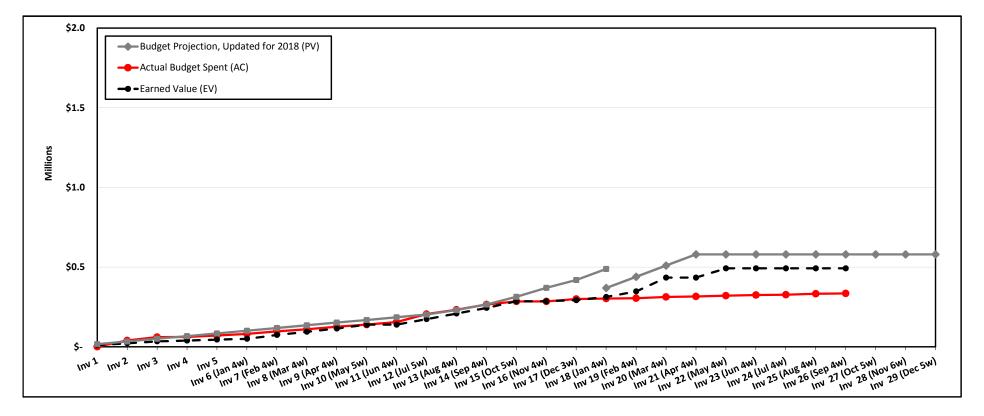
#### Task 4 Route Study and Pipeline Challenges

 Continued delays to approval to locate the Return Flow Pipeline in Interstate 43 will delay Program Schedule and require additional budget to complete design after approval is granted or denied. The Program is continuing to work to resolve this challenge.



### Task 5 - Distribution System Earned Value Chart (Excluding Allowances and Contingencies)





Earned Value Calculations	
Budget at completion <sup>(BAC)(1)</sup> (BAC)	\$ 579,901
Estimate to Complete (ETC1=EAC1-AC)	\$ 59,174
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ 157,597
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$ (87,130)
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.47
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	0.85
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	1.25
Estimate at Completion <sup>(EAC1)</sup> (EAC1=BAC/CPI)	\$ 394,492.99
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ 185,408.08

#### Task 5 Distribution System Plan/Progress

Final Distribution System Technical Memorandums were submitted.

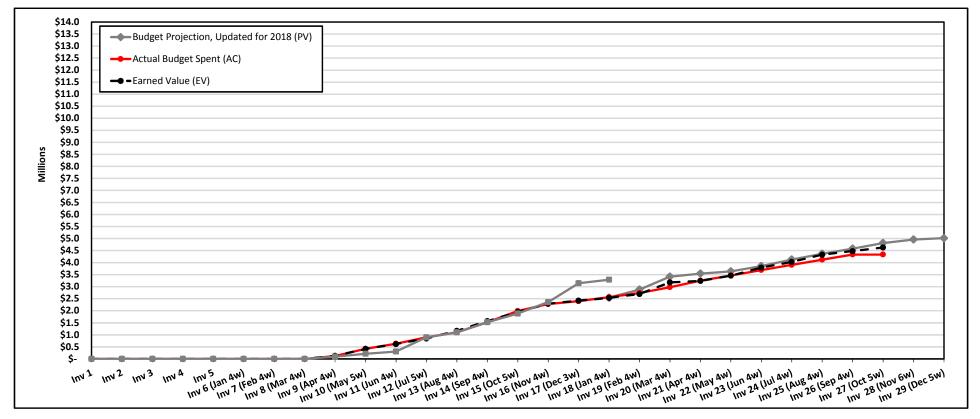
#### Task 5 Distribution System Challenges

 Scope and budget associated with Tasks 5-200 and 5-300 water quality has been removed.



### Task 6 - Pump Stations, Storage, and Chemical Treatment Earned Value Chart (Excluding Allowances and Contingencies)





Earned Value Calculations	_	
Budget at completion <sup>(BAC)(1)</sup> (BAC)	\$	5,018,415
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$	520,829
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$	143,974
Schedule Variance <sup>(SV)</sup> (SV=EV-PV)	\$	(101,505)
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)		1.03
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)		0.98
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)		1.01
Estimate at Completion (EAC1) (EAC1=BAC/CPI)	\$	4,857,148.90
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$	161,266.20

#### Task 6 Pump Stations, Storage and Chemical Treatment Plan/Progress

- Continued preparation of the Contract Drawings and Specifications (6-310 D1) for Contract Package 3, BPS and WSCB.
- Continue to coordinate with the Waukesha County Department of Parks and Land Use (DPLU) on land transfer of BPS site.
- Coordinating revisions to the Draft Geotechnical Report BPS (6-120 D2).

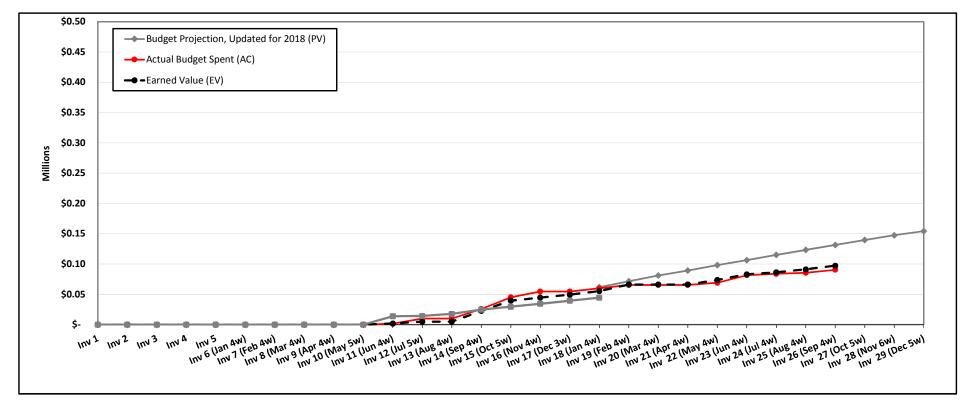
#### Task 6 Pump Stations, Storage and Chemical Treatment Challenges

 Zoning and planning process with New Berlin could impact building materials and site improvements.



### Task 7 - Construction and Construction Management Earned Value Chart (Excluding Allowances and Contingencies)





Earned Value Calculations	
Budget at completion <sup>(BAC)(1)</sup> (BAC)	\$ 154,378
Estimate to Complete <sup>(ETC1)</sup> (ETC1=EAC1-AC)	\$ 53,019
Cost Variance <sup>(CV)</sup> (CV=EV-AC)	\$ 6,844
Schedule Variance (SV) (SV=EV-PV)	\$ (34,204)
Cost Performance Index <sup>(CPI)</sup> (CPI=EV/AC)	1.08
Schedule Performance Index <sup>(SPI)</sup> (SPI=EV/PV)	0.74
Cost /Schedule Index <sup>(CSI)</sup> (CSI=CPI x SPI)	0.80
Estimate at Completion (EAC1=BAC/CPI)	\$ 143,525.48
Variance at Completion <sup>(VAC1)</sup> (VAC1=BAC-EAC1)	\$ 10,852.52

# Task 7 Construction and Construction Management Plan/Progress

Preliminary Contracting Strategy Workshops were held.

# Task 7 Construction and Construction Management Challenges

 Impending Federal funding and financing opportunities may impact the contracting strategy for the Program.