Medina City Schools



Energy Savings Program

PERFORMANCE YEAR 7
October 2015 – September 2016
YEAR END SAVINGS REPORT
February 21st, 2017

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Section 1: Overview

The Brewer-Garrett Company ("Brewer-Garrett") is pleased to present results of this year's energy savings benefits of the Energy Savings Program at Medina City Schools ("Medina"). Construction completed in the fall of 2009, so we are currently tracking savings for Performance Year 7 (October 2015 through September 2016). This report also highlights the success of the combined heat and power ("CHP") unit installed at the High School in May 2014. Brewer-Garrett used additional data directly from the CHP unit to calculate savings during Performance Year 7.

Performance Year 7 results: Year 7, ending in September 2016, was another successful year. Medina saved an additional \$440,660 from both the original energy savings program and the CHP unit for a total cumulative savings of \$3,424,079. See Section 3 for an updated summary of savings over the entire history of the project.

CHP Performance Results: As part of total, the CHP unit itself yielded \$36,163 in energy savings during the performance year. The CHP unit has performed well since its official start in May 2014, producing both electrical and thermal energy as expected. During Performance Year 7, the CHP unit delivered 706,448 kWh net electricity, while consuming 7,180 mcf of natural gas. At the same time,

the CHP unit contributed waste heat to the High School's space conditioning and pool heating system, offsetting 5,434 mcf of natural gas normally used in the boiler. Subtracting the cost of the annual service contract for engine oil changes and maintenance (\$17,761), the CHP unit has delivered net savings of \$36,136. According to Medina maintenance managers, the High School has been able to turn off its boilers in the spring and summer, relying primarily on the CHP unit for heat and hot water.



Brewer-Garrett, together with W.W.Williams (the maintenance service provider for the CHP engine), continues to optimize the performance of the CHP system. Medina maintenance staff members have been great partners in this process, making adjustments to the building control system to maximize the benefits of CHP. Brewer-Garrett installed additional temperature sensors to help optimize run times with the goal of maximizing the effectiveness of the heat recovery system while managing maintenance costs. More details are provided in Section 11: CHP Net Savings.

Section 2: Savings Guarantee Summary

The Performance Guarantee is governed by the Energy Performance Agreements executed by Medina City Schools and The Brewer-Garrett Company on August 31, 2007 and September 30, 2013 (collectively as the "Contract"). The Performance Guarantee, summarized in Table 2a, is based on the Contract dated 8/31/2007 Schedule C "Energy and Operational Savings Guarantee." The Total Guaranteed Savings over the term of this agreement (15 years) is \$4,736,535.

Table 2a: Performance Guarantee Summary

Total Guaranteed Savings (\$) per Contract 8/31/2007 \$4,736	,535
Total Guaranteed Savings (\$) per Contract 9/30/2013 \$419,	467 <u>See</u>

See Table 3a.

Guaranteed Savings (\$)					
Per	formance	Water/Sewer/	Stipulated	Total	Cumulative
	Year	Energy Savings	Operational Savings	Guaranteed	Guaranteed
		(\$)	(\$)	Savings (\$)	Savings (\$)
1	2010	\$315,769	\$0	\$315,769	\$315,769
2	2011	\$315,769	\$0	\$315,769	\$631,538
3	2012	\$315,769	\$0	\$315,769	\$947,307
4	2013	\$315,769	\$0	\$315,769	\$1,263,076
5	2014	\$315,769	\$0	\$315,769	\$1,578,845
6	2015	\$315,769	\$0	\$315,769	\$1,894,614
7	2016	\$315,769	\$0	\$315,769	\$2,210,383
8	2017	\$315,769	\$0	\$315,769	\$2,526,152
9	2018	\$315,769	\$0	\$315,769	\$2,841,921
10	2019	\$315,769	\$0	\$315,769	\$3,157,690
11	2020	\$315,769	\$0	\$315,769	\$3,473,459
12	2021	\$315,769	\$0	\$315,769	\$3,789,228
13	2022	\$315,769	\$0	\$315,769	\$4,104,997
14	2023	\$315,769	\$0	\$315,769	\$4,420,766
15	2024	\$315,769	\$0	\$315,769	\$4,736,535
	Total	\$4,736,535	\$0	\$4,736,535	

Note: The Combined Heat and Power (CHP) project (contract executed 9/30/2013) guaranteed \$537,112 to cover the cost of the project (adjusted to \$419,467 since the project was not financed.) This guarantee amount is not included in the table above, since the CHP project was funded via excess savings from years 1 through 3 of the program. See Table 3a.

A second Energy Performance and Service Agreement dated 9/30/2013 provided for the installation of a Combined Heat and Power ("CHP") Project that was estimated to generate \$62,833 in additional energy savings and increase operational costs by \$17,760 annually for a net savings of \$45,073. This second agreement guaranteed that Medina would recover the cost of the CHP project including construction and financing costs estimated at \$537,122. Since Medina was able to fund the project without financing, thereby eliminating interest costs, the guaranteed amount was adjusted to \$419,467, equivalent to the installed cost for the CHP system.

For auditing and verification purposes the parties agreed that the original Total Guaranteed Savings amount of \$4,736,535 for the original contact should not be increased to reflect the additional CHP project guarantees; instead the Cumulative Actual Savings achieved during Performance Years 1 through 3 was reduced by \$419,467 as shown in Table 3a.

Section 3: Performance History

At of the end of Performance Year 7, Medina City Schools had accumulated more than \$3 million in savings since the beginning of the energy savings program, with more than \$1 million above the guaranteed savings.

Table 3a: Performance History for the Medina City Schools Energy Savings Program

Perfo	rmance Year	Guaranteed Savings (\$)	Actual Savings (\$)	Cumulative Guaranteed Savings (\$)	Cumulative Actual Savings (\$)	
	Interim Period		\$470,472		\$470,472	
1	10/09 - 9/10	\$315,769	\$438,675	\$315,769	\$909,147	
2	10/10 - 9/11	\$315,769	\$478,648	\$631,538	\$1,387,795	
3	10/11 - 9/12	\$315,769	\$444 <u>,287</u>	\$947,307	\$1,832,082	
Note: CHP Project contract was signed 9/30/2013 and guaranteed total savings of \$419,467; this Project was funded via the excess savings from years 1 through 3 of the guarantee. The annual Guaranteed Savings amount has not been increased to reflect the additional CHP Project guarantee; instead the Cumulative Actual Savings for Performance Year 3 has been reduced by \$419,467.						
3 rev	10/11 - 9/12	\$315,769	\$444,287	\$947,307	\$1,412,615	
4	10/12 - 9/13	\$315,769	\$501,965	\$1,263,076	\$1,914,580	
5	10/13 - 9/14	\$315,769	\$566,866	\$1,578,845	\$2,481,447	
6	10/14 - 9/15	\$315,769	\$501,972	\$1,894,614	\$2,983,418	
7	10/15 - 9/16	\$315,769	\$440,660	\$2,210,383	\$3,424,079	
8	10/16 - 9/17	\$315,769				
9	10/17 - 9/18	\$315,769				
10	10/18 - 9/19	\$315,769				
11	10/19 - 9/20	\$315,769				
12	10/20 - 9/21	\$315,769				
13	10/21 - 9/22	\$315,769				
14	10/22 - 9/23	\$315,769				
15	10/23 - 9/24	\$315,769				

Energy Audit for Medina City Schools, Year 7

Total

The undersigned agrees that The Brewer-Garrett Company delivered this audit report to Medina City Schools. If no written reply is made to The Brewer-Garrett Company concerning the validity of this audit in 30 days, it will be considered received by Medina City Schools.

Received by:		
Date:		
Medina City So	hools	
Delivered by:		
Date:		
The Brewer-Ga	arrett Company	

\$4.736.535

Section 4: Summary of Savings

Table 4a

Medina City Schools ~ Performance Year 7

Summary of Savings

Electric			
KWH Used In Base Year		11,180,440	KWH
Baseline for	Performance Year 7	11,733,311	KWH
Actual Usage for	Performance Year 7	9,022,949	KWH
Total KWH Saved	r difermance real r	2,710,362	KWH
Total Dollars Saved		\$357,212	
Total Bonaro Gavea		ΨΟΟΤ,ΣΤΣ	
Natural Gas			
MCF Used In Base Year		42,373	MCF
Baseline for	Performance Year 7	40,611	MCF
Actual Usage for	Performance Year 7	34,241	MCF
Total MCF Saved		6,370	MCF
Total Dollars Saved		\$76,432	
Water and Sewer			
Water Used In Base Year		3,676	CCF
Water Baseline for	Performance Year 7	3,676	CCF
Water Actual Usage for	Performance Year 7	2,254	CCF
Total Water CCF Saved		1,422	CCF
Total Water Dollars Saved		\$5,315	
Total Sewer Dollars Saved		\$18,093	
Lighting M&V Savings at Bus Garage	Performance Year 7	\$1,370	
Stipulated Operational Savings (Cos			
CHP Maintenance Costs	Performance Year 7	(\$17,761)	
Total Actual Savings	Performance Year 7	\$440,660	
Total Guaranteed Savings	Performance Year 7	\$315,789	

Section 5: Electric Savings

Several projects implemented as part of the Medina City Schools Energy Savings Program were projected to achieve electric savings. These projects include a) district wide lighting retrofits and occupancy sensor installations, b) lighting controls at the High School, c) district wide vending machine control, d) variable frequency drives at Ella Canavan, Root and the High School, e) demand ventilation at Blake, Heritage, High School and Root, f) building automation system upgrades at the High School, and g) electric fan coil unit replacement with a natural gas unit at Heritage. The savings at Blake, as a result of our rate investigation with First Energy/Ohio Edison have continued.

The annual projected and actual electric savings for each school are charted side by side on the next page in Figure 5a. We are very pleased to report that the actual electric savings have exceeded the projected savings. In order to provide some perspective on the contribution of each school to savings, the graphs have been scaled simillarly. It is clear that the High School provides the largest contribution to electrical savings.

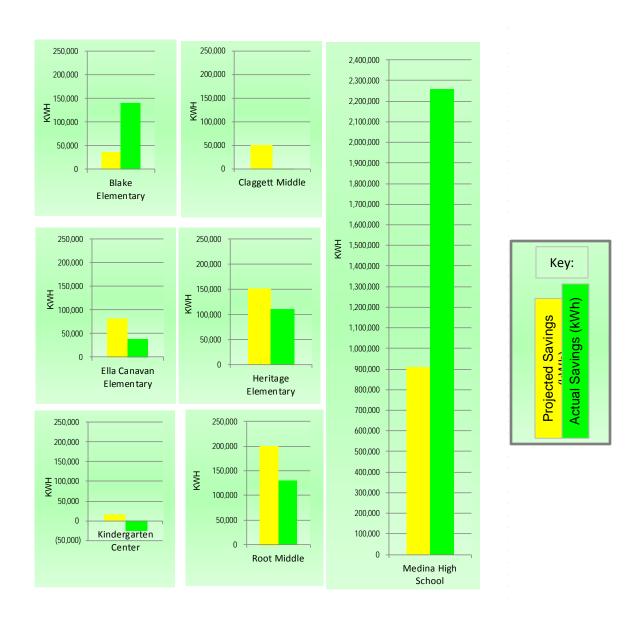


Figure 5a

Heating/ventilating units at Fenn and Garfield were replaced and air conditioning was added as part of the Energy Savings Program. The energy use associated with the air conditioning equipment is an adjustment to the baseline as addressed in Schedule F of the Contract: Savings Calculation Formulae: Methodology to Adjust Baseline. The annual projected vs. actual electric savings for these buildings are shown below in Figure 5b.

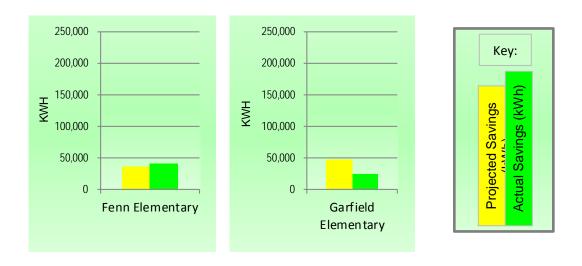


Figure 5b

Electric savings are determined by multiplying the energy and demand saving units by the applicable utility rate to convert units saved to dollars saved. Units of electricity saved are equal to the Baseline kWh minus Actual kWh, where the Baseline is the Base Year adjusted for time, weather and events. The electric savings are calculated monthly and then summed to yield an annual amount.

The applicable utility rate is based on the larger of the electric rate paid during the Performance Year or the Base Year as specified in Section 8.1 of the Contract.

The electricity savings at the Bus Garage as a result of the lighting retrofit are calculated based on the Measurement and Verification (M&V) methodology explained in Schedule F of the Contract. This methodology is used because the lighting retrofit is the only Energy Conservation Measure implemented at the Bus Garage; therefore, electric savings due to lighting can be isolated. An analysis of the utility bill is unnecessary. Voltage and amperage readings were taken in several locations throughout the Bus Garage and the other Medina schools, before and after the lighting retrofits took place. The before and after readings were taken with the same meters, in the same locations, and were used to calculate an average of watts of energy used by each lamp technology. The average readings for both the before and after measurements were inserted into a standard lighting spreadsheet to generate units saved. These units saved were multiplied by the utility rate to convert units saved to dollars saved. The electric savings at the Bus Garage resulting from the lighting retrofit are \$1,370 for each year including Performance Year 7.

Electric use in all of the Medina City Schools that were affected by Brewer-Garrett is summarized in Figure 5c. During Performance Year 7, the annual electric usage in the schools affected by the Energy Savings Program decreased by over 2.7 million kWh (23%) from the Baseline. This is a savings of over \$350,000 to Medina, and a reduction of 1,905 metric tons of CO₂ emissions.

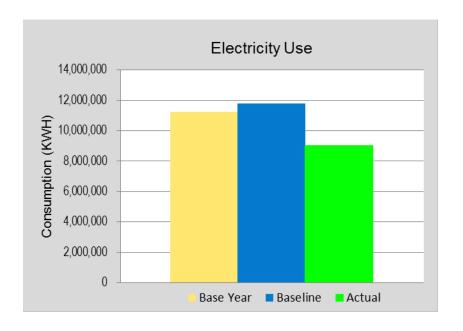


Figure 5c

Section 6: Natural Gas Savings

Several projects implemented as part of the Medina City Schools Energy Savings Program were projected to result in natural gas savings. These projects include a) demand ventilation at Blake, Heritage, High School and Root, b) building automation system upgrades at the High School, c) heat recovery and pool system modifications at the High School, and d) replacement of heating/ventilating units at Fenn and Garfield. The replacement of an electric fan coil unit with a gas-fired unit at Heritage was expected to save electricity, but use more natural gas.

Similarly, the cogeneration unit consumes approximately one third of the natural gas at the High School, but recovered heat from exhaust gases partially offset that usage by reducing load on the boilers.

The annual projected and actual natural gas savings for each school are charted side by side on the next page in Figure 6a. As expected, natural gas use at Heritage increased due to the installation of the gas-fired heating unit.

In order to provide some perspective on the contribution of each school to the total savings, the graphs have been scaled similarly.

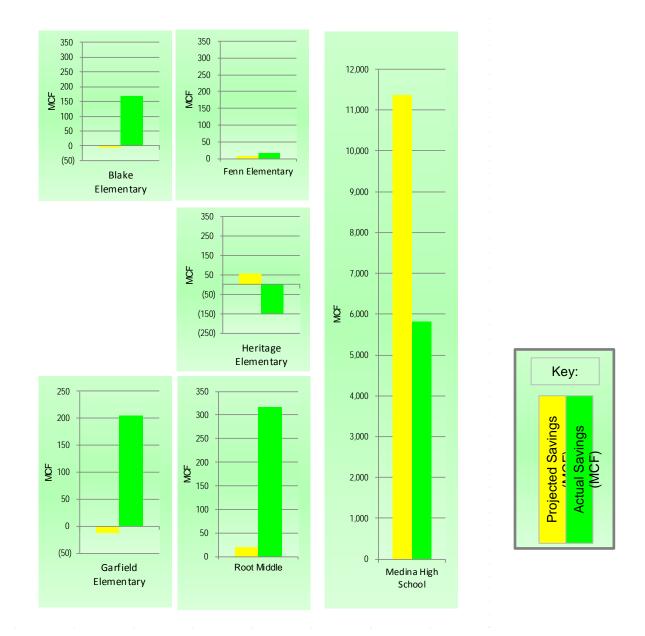


Figure 6a

Natural gas dollar savings are calculated each month by multiplying the monthly natural gas rate in \$/MCF by the units of natural gas saved. The monthly natural gas rate in \$/MCF is calculated based on Total Natural Gas \$ / Total Natural Gas MCF and is calculated separately for each building. The units of natural gas saved are equal to the Baseline MCF minus Actual MCF, where Baseline is the Base Year adjusted for time, weather and events. The natural gas savings are calculated each month, and then summed to yield an annual savings.

The energy savings are calculated based on the larger of the natural gas rate paid during the Performance Year or the Base Year as specified in Section 8.1 of the Contract.

Natural gas use in all of the Medina City Schools that were affected by Brewer-Garrett is summarized in Figure 6b. During Performance Year 7, the natural gas usage in the schools affected by the Energy Savings Program has been reduced by over 6,000 MCF, or 16% from the Baseline. This is a savings of over \$76,000 to Medina, and a reduction of 350 metric tons of CO₂ emissions.

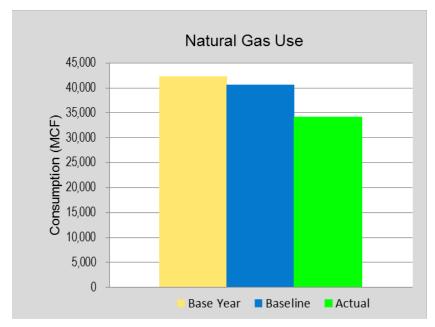


Figure 6b

Section 7: Water and Sewer Savings

Water conservation projects were implemented at Claggett and Garfield as part of the Medina City Schools Energy Savings Program, and included the replacement of water cooled condensers with air cooled units, and the automation of flush systems for urinals in the boys' bathrooms. In addition, Brewer-Garrett was instrumental in effecting a sewer rate change for Claggett. As a result, water and sewer savings were expected at both Claggett and Garfield.

Sewer savings were expected at the High School, where a sub-meter was installed for the cooling tower. This sub-meter enables the measurement of water evaporation to the atmosphere during the cooling process.

During a review of sewer billing data, it was determined that the Medina County Sanitary Engineering Department has reduced the quantity of sewer UNITS that each school is billed, no doubt in response to a reduction in water use. An analysis was performed to validate the sewer billing practices; this summary is shown in Table 7a. It appears that the High School is under-billed while Claggett and Garfield are over-billed. This data is provided to Medina for informational purposes; we have not approached the Medina County Sanitary Engineering Department.

Sewer UNITS Billing Analysis		Claggett	Garfield	High School
Annual Actual Water Use	CCF	1,108	1,146	18,087
Annual Actual Water Use	Gallons	828,784	857,208	13,529,076
Annual Actual UNITS Used	UNITS	118	122	1,933
Annual UNITS Billed	UNITS	180	224	1,187
Monthly Actual UNITS Used	UNITS	9.9	10.2	161.1
Monthly UNITS Billed	UNITS	14.99	18.64	98.94
Overbilled or (Underbilled)	UNITS	62	101	(745)
Overbilled or (Underbilled)	\$	\$1,799	\$2,962	(\$21,804)
Total Overbilled (Underbilled)	UNITS		(583)	
Total Overbilled (Underbilled)	\$		(\$17,043)	

Note:

1 "Unit" = 230 gallons/day

1 "Unit" = 7,000 gallons/month

Table 7a

Water dollar savings are calculated each month by multiplying the monthly water rate in \$/CCF by the units of water saved. The monthly water rate in \$/CCF is calculated based on: Total Water \$ / Total Water CCF, and is calculated separately for each building. The units of water saved are equal to the Baseline CCF minus Actual CCF, where Baseline is the Base Year use with no adjustments. The water savings are calculated each month, and then summed to yield an annual savings.

Sewer dollar savings are calculated bi-monthly, to correspond with actual sewer bills. Sewer savings in this performance report are from: a) Claggett, as the result of the reduction in sewer "units" that Brewer-Garrett was instrumental in securing, and b) Garfield, as the result of the reduction in water use, and the corresponding reduction in sewer "units" that the Medina County Sanitary Engineering Department implemented. No sewer savings for the High School were included in this report. The sewer savings in terms of "units" are multiplied by the sewer rate in \$/"unit" on a bi-monthly basis, and then summed to yield an annual savings.

The water and sewer savings are calculated based on the larger of the water and sewer rates paid during the Performance Year or the Base Year as specified in Section 8.1 of the Contract.

The combined water use for Claggett and Garfield is summarized in Figure 7b. The Base Year, Baseline and Actual total usage during Performance Year 7 are shown side-by-side for comparison. The overall water usage in these schools has been reduced by approximately 39% from the Baseline; this is a savings to Medina of over \$23,000 in water and sewer charges.

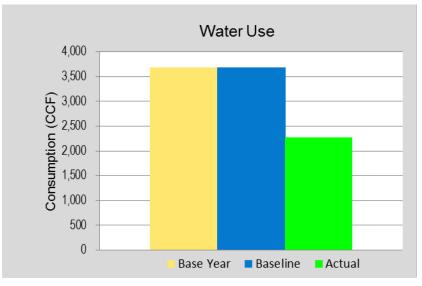


Figure 7b

Section 8: Operational Savings

No operational savings were claimed on this project.

Section 9: Adjustments

Adjustments are incorporated in the baseline projection for energy use to include changes in the number of days in a billing period as well as weather fluctuations.

The heating/ventilating units at Fenn and Garfield were replaced and air conditioning was added as part of the Energy Savings Program. The energy use associated with the air conditioning equipment is an adjustment to the baseline as addressed in Schedule F of the Contract: Savings Calculation Formulae: Methodology to Adjust Baseline.

The additional demand and energy use for these units is calculated based on the information in Table 9a and is included in the Electric Baseline.

School Name	Quantity	Unit Description
Fenn Elementary	1	Library/Computer Lab Unit
		10 ton, EER=11, 2300 hrs
	1	Gym Unit
		10 ton, EER=11, 2700 hrs
Garfield Elementary	1	Gym Unit
		12 ton, EER=9.7, 2925 hrs

Table 9a

Section 10: Energy Savings - Performance Year 7

For Performance Year 7 (October 2015 through September 2016), Brewer-Garrett guarantees \$315,769 in annual savings as shown in Table 2a.

Based on utility bills for electric, natural gas, water and sewer, Medina actually saved \$458,421 as shown in Figure 5a. However, Medina has incurred additional maintenance costs for oil changes and other CHP engine service items provided by W.W.Williams. These costs were included in the project's savings projections as a stipulated annual amount of \$17,761. Including these costs reduces the net savings to \$440,660 in Performance Year 7.

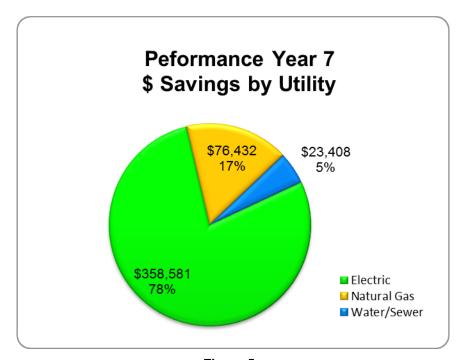


Figure 5a

Section 11: CHP Net Savings

Brewer-Garrett wants to highlight the performance of the combined heat and power (CHP) unit installed at the High School. The unit feeds electricity and thermal energy to both the High School and adjoining recreation center. The CHP unit itself records electricity production and other important parameters, so Brewer-Garrett was able to assemble data, spanning the Performance Year.

During the past year, the unit operated for 5,695 hours. Across all operating hours, the unit generated 713,584 kWh gross electricity. Deducting for parasitic users on the machine (1%) such as the lube oil pump, water pumps and cooling fan, the unit generated 706,448 kWh.

To produce this power, the unit consumed 7,180 mcf. At the same time, the CHP unit contributed waste heat to the High School's heating system, offsetting 5,434 mcf of natural gas normally used in the boiler. Subtracting the cost of the annual service contract for engine oil changes and maintenance (\$17,761), the CHP unit has delivered net savings of \$36,163 during this period.





Figure 6a. CHP Unit (front and back views with heat recovery piping)

W.W.Williams performed regular maintenance on the CHP system every 1,250 operating hours. The unit did experience some downtime during the year in addition to regularly scheduled maintenance visits. On several occasions, the unit tripped offline because of power voltage sags from the electric utility. In order to protect its generator components, the unit automatically shuts down during such events. Onsite Medina staff can easily restart the unit with the touch of a button. The Brewer-Garrett team has worked with the engine manufacturer to adjust these trip settings to reduce the frequency of these nuisance trips.

In order to calculate net savings, Brewer-Garrett collected data directly from the CHP unit showing operating temperatures, output and performance. This information was compared to specifications to ensure that performance remained consistent.

The CHP unit experienced significant downtime in the last quarter of Performance Year 2016. During the summer, the heat exchanger was not functioning properly and the unit was non-operational. This issue was resolved after coordination between Medina City Schools, W.W. Williams, and Brewer-Garrett. The months of low runtime result in the total net benefit savings of the CHP unit to be much lower than last year or a year with optimum operation. Had this downtime not occurred, and the unit ran a more typical range of 8,000 hours (650-700 per month) instead of this year's 5,695, the net benefit would have been greater.

There are 8,760 hours in a year. Brewer-Garrett, at the time of engineering, assumed a 91% run time or 8,000 hours a year. This equates to roughly 667 hours a month. From October 2015 to April 2016 the CHP run times where roughly 4,823 hours with an average monthly run time of 689 hours. However, from May 2016 to September 2016 the unit run times where roughly 872 hours with an average monthly run time of 174 hours. If the unit had run at 8000 operating hours, or roughly 667 hours a month, the unit would generate 1,002,400 kWh gross electricity. Deducting for parasitic users on the machine (1%) such as the lube oil pump, water pumps and cooling fan, the unit would generate 992,376 kWh. To produce this power, the unit would consume 10,086 mcf while offsetting 7,634 mcf of natural gas normally used in the boiler. Subtracting the cost of the annual service contract for engine oil changes and maintenance (\$17,761), the CHP unit would deliver net savings of \$57,988 during that period.

The issue that caused the unit to be non-operational has been resolved and the unit is back up and running. Looking forward, the first four months of the next Performance Year, October, November, December, and January have had run hours of 727, 702, 741, and 743 with an average month run time of 728 hours. This is a total of more than 2900 hours through only 4 months. The CHP unit is on track to have a productive and beneficial Performance Year 8.

We offer this explanation as a demonstration of Brewer-Garrett's commitment to not only continue to enhance the value of the CHP asset for Medina but also to quickly address any issues.

February 21, 2017

Section 12: Conclusion

This report concludes that both the CHP unit and the larger Energy Savings Program at Medina City Schools have so far exceeded guarantee savings targets. The CHP unit has integrated seamlessly into the High School heating system and consistently delivers both electrical and thermal energy to the system.

Brewer-Garrett is pleased to be Medina's energy partner. We believe in bringing value to the partnership in areas outside of merely reporting energy savings.

Natural gas prices remain steady and have even declined over the period, while electricity continues to be more expensive. Therefore, Brewer-Garrett expects the CHP unit to deliver increasing value to Medina in the years to come.

Medina City Schools ~ Performance Year 7 (High School only)

Cogeneration Summary - Medina High School

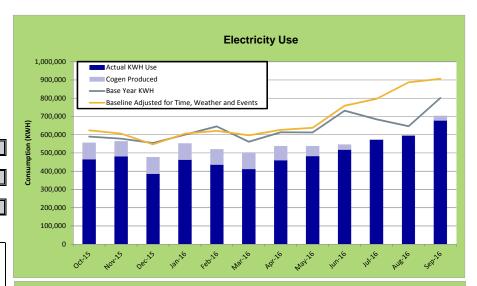
Energy Saved				
Actual Usage	5,954,400	kWh	27,386	mcf
Baseline Usage	8,212,467	kWh	33,200	mcf
Adjustments for Time, Weather and Events	593,667	kWh	(1,402)	mcf
Energy Used In Base Year	Electricity 7,618,800	kWh	Nat Gas 34,602	mcf

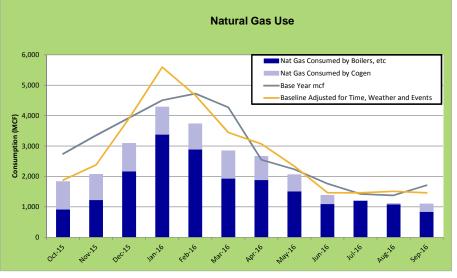
Dollars Saved	\$239,410	\$69,856 \$/yr

Total Dollars Saved	\$309,266 \$/yr

Cogeneration Report

Cogeneration Report		
Cogen Electricity Generated	713,584	kWh
Adjustments*	0	kWh
Cogen Electricity Generated (adjusted)	706,448	kWh
Cogen Electricity Savings	\$74,901	\$/yr
Cogen Natural Gas Consumed	7,180	mcf
Cogen Recovered Heat	4,157	MMBtu
Boiler Natural Gas Offset by Recovered Heat	5,434	mcf
Net Natural Gas Savings	(1,746)	mcf
Net Natural Gas Savings	(\$20,977)	\$/yr
Cogen Engine Maintenance	(\$17,761)	\$/yr
Cogen Net Benefit*	\$36,163	\$/yr
*Cogen net benefit is a subset of total dollars saved at the High School, not an additional amou	nt.	



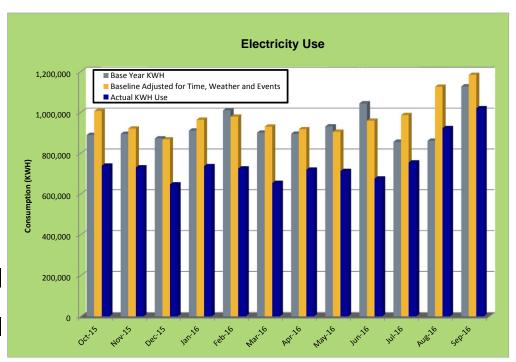


2/21/2017

Electricity Summary

Electricity Used In Base Year	11,180,440	KWH
Adjustments for Time, Weather and Events	552,871	KWH
Baseline Usage	11,733,311	KWH
Actual Usage	9,022,949	KWH

Total KWH Saved	2,710,362
 Friel Dellers Or all	* 057.040
Total Dollars Saved	\$357,212



Electricity Savings

Electricity Base Year Units KWH

		October	November	December	January	February	March	April	May	June	July	August	September	Total
KWH														
	Blake Elementary	53,120	55,640	55,920	47,080	60,880	58,760	48,520	56,240	53,440	34,360	41,800	55,360	621,120
	Claggett Middle	38,080	41,280	40,160	45,920	49,760	45,440	34,560	41,920	33,120	21,440	21,600	44,960	458,240
	Ella Canavan Elementary	27,520	24,880	24,720	23,360	25,760	25,760	24,080	29,840	29,360	18,240	14,800	26,800	295,120
	Fenn Elementary	19,920	23,280	16,720	18,960	22,800	21,600	18,720	20,560	16,560	12,480	14,880	22,160	228,640
	Garfield Elementary	27,360	24,960	26,040	20,160	27,840	26,400	24,120	26,520	29,160	15,000	24,480	30,720	302,760
	Heritage Elementary	34,240	42,000	46,880	64,160	58,160	53,520	41,040	37,920	34,400	21,200	28,240	36,400	498,160
	Medina High School	589,200	578,400	554,400	600,000	645,600	561,600	613,200	612,000	732,000	684,000	646,800	801,600	7,618,800
	Kindergarten Center	8,160	9,240	8,880	8,880	11,040	8,160	9,800	8,520	7,280	6,240	6,080	9,400	101,680
	Root Middle	90,640	93,920	97,520	81,280	107,200	98,560	80,080	96,640	107,680	42,000	61,440	98,960	1,055,920
Total K	(WH	888,240	893,600	871,240	909,800	1,009,040	899,800	894,120	930,160	1,043,000	854,960	860,120	1,126,360	11,180,440

Electricity Base Year Cost \$

	October	November	December	January	February	March	April	May	June	July	August	September	Total
Cost \$													
Blake Elementary	\$9,600	\$9,704	\$9,715	\$9,285	\$9,841	\$9,753	\$9,332	\$9,650	\$9,534	\$8,825	\$9,132	\$9,692	\$114,063
Claggett Middle	\$5,402	\$5,205	\$4,655	\$5,425	\$5,539	\$5,426	\$5,307	\$5,461	\$5,091	\$3,208	\$3,304	\$5,622	\$59,645
Ella Canavan Elementary	\$3,920	\$3,401	\$2,853	\$2,778	\$3,538	\$3,887	\$2,848	\$4,238	\$4,603	\$2,870	\$2,332	\$3,800	\$41,069
Fenn Elementary	\$2,254	\$2,380	\$1,896	\$2,246	\$2,345	\$2,313	\$1,403	\$2,267	\$2,235	\$1,256	\$1,593	\$2,459	\$24,647
Garfield Elementary	\$3,338	\$2,973	\$2,938	\$2,844	\$3,138	\$3,022	\$3,000	\$3,343	\$4,481	\$2,316	\$3,770	\$4,411	\$39,574
Heritage Elementary	\$4,169	\$4,947	\$5,756	\$6,266	\$6,093	\$6,324	\$5,201	\$4,286	\$5,078	\$3,021	\$4,223	\$4,411	\$59,776
Medina High School	\$58,128	\$57,109	\$54,509	\$39,837	\$46,096	\$52,823	\$56,607	\$56,576	\$63,172	\$61,799	\$60,844	\$63,586	\$671,086
Kindergarten Center	\$1,290	\$1,346	\$1,330	\$940	\$997	\$919	\$991	\$1,063	\$1,151	\$988	\$963	\$1,352	\$13,331
Root Middle	\$14,124	\$14,183	\$14,218	\$10,979	\$10,965	\$11,571	\$11,340	\$10,461	\$14,028	\$12,127	\$6,581	\$9,620	\$140,197
Total Cost \$	\$102,225	\$101,247	\$97,872	\$80,600	\$88,552	\$96,037	\$96,028	\$97,345	\$109,374	\$96,412	\$92,742	\$104,952	\$1,163,388

Electricity Base Year Unit Cost \$/KWH

	October	November	December	January	February	March	April	May	June	July	August	September	Average Base Year
it Cost \$/KWH													Demand & Energy Rate
Blake Elementary	\$0.181	\$0.174	\$0.174	\$0.197	\$0.162	\$0.166	\$0.192	\$0.172	\$0.178	\$0.257	\$0.218	\$0.175	\$17.00/KW \$0.0400/KWH
Claggett Middle	\$0.142	\$0.126	\$0.116	\$0.118	\$0.111	\$0.119	\$0.154	\$0.130	\$0.154	\$0.150	\$0.153	\$0.125	\$16.11/KW \$0.0593/KWH
Ella Canavan Elementary	\$0.142	\$0.137	\$0.115	\$0.119	\$0.137	\$0.151	\$0.118	\$0.142	\$0.157	\$0.157	\$0.158	\$0.142	\$14.68/KW \$0.0686/KWH
Fenn Elementary	\$0.113	\$0.102	\$0.113	\$0.118	\$0.103	\$0.107	\$0.075	\$0.110	\$0.135	\$0.101	\$0.107	\$0.111	\$21.98/KW \$0.0298/KWH
Garfield Elementary	\$0.122	\$0.119	\$0.113	\$0.141	\$0.113	\$0.114	\$0.124	\$0.126	\$0.154	\$0.154	\$0.154	\$0.144	\$15.08/KW \$0.0662/KWH
Heritage Elementary	\$0.122	\$0.118	\$0.123	\$0.098	\$0.105	\$0.118	\$0.127	\$0.113	\$0.148	\$0.142	\$0.150	\$0.121	\$19.87/KW \$0.0397/KWH
Medina High School	\$0.099	\$0.099	\$0.098	\$0.066	\$0.071	\$0.094	\$0.092	\$0.092	\$0.086	\$0.090	\$0.094	\$0.079	\$20.65/KW \$0.0257/KWH
Kindergarten Center	\$0.158	\$0.146	\$0.150	\$0.106	\$0.090	\$0.113	\$0.101	\$0.125	\$0.158	\$0.158	\$0.158	\$0.144	\$14.28/KW \$0.0724/KWH
Root Middle	\$0.156	\$0.151	\$0.146	\$0.135	\$0.102	\$0.117	\$0.142	\$0.108	\$0.130	\$0.289	\$0.107	\$0.097	\$15.43/KW \$0.0652/KWH

Electricity Savings

Electricity Actual Performance Year Units KWH

		Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Total
KWH														
	Blake Elementary	45,533	34,476	36,598	47,246	42,065	40,555	39,290	32,110	23,664	32,803	51,979	48,470	474,789
	Claggett Middle	41,440	42,560	35,360	42,080	42,560	37,120	43,360	39,200	23,200	19,360	38,400	74,400	479,040
	Ella Canavan Elementary	20,640	16,960	16,000	18,400	19,520	17,120	19,120	18,800	18,000	13,840	27,440	24,640	230,480
	Fenn Elementary	19,520	20,880	17,760	20,800	20,800	21,360	18,560	18,720	13,680	13,520	18,080	32,240	235,920
	Garfield Elementary	24,720	24,000	35,880	25,800	30,840	12,840	23,040	22,560	17,880	22,200	38,400	31,920	310,080
	Heritage Elementary	31,520	31,520	42,080	33,440	41,520	32,800	31,280	25,680	20,480	21,680	39,680	36,160	387,840
	Medina High School	465,600	481,200	386,400	463,200	436,800	412,800	460,800	483,600	518,400	572,400	595,200	678,000	5,954,400
	Kindergarten Center	8,720	11,120	8,640	10,880	10,720	9,160	9,320	9,520	11,520	12,400	13,600	12,240	127,840
	Root Middle	80,160	66,560	66,960	73,200	78,880	69,200	73,440	61,200	27,760	45,200	99,040	80,960	822,560
Tota	KWH	737,853	729,276	645,678	735,046	723,705	652,955	718,210	711,390	674,584	753,403	921,819	1,019,030	9,022,949

Electricity Actual Performance Year Cost \$

		Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Total
Cost \$														
Bla	ake Elementary	\$4,785	\$3,689	\$3,924	\$4,712	\$4,414	\$4,431	\$4,809	\$4,139	\$3,283	\$4,299	\$6,294	\$6,032	\$54,811
Cla	aggett Middle	\$4,182	\$4,057	\$3,626	\$4,225	\$4,228	\$3,978	\$4,601	\$4,414	\$3,130	\$2,221	\$4,582	\$8,443	\$51,688
Ella	a Canavan Elementary	\$2,552	\$2,398	\$2,357	\$2,511	\$2,516	\$2,013	\$2,588	\$2,720	\$2,671	\$2,692	\$3,937	\$3,404	\$32,361
Fer	nn Elementary	\$2,093	\$2,098	\$1,941	\$2,163	\$2,212	\$2,261	\$2,068	\$2,020	\$1,673	\$1,594	\$2,219	\$3,793	\$26,134
Ga	arfield Elementary	\$2,441	\$2,420	\$3,528	\$2,616	\$3,054	\$1,792	\$2,551	\$2,814	\$2,019	\$2,921	\$4,562	\$4,185	\$34,901
Hei	eritage Elementary	\$3,307	\$3,463	\$4,372	\$3,820	\$4,338	\$3,784	\$3,578	\$3,259	\$2,287	\$3,142	\$4,796	\$4,335	\$44,479
Me	edina High School	\$42,209	\$43,136	\$35,611	\$41,320	\$39,096	\$40,227	\$44,568	\$45,783	\$48,850	\$54,357	\$56,984	\$64,606	\$556,747
Kin	ndergarten Center	\$907	\$1,067	\$900	\$1,096	\$1,055	\$944	\$976	\$1,044	\$1,462	\$1,377	\$1,487	\$1,436	\$13,750
Ro	oot Middle	\$10,095	\$7,514	\$9,254	\$7,988	\$9,722	\$7,975	\$9,428	\$8,620	\$4,350	\$6,378	\$12,913	\$11,418	\$105,654
Total Cost	st \$	\$72,572	\$69,841	\$65,512	\$70,451	\$70,634	\$67,405	\$75,166	\$74,813	\$69,724	\$78,982	\$97,773	\$107,653	\$920,526

Electricity Actual Performance Year Unit Cost \$/KWH

	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
Unit Cost \$/KWH												
Blake Elementary	\$0.105	\$0.107	\$0.107	\$0.100	\$0.105	\$0.109	\$0.122	\$0.129	\$0.139	\$0.131	\$0.121	\$0.124
Claggett Middle	\$0.101	\$0.095	\$0.103	\$0.100	\$0.099	\$0.107	\$0.106	\$0.113	\$0.135	\$0.115	\$0.119	\$0.113
Ella Canavan Elementary	\$0.124	\$0.141	\$0.147	\$0.136	\$0.129	\$0.118	\$0.135	\$0.145	\$0.148	\$0.195	\$0.143	\$0.138
Fenn Elementary	\$0.107	\$0.100	\$0.109	\$0.104	\$0.106	\$0.106	\$0.111	\$0.108	\$0.122	\$0.118	\$0.123	\$0.118
Garfield Elementary	\$0.099	\$0.101	\$0.098	\$0.101	\$0.099	\$0.140	\$0.111	\$0.125	\$0.113	\$0.132	\$0.119	\$0.131
Heritage Elementary	\$0.110	\$0.104	\$0.114	\$0.104	\$0.115	\$0.114	\$0.127	\$0.112	\$0.145	\$0.121	\$0.120	\$0.115
Medina High School	\$0.091	\$0.090	\$0.092	\$0.089	\$0.090	\$0.097	\$0.097	\$0.095	\$0.094	\$0.095	\$0.096	\$0.095
Kindergarten Center	\$0.104	\$0.096	\$0.104	\$0.101	\$0.098	\$0.103	\$0.105	\$0.110	\$0.127	\$0.111	\$0.109	\$0.117
Root Middle	\$0.126	\$0.113	\$0.138	\$0.109	\$0.123	\$0.115	\$0.128	\$0.141	\$0.157	\$0.141	\$0.130	\$0.141

Electricity Savings

Electricity Baseline Units KWH

	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Total
KWH													
Blake Elementary	55,317	51,780	54,899	59,019	61,512	59,383	51,501	49,404	39,699	34,196	43,147	54,644	614,501
Claggett Middle	37,841	41,156	38,292	48,319	49,222	43,026	44,031	39,399	28,468	27,173	32,683	44,850	474,460
Ella Canavan Elementary	23,057	23,457	27,648	26,917	27,462	25,659	20,890	19,052	19,326	16,220	19,221	19,333	268,243
Fenn Elementary	60,115	29,152	18,355	26,541	22,580	19,001	20,571	16,202	14,420	15,264	14,310	20,177	276,688
Garfield Elementary	69,963	24,819	25,025	29,045	26,938	28,190	24,702	24,537	16,445	16,589	22,704	25,112	334,070
Heritage Elementary	39,611	45,326	55,012	57,879	56,497	47,090	36,466	35,345	30,229	29,221	32,244	33,295	498,215
Medina High School	623,440	606,179	546,895	605,904	621,291	596,845	625,978	637,431	758,666	796,377	887,301	906,163	8,212,467
Kindergarten Center	7,386	9,239	8,734	12,404	10,798	9,067	9,574	7,961	6,381	6,712	6,036	7,005	101,296
Root Middle	89,240	88,354	91,574	96,782	101,743	100,881	82,621	74,616	44,434	43,988	67,097	72,041	953,370
Total KWH	1,005,970	919,463	866,433	962,809	978,042	929,142	916,334	903,946	958,069	985,741	1,124,742	1,182,619	11,733,311

Electricity Savings or (Shortfall) KWH

	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Total
KWH													
Blake Elementary	9,784	17,304	18,301	14,694	21,603	18,828	12,211	17,294	16,035	4,332	(1,401)	6,174	155,160
Claggett Middle	(3,599)	(1,404)	2,932	6,239	6,662	5,906	671	199	5,268	7,813	(5,717)	(29,550)	(4,580)
Ella Canavan Elementary	2,417	6,497	11,648	10,860	10,646	8,539	1,770	252	1,326	12,541	(9,020)	(5,307)	52,169
Fenn Elementary	40,595	8,272	595	5,741	1,780	(2,359)	2,011	(2,518)	740	1,744	(3,770)	(12,063)	40,768
Garfield Elementary	45,243	819	(10,855)	5,399	(208)	15,350	1,662	1,977	(1,435)	6,366	1,789	(6,808)	59,299
Heritage Elementary	8,091	13,806	12,932	28,476	9,732	14,290	5,186	9,665	9,749	14,593	(1,425)	(2,865)	122,229
Medina High School	157,840	124,979	160,495	142,704	184,491	184,045	165,178	153,831	240,266	223,977	292,101	228,163	2,258,067
Kindergarten Center	(1,334)	(1,881)	94	1,524	78	(93)	254	(1,559)	(5,139)	(5,688)	(7,564)	(5,235)	(26,544)
Root Middle	9,080	21,794	24,614	23,582	22,863	31,681	9,181	13,416	16,674	(10,244)	(37,082)	(8,919)	116,640
Savings KWH	268,117	190,187	220,755	239,218	257,646	276,187	198,124	192,556	283,485	255,434	227,911	163,589	2,773,210

Electricity Savings or (Shortfall) \$

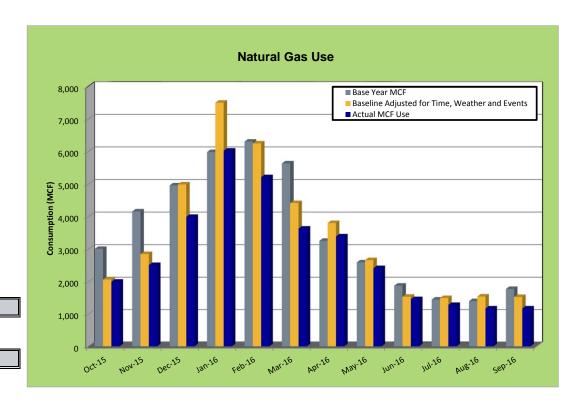
	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Total
\$													
Blake Elementary	\$3,647	\$5,240	\$5,264	\$4,820	\$5,125	\$5,126	\$3,827	\$4,223	\$4,715	\$3,505	\$2,136	\$2,748	\$50,373
Claggett Middle	(\$12)	\$432	\$341	\$876	\$952	\$966	\$662	\$236	\$1,310	\$1,169	(\$874)	(\$2,487)	\$3,570
Ella Canavan Elementary	\$764	\$918	\$1,716	\$1,162	\$1,091	\$1,582	\$553	\$905	\$1,125	\$854	(\$41)	\$246	\$10,876
Fenn Elementary	\$4,593	\$846	\$67	\$680	\$276	\$121	\$234	\$34	\$100	\$206	(\$463)	(\$955)	\$5,739
Garfield Elementary	\$5,519	\$329	(\$899)	\$458	(\$108)	\$2,142	\$445	\$310	\$1,057	(\$340)	(\$1,713)	(\$977)	\$6,222
Heritage Elementary	\$1,078	\$1,626	\$1,908	\$2,792	\$2,194	\$1,689	\$657	\$1,227	\$1,439	\$1,093	(\$1,112)	(\$347)	\$14,243
Medina High School	\$15,572	\$13,930	\$19,632	\$20,771	\$22,490	\$18,498	\$16,125	\$18,775	\$22,641	\$21,270	\$27,965	\$21,741	\$239,410
Kindergarten Center	\$146	\$131	\$295	\$161	\$16	\$26	\$45	(\$84)	(\$552)	(\$469)	(\$531)	(\$372)	(\$1,187)
Root Middle	\$1,817	\$5,306	\$3,589	\$3,263	\$2,818	\$3,719	\$1,300	\$2,371	\$3,676	\$3,991	(\$3,542)	(\$344)	\$27,965
Savings \$	\$33,123	\$28,758	\$31,915	\$34,982	\$34,852	\$33,869	\$23,849	\$27,996	\$35,510	\$31,279	\$21,825	\$19,253	\$357,212

Natural Gas Summary

Natural Gas Used In Base Year	42,373	MCF
Adjustments for Time, Weather and Events	(1,762)	MCF
Baseline Usage	40,611	MCF
Actual Usage	34,241	MCF

Total MCF Saved	6.370
TOTAL INIOI GATOA	0,0.0

Total Dollars Saved	\$76.432



Natural Gas Savings

Natural Gas Base Year Units MCF

		October	November	December	January	February	March	April	May	June	July	August	September	Total
MCF														
	Blake Elementary	3	52	134	258	184	267	179	51	44	11	3	25	1,211
	Fenn Elementary	88	250	238	372	407	333	148	101	15	4	14	4	1,974
	Garfield Elementary	118	248	300	402	476	376	124	111	3	3	2	3	2,166
	Heritage Elementary	12	17	36	64	46	54	27	1	5	0	2	2	266
	Medina High School	2,742	3,356	3,932	4,508	4,725	4,275	2,550	2,233	1,765	1,424	1,379	1,713	34,602
	Root Middle	43	233	315	376	462	327	227	96	44	3	0	28	2,154
Total	MCF	3,006	4,156	4,955	5,980	6,300	5,632	3,255	2,593	1,876	1,445	1,400	1,775	42,373

Natural Gas Base Year Cost \$

		October	November	December	January	February	March	April	May	June	July	August	September	Total
Cost \$	5													
	Blake Elementary	\$48	\$571	\$1,567	\$3,714	\$2,265	\$3,679	\$1,947	\$582	\$445	\$125	\$54	\$302	\$15,300
	Fenn Elementary	\$752	\$2,671	\$2,765	\$5,311	\$4,939	\$4,553	\$1,600	\$1,114	\$159	\$53	\$165	\$60	\$24,141
	Garfield Elementary	\$954	\$2,551	\$3,085	\$5,703	\$5,580	\$4,986	\$1,295	\$1,177	\$21	\$42	\$36	\$48	\$25,479
	Heritage Elementary	\$112	\$182	\$412	\$926	\$558	\$734	\$296	\$26	\$62	\$16	\$36	\$37	\$3,396
	Medina High School	\$22,664	\$35,483	\$45,205	\$63,965	\$56,940	\$58,043	\$27,140	\$24,096	\$16,629	\$13,055	\$14,586	\$18,848	\$396,654
	Root Middle	\$376	\$2,491	\$3,651	\$5,358	\$5,602	\$4,470	\$2,440	\$860	\$435	\$43	\$16	\$353	\$26,096
Total (Cost \$	\$24,906	\$43,948	\$56,685	\$84,978	\$75,885	\$76,464	\$34,718	\$27,855	\$17,751	\$13,334	\$14,893	\$19,648	\$491,066

Natural Gas Base Year Unit Cost \$/MCF

	October	November	December	January	February	March	April	May	June	July	August	September
it Cost \$/MCF												
Blake Elementary	\$15.95	\$10.99	\$11.70	\$14.40	\$12.31	\$13.78	\$10.88	\$11.40	\$10.11	\$11.40	\$18.13	\$12.09
Fenn Elementary	\$8.54	\$10.68	\$11.62	\$14.28	\$12.13	\$13.67	\$10.81	\$11.03	\$10.61	\$13.16	\$11.80	\$15.06
Garfield Elementary	\$8.08	\$10.28	\$10.28	\$14.19	\$11.72	\$13.26	\$10.44	\$10.61	\$6.95	\$14.07	\$18.03	\$16.04
Heritage Elementary	\$9.35	\$10.68	\$11.44	\$14.47	\$12.14	\$13.58	\$10.97	\$26.43	\$12.30	\$0.00	\$18.03	\$18.39
Medina High School	\$8.27	\$10.57	\$11.50	\$14.19	\$12.05	\$13.58	\$10.64	\$10.79	\$9.42	\$9.17	\$10.58	\$11.00
Root Middle	\$8.75	\$10.69	\$11.59	\$14.25	\$12.13	\$13.67	\$10.75	\$8.96	\$9.89	\$14.47	\$0.00	\$12.62

Natural Gas Savings

Natural Gas Actual Performance Year Units MCF

		Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Total
MCF														
	Blake Elementary	21	67	141	284	248	126	129	68	17	15	16	19	1,151
	Fenn Elementary	53	121	217	482	390	196	177	84	29	23	17	21	1,810
	Garfield Elementary	26	126	263	456	373	214	192	103	7	15	12	10	1,797
	Heritage Elementary	6	13	51	129	102	41	37	9	2	1	2	3	396
	Medina High School	1,833	2,071	3,090	4,287	3,731	2,845	2,666	2,061	1,381	1,214	1,110	1,097	27,386
	Root Middle	59	111	227	383	365	207	187	90	23	13	14	22	1,701
Total	MCF	1,998	2,509	3,989	6,021	5,209	3,629	3,388	2,415	1,459	1,281	1,171	1,172	34,241

Natural Gas Actual Performance Year Cost \$

		Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Total
Cost	\$ <u></u>													
	Blake Elementary	\$188	\$381	\$733	\$1,361	\$1,136	\$568	\$589	\$370	\$163	\$167	\$168	\$189	\$6,013
	Fenn Elementary	\$349	\$612	\$1,063	\$2,227	\$1,717	\$817	\$763	\$435	\$218	\$211	\$174	\$200	\$8,786
	Garfield Elementary	\$216	\$639	\$1,276	\$2,136	\$1,667	\$891	\$828	\$516	\$115	\$165	\$146	\$138	\$8,733
	Heritage Elementary	\$108	\$139	\$327	\$691	\$543	\$248	\$235	\$123	\$92	\$88	\$93	\$99	\$2,786
	Medina High School	\$8,586	\$8,541	\$13,493	\$18,744	\$15,319	\$10,192	\$9,778	\$7,805	\$5,608	\$5,995	\$5,220	\$5,426	\$114,708
	Root Middle	\$378	\$571	\$1,107	\$1,794	\$1,615	\$856	\$800	\$459	\$191	\$155	\$157	\$206	\$8,290
Total	Cost \$	\$9,826	\$10,884	\$17,999	\$26,953	\$21,997	\$13,572	\$12,992	\$9,709	\$6,387	\$6,781	\$5,957	\$6,257	\$149,315

Natural Gas Actual Performance Year Unit Cost \$/MCF

	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16
t Cost \$/MCF												
Blake Elementary	\$8.97	\$5.69	\$5.20	\$4.79	\$4.58	\$4.51	\$4.57	\$5.44	\$9.59	\$11.10	\$10.50	\$9.94
Fenn Elementary	\$6.58	\$5.06	\$4.90	\$4.62	\$4.40	\$4.17	\$4.31	\$5.18	\$7.52	\$9.19	\$10.21	\$9.52
Garfield Elementary	\$8.31	\$5.07	\$4.85	\$4.68	\$4.47	\$4.17	\$4.31	\$5.01	\$16.44	\$11.00	\$12.14	\$13.75
Heritage Elementary	\$18.00	\$10.67	\$6.42	\$5.35	\$5.32	\$6.04	\$6.35	\$13.71	\$45.92	\$88.11	\$46.55	\$32.97
Medina High School	\$4.68	\$4.12	\$4.37	\$4.37	\$4.11	\$3.58	\$3.67	\$3.79	\$4.06	\$4.94	\$4.70	\$4.95
Root Middle	\$6.41	\$5.15	\$4.87	\$4.68	\$4.43	\$4.13	\$4.28	\$5.10	\$8.32	\$11.95	\$11.23	\$9.34

Natural Gas Savings

Natural Gas Baseline Units MCF

		Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Total
MCF														
	Blake Elementary	2	101	194	296	246	168	145	95	20	17	18	17	1,320
	Fenn Elementary	65	149	253	467	392	237	167	68	7	7	6	7	1,825
	Garfield Elementary	48	101	297	550	453	267	199	72	3	3	3	3	2,001
	Heritage Elementary	6	14	37	66	55	33	26	11	0	0	0	0	249
	Medina High School	1,879	2,378	3,920	5,594	4,669	3,450	3,069	2,333	1,467	1,463	1,512	1,463	33,200
	Root Middle	66	105	284	521	429	258	196	82	36	3	0	36	2,016
Total	MCF	2,067	2,849	4,986	7,495	6,244	4,414	3,802	2,661	1,534	1,493	1,540	1,527	40,611

Natural Gas Savings or (Shortfall) MCF

		Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Total
MCF														
	Blake Elementary	(19)	34	53	12	(2)	42	16	27	3	2	2	(2)	169
	Fenn Elementary	12	28	36	(15)	2	41	(10)	(16)	(22)	(16)	(11)	(14)	15
	Garfield Elementary	22	(25)	34	94	80	53	7	(31)	(4)	(12)	(9)	(7)	204
	Heritage Elementary	0	1	(14)	(63)	(47)	(8)	(11)	2	(2)	(1)	(2)	(3)	(147)
	Medina High School	46	307	830	1,307	938	605	403	272	86	249	402	366	5,814
	Root Middle	7	(6)	57	138	64	51	9	(8)	13	(10)	(14)	14	315
Savin	gs MCF	69	340	997	1,474	1,035	785	414	246	75	212	369	355	6,370

Natural Gas Savings or (Shortfall) \$

	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Total
\$													
Blake Elementary	(\$305)	\$374	\$617	\$174	(\$22)	\$585	\$177	\$313	\$33	\$24	\$30	(\$23)	\$1,977
Fenn Elementary	\$104	\$299	\$420	(\$211)	\$24	\$565	(\$112)	(\$180)	(\$233)	(\$216)	(\$125)	(\$210)	\$124
Garfield Elementary	\$181	(\$256)	\$349	\$1,333	\$934	\$707	\$75	(\$326)	(\$61)	(\$165)	(\$155)	(\$107)	\$2,510
Heritage Elementary	\$8	\$11	(\$155)	(\$906)	(\$573)	(\$104)	(\$126)	\$56	(\$92)	(\$88)	(\$93)	(\$99)	(\$2,160)
Medina High School	\$380	\$3,249	\$9,544	\$18,550	\$11,307	\$8,218	\$4,294	\$2,931	\$813	\$2,286	\$4,254	\$4,031	\$69,856
Root Middle	\$64	(\$61)	\$663	\$1,964	\$771	\$691	\$92	(\$69)	\$132	(\$146)	(\$157)	\$180	\$4,125
Savings \$	\$433	\$3,616	\$11,438	\$20,904	\$12,442	\$10,661	\$4,401	\$2,725	\$591	\$1,696	\$3,754	\$3,772	\$76,432