

Town of Rico Memorandum

Date: December 31, 2018

TO: The Colorado Conservation Board and the Southwest Colorado  
Conservation Board

FROM: Kari Distefano, Rico Town Manager

SUBJECT: Town of Rico Water System Engineer's Analysis Report – CORE No.  
POGGI 2018-846

The Town of Rico issued a request for proposals for a Town of Rico Water System Engineer's Analysis on April 20<sup>th</sup> of this year. The goal of this report was to explore the feasibility of reactivating the Silver Creek water system to allow the Town some modest growth. Reactivating the Silver Creek System would give the Rico access to an additional 3 cfs for municipal water uses. Proposals were due on May 21<sup>st</sup>. We got six very high quality proposals. A selection committee composed of myself, our water technician, two members of the Rico Board of Trustees and a couple of interested citizens reviewed the proposals and selected three firms for interviews. SGM, Inc. was chosen to do the work. The Town of Rico approved a contract and they started the week of June 18<sup>th</sup>.

More specifically work from June 18<sup>th</sup> through July 14<sup>th</sup> included a demand/growth/phasing assessment, a draft findings report, an assessment of the water treatment facility and the storage tanks, field research, a water source blending assessment and an environmental analysis.

From July 14<sup>th</sup> through August 18<sup>th</sup>, work included an assessment of the infiltration gallery, more work on the demand/growth analysis, an assessment of the water treatment facility, an assessment of the water transmission system, an assessment of the water storage facility, a SCADA cost assessment, a water rights analysis, a water source blending assessment, more field research, and an assessment of hydropower generation potential.

From August 18<sup>th</sup> until September 15<sup>th</sup> SMG continued work on the assessment of the water treatment facility and potential options, they did more water rights analysis, and

more work on the water source blending assessment. They made two trips to the Town of Rico for public meetings, one being to the Trustee's meeting on August 15<sup>th</sup> and one to a community meeting on September 13<sup>th</sup>. At these meeting they discussed options and fielded questions revolving around recommendations and the potential cost of improvements to the water system.

In September, the Town of Rico received the draft preliminary engineering report (PER). There were some minor changes that were made in October and November. The Town of Rico received the final invoice December 28<sup>th</sup>. The report concluded that it was not feasible to repair the existing GE Homespring units that had been utilized for water treatment until the well was constructed. The report suggested that a new conventional multimedia filtration system or a membrane filtration system be installed, the infiltration gallery be upgraded and the water line that crosses a debris flow be replaced. The report also suggested tank maintenance and repair and new meters with a SCADA system. The Town of Rico is currently entering into an agreement with Browns Hill Engineering and Control to begin installation of a SCADA system. This spring and summer we will be working on tank repairs.

I am attaching the WSRA Grant - Invoice Tracking Summary by Task and a copy of the invoices to this report. The final report is available at <https://sgmftp.sgm-inc.com/?ShareToken=2C9F028A77DBE99B5CEC13F9667EE6F9911BC2F5> until December 13st. The final report will be available on Rico's website at <http://50.87.249.190/~ricocolo/water-resources/> later in January.

Kari Distefano

Rico Town Manager

**Invoice**

Schmueser Gordon Meyer, Inc. dba SGM  
118 West 6th Street, Suite 200  
Glenwood Springs, CO 81601  
(970) 945-1004 Fax (970) 945-5948

Kari Distefano, Manager  
Town of Rico  
PO Box 9  
Rico, CO 81332

Invoice Date: July 31, 2018  
Invoice No: 2018-319.001 - 1

Project 2018-319.001 Rico Phase I PER Budget Analysis  
Rico Phase I PER Budget Analysis

**For Professional Services through July 14, 2018**

Phase 002 Water System Assessment

Task 02 Demand\Growth Analysis

**Professional Labor**

Hours Amount

Totals 3.25  
**Total Labor 468.25**

**Total this Task \$468.25**

Task 03 Water Treatment Assesment

**Professional Labor**

Hours Amount

Totals 19.75  
**Total Labor 2,286.50**

**Total this Task \$2,286.50**

Task 05 Water Storage Assessment

**Professional Labor**

Hours Amount

Totals 6.25  
**Total Labor 793.00**

**Total this Task \$793.00**

Task 07 Water Rights Analysis

# Professional Labor

	Hours	Amount
Totals	16.00	
<b>Total Labor</b>		<b>1,899.00</b>
<b>Total this Task</b>		<b>\$1,899.00</b>

Task 08 HydroPower Generation Potential

# Professional Labor

	Hours	Amount
Totals	2.50	
<b>Total Labor</b>		<b>402.50</b>
<b>Total this Task</b>		<b>\$402.50</b>

Task 09 Water Source Assessment\Blending

# Professional Labor

	Hours	Amount
Totals	2.00	
<b>Total Labor</b>		<b>208.00</b>
<b>Total this Task</b>		<b>\$208.00</b>

Task 10 Env. Site Analysis

# Professional Labor

	Hours	Amount
Totals	3.25	
<b>Total Labor</b>		<b>208.00</b>
<b>Total this Task</b>		<b>\$208.00</b>

Task 11 Field Research

# Professional Labor

	Hours	Amount
Totals	1.25	
<b>Total Labor</b>		<b>235.00</b>
<b>Total this Task</b>		<b>\$235.00</b>

Task 12 Project Management

# Professional Labor

	Hours	Amount
Totals	25.50	
<b>Total Labor</b>		<b>4,497.00</b>

**Reimbursable Expenses**

Meals		19.61	
Lodging		124.98	
<b>Total Reimbursables</b>		<b>144.59</b>	<b>144.59</b>
	<b>Total this Task</b>		<b>\$4,641.59</b>
	<b>Phase Total</b>		<b>\$11,141.84</b>
	<b>Invoice Total</b>		<b>\$11,141.84</b>

If you have any questions regarding this bill, please call.

Project Manager: \_\_\_\_\_  
Eric Krch

# Billing Backup

Tuesday, July 31, 2018

Schmueser Gordon Meyer, Inc. dba SGM

Invoice 1 Dated 7/31/2018

10:12:01 AM

Project 2018-319.001 Rico Phase I PER Budget Analysis

Rico Phase I PER Budget Analysis

Phase 002 Water System Assessment

Task 02 Demand\Growth Analysis

## Professional Labor

	Hours	Amount
442 - 502 - Kattnig, Justin	1.25	
7/12/2018 Correspondence with Eric Kurch regarding peaking factors and demand estimates.		
303 - 752 - Krch, Eric	.50	
7/3/2018 Maggie review growth info, audt data and Kari D. emails for more info		
303 - 752 - Krch, Eric	1.50	
7/4/2018 Review growht assessment, contact Town about Realm project		
Totals	3.25	
<b>Total Labor</b>		<b>468.25</b>

**Total this Task \$468.25**

Task 03 Water Treatement Assesment

## Professional Labor

	Hours	Amount
441 - 500 - Byers, Stephen	4.00	
7/10/2018 Project intro, WQ & resource review, technology review		
441 - 500 - Byers, Stephen	4.00	
7/11/2018 Project intro, WQ & resource review, technology review, coord. w/ senior staff calls to vendors, prelim process selection/ screening		
441 - 500 - Byers, Stephen	3.00	
7/12/2018 Project intro, WQ & resource review, technology review, coord. w/ senior staff calls to vendors, prelim process selection/ screening		
353 - 500 - Mchugh, Margaret	1.00	
7/1/2018 Downloading WQ Reports from CDPHE website		
353 - 500 - Mchugh, Margaret	2.50	
7/2/2018 Water demand analysis, data review/collection and discussion with Jordan.		
353 - 500 - Mchugh, Margaret	2.00	
7/3/2018 Finalizing demand analysis.		
321 - 650 - Swanson, Warren	1.50	
6/29/2018 Conf call with Erick and LouisM to discuss drinking WQ and treatment issues and options; send sed pond photos and WQ sampling params		
604 - 650 - Swanson, Warren	.25	
7/3/2018 Review past Homespring BDR, WQ data, Injection well letter, etc. and provide comment to Maggie and team		
321 - 752 - Krch, Eric	1.50	

6/29/2018 Water Treatment options call

Totals	19.75	
<b>Total Labor</b>		<b>2,286.50</b>

<b>Total this Task</b>	<b>\$2,286.50</b>
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Task	05	Water Storage Assessment
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**Professional Labor**

	Hours	Amount
441 - 502 - Kattnig, Justin	1.50	
7/10/2018 Conduct CT calculations to estimate the disinfection capacity of Rico's existing treatment system.		
321 - 502 - Kattnig, Justin	.50	
7/10/2018 Kickoff meeting with project manager.		
441 - 502 - Kattnig, Justin	2.25	
7/11/2018 Conduct CT calculations to estimate the disinfection capacity of Rico's existing treatment system. Conduct overflow/venting analysis.		
321 - 750 - Weidmann, Theresa	.25	
6/25/2018 Discussion with Maggie regarding Rico project		
443 - 750 - Weidmann, Theresa	1.00	
7/10/2018 Review tank background information in preparation for call with Eric and Justin		
321 - 750 - Weidmann, Theresa	.50	
7/10/2018 Call with Eric and Justin		
321 - 752 - Krch, Eric	.25	
6/26/2018 Review tank scope with Theresa W.		
Totals	6.25	
<b>Total Labor</b>		<b>793.00</b>
<b>Total this Task</b>		<b>\$793.00</b>

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Task	07	Water Rights Analysis
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**Professional Labor**

	Hours	Amount
961 - 521 - Mullen, Ryan	5.00	
6/29/2018 Running StreamStats analysis, analyzing hydrologic data from Dolores Stream gage to estimate Rico Flume water supply, investigating Rico's existing water rights and wells.		
961 - 550 - Schiowitz, David	1.50	
7/12/2018 Discuss water rights with Jordan. Begin reviewing documents		
961 - 550 - Schiowitz, David	3.00	
7/13/2018 Review well reports. Determine physical supply. Work on water rights tables.		
968 - 770 - Mehan, David	.50	
6/26/2018 Meeting with EK, LM, review reports		
968 - 770 - Mehan, David	1.00	
6/27/2018 Enviro eval		
968 - 770 - Mehan, David	1.00	
6/28/2018 Enviro eval		
968 - 770 - Mehan, David	.50	
7/2/2018 USDA form		
961 - 750 - Dimick, Neal	1.00	

6/28/2018 TC w/ Eric K. re: project; outline work process; and preliminary review of data/documents from Eric K.

961 - 750 - Dimick, Neal 2.00

6/29/2018 Review Rico's water rights; coordinate w/ Ryan to get the physical water quantification study completed (streamstats, gage summary, necessary analyses); and send email re: legal uses to Eric K. and Jeff G.

961 - 750 - Dimick, Neal .25

7/2/2018 TC w/ Maggie re: population growth estimates and impacts to water rights/supply analyses

961 - 750 - Dimick, Neal .25

7/9/2018 Review StreamStats and TC w/ Eric K. re: physical supply availability of Silver Creek flows

Totals 16.00

**Total Labor 1,899.00**

**Total this Task \$1,899.00**

Task 08 HydroPower Generation Potential

**Professional Labor**

**Hours Amount**

941 - 752 - Grebe, Jeffrey 2.00

7/6/2018 Hydro analysis and spreadsheet

303 - 752 - Krch, Eric .50

7/2/2018 Jeff G. call about work plan

Totals 2.50

**Total Labor 402.50**

**Total this Task \$402.50**

Task 09 Water Source Assessment\Blending

**Professional Labor**

**Hours Amount**

330 - 500 - Mchugh, Margaret 1.00

7/1/2018 Downloading historical records for drinking water system including old design documents, correspondence, and other information to learn more about surface infiltration system.

330 - 500 - Mchugh, Margaret .75

7/2/2018 Phone call with ERic, and correspondence on emails.

330 - 500 - Mchugh, Margaret .25

7/3/2018 Email correspondence and file management.

Totals 2.00

**Total Labor 208.00**

**Total this Task \$208.00**

Task 10 Env. Site Analysis



### Professional Labor

	Hours	Amount
771 - 521 - Mullen, Ryan	3.25	
6/27/2018 Starting initial GIS mapping, collecting spatial data for NWI wetlands and soils analysis.		
Totals	3.25	
<b>Total Labor</b>		<b>208.00</b>

**Total this Task \$208.00**

Task 11 Field Research

### Professional Labor

	Hours	Amount
968 - 770 - Mehan, David	1.25	
6/28/2018 Enviro eval		
Totals	1.25	
<b>Total Labor</b>		<b>235.00</b>

**Total this Task \$235.00**

Task 12 Project Management

### Professional Labor

	Hours	Amount
303 - 650 - Meyer, Louis	10.00	
6/20/2018 Site visit and board meeting		
303 - 650 - Meyer, Louis	2.00	
6/21/2018 coordinate scanning etc...		
303 - 650 - Meyer, Louis	2.50	
6/25/2018 Go through scanned documents		
320 - 752 - Krch, Eric	9.50	
6/20/2018 Rico Data gathering and travel; attend Trustee mtg.		
321 - 752 - Krch, Eric	1.50	
6/22/2018 Organize and conduct DT mtg		
Totals	25.50	
<b>Total Labor</b>		<b>4,497.00</b>

### Reimbursable Expenses

#### Meals

EX 00000000620	6/20/2018	Krch, Eric	19.61
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5

#### Lodging

EX 00000000620	6/20/2018	Krch, Eric	124.98
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5

**Total Reimbursables 144.59 144.59**

**Total this Task \$4,641.59**

Phase Total	\$11,141.84
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Project Total	\$11,141.84
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Total this Report	\$11,141.84
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**Invoice**

Schmueser Gordon Meyer, Inc. dba SGM  
118 West 6th Street, Suite 200  
Glenwood Springs, CO 81601  
(970) 945-1004 Fax (970) 945-5948

Kari Distefano, Manager  
Town of Rico  
PO Box 9  
Rico, CO 81332

Invoice Date: August 24, 2018  
Invoice No: 2018-319.001 - 3

Project 2018-319.001 Rico Phase I PER Budget Analysis  
Rico Phase I PER Budget Analysis

**For Professional Services through August 18, 2018**

Phase 002 Water System Assessment

Task 01 Infiltration Gallery

**Professional Labor**

Hours Amount

Totals 2.00

**Total Labor 322.00**

**Total this Task \$322.00**

Task 02 Demand\Growth Analysis

**Professional Labor**

Hours Amount

Totals .25

**Total Labor 47.00**

**Total this Task \$47.00**

Task 03 Water Treatment Assesment

**Professional Labor**

Hours Amount

Totals 32.50

**Total Labor 3,674.00**

**Total this Task \$3,674.00**

Task 04 Water Transmission Assessment

# Professional Labor

		Hours	Amount
	Totals	2.25	
	<b>Total Labor</b>		<b>369.00</b>
	<b>Total this Task</b>		<b>\$369.00</b>

Task 05 Water Storage Assessment

# Professional Labor

		Hours	Amount
	Totals	12.50	
	<b>Total Labor</b>		<b>1,526.50</b>
	<b>Total this Task</b>		<b>\$1,526.50</b>

Task 06 SCADA Cost Assessment

# Professional Labor

		Hours	Amount
	Totals	1.75	
	<b>Total Labor</b>		<b>182.00</b>
	<b>Total this Task</b>		<b>\$182.00</b>

Task 07 Water Rights Analysis

# Professional Labor

		Hours	Amount
	Totals	24.00	
	<b>Total Labor</b>		<b>2,851.50</b>
	<b>Total this Task</b>		<b>\$2,851.50</b>

Task 08 HydroPower Generation Potential

# Professional Labor

		Hours	Amount
	Totals	4.00	
	<b>Total Labor</b>		<b>587.00</b>
	<b>Total this Task</b>		<b>\$587.00</b>

Task 09 Water Source Assessment\Blending

# Professional Labor

	Hours	Amount
Totals	26.50	
<b>Total Labor</b>		<b>2,305.25</b>
<b>Total this Task</b>		<b>\$2,305.25</b>

Task 11 Field Research

## Reimbursable Expenses

Legal Document Research	1.03	
Misc. Reimbursable Exp.	29.44	
<b>Total Reimbursables</b>	<b>30.47</b>	<b>30.47</b>
<b>Total this Task</b>		<b>\$30.47</b>

Task 12 Project Management

# Professional Labor

	Hours	Amount
Totals	9.75	
<b>Total Labor</b>		<b>1,686.00</b>
<b>Total this Task</b>		<b>\$1,686.00</b>
<b>Phase Total</b>		<b>\$13,580.72</b>

Phase 003 Wastewater System Assessment

Task 11 Field Research

## Reimbursable Expenses

Legal Document Research	1.05	
Misc. Reimbursable Exp.	29.44	
<b>Total Reimbursables</b>	<b>30.49</b>	<b>30.49</b>
<b>Total this Task</b>		<b>\$30.49</b>
<b>Phase Total</b>		<b>\$30.49</b>

**Invoice Total** **\$13,611.21**

If you have any questions regarding this bill, please call.

Project Manager:



Eric Krch

**Invoice**

Schmueser Gordon Meyer, Inc. dba SGM  
118 West 6th Street, Suite 200  
Glenwood Springs, CO 81601  
(970) 945-1004 Fax (970) 945-5948

Kari Distefano, Manager  
Town of Rico  
PO Box 9  
Rico, CO 81332

Invoice Date: September 25, 2018  
Invoice No: 2018-319.001 - 5

Project 2018-319.001 Rico Phase I PER Budget Analysis  
Rico Phase I PER Budget Analysis

**For Professional Services through September 15, 2018**

Phase 002 Water System Assessment

Task 03 Water Treatment Assesment

**Professional Labor**

Hours Amount

Totals 8.75 944.00

**Total Labor 944.00**

**Total this Task \$944.00**

Task 07 Water Rights Analysis

**Professional Labor**

Hours Amount

Totals 2.00 283.50

**Total Labor 283.50**

**Total this Task \$283.50**

Task 09 Water Source Assessment\Blending

**Professional Labor**

Hours Amount

Totals .75 96.75

**Total Labor 96.75**

**Total this Task \$96.75**

Task 12 Project Management

### Professional Labor

	Hours	Amount
Totals	88.38	14,541.18
<b>Total Labor</b>		<b>14,541.18</b>

### Reimbursable Expenses

Lodging	56.38	
<b>Total Reimbursables</b>	<b>56.38</b>	<b>56.38</b>

### Unit Billing

Mileage			
6/26/2018	2.0 Miles @ 0.545	1.09	
6/28/2018	2.0 Miles @ 0.545	1.09	
7/2/2018	3.0 Miles @ 0.545	1.64	
7/6/2018	3.0 Miles @ 0.545	1.64	
9/13/2018	82.5 Miles @ 0.545	44.96	
9/13/2018	150.0 Miles @ 0.545	81.75	
<b>Total Unit Billing</b>	<b>1.0 times</b>	<b>132.17</b>	<b>132.17</b>
	<b>Total this Task</b>		<b>\$14,729.73</b>
	<b>Phase Total</b>		<b>\$16,053.98</b>

Phase	003	Wastewater System Assessment
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Task	02	Treatment\Site Options
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**Professional Labor**

	<b>Hours</b>	<b>Amount</b>
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Totals	10.75	1,124.50
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<b>Total Labor</b>		<b>1,124.50</b>
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<b>Total this Task</b>	<b>\$1,124.50</b>
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Task	06	Draft Findings Report
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**Professional Labor**

	<b>Hours</b>	<b>Amount</b>
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Totals	11.50	1,196.00
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<b>Total Labor</b>		<b>1,196.00</b>
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<b>Total this Task</b>	<b>\$1,196.00</b>
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Task	12	Env. Site Analysis
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**Professional Labor**

	<b>Hours</b>	<b>Amount</b>
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Totals	1.00	188.00
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<b>Total Labor</b>		<b>188.00</b>
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<b>Total this Task</b>	<b>\$188.00</b>
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Task	13	Project Management
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**Professional Labor**

	<b>Hours</b>	<b>Amount</b>
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Totals	26.13	4,105.93
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<b>Total Labor</b>		<b>4,105.93</b>
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**Reimbursable Expenses**

Lodging		56.38	
<b>Total Reimbursables</b>		<b>56.38</b>	<b>56.38</b>

**Unit Billing**

Mileage

6/26/2018	2.0 Miles @ 0.545	1.09
6/28/2018	2.0 Miles @ 0.545	1.09
7/2/2018	3.0 Miles @ 0.545	1.63
7/6/2018	3.0 Miles @ 0.545	1.63
9/13/2018	82.5 Miles @ 0.545	44.97
9/13/2018	150.0 Miles @ 0.545	81.75

<b>Total Unit Billing</b>	<b>1.0 times</b>	<b>132.16</b>	<b>132.16</b>
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Total this Task	\$4,294.47
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Phase Total	\$6,802.97
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Invoice Total	<u><u>\$22,856.95</u></u>
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If you have any questions regarding this bill, please call.

Project Manager:   
Eric Krch

# Project Status Worksheet



Rico PER

Phase I

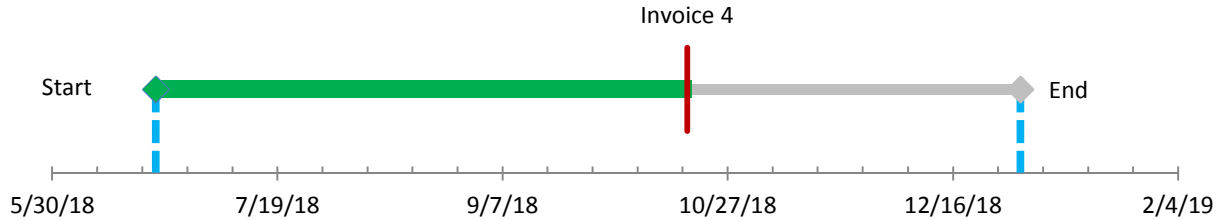
SGM No.

2018-319.001

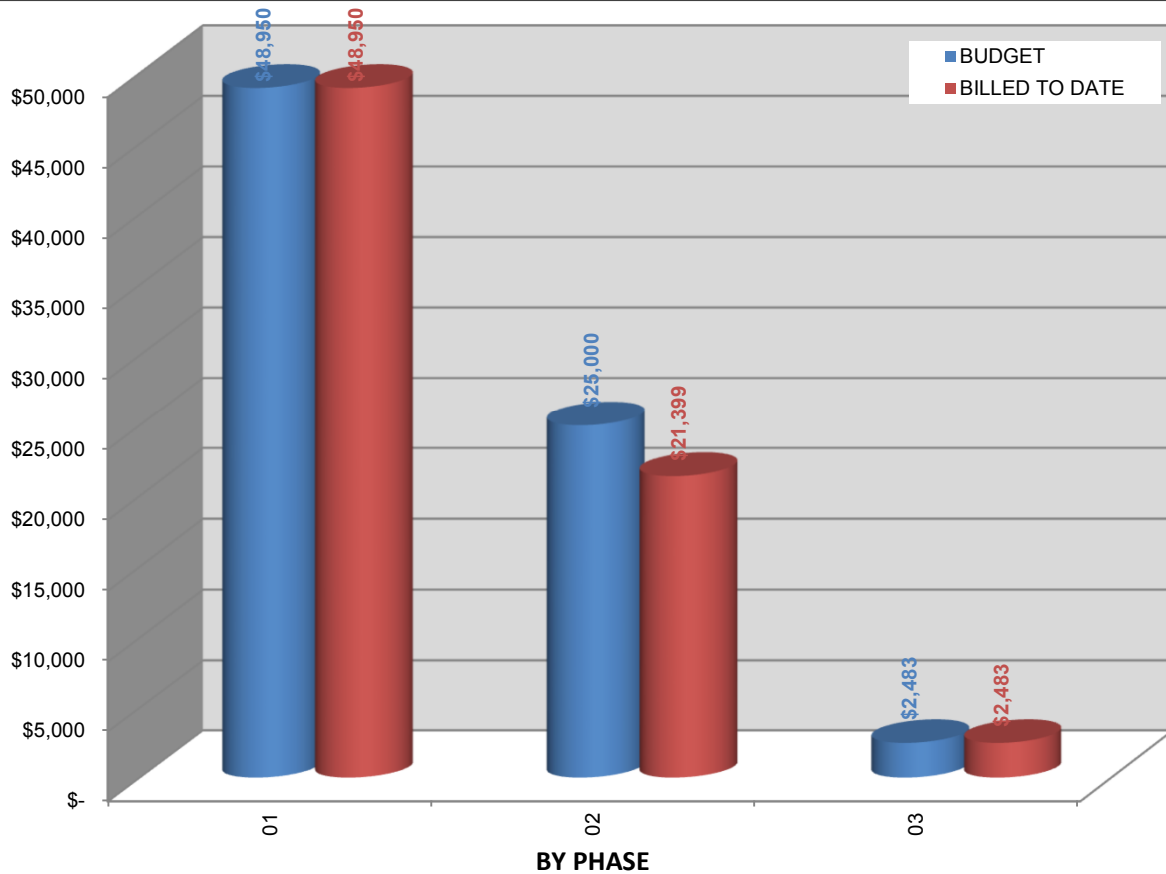
PROJECT START DATE: 6/22/2018  
DATE OF CURRENT INVOICE: 10/18/2018

PROJECT END DATE: 12/31/2018  
% COMPLETE OF DURATION: 61%

## Project Timeline



BY PHASE		BUDGET AMOUNT	CURRENT BILLING	BILLED JTD	% JTD	BUDGET BALANCE
01	Budget Analysis	\$ 48,950.00	\$ -	\$48,950.00	100%	\$ -
02	PER	\$ 25,000.00	\$ 2,905.50	\$21,399.13	86%	\$ 3,600.87
03	Out of scope work	\$ 2,482.75	\$ 362.25	\$2,482.75	100%	\$ -
<b>TOTALS</b>		<b>\$ 76,432.75</b>	<b>\$ 3,267.75</b>	<b>\$72,831.88</b>	<b>95%</b>	<b>\$ 3,600.87</b>



**Invoice**

Schmueser Gordon Meyer, Inc. dba SGM  
118 West 6th Street, Suite 200  
Glenwood Springs, CO 81601  
(970) 945-1004 Fax (970) 945-5948

Kari Distefano, Manager  
Town of Rico  
PO Box 9  
Rico, CO 81332

Invoice Date: October 18, 2018  
Invoice No: 2018-319.001 - 6

Project 2018-319.001 Rico Phase I PER Budget Analysis  
Rico Phase I PER Budget Analysis

**For Professional Services through October 13, 2018**

Phase 002 Water System Assessment

Task 05 Water Storage Assessment

**Professional Labor**

Hours	Amount
Totals .25	29.25
<b>Total Labor</b>	<b>29.25</b>

**Total this Task \$29.25**

Task 12 Project Management

**Professional Labor**

Hours	Amount
Totals 6.25	1,006.25
<b>Total Labor</b>	<b>1,006.25</b>

**Total this Task \$1,006.25**

**Phase Total \$1,035.50**

Project No. 2018-319.001  
Rico Phase I

23,750.28

Town Of Rico  
Enterprise Fund  
P.O. Box 9  
Rico, Colorado 81332

COPY



970-882-7600  
www.mydsb.com

003935  
82-492/1021

DATE AMOUNT  
December 28, 2018 23,750.28  
Twenty-Three Thousand & Seven Hundred & Fifty Dollars and 28/cents\*\*\*\*\*  
PAY

TO THE ORDER OF SGM  
118 West 6th Street  
Suite 200  
Glenwood Springs, CO 81601



AUTHORIZED SIGNATURE

Security features. Details on back.



⑈003935⑈ ⑆102104927⑆ 90198903⑈

Project No. 2018-319.001  
Rico Phase I

23,750.28



Invoice 3 and 4 - outstanding

1,241.37

12/31/18

SGM

\$1,241.37

COPY

Town Of Rico  
Enterprise Fund  
P.O. Box 9  
Rico, Colorado 81332



970-882-7600  
www.mydsb.com

003936  
82-492/1021

One Thousand Two Hundred Forty-One and 37/100 Dollars

DATE

AMOUNT

Dec 31, 2018

1,241.37

PAY SGM  
TO THE 118 West 6th Street, Suite 200  
ORDER OF Glenwood Springs, CO 81601



AUTHORIZED SIGNATURE

Security features. Details on back.



⑈003936⑈ ⑆102104927⑆ 90198903⑈

Invoice 3 and 4 - outstanding

1,241.37

12/31/18

SGM

\$1,241.37

**Invoice**

Schmueser Gordon Meyer, Inc. dba SGM  
118 West 6th Street, Suite 200  
Glenwood Springs, CO 81601  
(970) 945-1004 Fax (970) 945-5948

Kari Distefano, Manager  
Town of Rico  
PO Box 9  
Rico, CO 81332

Invoice Date: July 31, 2018  
Invoice No: 2018-319.001 - 1

Project 2018-319.001 Rico Phase I PER Budget Analysis  
Rico Phase I PER Budget Analysis

**For Professional Services through July 14, 2018**

Phase 002 Water System Assessment

Task 02 Demand\Growth Analysis

**Professional Labor**

**Hours Amount**

Totals 3.25  
**Total Labor 468.25**

**Total this Task \$468.25**

Task 03 Water Treatment Assesment

**Professional Labor**

**Hours Amount**

Totals 19.75  
**Total Labor 2,286.50**

**Total this Task \$2,286.50**

Task 05 Water Storage Assessment

**Professional Labor**

**Hours Amount**

Totals 6.25  
**Total Labor 793.00**

**Total this Task \$793.00**

Task 07 Water Rights Analysis



# Professional Labor

	Hours	Amount
Totals	16.00	
<b>Total Labor</b>		<b>1,899.00</b>
<b>Total this Task</b>		<b>\$1,899.00</b>

Task 08 HydroPower Generation Potential

# Professional Labor

	Hours	Amount
Totals	2.50	
<b>Total Labor</b>		<b>402.50</b>
<b>Total this Task</b>		<b>\$402.50</b>

Task 09 Water Source Assessment\Blending

# Professional Labor

	Hours	Amount
Totals	2.00	
<b>Total Labor</b>		<b>208.00</b>
<b>Total this Task</b>		<b>\$208.00</b>

Task 10 Env. Site Analysis

# Professional Labor

	Hours	Amount
Totals	3.25	
<b>Total Labor</b>		<b>208.00</b>
<b>Total this Task</b>		<b>\$208.00</b>

Task 11 Field Research

# Professional Labor

	Hours	Amount
Totals	1.25	
<b>Total Labor</b>		<b>235.00</b>
<b>Total this Task</b>		<b>\$235.00</b>

Task 12 Project Management

# Professional Labor

	Hours	Amount
Totals	25.50	
<b>Total Labor</b>		<b>4,497.00</b>

**Reimbursable Expenses**

Meals		19.61	
Lodging		124.98	
<b>Total Reimbursables</b>		<b>144.59</b>	<b>144.59</b>
	<b>Total this Task</b>		<b>\$4,641.59</b>
	<b>Phase Total</b>		<b>\$11,141.84</b>
	<b>Invoice Total</b>		<b>\$11,141.84</b>

If you have any questions regarding this bill, please call.

Project Manager: \_\_\_\_\_  
Eric Krch

# Billing Backup

Tuesday, July 31, 2018

Schmueser Gordon Meyer, Inc. dba SGM

Invoice 1 Dated 7/31/2018

10:12:01 AM

Project 2018-319.001 Rico Phase I PER Budget Analysis

Rico Phase I PER Budget Analysis

Phase 002 Water System Assessment

Task 02 Demand\Growth Analysis

## Professional Labor

	Hours	Amount
442 - 502 - Kattnig, Justin	1.25	
7/12/2018 Correspondence with Eric Kurch regarding peaking factors and demand estimates.		
303 - 752 - Krch, Eric	.50	
7/3/2018 Maggie review growth info, audt data and Kari D. emails for more info		
303 - 752 - Krch, Eric	1.50	
7/4/2018 Review growht assessment, contact Town about Realm project		
Totals	3.25	
<b>Total Labor</b>		<b>468.25</b>

**Total this Task \$468.25**

Task 03 Water Treatement Assesment

## Professional Labor

	Hours	Amount
441 - 500 - Byers, Stephen	4.00	
7/10/2018 Project intro, WQ & resource review, technology review		
441 - 500 - Byers, Stephen	4.00	
7/11/2018 Project intro, WQ & resource review, technology review, coord. w/ senior staff calls to vendors, prelim process selection/ screening		
441 - 500 - Byers, Stephen	3.00	
7/12/2018 Project intro, WQ & resource review, technology review, coord. w/ senior staff calls to vendors, prelim process selection/ screening		
353 - 500 - Mchugh, Margaret	1.00	
7/1/2018 Downloading WQ Reports from CDPHE website		
353 - 500 - Mchugh, Margaret	2.50	
7/2/2018 Water demand analysis, data review/collection and discussion with Jordan.		
353 - 500 - Mchugh, Margaret	2.00	
7/3/2018 Finalizing demand analysis.		
321 - 650 - Swanson, Warren	1.50	
6/29/2018 Conf call with Erick and LouisM to discuss drinking WQ and treatment issues and options; send sed pond photos and WQ sampling params		
604 - 650 - Swanson, Warren	.25	
7/3/2018 Review past Homespring BDR, WQ data, Injection well letter, etc. and provide comment to Maggie and team		
321 - 752 - Krch, Eric	1.50	

6/29/2018 Water Treatment options call

Totals	19.75	
<b>Total Labor</b>		<b>2,286.50</b>

<b>Total this Task</b>	<b>\$2,286.50</b>
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Task	05	Water Storage Assessment
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**Professional Labor**

	Hours	Amount
441 - 502 - Kattnig, Justin	1.50	
7/10/2018 Conduct CT calculations to estimate the disinfection capacity of Rico's existing treatment system.		
321 - 502 - Kattnig, Justin	.50	
7/10/2018 Kickoff meeting with project manager.		
441 - 502 - Kattnig, Justin	2.25	
7/11/2018 Conduct CT calculations to estimate the disinfection capacity of Rico's existing treatment system. Conduct overflow/venting analysis.		
321 - 750 - Weidmann, Theresa	.25	
6/25/2018 Discussion with Maggie regarding Rico project		
443 - 750 - Weidmann, Theresa	1.00	
7/10/2018 Review tank background information in preparation for call with Eric and Justin		
321 - 750 - Weidmann, Theresa	.50	
7/10/2018 Call with Eric and Justin		
321 - 752 - Krch, Eric	.25	
6/26/2018 Review tank scope with Theresa W.		
Totals	6.25	
<b>Total Labor</b>		<b>793.00</b>
<b>Total this Task</b>		<b>\$793.00</b>

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Task	07	Water Rights Analysis
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**Professional Labor**

	Hours	Amount
961 - 521 - Mullen, Ryan	5.00	
6/29/2018 Running StreamStats analysis, analyzing hydrologic data from Dolores Stream gage to estimate Rico Flume water supply, investigating Rico's existing water rights and wells.		
961 - 550 - Schiowitz, David	1.50	
7/12/2018 Discuss water rights with Jordan. Begin reviewing documents		
961 - 550 - Schiowitz, David	3.00	
7/13/2018 Review well reports. Determine physical supply. Work on water rights tables.		
968 - 770 - Mehan, David	.50	
6/26/2018 Meeting with EK, LM, review reports		
968 - 770 - Mehan, David	1.00	
6/27/2018 Enviro eval		
968 - 770 - Mehan, David	1.00	
6/28/2018 Enviro eval		
968 - 770 - Mehan, David	.50	
7/2/2018 USDA form		
961 - 750 - Dimick, Neal	1.00	

6/28/2018 TC w/ Eric K. re: project; outline work process; and preliminary review of data/documents from Eric K.

961 - 750 - Dimick, Neal 2.00

6/29/2018 Review Rico's water rights; coordinate w/ Ryan to get the physical water quantification study completed (streamstats, gage summary, necessary analyses); and send email re: legal uses to Eric K. and Jeff G.

961 - 750 - Dimick, Neal .25

7/2/2018 TC w/ Maggie re: population growth estimates and impacts to water rights/supply analyses

961 - 750 - Dimick, Neal .25

7/9/2018 Review StreamStats and TC w/ Eric K. re: physical supply availability of Silver Creek flows

Totals 16.00

**Total Labor 1,899.00**

**Total this Task \$1,899.00**

Task 08 HydroPower Generation Potential

**Professional Labor**

**Hours Amount**

941 - 752 - Grebe, Jeffrey 2.00

7/6/2018 Hydro analysis and spreadsheet

303 - 752 - Krch, Eric .50

7/2/2018 Jeff G. call about work plan

Totals 2.50

**Total Labor 402.50**

**Total this Task \$402.50**

Task 09 Water Source Assessment\Blending

**Professional Labor**

**Hours Amount**

330 - 500 - Mchugh, Margaret 1.00

7/1/2018 Downloading historical records for drinking water system including old design documents, correspondence, and other information to learn more about surface infiltration system.

330 - 500 - Mchugh, Margaret .75

7/2/2018 Phone call with ERic, and correspondence on emails.

330 - 500 - Mchugh, Margaret .25

7/3/2018 Email correspondence and file management.

Totals 2.00

**Total Labor 208.00**

**Total this Task \$208.00**

Task 10 Env. Site Analysis

### Professional Labor

	Hours	Amount
771 - 521 - Mullen, Ryan	3.25	
6/27/2018 Starting initial GIS mapping, collecting spatial data for NWI wetlands and soils analysis.		
Totals	3.25	
<b>Total Labor</b>		<b>208.00</b>

**Total this Task \$208.00**

Task 11 Field Research

### Professional Labor

	Hours	Amount
968 - 770 - Mehan, David	1.25	
6/28/2018 Enviro eval		
Totals	1.25	
<b>Total Labor</b>		<b>235.00</b>

**Total this Task \$235.00**

Task 12 Project Management

### Professional Labor

	Hours	Amount
303 - 650 - Meyer, Louis	10.00	
6/20/2018 Site visit and board meeting		
303 - 650 - Meyer, Louis	2.00	
6/21/2018 coordinate scanning etc...		
303 - 650 - Meyer, Louis	2.50	
6/25/2018 Go through scanned documents		
320 - 752 - Krch, Eric	9.50	
6/20/2018 Rico Data gathering and travel; attend Trustee mtg.		
321 - 752 - Krch, Eric	1.50	
6/22/2018 Organize and conduct DT mtg		
Totals	25.50	
<b>Total Labor</b>		<b>4,497.00</b>

### Reimbursable Expenses

#### Meals

EX 00000000620	6/20/2018	Krch, Eric	19.61
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5

#### Lodging

EX 00000000620	6/20/2018	Krch, Eric	124.98
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5

**Total Reimbursables 144.59 144.59**

**Total this Task \$4,641.59**

Phase Total	\$11,141.84
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Project Total	\$11,141.84
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Total this Report	\$11,141.84
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**Invoice**

Schmueser Gordon Meyer, Inc. dba SGM  
118 West 6th Street, Suite 200  
Glenwood Springs, CO 81601  
(970) 945-1004 Fax (970) 945-5948

Kari Distefano, Manager  
Town of Rico  
PO Box 9  
Rico, CO 81332

Invoice Date: August 24, 2018  
Invoice No: 2018-319.001 - 3

Project 2018-319.001 Rico Phase I PER Budget Analysis  
Rico Phase I PER Budget Analysis

**For Professional Services through August 18, 2018**

Phase 002 Water System Assessment

Task 01 Infiltration Gallery

**Professional Labor**

Hours Amount

Totals 2.00  
**Total Labor 322.00**

**Total this Task \$322.00**

Task 02 Demand\Growth Analysis

**Professional Labor**

Hours Amount

Totals .25  
**Total Labor 47.00**

**Total this Task \$47.00**

Task 03 Water Treatment Assesment

**Professional Labor**

Hours Amount

Totals 32.50  
**Total Labor 3,674.00**

**Total this Task \$3,674.00**

Task 04 Water Transmission Assessment



# Professional Labor

		Hours	Amount
	Totals	2.25	
	<b>Total Labor</b>		<b>369.00</b>
	<b>Total this Task</b>		<b>\$369.00</b>

Task 05 Water Storage Assessment

# Professional Labor

		Hours	Amount
	Totals	12.50	
	<b>Total Labor</b>		<b>1,526.50</b>
	<b>Total this Task</b>		<b>\$1,526.50</b>

Task 06 SCADA Cost Assessment

# Professional Labor

		Hours	Amount
	Totals	1.75	
	<b>Total Labor</b>		<b>182.00</b>
	<b>Total this Task</b>		<b>\$182.00</b>

Task 07 Water Rights Analysis

# Professional Labor

		Hours	Amount
	Totals	24.00	
	<b>Total Labor</b>		<b>2,851.50</b>
	<b>Total this Task</b>		<b>\$2,851.50</b>

Task 08 HydroPower Generation Potential

# Professional Labor

		Hours	Amount
	Totals	4.00	
	<b>Total Labor</b>		<b>587.00</b>
	<b>Total this Task</b>		<b>\$587.00</b>

Task 09 Water Source Assessment\Blending

# Professional Labor

	Hours	Amount
Totals	26.50	
<b>Total Labor</b>		<b>2,305.25</b>
<b>Total this Task</b>		<b>\$2,305.25</b>

Task 11 Field Research

## Reimbursable Expenses

Legal Document Research	1.03	
Misc. Reimbursable Exp.	29.44	
<b>Total Reimbursables</b>	<b>30.47</b>	<b>30.47</b>
<b>Total this Task</b>		<b>\$30.47</b>

Task 12 Project Management

# Professional Labor

	Hours	Amount
Totals	9.75	
<b>Total Labor</b>		<b>1,686.00</b>
<b>Total this Task</b>		<b>\$1,686.00</b>
<b>Phase Total</b>		<b>\$13,580.72</b>

Phase 003 Wastewater System Assessment

Task 11 Field Research

## Reimbursable Expenses

Legal Document Research	1.05	
Misc. Reimbursable Exp.	29.44	
<b>Total Reimbursables</b>	<b>30.49</b>	<b>30.49</b>
<b>Total this Task</b>		<b>\$30.49</b>
<b>Phase Total</b>		<b>\$30.49</b>

**Invoice Total** **\$13,611.21**

If you have any questions regarding this bill, please call.

Project Manager:



Eric Krch

**Invoice**

Schmueser Gordon Meyer, Inc. dba SGM  
118 West 6th Street, Suite 200  
Glenwood Springs, CO 81601  
(970) 945-1004 Fax (970) 945-5948

Kari Distefano, Manager  
Town of Rico  
PO Box 9  
Rico, CO 81332

Invoice Date: September 25, 2018  
Invoice No: 2018-319.001 - 5

Project 2018-319.001 Rico Phase I PER Budget Analysis  
Rico Phase I PER Budget Analysis

**For Professional Services through September 15, 2018**

Phase 002 Water System Assessment

Task 03 Water Treatment Assesment

**Professional Labor**

Hours Amount

Totals 8.75 944.00

**Total Labor 944.00**

**Total this Task \$944.00**

Task 07 Water Rights Analysis

**Professional Labor**

Hours Amount

Totals 2.00 283.50

**Total Labor 283.50**

**Total this Task \$283.50**

Task 09 Water Source Assessment\Blending

**Professional Labor**

Hours Amount

Totals .75 96.75

**Total Labor 96.75**

**Total this Task \$96.75**

Task 12 Project Management

### Professional Labor

	Hours	Amount
Totals	88.38	14,541.18
<b>Total Labor</b>		<b>14,541.18</b>

### Reimbursable Expenses

Lodging	56.38	
<b>Total Reimbursables</b>	<b>56.38</b>	<b>56.38</b>

### Unit Billing

Mileage			
6/26/2018	2.0 Miles @ 0.545	1.09	
6/28/2018	2.0 Miles @ 0.545	1.09	
7/2/2018	3.0 Miles @ 0.545	1.64	
7/6/2018	3.0 Miles @ 0.545	1.64	
9/13/2018	82.5 Miles @ 0.545	44.96	
9/13/2018	150.0 Miles @ 0.545	81.75	
<b>Total Unit Billing</b>	<b>1.0 times</b>	<b>132.17</b>	<b>132.17</b>

**Total this Task** **\$14,729.73**

**Phase Total** **\$16,053.98**

Phase	003	Wastewater System Assessment
Task	02	Treatment\Site Options

**Professional Labor**

	<b>Hours</b>	<b>Amount</b>
Totals	10.75	1,124.50
<b>Total Labor</b>		<b>1,124.50</b>

**Total this Task \$1,124.50**

Task	06	Draft Findings Report
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**Professional Labor**

	<b>Hours</b>	<b>Amount</b>
Totals	11.50	1,196.00
<b>Total Labor</b>		<b>1,196.00</b>

**Total this Task \$1,196.00**

Task	12	Env. Site Analysis
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**Professional Labor**

	<b>Hours</b>	<b>Amount</b>
Totals	1.00	188.00
<b>Total Labor</b>		<b>188.00</b>

**Total this Task \$188.00**

Task	13	Project Management
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**Professional Labor**

	<b>Hours</b>	<b>Amount</b>
Totals	26.13	4,105.93
<b>Total Labor</b>		<b>4,105.93</b>

**Reimbursable Expenses**

Lodging		56.38	
<b>Total Reimbursables</b>		<b>56.38</b>	<b>56.38</b>

**Unit Billing**


Mileage			
6/26/2018	2.0 Miles @ 0.545	1.09	
6/28/2018	2.0 Miles @ 0.545	1.09	
7/2/2018	3.0 Miles @ 0.545	1.63	
7/6/2018	3.0 Miles @ 0.545	1.63	
9/13/2018	82.5 Miles @ 0.545	44.97	
9/13/2018	150.0 Miles @ 0.545	81.75	
<b>Total Unit Billing</b>	<b>1.0 times</b>	<b>132.16</b>	<b>132.16</b>

Total this Task	\$4,294.47
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Phase Total	\$6,802.97
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Invoice Total	<u><u>\$22,856.95</u></u>
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If you have any questions regarding this bill, please call.

Project Manager:   
Eric Krch

# Project Status Worksheet



Rico PER

Phase I

SGM No.

2018-319.001

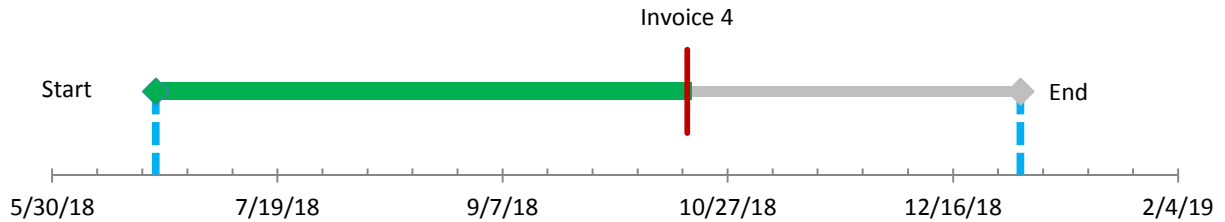
PROJECT START DATE: 6/22/2018

PROJECT END DATE: 12/31/2018

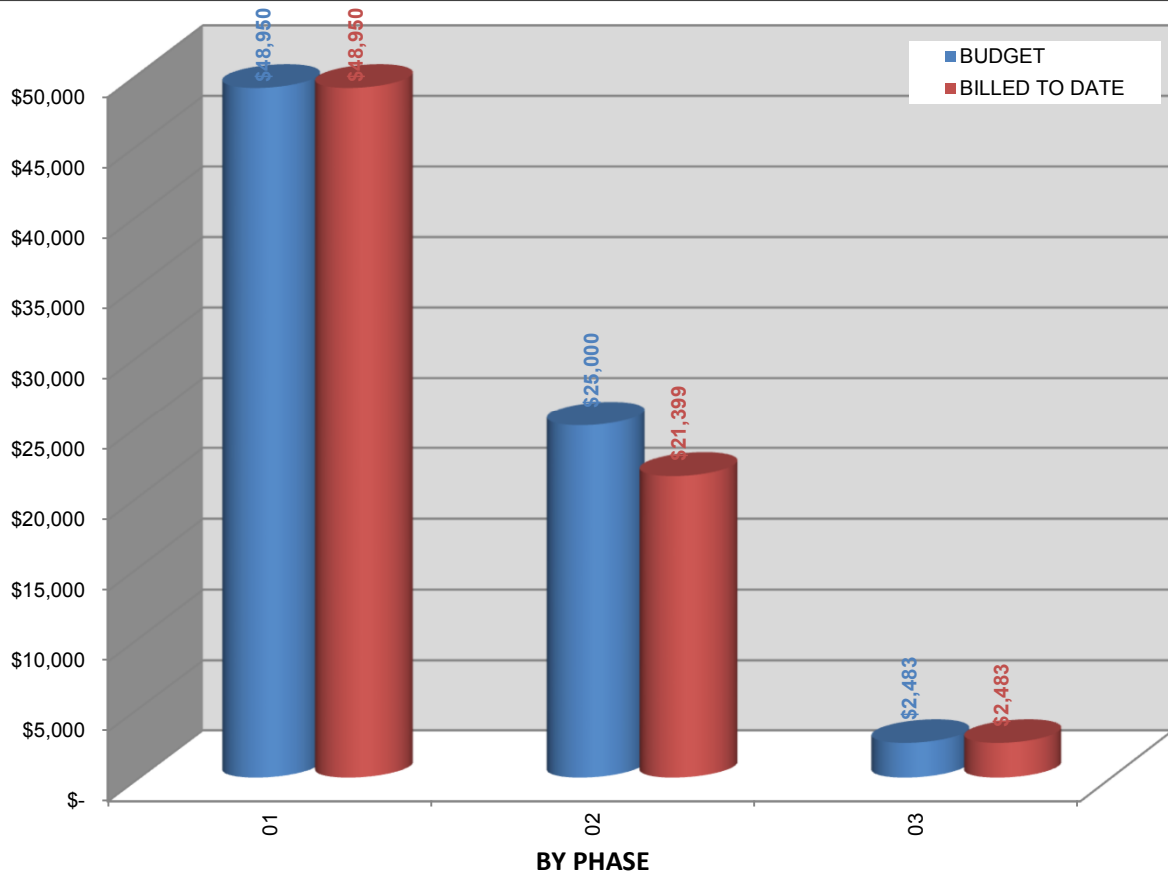
DATE OF CURRENT INVOICE: 10/18/2018

% COMPLETE OF DURATION: 61%

## Project Timeline



BY PHASE		BUDGET AMOUNT	CURRENT BILLING	BILLED JTD	% JTD	BUDGET BALANCE
01	Budget Analysis	\$ 48,950.00	\$ -	\$48,950.00	100%	\$ -
02	PER	\$ 25,000.00	\$ 2,905.50	\$21,399.13	86%	\$ 3,600.87
03	Out of scope work	\$ 2,482.75	\$ 362.25	\$2,482.75	100%	\$ -
<b>TOTALS</b>		<b>\$ 76,432.75</b>	<b>\$ 3,267.75</b>	<b>\$72,831.88</b>	<b>95%</b>	<b>\$ 3,600.87</b>





**Invoice**

Schmueser Gordon Meyer, Inc. dba SGM  
118 West 6th Street, Suite 200  
Glenwood Springs, CO 81601  
(970) 945-1004 Fax (970) 945-5948

Kari Distefano, Manager  
Town of Rico  
PO Box 9  
Rico, CO 81332

Invoice Date: October 18, 2018  
Invoice No: 2018-319.001 - 6

Project 2018-319.001 Rico Phase I PER Budget Analysis  
Rico Phase I PER Budget Analysis

**For Professional Services through October 13, 2018**

Phase 002 Water System Assessment

Task 05 Water Storage Assessment

**Professional Labor**

Hours	Amount
Totals .25	29.25
<b>Total Labor</b>	<b>29.25</b>

**Total this Task \$29.25**

Task 12 Project Management

**Professional Labor**

Hours	Amount
Totals 6.25	1,006.25
<b>Total Labor</b>	<b>1,006.25</b>

**Total this Task \$1,006.25**

**Phase Total \$1,035.50**