Final Report to: Colorado Water Conservation Board Submitted: Dec 18th, 2014

Grantee

Trout Unlimited, Inc. Jesse Kruthaupt, Upper Gunnison Project Specialist 604 Elsa Court, Gunnison, CO 81230 jkruthaupt@tu.com | 970-209-0976 | www.tu.org

Introduction:

In the spring of 2014 Trout Unlimited requested funding assistance from the Colorado River Water Conservation District, the Upper Gunnison River Water Conservation District, and the Colorado Water Conservation Board for the Upper Ohio Creek Flow Restoration Project. The goals of this project are to improve irrigation water use efficiency for water diverted from Castle Creek into Acme Ditch in order to maintain a minimum flow in Castle Creek. The two construction phases of this project are completed and described below. Trout Unlimited will continue to work with the Acme Ditch users to adjust the newly installed equipment (as necessary), monitor production changes in the area converted to sprinkler, and support irrigators as they fine tune irrigation management in order to meet the flow target in Castle Creek.

Phase 1: Irrigation Infrastructure and water management improvements on

Rock House Ranch

Construction of the Reinke center pivot, delivery pipe, and settling structure has been completed. The new irrigation system will be operational for the 2015 irrigation season. The pivot will make a complete circle, covering approximately 40 acres. This will allow irrigators at the Rock House to effectively irrigate their hay meadow while improving stream flow below the diversion.

TU and partners installed 2000ft of 8 inch delivery pipe and a bubbler screen to feed the pivot that is located on a lower portion of the meadow. There will be about 70 feet of head above the pivot. The delivery pipe proved to be more challenging than anticipated as bands of rock and clay were frequently encountered while digging the trench the pipe was buried in. Rocks had to be sorted out and clay broken down once dried in order to properly bed the pipe. Material that was not used to back fill the trench was hauled from the meadow, some was used for the settling structure and the rest was stock piled and will be used to fill in existing ditches under the pivot. This work was completed by Rock House Ranch employees with assistance from Trout Unlimited staff.

Construction of both the pivot and the delivery pipe was delayed slightly while the meadow was allowed to dry out from heavy rains in late September and early October. Aside from that delay, the pivot installation went as planned. The total length of pivot is 685 ft and the end gun will extend range another 80 to 100 feet. After installation the pivot was tested to mark locations for gates in a cross fence.

Forage samples were taken in 2012, 2013 and 2014. The samples were sent to Servi-Tech laboratories for analysis. The following table depicts the scores for percent crude protein and total digestible nutrients. Additional scoring categories are included in the Feed Analysis Reports attached in

Appendix B. It is worth noting that the irrigated meadow is typically grazed with cattle until the beginning of July. Then allowed to grow from July to September, hayed in September, and the residual grass is grazed in late September and October. Tonnage and quantity tests are representative of July through September growth.

Rock House	production	analysis	results

	1		
	Crude Protein	Total Digestible Nutrients	Avg. Tons per Acre
		(100% dry matter)	
2014	7.8%	71.3%	1.48
2013	6.1%	67.8%	1.52
2012	10.1%	67.8%	.6

The following pictures sequence the pipe installation down to the constructed pivot. Invoices for this phase of the project are labeled Task 1 in Appendix A.



Bubbler Screen

Pipe intake



Pipe Start below bubbler screen

Bubbler finished



Halfway& Airvac at 1000 ft



Getting closer

Final Piece



Welding Z pipe, which connects 8in PVC to the Pivot Constructed Pivot

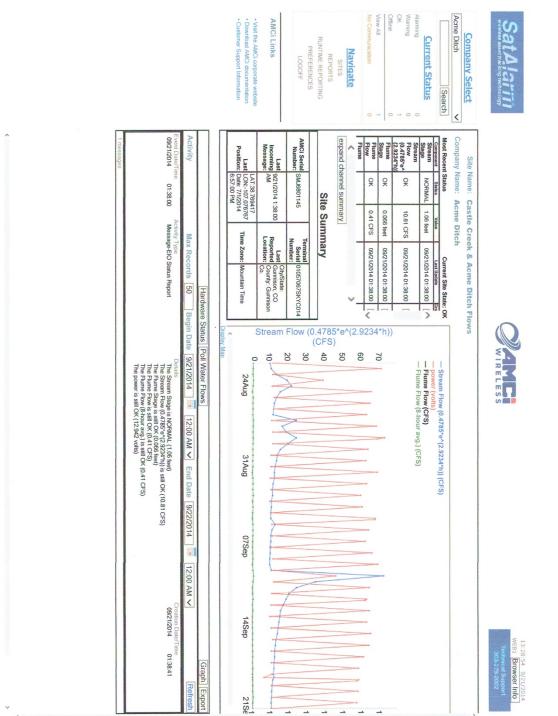
Phase 2: Monitoring Equipment at Acme Head gate

Installation of the remote monitoring equipment at Acme head gate was completed in early July of 2014. An ultrasonic sensor was installed on the Acme Ditch flume and a pressure transducer installed in Castle Creek below the Acme diversion. Both sensors will record stage height which is converted to CFS and displayed on a website for Acme ditch users to view. Manual measurements of flows in Castle Creek were taken to develop the relationship between stage height and discharge volume. Data transmitted was adjusted from once an hour to twice a day on July 10th as the diurnal flows from snow melt subsided. Dynatek Inc. installed the hardware and American Millennium Corp will manage the data plan and web service. The least expensive data plan was used during the 2014 irrigation season which allowed data to be transmitted to the website twice a day for \$33 dollars a month. This equipment will allow irrigators to be aware of what is available for diversion in the creek without having to make the trip up to the headgate. Record of 2014 data is located in Appendix C. Invoices for this phase of the project are labeled Task 2 in Appendix A (description of expenses). The following pictures depict the Ultra sonic sensor on the flume, installation the satellite transmitter, and a screen shot of the website ditch users have access to.



http://www.satalarm.com/Satalarm.asp?U=acmed%20&p=AMCi_Logo.jpg

9/21/2014



AMCi SatAlarm

Page 1 of 1

Phase 3: User Coordination

The completion of phase 1 and 2 will make it easier to meet the flow target, but without a consorted effort between the different users on the ditch this goal may prove difficult to meet. Coordination between users will play a critical part of tracing the delivery efficiency changes back to the head gate. Because 2014 was an above average water year the target of 7 cfs was met almost all year without the infrastructure improvements on the Rock House installed. However, there was a period on August 3rd and 4th when flows did drop below the target of 7cfs. Acme ditch users made adjustments and flows remained above the target for the remainder of the season. Coordination between users and additional irrigation management planning will continue and will be fine-tuned as the center pivot on the Rock House comes on line during the 2015 irrigation year.

Budget:

We came in under the total proposed budget of \$120,000 and actual expenditures were \$115,113.52. Of this adjusted project total the requested CWCB contribution is \$5,560 which is presented in the table on the following page. This contribution will reimburse Trout Unlimited for purchase of the pivot equipment.

The installation of monitoring equipment at the head gate and purchase of the pivot equipment was slightly more expensive than originally quoted. This is attributed to increase of equipment/material costs between the time the proposal was submitted and equipment was ordered and installed. There was also a significant amount of time spent by Trout Unlimited taking manual flow measurements in Castle Creek to developing the relationship between discharge and stage height. As noted above, installation of the delivery pipe also took about a week longer than anticipated.

Total cost for the center pivot equipment and installation was \$92,956.32.

- \$60,062.94 pivot (High Country Equipment)
- \$10,690.06 delivery pipe and (Bollinger and Queen)
- \$4,830 electrical cable (High Country Equipment)
- \$300 SGM survey
- \$90.00 CB rental trencher

\$20.00 hay test (2014)

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- \$13,320 Rock House labor and equipment
- \$1,125 K.R. Welding dozer for cable trench
- \$2518.32 Trout Unlimited labor and expenses

Total costs for the automation equipment installation and monitoring was \$10,465.30.

- \$7,619 Dynotek equipment and labor
- \$2846.30 additional materials, installation labor, TU monitoring

Pivot design planning, engineering, and coordination between the Rock House, contractors, and NRCS totaled \$7,687 dollars. Of that amount \$6,300 was time contributed from the NRCS and \$1737.60 was time and expenses contributed from Trout Unlimited.

The following table displays the project total and individual contributions from partners as compared to the budget as approved in the funding agreement. All project receipts and checks that have been processed are attached in appendix A.

		Rock House	Rock House	Acme Head			
	Rock House	Pivot Design	pivot	gate			
	flume	engineering &	equipment	Automation			
	Purchase and	coordination	and	and			
	installation		installation	monitoring	totals \$	Status	% of Total
Trout Unlimited	\$3,500.00	\$5,000.00	\$19,000.00	\$1,000.00	\$28,500.00	paid	23.80%
Updated TU	\$3,500.00	\$1,737.60	\$17,123.14	\$4,190.01	\$26,550.75		23.06%
Rock House Ranch	\$500.00	\$0.00	\$40,000.00	\$0.00	\$40,000.00	paid	33.80%
Updated Rock House	\$500.00	\$0.00	\$37,370.00	\$735.00	\$38,605.00		33.54%
Castle Creek Ranch	\$0.00	\$0.00	\$0.00	\$1,000.00	\$ 1,000.00	paid	0.80%
Updated CCR	\$0.00	\$0.00	\$0.00	\$1,000.00	\$ 1,000.00		0.87%
NRCS	\$0.00	\$4,000.00	\$0.00	\$0.00	\$ 4,000.00	completed	3.30%
Udated NRCS	\$0.00	\$5,950.00	\$0.00	\$0.00	\$ 5,950.00		5.17%
UGRWCD	\$0.00	\$0.00	\$10,000.00	\$5,000.00	\$15,000.00	secured	12.50%
Updated UGRWCD	\$0.00	\$0.00	\$9,791.29	\$4,540.29	\$14,331.58	requesting	12.45%
CRWCD	\$0.00	\$0.00	\$25,000.00	\$0.00	\$25,000.00	secured	20.80%
Updated CRWCD	\$0.00	\$0.00	\$23,116.29	\$0.00	\$23,116.29	75% paid	20.08%
СWCB	\$0.00	\$0.00	\$6,000.00	\$0.00	\$0.00	secured	5.00%
Udated CWCB	\$0.00	\$0.00	\$5,560.00	\$0.00	\$5,560.00	processing	4.83%
Proposed Totals	\$4,000.00	9000	\$100,000.00	\$7,000.00	\$120,000		100.00%
Udated Costs	\$4,000.00	\$7,687.60	\$92,960.72	\$10,465.30	\$115,113.62		100.00%

Conclusion:

Trout Unlimited will continue to work with the Rock House Ranch and other Acme Ditch users to adjust equipment and tune the irrigation management improvements. Monitoring of flows in Castle Creek and changes in production for the area converted to sprinkler irrigation will continue for at least the 2015 and 2016 irrigation seasons. Trout Unlimited will provide a report describing the monitoring results after each of the next two production seasons. To date there has not been a lot of public outreach related to this project. However, I plan to circulate a summary type article highlighting the project goals on the Trout Unlimited Website and possibly in the Gunnison Country Times. I would like to coordinate this summary with the funding partners and hope this will provide an opportunity to communicate water conservation objectives with a range of TU members as well as the general public in the Upper Gunnison Valley.

Sincerely, Jesse Kruthaupt Upper Gunnison Project Specialist 970-209-0976 Jkruthaupt@hotmail.com

Appendix A: Description of expenses

P	hase	1:	Pipe	



BOLINGER & QUEEN, INC. 718 Lane 348

Olathe, CO 81425

Time

16:22

Page

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(970) 323-5030 Fax (970) 323-5943

Date

08/01/14

Number 2246417

INVOICE

CHARGE ACCOUNT

L					TROUT UNLI O:JESSE	MITED	
CUST#:106030.0000 DEL DATE:06/18/14 TERMS: NET CASH							
#	QTY	DESCRIPTION	ITEM #	UNITS	PRICE		AMOUNT
1	2640	8"x20' SDR51 80# PIP	110808010	2640	2.36	LF	6230.40
2	1	8" 80# 22-1/2 ELL PIP	310820220	1	13.99	EA	13.99
3	1	8" 80# 45 ELL PIP	310820450	1	19.73	EA	19.73
4	2	8"x6"x3" VENT CHAMBER TEE 100#	310811520	2	56.70		113.40
5	2	3" X 2" SCH 40 BUSHING SXS	40373380A	2	3.17	EA	6.34
6	10	2"x20' SCH40 BE IPS	13024000A	10		LF	9.50
7	4	2" SCH 40 MALE ADAPTER	403602000	4	.70		2.80
3	2	2" FRESNO 3000 AIRVENT	222100020	2	25.92	EA	51.84
9	40	10"x20' SDR51 80# PIP	111008010	40	3.62		144.80
0_	100	12"x20' SDR51 80# PIP	111208010	100	5.24		524.00
1	1	10X8 100# RED COUPLER PIP	311030050	1		EA	22.27
2	1	12X10 100# RED COUPLER PIP	311230060	1		EA	32.15
3 4	1	12" X 10" 80# TEE PIP 10" LO-HEAD CAP PIP	311220560 311010300	1	10 X0	EA EA	74.47 9.07
± 5	1	10" LO-HEAD CAP PIP 12" 80# 90 ELL PIP	311220900			EA	9.07
6	2	2" MATCO RS GATE VAVLE FPTxFPT	463526200	2		EA	299.24
7	1	8" X 2" 100# TEE PIP	310830510	1		EA	23.23
8	2	4020 GALLON SWAB	330100090	2	10.68		21.36
9	1	1 GALLON W 2-7/8 NECK EMPTY CAN	330100100	1		EA	9.05
0	1	1 GALLON 711 GLUE	330101170	1	53.68		53.68
1	1	1 GALLON P-70 PRIMER	330102070	1	55.62		55.62
2	1	5' BUBBLE SCREEN TOP ONLY	30000500A	1	856.75		856.75
3	1	48" MH X 4'W/ 2 12" BOOTSW/BASE	88888888E	1	1020.00		1020.00
4	1	12" X 2" 100# TEE PIP	311230510	1	46.46	EA	46.46
5	1	8" X 8" 100# TEE PIP	310830500	1	41.05	EA	41.05
6	1	8" END CAP 100# PIP	310830300	1	16.24	EA	16.24
					 SUBTOTAL		9787.51

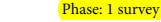
THANK YOU VERY MUCH! PAYMENTS ARE DUE BY THE 10TH OF THE FOLLOWING MONTH.

Purchases made up to and including the close of our billing cycle are due and payable the 10th of the following month. A FINANCE CHARGE may be imposed on amounts not paid in full by the 10th of the month. The FINANCE CHARGE is computed by a periodic rate of 2% PER MONTH (or a minimum charge of \$2.00 for balances under \$100.00) which is an ANNUAL PERCENTAGE RATE of 24% applied to the previous balance without deducting current payments and/or credits appearing on your statement.

REC'D BY

	PVC Pipe Botchkiss 70-872-3371	e & Fittings 970-323-5030	Phase 1: Pipe					718 Olathe (970)	QUEEN, Lane 348 , CO 81425 323-5030 0) 323-5943	5
		6952	I	NVO	ICE			1/14	Time 11:04	Page 01
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1 2 3 4 5	60 2 1 1 1	12"x20' SDR #248 - 15" 12" C-8 GAT 12" DRAW BA 12" LINE GA	STAINLESS HOSE C E ND	LAMP	111208010 36000248A 221200120 22150012A 311205010	60 2 1 1	12.9 115.6	7 EA 9 EA	314.4 25.8 115.6 6.8 17.1	8 7 9
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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

	Invoice Date:	August 21, 2014
604 ELSA COURT GUNNISON, CO 81230	Invoice No:	2014-226.001 - 1

Project

2014-226.001

Rock House Ranch Irrigation

For Professional Services through August 16, 2014

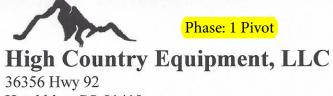
Phase	01	IRRIGATION MAPPING				
Professional	Labor		Hours	Dete	A	
Existing Cond	litions Mappi	ing	nours	Rate	Amount	
Bjornstad, Eri	k	1 Man Crew	1.00	150.00	150.00	
Project Set-up)					
Bjornstad, Eri		Survey Technician	2.00	75.00	150.00	
		Totals	3.00		300.00	
		Total Labor			300.00	
			Phase	Total	\$300.00	
			Invoice	Total	\$300.00	

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

Project Manager:

Fol

Erik Bjornstad



Hotchkiss, CO 81419

Voice: 970-872-3890 Fax: 970-872-3892

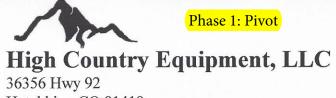
Bill To

Trout Unlimited 604 Elsa Court Gunnison, CO 81203 Upper Ohio Flow Restoration Project

			P.O. No.	Terms
				Due on receipt
uantity	Description		Rate	Amount
1	REINKE ELECTROGATOR II MODEL: 5T E2060-G LP 54" SERIAL NUMBER: 0814-62181-2060 LP ROCK HOUSE RANCH		60,062.94	60,062.94
	-40% DUE ON DELIVERY	-	-24,050.35	-24,050.35
	-10% DUE ON COMPLETION		-6,012.59	-6,012.59
	•			
nank yo	u for your business.	Total		\$30,000.00

Invoice Date Invoice # 8/18/2014 2265

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Hotchkiss, CO 81419

Voice: 970-872-3890 Fax: 970-872-3892

Trout Unlimited	S	
604 Elsa Court		
Gunnison, CO 81203		
Junnison, CO 81203		

I	nvoice
Date	Invoice #
9/24/2014	2269

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				P.O. No.	Terms
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uantity	E	Description		Rate	Amount
	REINKE ELECTROGATOR I SERIAL NUMBER: ROCK HOU	0814-62181-2060 LP	54"		
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e appreciate	your business		Total		\$24,050.35

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Invoice ŧ

Hotchkiss, CO 81419

Voice: 970-872-3890 Fax: 970-872-3892

Bill To

Trout Unlimited 604 Elsa Court Gunnison, CO 81203

		P.O. No.	Terms
			Due on receipt
Quantity	Description	Rate	Amount
	ROCK HOUSE RANCH		
	BOLINGER & QUEEN INVOICES #2166539	263.60	263.60
nank you	a for your business.	Total	\$263.60

Date	Invoice #
11/7/2014	2290

BOLINGER & QUEEN, INC. 32874 J Road Hotchkiss, CO 81419

(970) 872-3371 Fax (970) 872-4813

2466539

810/2 978-523 čena

IN WORESHIP

Dates Rece 10/20/14 09:1001

HEGH COUNTRY EQUIPMENT 36356 HWY 92 HOTCHKISS, CO 81419

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CUST#:116470_0000 DEL DATE:10/20/14 TERMS: NET LOTH 970-872-3890

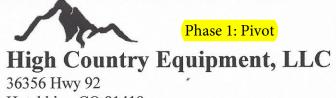
4#	QTY	DESCRIPTION	ITEM #	UNITS	PRICE	AMOUNT	
1	1	5" SCH 80 FLANGE SLIP	80540600A	1	24.88 E	A 24.88	
2	1	8X6 100# RED COUPLER PIP	31083004A	1	16.24 E	A . 16.24 -	2
3	1	12" 100# COUPLING PIP	31123000A	L	28.96 E	IA 28.96	
4	20	12"x20' SDR41 100# PIP	11121001A	50	7.42 1	F 148.40	
5	1	1 QUART 711 GLUE	33010119A	1	15.88 E	A 15.88	1
6	1	1 QUART P-70 PRIMER	33010223A	· 1	16.93 E	IA 16.93	
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EC'D BY egell,

LAIMS FOR SHORTAGE MUST BE FRESENTED WITHIN 24 HOURS POLLOWING DELIVERY. Original



Invoice

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Date

10/13/2014

Invoice #

2285

Hotchkiss, CO 81419

Voice: 970-872-3890 Fax: 970-872-3892

e and the second	
Trout Unlimited	
604 Elsa Court	
Gunnison, CO 81203	

	· · · · · · · · · · · · · · · · · · ·	P.O. No.	Terms
			Due on receipt
uantity	Description	Rate	Amount
	REINKE ELECTROGATOR II MODEL: 5T E2060-G LP SERIAL NUMBER: 0814-62181-2060 LP ROCK HOUSE RANCH		
	10% DUE ON COMPLETION	6,012.59	6,012.59
1,150	3 - $#4/0 + 1 - #2$ UNDERGROUND ELECTRICAL CABLE WITH CONDUIT	4.20	4,830.00
	-		
			\$

4

Phase 1 trench for cable

K.R. Welding 33 County Road 51 Gunnison, CO 81230

(970)-275-4455

krobbins2011@hotmail.com

Date	Invoice #
10/28/2014	296

Invoice

Bill To Trout Unlimited Jesse Kruthaupt 604 Elsa Ct. Gunnison, CO 81230

		P.O.	Payment Terms	Due Date
		Rock House Pivot	Net 15	11/12/2014
Quantity	Description		Rate	Amount
4.5	Install 2" electrical conduit from pivot to electrical post.		190.00	855.00
2.25	Pre- rip and level ground to assure proper depth of conduit, ple ripper on bulldozer. Mobilize bulldozer from shop to Rock House and back.	ow in conduit with	120.00	270.00
hank you for you	ur business.		Total	\$1,125.00

THANK YOU FOR SHOPPING AT FULLMER'S ACE HARDWARE (970) 641-1212

> VISIT OUR WEBSITE AT WWW.FULLMERACE.COM

 ALL RETURNS REQUIRE RECEIPT DATED WITHIN

 60 DAYS AND ARE SUBJ
 TO A RESTOCK FEE

 10/23/14 11:01AM MAT
 554 SALE

 42639
 1 FU
 7.99 FU

 SCH40 PIPE PVC DWV2"X10'
 7.99

 42639
 1 HA
 4.99 HA

 SCH40 PIPE PVC DWV2"X10'
 5.00

 1/HALF STICK- \$4.99
 per HA

 5606439
 5 EA
 4.99 EA

 CONCRETE MIX 80# QUIKRETE
 24.95

 192295
 2 FA
 3.99 EA

 2"SCH 40 221/2 EL EL
 7.98

 43115
 2 EA
 1.99 EA

 ADAPTR 40PVC2"SL2"FPT
 3.98

SUB-TOTAL: 49.90 TAX: 4.12 TOTAL: 54.02 BC AMT: 54.02

BK CARD#: XXXXXXXXXXXX8647 ID: 670120677499 AUTH: 023062 AMT: 54.02 Host reference #:650091 Bat#1185 SWIPED CARD TYPE:VISA EXPR: XXXX

Bank card 54.02

==>> JRNL#G50091 <<== CUST # *739 ACE REWARDS ID # 19724132100

THANK YOU JESSE KRUTHAUPT FOR YOUR PATRONAGE

Name : X I agree to pay above total amount according to card issuer agreement (merchant agreement if credit voucher) Acct: GREG KRUTHAUPT

RADIO SHACK #22-F903

- Faman Cany

THANK YOU FOR SHOPPING AT FULLMER'S ACE HARDWARE (970) 641-1212

> VISIT OUR WEBSITE AT WWW.FULLMERACE.COM

ALL RETURNS REQUIRE RECEIPT DATED WITHIN 60 DAYS AND ARE SUBJECT TO A RESTOCK FEE 10/23/14 11:08AM MELISSA 553 SALE the second second to the second s 5606439 -5 EA 4,99 EA R CONCRETE MIX 80# QUIKRETE -24.95 Orig: G50091/1 10/23/14 TX: 7 EA 4.99 EA 52375 CONCRETE MIX 60#GUIKRETE SUB-TOTAL: 9.98 TAX: 10.80 TOTAL: 10.80 EC AMT: BK CARD#: XXXXXXXXXXXXXXXX8647 ID: 670120677499

AUTH: 023360 AMT: 10.80 Host reference #:650095 Eat#1185 SWIPED CARD TYPE:VISA EXPR: XXXX

Bank card

10.80

==>> JRNL#G50095 </== CUST # *739 ACE REWARDS ID # 19724132100

> THANK YOU JESSE KRUTHAUPT FOR YOUR PATRONAGE

Acct: GREG KRUTHAUPT

RADIO SHACK #22-F903

Customer Copy

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1	1	1" X 14.5' BIDCO SEA	LANT	332510140	1	-20-20	EA	18.30
						Merchant XXXXXXXXXXX VISA		00 Ref #: 0003
						Amount: Tax: Total: 10/15/14 Inv #: 000003 Iransaction I Apprvd: Online	ари D: 464288673346	\$ 18.30 \$ 0.85 \$ 19.15 12:42:14
							Customer Copy THANK YOU	
	: VISA	19.15 MUCH! HAVE A GREAT DAY.	Constant of the second		DC	SUBTOTAL COUN/STATE	TAX	18.30 .85 19.15

Purchases made up to and including the close of our billing cycle are due and payable the 10th of the following month. A FINANCE CHARGE may be imposed on amounts not paid in full by the 10th of the month. The FINANCE CHARGE is computed by a periodic rate of 2% PER MONTH (or a minimum charge of \$2.00 for balances under \$100.00) which is an ANNUAL PERCENTAGE RATE of 24% applied to the previous balance without deducting current payments and/or credits appearing on your statement.

REC'D BY

Phase 1: Trench

Crested Butte Rental Center

571 Riverland Drive Crested Butte Colorado 81224 Phone: 970-349-5508 Fax: 970-349-5299 Email: herzappy@yahoo.com

Customer #: 025481 Customer: Trout Unlimited Name: Cary Denison 1300 Arlington, Virginia, 22209, 239 Grand Ave Delta 81416 Date: 10/21/14 at 1:13 pm

Invoice for return of rental items: #00171857, from rental #00171853 (10/21/14)

Stock #	Description	Return	Cost (\$)
001571	Trencher Ditchwitch	10/21/14, 1:09 pm	90.00
		Amount due (net):	90.00

Paid by: Account

Site address: 1300 Arlington, Virginia, 22209, 239 Grand Ave Delta 81416

. Crested Butte Rental 571 Riverland Dr Crested Butte, CO 81224 970-349-5508 27440003881701 COPY 10/22/2014 18:28:56 Sale: 1.2 Transaction # Uisa Card Type: Acc: **********************8647 Exp. Date: Swiped Entry: 1435 Invoice # 90.00 Amount: Reference No.: 0002 Auth.Code: 022733 Response: 254 Tax Amount: Cust Code: 1.00 CUSTOMER COPY

Phase 1:Hay Quality test

14 9 19 No. xtension MONEY RECEIPT Gunnison P Received of _ twent Dollars e taer For 00 Ca 5 \$ TOPS PORM 4161

Phase 2: Headgate Equipment

Dynotek Inc

13931 W 54th Ave Arvada, CO 80002

Invoice

Date	Invoice #
7/7/2014	140707-2

Ship To

Bill To	
Trout Unlimited Attn: Jesse Kruthaupt 604 Elsa Court Gunnison, CO 81230	

P.O. Number	r Terms	Rep	Ship	Via	F.O.	В.	Project
Acme Ditch	Net 30		7/7/2014	Hand Deliver	Arvada	a CO	
Quantity	Item Code	Code Description			Price Each	Amount	
	y Item Code Description Misc Solar powered, satellite-based monitoring system for measuring and reporting flow at the headgate flume and river level below the Acme Ditch diversion. Flow will be measured in a stilling well to be constructed and level will be measured by a pressure transducer located in a low spot in the creek. Both will be connected to a satellite modem that will send data to a hosted website maintained by AMCi of Golden, CO. The system will be compatible with an automated headgate actuator if the Ditch Company desires to upgrade at a later date and will include a LPU-2428-C10 Ultrasonic sensor for measurement of level in the stilling well.		el below a stilling a pressure ll be a hosted tem will the Ditch clude a	3,739.00	3,739.00		
	Slimline	Output, 0-5	psig range to be locate	ed in a pool in the c	reek about	750.00	750.00
	Slimline Dynotek Slimline Submersible Pressure Transmitter, 4-20mA Output, 0-5 psig range to be located in a pool in the creek about 50 ft. below the headgate to measure the status of the river flow. Misc Installation including all labor and materials for setup of the satellite modem, solar panel and all instrumentation. Client will be responsible for construction of the stilling well and trenching for all site cable.		Client will	3,130.00	3,130.00		
	1					Total	\$7,619.00

THANK YOU FOR SHOPPING AT FULLMER'S ACE HARDWARE (970) 641-1212

VISIT OUR WEBSITE AT WWW.FULLMERACE.COM

ALL RETURNS REQUIRE RECEIPT DATED WITHIN 60 DAYS AND ARE SUBJECT TO A RESTOCK FEE 6/24/14 10:18AM JUSTIN 554 SALE	
3339884 1 EA 6.49 EA CEMENT PVC ELECTR CLEAR 3 EA .59 EA COUPLING PVC 1/2" 1.77 1.77 43155 4 EA .39 EA CAP 1/2" SLIP PVC SCH40 1.56 3189420 1 EA COUPLING PVC 1/2" .59 EA .59 EA COUPLING PVC 1/2" .59 .59 EA .59 33230 4 EA 1.29 EA ELBOW PVC 90D SCH40 1/2" 5.16 .16 .17 EA CONDUIT PVC SCH 40 1/2" X10' .38.93 .93 .93	
SUB-TOTAL: 54.50 TAX: 4.50 TOTAL: 59.00 BC AMT: 59.00	
BK CARD#: XXXXXXXXXXXX39325 ID: 670120677499 AUTH: 024787 AMT: 59.00 Host reference #:577428 Bat#1070 SWIPED CARD TYPE:VISA EXPR: XXXX	
Bank card 59.00	
==>> JRNL#F77428 <-== CUST # *739	

ACE REWARDS ID # 1972413210

THANK YOU JESSE KRUTHAUPT FOR YOUR PATRONAGE

307

Name : X_ I agree to pay above total amount according to card issuer agreement (merchant agreement if credit voucher) Acct: GREG KRUTHAUPT

Phase 2: Head gate equipment install

HESTERN SLOPE CONNECTION 522 H GUNNISON H2 GUNNISON CO 81230 970-641-5171

Merchant ID: 27440004592903 Record Num.: 0001

Sale

××××××××××××9325 VISA	Entry Metho	d: Swiped
Amount: Tax:	\$	15.11 1.15
Total:	\$	16,26
06/30/14 Inv#: 000001 Apprvd: Online IRN Ref #: Validation Code:	Appr Code: (Batchil: 0 58418163150	: 32:55 330664 100683
SIGN X KRUTHAUPT JESSE	22	

CARDHOLDER AFKNOHLEDGES RECEIPT OF FUNDS IN THE AMOUNT OF THE TOTAL INDICATED AND AGREES TO PERFORM THE OBLIGATIONS NOTED IN THE CARDHOLDER'S AGREEMENT WITH THE ISSUER

THANK YOU! PLEASE COME AGAIN!

MERCHANT COPY

Phase 2: Head gate equipment install

THANK YOU FOR SHOPPING AT FULLMER'S ACE HARDWARE (970) 641-1212

VISIT OUR WEBSITE AT WWW.FULLMERACE.COM

ALL RETURNS REQUIRE RECEIPT DATED WITHIN 60 DAYS AND ARE SUBJECT TO A RESTOCK FEE 6/30/14 9:24AM SPENCER 553 SALE 41430 1 EA 7.99 EA 7.99 CAP MALL 2" GALV 5606439 1 EA 5.99 EA CONCRETE MIX 80# QUIKRETE 5.99 41382 1 LG 67.99 LG 67.99 2X10 FT G/STL PIPE 1/LG= 10FT PER LG- \$67.99 pe 81.97 TAX: 6.76 SUB-TOTAL: 88.73 TOTAL: 88.73 BC AMT: BK CARD#: XXXXXXXXXXXXX3325 ID: 670120677499 AUTH: 030011 AMT: 88,73 Host reference #:581839 Eat#1076 SWIPED EXPR: XXXX CARD TYPE:VISA

Bank card

88.73

нического составляется состав Составляется составляется составляется составляется составляется составляется составляется составляется составл

==>> JRNL#F81839 </== CUST # *739 ACE REWARDS ID # 1972413210

> THANK YOU JESSE KRUTHAUPT FOR YOUR PATRONAGE

Name : X_____ I agree to pay above total amount according to card issuer agreement (merchant agreement if credit voucher) Acct: GREG KRUTHAUPT

> YOU SAVED \$ 16.91 BY SHOPPING AT FULLMER'S ACE HARDWARE

> > RADIO SHACK #22-F903

Customer Copy

Phase 2: Head gate equipment install

THANK YOU FOR SHOPPING AT FULLMER'S ACE HARDWARE (970) 641-1212

VISIT OUR WEBSITE AT WWW.FULLMERACE.COM

ALL RETURNS REQUIRE RECEIPT 60 DAYS AND ARE SUBJECT TO # 6/30/14 11:51AM JUSTIN	A RESTOCK FEE	
BOLTS 4 EA BOLTS, NUTS, SCREWS	.14 EA	
BOLTS 4 EA	.07 EA	
BOLTS, NUTS, SCREWS BOLTS 4 EA BOLTS, NUTS, SCREWS	.11 EA .44	
28575 1 EA BIT DRILL13/64"COBALT CD	5.99 EA 5.99	
22147 2 EA BIT DRILL 1/8" COBALT CD	4.29 EA 8.58	
SUB-TOTAL: 15.85 TAX		
TOTAL. BC AMT:		

 BK CARD#:
 XXXXXXXXXXXXX9325

 ID:
 670120677499

 AUTH:
 030740
 AMT:
 17.16

 Host reference #:582057
 Bat#1076

 SWIPED
 CARD TYPE:VISA
 EXPR:
 XXXX

Bank card 17.16

==>> JRNL#F82057 <-== CUST # *739 ACE REWARDS ID # 1972413210

> THANK YOU JESSE KRUTHAUPT FOR YOUR PATRONAGE

Acct: GREG KRUTHAUPT

RADIO SHACK #22-F903

Customer Copy

Phase 2: Flow data Acme and Castle Creek Jesse Kruthaupt

From: Sent: To: Subject: American Millenium Corp <notifications@paytrace.com> Tuesday, July 29, 2014 11:22 AM Jesse Kruthaupt American Millenium Corp transaction receipt. 7/29/2014 11:21:59 AM Mountain -Invoice: 5000041

American Millenium Corp

17301 W Colfax Ave Suite 230 Golden, CO 80401 303-279-2002

7/29/2014 11:21:43 AM

Reference Number:61088082 Total: \$135.80 Transaction Type: Sale Transaction Status: Pending Settlement Card Type: Visa Card Number: xxxxxxxxx9325 Entry Method: Keyed 029915 Approval Code: Approval Message: EXACT MATCH AVS Result: Full Exact Match CSC Result: Match Customer Name: Rock House Ranch Invoice: 5000041

NRCS Time

	Site Visits,	Pivot/Big Gun	Bubbler	Irrigation	Total
	Survey,	design	Screen and	management	
	Meetings,	evaluation.	delivery pipe	Engineering	
	Inventory		design.		
David Drewry	8 hrs	40 hrs	20 hrs	2 hrs	70 hrs @
Engineer					\$75/hr
Montrose					\$5250
Field Office					
Liz With	20 hrs	4hrs		8 hrs	32 hrs @
Rangeland					\$25/hr
Management					\$800
Specialist					
Brook	10 hrs				10 hrs
Vasquez					\$250
Gunnison Soil					
Conservation					
District					
Total					\$6,300

Trout Unlimited time and expenses

	Coordination	Installation	Installation of	Total
	NRCS, contractors	monitoring	delivery pipe	
		equipment and	Pivot Construction	
		flow measurement		
Hours	62	65	84	184 @ \$25 \$5,275
Mileage	335	304	747	\$1386 @ .56
Expense				\$776.16
Total	\$1737.60	1,795.24	2518.32	\$6051.16

Rock House and other Acme ditch users time and expenses

	Installation	Installation of Delivery	Pivot	Total
	Monitoring	pipe	Construction	
	Equipment	Settling Structure		
Excavator	7hrs @ \$85/hr	86hrs @ \$85/hr		93@ \$85/hr
w/operator				\$7905
Dump		31hrs @ \$50/hr		31 @ \$50/hr
w/operator				\$1550
Loader		38hrs @ \$85/hr	6hrs @ \$85/hr	44 @ \$85/hr
w/operator				\$3,740
Labor	7hrs @ \$20/hr	34hrs @ \$20/hr	2hrs @ \$20/hr	43 @ \$20/hr
				\$860
Total	\$735	\$12,770	\$550	\$14,055

Appendix B: Forage Test results

Servi-Tech Laboratories

 Phone:
 402.463.3522

 800.557.7509

 Fax:
 402.463.8132

1602 Park West Dr. • PO Box 169 • Hastings, NE 68902

www.servitechlabs.com

Lab No.: 49387	FEED	ANALYSIS REPORT	Date Reported: 09/23/2014
Send To: 31200	GUNNISON COUNTY EXT ERIC MC PHAIL 275 S SPRUCE GUNNISON, CO 81230	ENSION	2014 Certified Chemistry More Nor Nor
Feedstuff Description: Sample Identification: Date Received: Invoice No.:	ROCK HOUSE 2014 09/22/2014		Hans Burken Agronomist
Feed Analysis Results	As Received	100% Dry Matter	
Moisture, %	12.7		
Dry Matter, %	87.3		
Crude Protein, %	6.8	7.8	
Acid Detergent Fiber, % A	DF 24.0	27.5	
Total Digestible Nutrients,	% TDN 62.3	71.3	
Net Energy, Maint, Mcal/lb	0.66	0.76	
Net Energy, Gain, Mcal/lb	0.42	0.48	
Net Energy, Lact, Mcal/lb	0.65	0.74	
Digestible Energy, Mcal/lb	1.25	1.43	
Met. Energy, Beef, Mcal/lb	0 1.02	1.17	

Servi-Tech Laboratories 1602 Park West Dr. • PO Box 169 • Hastings, NE 68902

Phone: 402.463.3522 800.557.7509 **Fax:** 402.462.8132

www.servitechlabs.com

Lab No.: 13215	FEED	ANALYSIS REPORT	Date Reported: 12/09/2013
Send To: 31200	GUNNISON COUNTY EXTEN ERIC MC PHAIL 275 S SPRUCE GUNNISON, CO 81230		2014 Certified Chemistry by NFTA Different ADF
Feedstuff Description: Sample Identification:	ROCKHOUSE RANCH 12/06/2013		Hans Bala Hans Burken Agronomist
eed Analysis Results	As Received	100% Dry Matter	
Moisture, %	14.7		
Dry Matter, %	85.3		
Crude Protein, %	5.2	6.1	
Acid Detergent Fiber, % ADF	26.4	30.9	
Total Digestible Nutrients, % T	DN 57.8	67.8	
Net Energy, Maint, Mcal/lb	0.61	0.71	
Net Energy, Gain, Mcal/lb	0.38	0.44	
Net Energy, Lact, Mcal/lb	0.60	0.70	
Digestible Energy, Mcal/lb	1.16	1.36	
Met. Energy, Beef, Mcal/lb	0.95	1.11	
Calcium, % Ca	0.35	0.40	

Servi-Tech Laboratories 1602 Park West Dr. • PO Box 169 • Hastings, NE 68902

Phone: 402.463.3522 800.557.7509 **Fax:** 402.462.8132

www.servitechlabs.com

Lab No.: 19588	FEED	ANALYSIS REPORT	Date Reported: 02/05/2013
Send To:	GUNNISON COUNTY EXTEN	ISION	WGE TESTING
	ERIC MC PHAIL		2014
31200	275 S SPRUCE		Certified Clar Chemistry
	GUNNISON, CO 81230		L by NFTA
			DM CP CP CP Concentration NDF
Results For:	MERRIFIELD		
Feedstuff Description:	MEADOW HAY		Have Bale
Sample Identification:	ROCK HOUSE		Hans Dale
Date Received:			
			Hans Burken
Invoice No.:	701680		Agronomist
eed Analysis Results	As Received	100% Dry Matter	
Moisture, %	11.5		
Dry Matter, %	88.5		
Crude Protein, %	8.9	10.1	
Acid Detergent Fiber, % ADF	27.2	30.7	
Tatal Dissatible Nutriante 0/		07.0	
Total Digestible Nutrients, %	TDN 60.0	67.8	
Net Energy, Maint, Mcal/lb	0.63	0.71	
inci Lincigy, Maint, Mcai/ID	0.05	0.71	
Net Energy Gain Mcal/lb	0 39	0 44	
Net Energy, Gain, Mcal/lb	0.39	0.44	
	0.39	0.44	
Net Energy, Gain, Mcal/lb Net Energy, Lact, Mcal/lb			
Net Energy, Lact, Mcal/lb	0.62	0.70	
Net Energy, Lact, Mcal/lb	0.62	0.70	
Net Energy, Lact, Mcal/lb Digestible Energy, Mcal/lb Met. Energy, Beef, Mcal/lb	0.62 1.20	0.70 1.36	
Net Energy, Lact, Mcal/lb Digestible Energy, Mcal/lb	0.62 1.20	0.70 1.36	
Net Energy, Lact, Mcal/lb Digestible Energy, Mcal/lb Met. Energy, Beef, Mcal/lb	0.62 1.20 0.98	0.70 1.36 1.11	

Appendix C: Flow Data

Acme Ditch and Castle Creek monitoring data 2014

Time	Date	Stream Stage		Stroom Flow (Elumo Elow	Total
12:38:01 AM	7/10/2014	-	0.72	45.28	18.88	64.16
1:38:00 AM			0.72	43.28	19.39	63.36
2:38:00 AM	7/10/2014		0.732	43.97	21.56	64.27
3:38:00 AM				42.71	18.71	62.68
4:38:01 AM	7/10/2014			43.97	20.24	62.08 64.21
5:38:00 AM	7/10/2014		0.732	43.97	18.13	59.61
						59.01
6:38:00 AM 7:38:00 AM	7/10/2014		0.704	37.99	18.21	
	7/10/2014 7/10/2014		0.678	36.9	17.14	54.04
8:38:01 AM	• •		0.736	34.8	19.56	54.36
9:38:00 AM	7/10/2014		0.681	34.8	17.26	52.06
10:08:24 AM	7/10/2014					0
10:29:25 AM	7/10/2014		0.041	21.00	15.00	0
10:34:10 AM	7/10/2014		0.641	31.88	15.66	47.54
12:38:00 PM	7/10/2014		0.669	30.96	16.78	47.74
4:23:00 PM	7/10/2014		0 74 0	22.0	40.70	0
4:24:01 PM	• •		0.718	33.8	18.79	52.59
4:27:44 PM	7/10/2014		0.769	32.83	20.98	53.81
1:38:01 AM	7/11/2014		0.776	46.62	21.29	67.91
1:38:00 PM	7/11/2014		0.727	34.8	19.17	53.97
1:38:01 AM	7/12/2014		0.776	45.28	21.29	66.57
1:38:00 PM	• •		0.678	30.96	17.14	48.1
1:38:00 AM	7/13/2014		0.704	45.28	18.21	63.49
1:38:00 PM	7/13/2014		0.769	28.36	20.98	49.34
1:38:01 AM	7/14/2014		0.789	32.83	21.87	54.7
1:38:00 PM	7/14/2014		0.396	33.8	7.22	41.02
1:38:01 AM	• •		0.431	40.28	8.28	48.56
1:38:00 PM	7/15/2014		0.389	30.96	7.02	37.98
1:38:01 AM	7/16/2014		0.392	37.99	7.11	45.1
1:38:00 PM	7/16/2014		0.38	34.8	6.76	41.56
1:38:00 AM	7/17/2014		0.38	36.9	6.76	
1:38:00 PM	7/17/2014		0.394	29.2	7.17	36.37
4:22:00 PM	7/17/2014					0
1:38:00 AM	7/18/2014		0.614	28.36	14.62	42.98
1:38:00 PM	7/18/2014	1.28	0.6	20.56	14.08	34.64
1:38:00 AM	7/19/2014		0.651	24.51	16.06	40.57
1:38:00 PM	7/19/2014	1.25	0.563	18.84	12.72	31.56
1:38:00 AM	7/20/2014	1.3	0.584	21.8	13.49	35.29
1:38:00 PM	7/20/2014	1.21	0.533	16.76	11.64	28.4
1:38:01 AM	7/21/2014	1.26	0.627	19.4	15.12	34.52
1:38:00 PM	7/21/2014	1.18	0.623	15.35	14.96	30.31
1:38:01 AM	7/22/2014	1.24	0.563	18.29	12.72	31.01
1:38:00 PM	7/22/2014	1.15	0.545	14.06	12.07	26.13
1:38:00 AM	7/23/2014	1.19	0.567	15.81	12.86	28.67
1:38:01 PM	7/23/2014	1.11	0.505	12.51	10.68	23.19
1:38:00 AM	7/24/2014	1.22	0.597	17.25	13.97	31.22

1:38:00 PM	7/24/2014	1.13	0.572	13.26	13.04	26.3
4:21:00 PM	7/24/2014					0
1:38:00 AM	7/25/2014	1.19	0.572	15.81	13.04	28.85
1:38:00 PM	7/25/2014	1.12	0.579	12.88	13.3	26.18
1:38:00 AM	7/26/2014	1.17	0.616	14.91	14.69	29.6
1:38:01 PM	7/26/2014	1.08	0.53	11.46	11.54	23
1:38:01 AM	7/27/2014	1.14	0.526	13.66	11.4	25.06
1:38:01 PM	7/27/2014	1.04	0.533	10.19	11.64	21.83
1:38:01 AM	7/28/2014	1.09	0.614	11.8	14.62	26.42
1:38:01 PM	7/28/2014	1.03	0.604	9.9	14.24	24.14
1:38:01 AM	7/29/2014	1.2	0.6	16.27	14.08	30.35
1:38:01 PM	7/29/2014	1.14	0.597	13.66	13.97	27.63
1:38:01 AM	7/30/2014	1.24	0.547	18.29	12.14	30.43
1:38:00 PM	7/30/2014	1.08	0.514	11.46	10.98	22.44
1:38:00 AM	7/31/2014	1.08	0.574	11.46	13.12	24.58
1:38:00 PM	7/31/2014	1.01	0.577	9.34	13.23	22.57
4:21:00 PM	7/31/2014					0
1:38:01 AM	8/1/2014	1.07	0.605	11.13	14.27	25.4
1:38:00 PM	8/1/2014	1	0.554	9.07	12.39	21.46
1:38:00 AM	8/2/2014	1.05	0.535	10.5	11.71	22.21
1:38:01 PM	8/2/2014	0.96	0.549	8.07	12.21	20.28
1:38:01 AM	8/3/2014	0.94	0.553	7.61	12.35	19.96
1:38:01 PM	8/3/2014	0.87	0.567	6.2	12.86	19.06
1:38:01 AM	8/4/2014	0.9	0.551	6.77	12.28	19.05
1:38:01 PM	8/4/2014	0.86	0.526	6.02	11.4	17.42
1:38:02 AM	8/5/2014	1.08	0.531	11.46	11.57	23.03
1:38:02 AM	8/5/2014 8/5/2014	1.18	0.551	15.35	12.53	23.03
1:38:01 AM	8/6/2014	1.19	0.237	15.81	3.17	18.98
1:38:00 PM	8/6/2014	1.13	0.205	13.26	2.51	15.77
1:38:00 AM	8/7/2014	1.14	0.2	13.66	2.41	16.07
1:38:00 PM	8/7/2014	1.09	0.205	11.8	2.51	14.31
4:20:00 PM	8/7/2014					0
1:38:00 AM	8/8/2014	1.09	0.2	11.8	2.41	14.21
1:38:00 PM	8/8/2014	1.07	0.198	11.13	2.37	13.5
1:38:00 AM	8/9/2014	1.07	0.214	11.13	2.69	13.82
1:38:01 PM	8/9/2014	1.05	0.196	10.5	2.33	12.83
1:38:01 AM	8/10/2014	1.05	0.186	10.5	2.15	12.65
1:38:00 PM	8/10/2014	1.04	0.219	10.19	2.79	12.98
1:38:00 AM	8/11/2014	1.04	0.223	10.19	2.87	13.06
1:38:00 PM	8/11/2014	1.01	0.225	9.34	2.79	12.13
1:38:01 AM	8/12/2014	1.02	0.2	9.62	2.41	12.03
1:38:00 PM	8/12/2014	1.01	0.221	9.34	2.83	12.17
1:38:00 AM	8/13/2014	1.02	0.228	9.62	2.98	12.6
1:38:00 PM	8/13/2014	1.01	0.219	9.34	2.79	12.13
1:38:00 AM	8/14/2014	1.01	0.239	9.34	3.21	12.55
1:38:00 PM	8/14/2014	1.03	0.244	9.9	3.32	13.22
4:19:00 PM	8/14/2014					0

1:38:01 AM	8/15/2014	1.02	0.233	9.62	3.08	12.7
1:38:00 PM	8/15/2014	1.1	0.002	12.15	0	12.15
1:38:01 AM	8/16/2014	1.1	0	12.15	0	12.15
1:38:00 PM	8/16/2014	1.09	0	11.8	0	11.8
1:38:01 AM	8/17/2014	1.1	0	12.15	0	12.15
1:38:00 PM	8/17/2014	1.07	0.059	11.13	0.34	11.47
1:38:01 AM	8/18/2014	1.08	0.055	11.46	0.3	11.76
1:38:01 PM	8/18/2014	1.00	0.055	11.13	0.3	11.43
1:38:01 AM	8/19/2014	1.07	0.059	11.13	0.34	11.45
1:38:00 PM	8/19/2014	1.07	0.033	11.13	0.2	11.33
1:38:00 PM 1:38:01 AM	8/19/2014 8/20/2014	1.07	0.043	12.51	0.24	12.75
1:38:01 AM 1:38:00 PM	8/20/2014 8/20/2014	1.11	0.047	12.31	0.24	12.75
1:38:01 AM	8/21/2014	1.09	0.041	11.8	0.19	11.99
1:38:01 PM	8/21/2014	1.07	0.032	11.13	0.13	11.26
4:18:00 PM	8/21/2014					0
1:38:01 AM	8/22/2014	1.04	0.119	10.19	1.05	11.24
1:38:00 PM	8/22/2014	1.06	0.11	10.81	0.92	11.73
1:38:01 AM	8/23/2014	1.14	0.105	13.66	0.86	14.52
1:38:01 PM	8/23/2014	1.26	0.122	19.4	1.09	20.49
1:38:00 AM	8/24/2014	1.3	0.106	21.8	0.87	22.67
1:38:00 PM	8/24/2014	1.19	0.084	15.81	0.6	16.41
1:38:00 AM	8/25/2014	1.14	0.108	13.66	0.9	14.56
1:38:00 PM	8/25/2014	1.11	0.099	12.51	0.78	13.29
1:38:00 AM	8/26/2014	1.1	0.106	12.15	0.87	13.02
1:38:00 PM	8/26/2014	1.09	0.098	11.8	0.77	12.57
1:38:00 AM	8/27/2014	1.34	0.114	24.51	0.98	25.49
1:38:00 PM	8/27/2014	1.21	0.11	16.76	0.92	17.68
1:38:00 AM	8/28/2014	1.25	0.103	18.84	0.83	19.67
1:38:00 PM	8/28/2014	1.34	0.108	24.51	0.9	25.41
4:17:00 PM	8/28/2014					0
1:38:01 AM	8/29/2014	1.27	0.103	19.97	0.83	20.8
1:38:00 PM	8/29/2014	1.19	0.091	15.81	0.68	16.49
1:38:00 AM	8/30/2014	1.15	0.099	14.06	0.78	14.84
1:38:01 PM	8/30/2014	1.14	0.094	13.66	0.72	14.38
1:38:00 AM	8/31/2014	1.12	0.099	12.88	0.78	13.66
1:38:00 PM	8/31/2014	1.12	0.075	12.50	0.5	13.00
1:38:00 AM	9/1/2014	1.11	0.075	12.51	0.74	13.25
1:38:00 AM	9/1/2014 9/1/2014	1.09	0.000	11.8	0.74	12.63
1:38:00 PM	9/1/2014 9/2/2014	1.03	0.103	11.8	0.69	12.03
1:38:00 PM	9/2/2014	1.08	0.108	11.46	0.9	12.36
1:38:00 AM	9/3/2014	1.06	0.082	10.81	0.58	11.39
1:38:00 PM	9/3/2014	1.06	0.098	10.81	0.77	11.58
1:38:01 AM	9/4/2014	1.05	0.089	10.5	0.66	11.16
1:38:00 PM	9/4/2014	1.05	0.08	10.5	0.55	11.05
4:17:00 PM	9/4/2014					0
1:38:01 AM	9/5/2014	1.12	0.096	12.88	0.74	13.62
1:38:00 PM	9/5/2014	1.07	0.096	11.13	0.74	11.87

1:38:01 AM	9/6/2014	1.05	0.094	10.5	0.72	11.22
1:38:01 PM	9/6/2014	1.05	0.084	10.5	0.6	11.1
1:38:00 AM	9/7/2014	1.04	0.08	10.19	0.55	10.74
1:38:00 PM	9/7/2014	1.04	0.082	10.19	0.58	10.77
1:38:00 AM	9/8/2014	1.03	0.089	9.9	0.66	10.56
1:38:01 PM	9/8/2014	1.03	0.08	9.9	0.55	10.45
1:38:00 AM	9/9/2014	1.06	0.099	10.81	0.78	11.59
1:38:00 PM	9/9/2014 9/9/2014	1.71	0.124	72.28	1.12	73.4
1:38:01 AM	9/10/2014	1.46	0.124	34.8	0.8	35.6
1:38:01 PM	9/10/2014	1.34	0.101	24.51	0.55	25.06
1:38:01 AM	9/11/2014 9/11/2014	1.28	0.084	20.56	0.55	23.00
1:38:01 AM 1:38:00 PM	9/11/2014 9/11/2014	1.28	0.084	18.84	0.0	19.61
4:16:00 PM	9/11/2014 9/11/2014	1.25	0.098	10.04	0.77	
		1 22	0.071	17.25	0.40	0
1:38:00 AM	9/12/2014	1.22	0.071	17.25	0.46	17.71
1:38:00 PM	9/12/2014	1.19	0.089	15.81	0.66	16.47
1:38:00 AM	9/13/2014	1.18	0.062	15.35	0.37	15.72
1:38:00 PM	9/13/2014	1.17	0.066	14.91	0.41	15.32
1:38:00 AM	9/14/2014	1.16	0.064	14.48	0.39	14.87
1:38:00 PM	9/14/2014	1.15	0.08	14.06	0.55	14.61
1:38:00 AM	9/15/2014	1.13	0.071	13.26	0.46	13.72
1:38:00 PM	9/15/2014	1.12	0.061	12.88	0.36	13.24
1:38:01 AM	9/16/2014	1.11	0.075	12.51	0.5	13.01
1:38:01 PM	9/16/2014	1.11	0.08	12.51	0.55	13.06
1:38:01 AM	9/17/2014	1.1	0.064	12.15	0.39	12.54
1:38:01 PM	9/17/2014	1.1	0.084	12.15	0.6	12.75
1:38:00 AM	9/18/2014	1.09	0.075	11.8	0.5	12.3
8:23:23 AM	9/18/2014	1.1	0.066	12.15	0.41	12.56
1:38:01 PM	9/18/2014	1.08	0.078	11.46	0.53	11.99
4:16:00 PM	9/18/2014					0
1:38:00 AM	9/19/2014	1.07	0.08	11.13	0.55	11.68
1:38:00 PM	9/19/2014	1.06	0.077	10.81	0.52	11.33
1:38:00 AM	9/20/2014	1.06	0.091	10.81	0.68	11.49
1:38:00 PM	9/20/2014	1.05	0.077	10.5	0.52	11.02
1:38:00 AM	9/21/2014	1.06	0.066	10.81	0.41	11.22
1:38:00 PM	9/21/2014	1.16	0.073	14.48	0.48	14.96
1:38:00 AM	9/22/2014	1.11	0.084	12.51	0.6	13.11
1:38:00 PM	9/22/2014	1.29	0.08	21.17	0.55	21.72
1:38:01 AM	9/23/2014	1.37	0.055	26.75	0.3	27.05
1:38:00 PM	9/23/2014	1.36	0.055	25.98	0.3	26.28
1:38:01 AM	9/24/2014	1.26	0.05	19.4	0.26	19.66
1:38:01 PM	9/24/2014	1.23	0.054	17.77	0.20	18.06
1:38:01 AM	9/24/2014 9/25/2014	1.23	0.034	16.27	0.29	16.47
1:38:01 AM 1:38:00 PM	9/25/2014 9/25/2014	1.18	0.043	15.35	0.2	15.61
		1.10	0.05	12.22	0.20	15.61 0
4:15:00 PM	9/25/2014	1 1 C	0.042	14 40	0.2	
1:38:00 AM	9/26/2014	1.16	0.043	14.48	0.2	14.68
1:38:00 PM	9/26/2014	1.15	0.034	14.06	0.14	14.2
1:38:01 AM	9/27/2014	1.14	0.022	13.66	0.07	13.73

1:38:00 PM	9/27/2014	1.14	0.043	13.66	0.2	13.86
1:38:01 AM	9/28/2014	1.13	0.036	13.26	0.15	13.41
1:38:00 PM	9/28/2014	1.21	0.05	16.76	0.26	17.02
1:38:00 AM	9/29/2014	1.18	0.036	15.35	0.15	15.5
1:38:00 PM	9/29/2014	1.18	0.029	15.35	0.11	15.46
1:38:01 AM	9/30/2014	1.22	0.027	17.25	0.1	17.35
1:38:00 PM	9/30/2014	1.18	0.047	15.35	0.24	15.59
1:38:00 AM	10/1/2014	1.19	0.039	15.81	0.17	15.98
1:38:00 PM	10/1/2014	1.2	0.033	16.27	0.2	16.47
1:38:00 AM	10/2/2014	1.24	0.045	18.29	0.17	18.46
1:38:00 AM	10/2/2014	1.19	0.058	15.81	0.17	16.15
4:15:00 PM	10/2/2014	1.19	0.039	15.81	0.54	10.15
1:38:00 AM	10/2/2014	1.2	0.036	16.27	0.15	16.42
1:38:00 PM	10/3/2014	1.17	0.05	14.91	0.26	15.17
1:38:00 AM	10/4/2014	1.17	0.029	14.91	0.11	15.02
1:38:00 PM	10/4/2014	1.16	0.048	14.48	0.24	14.72
1:38:00 AM	10/5/2014	1.16	0.036	14.48	0.15	14.63
1:38:00 PM	10/5/2014	1.15	0.066	14.06	0.41	14.47
1:38:00 AM	10/6/2014	1.14	0.041	13.66	0.19	13.85
1:38:00 PM	10/6/2014	1.13	0.047	13.26	0.24	13.5
1:38:00 AM	10/7/2014	1.13	0.038	13.26	0.17	13.43
1:38:00 PM	10/7/2014	1.12	0.036	12.88	0.15	13.03
1:38:01 AM	10/8/2014	1.12	0.038	12.88	0.17	13.05
1:38:00 PM	10/8/2014	1.11	0.029	12.51	0.11	12.62
1:38:01 AM	10/9/2014	1.1	0.043	12.15	0.2	12.35
1:38:01 PM	10/9/2014	1.13	0.032	13.26	0.13	13.39
4:15:00 PM	10/9/2014					0
1:38:01 AM	10/10/2014	1.22	0.031	17.25	0.12	17.37
1:38:00 PM	10/10/2014	1.17	0.034	14.91	0.14	15.05
1:38:00 AM	10/11/2014	1.19	0.043	15.81	0.2	16.01
1:38:00 PM	10/11/2014	1.16	0.05	14.48	0.26	14.74
1:38:00 AM	10/12/2014	1.15	0.041	14.06	0.19	14.25
1:38:00 PM	10/12/2014	1.17	0.047	14.91	0.24	15.15
1:38:01 AM	10/13/2014	1.18	0.041	15.35	0.19	15.54
1:38:00 PM	10/13/2014	1.15	0.05	14.06	0.26	14.32
1:38:00 AM	10/14/2014	1.18	0.055	15.35	0.3	15.65
1:38:00 PM	10/14/2014	1.14	0.062	13.66	0.37	14.03
1:38:00 AM	10/15/2014	1.16	0.038	14.48	0.17	14.65
1:38:00 PM	10/15/2014	1.13	0.05	13.26	0.26	13.52
1:38:00 AM	10/16/2014	1.14	0.05	13.66	0.26	13.92
1:38:00 PM	10/16/2014	1.13	0.052	13.26	0.28	13.54
4:15:00 PM	10/16/2014					0
1:38:01 AM	10/17/2014	1.14	0.047	13.66	0.24	13.9
1:38:01 PM	10/17/2014	1.12	0.057	12.88	0.32	13.2
1:38:01 AM	10/18/2014	1.11	0.045	12.51	0.22	12.73
1:38:00 PM	10/18/2014	1.1	0.045	12.15	0.22	12.79
1:38:00 AM	10/19/2014	1.11	0.048	12.51	0.24	12.55
1.00.007.00	10, 10, 2014	1.11	0.010	12.01	0.2	/ -

1:38:00 PM	10/19/2014	1.1	0.038	12.15	0.17	12.32
1:38:00 AM	10/20/2014	1.1	0.052	12.15	0.28	12.43
1:38:00 PM	10/20/2014	1.09	0.047	11.8	0.24	12.04
1:38:01 AM	10/21/2014	1.11	0.038	12.51	0.17	12.68
1:38:01 PM	10/21/2014	1.08	0.05	11.46	0.26	11.72
1:38:00 AM	10/22/2014	1.13	0.039	13.26	0.17	13.43
1:38:00 PM	10/22/2014	1.16	0.05	14.48	0.26	14.74
1:38:00 AM	10/23/2014	1.16	0.041	14.48	0.19	14.67
1:38:00 PM	10/23/2014	1.12	0.05	12.88	0.26	13.14
4:15:00 PM	10/23/2014					0
1:38:01 AM	10/24/2014	1.12	0.041	12.88	0.19	13.07
1:38:00 PM	10/24/2014	1.1	0.038	12.15	0.17	12.32
1:38:00 AM	10/25/2014	1.1	0.041	12.15	0.19	12.34
1:38:00 PM	10/25/2014	1.09	0.054	11.8	0.29	12.09
1:38:01 AM	10/26/2014	1.09	0.048	11.8	0.24	12.04
1:38:00 PM	10/26/2014	1.09	0.052	11.8	0.28	12.08
1:38:00 AM	10/27/2014	1.09	0.043	11.8	0.2	12
1:38:00 PM	10/27/2014	1.09	0.041	11.8	0.19	11.99
1:38:01 AM	10/28/2014	1.09	0.043	11.8	0.2	12
1:38:00 PM	10/28/2014	1.08	0.041	11.46	0.19	11.65
1:38:01 AM	10/29/2014	1.07	0.047	11.13	0.24	11.37
1:38:01 PM	10/29/2014	1.14	0.08	13.66	0.55	14.21
1:38:01 AM	10/30/2014	1.07	0.041	11.13	0.19	11.32
1:38:01 PM	10/30/2014	1.07	0.052	11.13	0.28	11.41
4:15:00 PM	10/30/2014					0
1:38:01 AM	10/31/2014	1.07	0.036	11.13	0.15	11.28