CITY OF CREEDE **MEETING AGENDA** **CREEDE TOWN HALL**
BOARD OF TRUSTEES **November 20, 2018 5:30pm** **2223 N. Main Street**

SPECIAL MEETING, 5:30 P.M.

I. CALL TO ORDER

II. PLEDGE OF ALLEGIANCE

III. ROLL CALL

IV. REVIEW AGENDA

V. NEW BUSINESS
   a. Consider Private Event Permit – Pond Hockey Tournament 1/18/19-1/20/19
   b. Review Letter Concerning Motorized Usage on Willow Creek Trail

VI. MANAGERS REPORT

VII. ADJOURN

REGULAR WORK SESSION (Following Mtg)

- Reports & Presentations – Public Works, Recreation Department
- City Manager Succession Plan/Schedule
- Any Other Business

OPEN TO THE PUBLIC
Posted 11/16/17

PRIVATE EVENT PERMIT APPLICATION

City of Creede
2223 N Main Street
Creede, CO 81130
(719-)658-2276

Name: Tommyknocker Tavern and Kid's Grill for Creede Athletics

Address: P.O. Box 158 Creede, CO 81130

Business/Organization (if applicable):

Phone: 719 588 1625 Email:

Description of Event: Pond Hockey Tourney

Date and Times of Set-Up: 1/18/19 - 1/20/19

Dates and Times of Event: 7:00 AM - 9:00pm

Dates and Times of Tear-Down: 1/20/19 5:00pm

Location of Event: Silver Ice Park
(attach map if applicable)

Estimated Number of People Expected to Attend this Event: 200

I have read, fully understand, and agree to the terms of this Private Event Permit, any attached pages, and the City of Creede's Public Property Event Policy and Procedures:

Applicant: [signature] 11/13/18 Date

City Clerk: Date

SHERIFF'S DEPARTMENT NOTIFICATION: [signature] 11/13/18 Date

Pre-Event Site inspection by: City_____ Applicant _____ Date and Time:_____

Post-Event Site inspection by: City_____ Applicant _____ Date and Time:_____

FOR ADMINISTRATIVE USE ONLY

Application Received 11/13/18 Fee 50.00 Date Paid 11/13/18

License Agreement Attached? Y ☒ N ☐ Proof of Insurance Attached? Y ☒ N ☐

Board of Trustees Meeting Date_____

Approved by Board of Trustees this _____ day of _____, 20 _____

Attest: _____ City Clerk

RECEIVED
11/1/18 RB

9/26/18

To Whom it may Concern
Re: Motorized usage on Willow Creek Trail

I walk my dogs on the Willow Creek trail daily, and have been witness to several situations regarding ATV, UTV, dirt bikes and unauthorized vehicles. There is ~~one~~ no one policing the usage or enforcing the laws. I have witnessed many speeding users - both locals and visitors. I have personally flagged some of ~~these~~ people down to ask them to go the posted 15 MPH speed limit and have met resistance including being cussed at. I think if you are going to allow motorized usage of any kind you need to have someone enforcing the laws before a child or pet is killed/injured by someone going 35+ MPH. I know for a fact other people feel the same way I do.

This situation has gotten so bad when I am out I avoid the trail staying close to the water. It makes me sad that I have to fear for the lives of my dogs each time we are out. I am a UTV owner and understand how

while it is to use this trail. Lack of something isn't done to stop the blatent speeding, I fear the consiquences will far outweigh the convenience.

Furthermore, I know Willow Creek committee members and volunteers tend to drive down the trail, and I feel this goes against the idea of reclamation. Unless it is necessary to move equipment these users should have to leave their vehicles at one end or the other, and walk. Someone claiming they can't walk that short of a distance has no business walking on the trail!

Sincerely
Shawna Leggitt

Shawna Leggitt

Manager's Report

To: Mayor and Board of Trustees
Date: November 20, 2018
From: Clyde Dooley

2018 Water Augmentation Report - FYI

Attached is our water report for the state this year.

Well Permit Applications - FYI

Attached are the four permits requesting the piezometer well's drilled for our flume project be made permanent by the state.

CDPHE / R & G Associates – FYI

Krisen and I've been working with Lis at RG&A and Erick Worker at CDPHE getting the paper work submitted. Krisen, Lis, and Erick danced with the computer program a couple days to get that submitted. I've attached the 20 year estimated budget for the project and am working with Lis on getting the best numbers.

Resolution for GOCO Inspire grant - FYI

There was some confusion with the GOCO Inspire grant, as you can see from the email narrative attached. In an effort to help resolve things I prepared the attached resolution. Krisen met with Catherine last week and it may not be needed, but just in case.

Budget Resolutions – FYI

Back in August or September, the Trustees asked Randi to do the budget for 2019 and she talked with us about it at our annual retreat. Another discussion we've had was to wait for Louis to plug in the final numbers since it's going to be his to manage. I'll try and can calculate the mill levy because that's pretty straight forward.

Creede America Minor Subdivision – FYI

Avery brought in an application last Thursday to replat two of the Creede America lots into one. That falls under our minor subdivision regulations and only requires a public hearing with the Board of Trustees for their discussion and decision. At first glance, it looks like we should be able to put this on the January 8th, 2019 agenda providing we get notice to the paper by the 13th of December and posted and to property owners within 300 feet by the 20th of December.

Mineral County Fairgrounds – FYI

Jim Mietz called me last week and said the fairgrounds is about finished with their water line and they may need additional water for the summer months. I gave him a brief description of our water rights and added we prefer to lease water than sell water rights.

He doesn't have any numbers yet, but wanted the Trustees to be aware of this when the time comes. I explained this is a long process involving our water attorney and the state, so the earlier he can get us numbers, the better.

	1995 CU-AF Base	Irrigated Area - Acres	Unit Transpiration-AF	Total Irrigation CU-AF	Lagoon Evaporation-AF	# New Residences/Est. EQR	Unit CU per Residence AF/ea	CU-New Residences - AF	Summer Residences	Unit CU per Residence AF/ea	CU for Summer Residences - AF	Other See attached-AF	Total CU - AF	Nelson Tunnel - cfs	Creede Total Nelson Tunnel - AF	Creede Total Cochran Pioneer - AF	Total Credits - AF	Surplus (Deficit) - AF
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Nov.	0.17	14	0.00	0.0	0.23	30	0.0016	0.048	10	0.0015	0.0150	0.000	0.46	0.50	29.75	2.4	32.15	31.68
Dec,	0.18	14	0.00	0.0	0.0	30	0.0017	0.051	10	0.0015	0.0150	0.000	0.25	0.50	30.74	0.5	31.24	30.99
Jan.	0.18	14	0.00	0.0	0.0	30	0.0017	0.051	10	0.0015	0.0150	0.000	0.25	0.50	30.74	0.5	31.24	30.99
Feb.	0.16	14	0.00	0.0	0.0	30	0.0015	0.045	10	0.0015	0.0150	0.000	0.22	0.50	27.76	0.5	28.26	28.04
Mar.	0.18	14	0.00	0.0	0.0	30	0.0017	0.051	10	0.0015	0.0150	0.000	0.25	0.50	30.74	0.5	31.24	30.99
Apr.	0.17	14	0.00	0.0	0.46	30	0.0016	0.048	10	0.0015	0.0150	1.636	2.33	0.50	29.75	4.3	34.05	31.72
May	0.18	14	0.30	4.2	0.59	30	0.0017	0.051	10	0.0015	0.0150	1.477	6.51	0.50	30.74	5.4	36.14	29.62
Jun.	0.44	14	0.41	5.74	0.72	31	0.0017	0.0527	11	0.0015	0.0165	0.000	6.97	0.50	29.75	6.5	36.25	29.28
Jul.	0.46	14	0.39	5.46	0.72	31	0.0017	0.0527	11	0.0015	0.0165	0.068	6.78	0.50	30.74	6.5	37.24	30.46
Aug.	0.46	14	0.14	1.96	0.63	31	0.0017	0.0527	11	0.0015	0.0165	1.401	4.52	0.50	30.74	5.7	36.44	31.92
Sept.	0.44	14	0.11	1.54	0.49	32	0.0017	0.0544	12	0.0015	0.0180	0.002	2.54	0.50	29.75	4.6	34.35	31.80
Oct.	0.18	14	0.06	0.84	0.34	32	0.0017	0.0544	12	0.0015	0.0180	0.260	1.69	0.50	30.74	3.3	34.04	32.34
Total	3.20		1.41	19.74	4.18		0.020	0.612		0.0180	0.1905	4.844	32.77		361.90	40.70	402.60	369.83

Notes: Residence additions are accumulated from 1995 base
Column (1) as stipulated in Case 94CW31
Column (4) = (2) x (3)
Column (8) = (6) x (7)
Column (11) = (9) x (10)
Column (15) = (14) x No. of days in Month x 1.983
Column (17) = (15) + (16b)
Column (18) = (17) - (13)
Gray = Fixed Numbers

Prepared by: Clyde Dooley

Date: Nov. 15, 2018

7

Column 12 calculations

	County	RGS	Other		Total	AF
Nov.		0			0	0.000
Dec.		0			0	0.000
Jan.		0			0	0.000
Feb.		0			0	0.000
Mar.		0			0	0.000
Apr.	532,000	0	Dalby	550	532,550	1.636
May	480,000	0	Misc	950	480,950	1.477
Jun.		0			0	0.000
Jul.		0	MCFA	22,000	22,000	0.068
Aug.	408,000	0	Mayer/MCFA	48,000	456,000	1.401
Sept.	0	0	Dalby	550	550	0.002
Oct.	80,000	0	Hamel/Slick	4,500	84,500	0.260
	1,500,000	0		76,550	1,576,550	4.842

City of Creede

Well Production (gal)

11/8/2018

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Average
Jan.	5,597,300	6,486,100	6,282,900	6,265,700	5,345,100	5,701,433	6,321,400	6,873,900	7,584,100	7,256,600	6,371,453
Feb.	5,413,000	6,436,100	5,655,000	5,784,200	4,580,700	5,239,898	5,191,500	6,328,300	7,326,700	5,787,200	5,774,260
Mar	6,728,900	6,453,900	6,187,800	6,368,000	5,195,400	5,692,500	5,897,400	6,056,700	7,062,000	6,611,200	6,225,380
Apr	6,807,400	6,124,600	6,055,200	7,842,100	5,874,100	5,036,900	5,616,600	6,815,600	8,654,500	6,430,700	6,525,770
May	7,045,200	10,977,700	8,751,800	10,046,400	6,941,200	8,984,500	8,373,200	10,636,600	9,312,700	10,133,600	9,120,290
Jun	10,578,900	13,495,700	11,391,200	11,621,200	9,492,000	10,287,000	11,514,900	11,614,700	11,981,800	15,361,100	11,733,850
Jul	10,354,100	10,187,400	8,291,200	9,325,500	9,872,700	9,109,300	10,528,800	9,206,600	12,874,800	12,779,900	10,253,030
Aug	7,311,700	8,544,900	6,936,900	9,365,200	7,146,100	7,918,000	8,598,900	7,941,200	9,623,900	10,530,700	8,391,750
Sep	6,725,100	7,788,400	5,547,200	5,449,100	5,561,200	7,243,300	6,966,100	7,579,000	5,820,300	9,972,300	6,865,200
Oct	6,442,500	6,417,200	6,125,600	5,224,400	5,686,200	5,579,300	6,145,400	7,426,000	5,962,500	7,023,300	6,203,240
Nov	6,582,200	6,555,300	6,087,600	5,679,700	5,383,900	4,900,900	6,192,200	6,897,800	5,437,600	7,030,100	6,074,730
Dec	6,841,900	6,238,800	6,413,900	5,490,100	5,303,100	5,811,600	6,673,900	7,067,700	5,287,600	7,148,000	6,227,660
Total	86,428,200	95,706,100	83,726,300	88,461,600	76,381,700	81,504,631	88,020,300	94,444,100	96,928,500	106,064,700	89,766,613
Avg.	7,202,350	7,975,508	6,977,192	7,371,800	6,365,142	6,792,053	7,335,025	7,870,342	8,077,375	8,838,725	7,480,551
365	236,790	262,208	229,387	242,361	209,265	223,300	241,152	258,751	265,558	290,588	245,936

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	Average
Jan.	7,455,000	6,479,100	7,294,800	5,764,400	5,712,100	4,873,800	5,248,300	7,693,900	6,228,900	6,087,400	6,283,770
Feb.	7,443,100	6,644,000	6,535,900	5,173,200	5,052,600	4,527,500	4,712,700	5,861,200	5,636,900	5,339,700	5,692,680
Mar	7,030,900	8,421,700	7,942,100	5,888,500	3,202,800	5,188,300	4,607,400	6,793,600	6,095,100	6,531,300	6,170,170
Apr	6,149,700	8,531,800	10,203,700	7,489,100	8,363,300	5,010,400	5,000,000	7,834,700	6,864,600	6,881,700	7,232,900
May	8,187,500	10,015,300	11,719,300	9,258,300	9,300,500	6,291,500	5,738,300	8,821,500	8,952,000	10,685,000	8,896,920
Jun	8,887,000	15,161,800	15,982,700	13,152,000	12,371,100	11,394,900	8,623,700	13,070,900	12,957,900	14,513,600	12,611,560
Jul	11,299,300	12,428,600	10,648,900	8,560,200	9,905,300	9,900,800	8,830,600	13,229,200	10,554,100	11,276,300	10,663,330
Aug	10,569,800	9,499,300	10,288,600	6,968,000	6,464,000	5,908,300	**9,169,200**	9,450,000	8,838,600	9,666,300	8,682,210
Sep	7,864,900	8,578,200	7,390,200	6,316,800	6,325,800	7,174,400	7,954,900	7,644,600	8,189,300	8,561,600	7,600,070
Oct	8,443,500	6,568,500	**5,876,900**	5,443,700	4,320,800	5,867,700	6,313,300	6,549,800	6,638,000	7,123,100	6,314,530
Nov	7,896,100	7,107,400	4,832,800	4,326,700	3,634,400	5,560,100	5,601,000	6,470,800	5,946,900		
Dec	7,124,500	6,474,200	5,282,700	4,968,800	5,068,700	5,061,200	5,592,504	6,866,400	6,580,200		
Total	98,351,300	105,909,900	103,998,600	83,309,700	79,721,400	76,758,900	77,391,904	100,286,600	93,482,500		
Avg.	8,195,942	8,825,825	8,666,550	6,942,475	6,643,450	6,396,575	6,449,325	8,357,217	7,790,208		
			New lines				**school**				
		Saved	1,911,300	22,600,200	26,188,500	29,151,000	28,517,996	5,623,300	12,427,400		
365	269,456	290,164	284,928	228,246	218,415	210,298	212,033	274,758	256,116		

Well Production (gal)

Nelson Tunnel Flow Measurements

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Jan.			.65 cfs		.80 cfs						
Feb.											
Mar	.73 cfs	.67 cfs	.70 cfs	.82 cfs	.78 cfs	.87 cfs	.69 cfs	.76 cfs	.82 cfs	.82 cfs	.82 cfs
Apr											
May											
Jun		.69 cfs									
Jul	.69 cfs	.71 cfs	.78 cfs	.80 cfs	.82 cfs	.80 cfs	.78 cfs	.82 cfs	.85 cfs	1.08 cfs	.82 cfs
Aug											
Sep						.78 cfs					
Oct	.73 cfs	.71 cfs	.82 cfs	.73 cfs	.80 cfs	.67 cfs	.71 cfs	.80 cfs	.89 cfs	.87 cfs	.80 cfs
Nov						.69 cfs					
Dec											

The original reading for the Oct. 2013 reading was .73 cfs.
The staff was replaced on Oct. 5, 2013 & because of a descrepency on the staff the new reading is .67 cfs ! ! !
RGS stopped dewatering on Oct. 24 for 2013.

Irrigation water reading for new school

6/30/16	372,000	
7/31/16	613,000	
8/31/16	682,000	
9/30/16	749,000	
10/31/16	774,000	
11/30/16	774,000	
12/31/16	774,000	<774,000>
5/31/17	904,000	
6/30/17	1,245,000	
7/31/17	1,428,000	
8/31/17	1,475,000	
9/29/17	1,720,000	<946,000>
9/31/18	2,252,000	

Well Production (gal)

1998	1997
8,109,100	5,775,800
6,989,900	6,160,000
7,374,100	6,705,900
7,259,700	6,451,500
10,752,400	8,789,900
13,736,700	11,223,000
6,444,000	11,557,000
6,563,400	7,197,600
3,033,100	6,031,600
8,573,500	6,748,300
17,840,400	7,029,500
8,205,700	6,438,200
104,882,000	90,108,300
8,740,167	7,509,025
287,348	246,872

Pump Hours

2018

	Booster #1			Booster #2			Well #1			Well #2			
	Begin	End	Total	Begin	End	Total	Begin	End	Total	Begin	End	Total	
Jan	17521	17521	0	22463	22696	233	15179	15283	104	27215	27371	156	493
Feb	17521	17521	0	22696	22905	209	15283	15369	86	27371	27511	140	435
Mar	17521	17521	0	22905	23112	207	15369	15443	74	27511	27664	153	434
Apr	17521	17521	0	23112	23372	260	15443	15582	139	27664	27810	146	545
May	17521	17521	0	23372	23788	416	15582	15871	289	27810	27984	174	879
Jun	17521	17521	0	23788	24312	524	15871	16304	433	27984	28148	164	1121
Jul	17521	17521	0	24312	24751	439	16304	16610	306	28148	28342	194	939
Aug	17521	17521	0	24751	25124	373	16610	16845	235	28342	28531	189	797
Sep	17521	17521	0	25124	25418	294	16845	17027	182	28531	28683	152	628
Oct	17521	17521	0	25418	25723	305	17027	17196	169	28683	28858	175	649
Nov	17521	17521	0			0			0			0	0
Dec	17521	17521	0			0			0			0	0
Total			0	**Total**		3260	**Total**		2017	**Total**		1643	6920

2017

	Booster #1			Booster #2			Well #1			Well #2			
	Begin	End	Total	Begin	End	Total	Begin	End	Total	Begin	End	Total	
Jan	17521	17521	0	18995	19221	226	14329	14329	0	24360	24606	246	472
Feb	17521	17521	0	19221	19427	206	14329	14329	0	24606	24821	215	421
Mar	17521	17521	0	19427	19659	232	14329	14329	0	24821	25062	241	473
Apr	17521	17521	0	19659	19920	261	14329	14329	0	25062	25334	272	533
May	17521	17521	0	19920	20228	308	14329	14329	0	25334	25652	318	626
Jun	17521	17521	0	20228	20733	505	14329	14492	163	25652	26021	369	1037
Jul	17521	17521	0	20733	21136	403	14492	14700	208	26021	26258	237	848
Aug	17521	17521	0	21136	21475	339	14700	14830	130	26258	26498	240	709
Sep	17521	17521	0	21475	21772	297	14830	14950	120	26498	26700	202	619
Oct	17521	17521	0	21772	22011	239	14950	15019	69	26700	26888	188	496
Nov	17521	17521	0	22011	22240	229	15019	15097	78	26888	27059	171	478
Dec	17521	17521	0	22240	22463	223	15097	15179	82	27059	27215	156	461
Total			0	**Total**		3468	**Total**		850	**Total**		2855	7173

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
1313 SHERMAN ST., Ste 821, DENVER CO 80203
Phone: (303) 866-3581 Fax: (303) 866-2223 dwrpermitsonline@state.co.us

Office Use Only

Form GWS-46 (11/2011)

MONITORING/OBSERVATION Water Well Permit Application

Review instructions on reverse side prior to completing form.
The form must be typed, completed online or in black or blue ink.

1. Well Owner Information

Name of well owner: City of Creede

Mailing address: PO Box 457

City	State	Zip code
Creede	CO	81130

Telephone #	E-Mail (If filing online it is required)
719-658-2276	manager@creedetownhall.com

2. Type Of Application (check applicable boxes)

- [x] Use existing well
- [ ] Construct new well
- [ ] Other:
- [ ] Replacement for existing monitoring well: Permit no.:

3. Refer To (if applicable)

Monitoring hole acknowledgment	Well name or #
MH- 57509	CPZ-1

4. Location Of Proposed Well (Important! See Instructions)

County: Mineral

SE 1/4 of the SE 1/4

Section	Township	N or S	Range	E or W	Principal Meridian
25	42	[x] N [ ] S	1	[ ] E [x] W	NM

Distance of well from section lines (section lines are typically not property lines)
Ft. from [ ] N [ ] S Ft. from [ ] E [ ] W

For replacement wells only – distance and direction from old well to new well
feet direction

Well location address (Include City, State, Zip) [x] Check if well address is same as Item 1.
North Main Street

Optional: GPS well location information in UTM format
You must check GPS unit for required settings as follows:

Format must be UTM
[ ] Zone 12 or [x] Zone 13
Units must be Meters
Datum must be NAD83
Unit must be set to true north
Was GPS unit checked for above? [ ] YES

Easting 330446
Northing 4191565
Remember to set Datum to NAD83

5. Property Owner Information

Name of property owner: City of Creede

Mailing address: PO Box 457

City	State	Zip Code
Creede	CO	81130

Telephone #: 719-658-2276

6. Use Of Well

Use of this well is limited to monitoring water levels and/or water quality sampling

7. Well Data (proposed)

Total depth	Aquifer
11.5 feet	Rio Grande

8. Consultant Information (if applicable)

Name of contact person: Alan Hotchkiss

Company name: Yeh and Associates

Mailing address: 570 Turner Drive Suite D

City	State	Zip Code
Durango	CO	81303

Telephone #: 970-382-9590

9. Proposed Well Driller License #(optional):

10. Name of Well Owner or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign or enter full name here	Date (mm/dd/yyyy)
Clyde Dooley	11/07/2018

If signing print name. Print title if other than land owner.
City Manager

Office Use Only

USGS map name	DWR map no.	Surface elev.

Receipt area only

DIV ____ WD ____ BA ____ MD ____

Form No. GWS-31 02/2017	**WELL CONSTRUCTION AND YIELD ESTIMATE REPORT** State of Colorado, Office of the State Engineer 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us	For Office Use Only

1. Well Permit Number: MH-57509 **Receipt Number:**

2. Owner's Well Designation: CPZ-1

3. Well Owner Name: City of Creede

4. Well Location Street Address: North Main Street, Creede, CO 81130

5. As Built GPS Well Location (required): ☐ Zone 12 ☒ Zone 13 Easting: 330446.0 Northing: 4191565

6. Legal Well Location: SE 1/4, SE 1/4, Sec., 25 Twp. 42 ☒ N or S ☐, Range 1 ☐ E or W ☒, NM P.M.

County: Rio Grande

Subdivision: _____, Lot ____, Block _____, Filing (Unit) _____

7. Ground Surface Elevation: 8,858 feet **Date Completed:** 12/27/2017 **Drilling Method:** Odex Air Hammer

8. Completed Aquifer Name : Rio Grande **Total Depth:** 11.5 feet **Depth Completed:** 11.5 feet

9. Advance Notification: Was Notification Required Prior to Construction? ☐ Yes ☒ No, Date Notification Given: _____

10. Aquifer Type: (Check one)
☐ Type I (One Confining Layer) ☐ Type I (Multiple Confining Layers) ☐ Laramie-Fox Hills
☐ Type II (Not overlain by Type III) ☐ Type II (Overlain by Type III) ☒ Type III (alluvial/colluvial)

11. Geologic Log:

Depth	Type	Grain Size	Color	Water Loc.
0.0	sand	gravel/bouldr	brown	
8.5	sand	gravel/bouldr	brown	
11.5	volcanic tuff	pyroclastic	gray	9.5 ft.

12. Hole Diameter (in.)

	From (ft)	To (ft)
6	0.0	11.5

13. Plain Casing

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
2	PVC	1/2	0.0	11.5

Perforated Casing Screen Slot Size (in): _____

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)

14. Filter Pack:
Material _____
Size _____
Interval _____

15. Packer Placement:
Type _____
Depth _____

16. Grouting Record

Material	Amount	Density	Interval	Method

Remarks:

17. Disinfection: Type Amt. Used

18. Well Yield Estimate Data: ☐ Check box if Test Data is submitted on Form Number GWS-39, Well Yield Test Report

Well Yield Estimate Method: _____

Static Level: 9.5 ft

Date/Time measured: 12/27/17 12:45 PM

Estimated Yield (gpm) _____

Estimate Length (hrs) _____

Remarks:

19. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402 2. The filing of a document that contains false statements is a violation of section 37 91 108(1)(e), C.R.S., and is punishable by fines up to $1,000 and/or revocation of the contracting license. If filing online the State Engineer considers the entry of the licensed contractor's name to be compliance with Rule 17.4.

Company Name:	Email:	Phone w/area code:	License Number:
Yeh and Associates, Inc.	ahotchkiss@yeh-eng.com	(970) 382-9590	

Mailing Address: 570 Turner Drive, Suite D, Durango, CO 81303

Sign (or enter name if filing online)	Print Name and Title	Date:
Alan Hotchkiss	Alan Hotchkiss, Sr. Geologist	01/30/2018

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
1313 SHERMAN ST., Ste 821, DENVER CO 80203
Phone: (303) 866-3581 Fax: (303) 866-2223 dwrpermitsonline@state.co.us

Office Use Only

Form GWS-46 (11/2011)

MONITORING/OBSERVATION Water Well Permit Application

Review instructions on reverse side prior to completing form.
The form must be typed, completed online or in black or blue ink.

1. Well Owner Information

Name of well owner: City of Creede

Mailing address: PO Box 457

City	State	Zip code
Creede	CO	81130

Telephone #	E-Mail (If filing online it is required)
719-658-2276	manager@creedetownhall.com

2. Type Of Application (check applicable boxes)

- [x] Use existing well
- [ ] Construct new well
- [ ] Other:
- [ ] Replacement for existing monitoring well: Permit no.:

3. Refer To (if applicable)

Monitoring hole acknowledgment	Well name or #
MH- 57509	CPZ-2

4. Location Of Proposed Well (Important! See Instructions)

County: Mineral

SE 1/4 of the SE 1/4

Section	Township	N or S	Range	E or W	Principal Meridian
25	42	[x] N [ ] S	1	[ ] E [x] W	NM

Distance of well from section lines (section lines are typically not property lines)
Ft. from [ ] N [ ] S Ft. from [ ] E [ ] W

For replacement wells only – distance and direction from old well to new well
feet direction

Well location address (Include City, State, Zip) [x] Check if well address is same as Item 1.
Cliff Street

Optional: GPS well location information in UTM format
You must check GPS unit for required settings as follows:

Format must be UTM
[ ] Zone 12 or [x] Zone 13
Units must be Meters
Datum must be NAD83
Unit must be set to true north
Was GPS unit checked for above? [ ] YES

Easting 330516
Northing 4191308
Remember to set Datum to NAD83

5. Property Owner Information

Name of property owner: City of Creede

Mailing address: PO Box 457

City	State	Zip Code
Creede	CO	81130

Telephone #: 719-658-2276

6. Use Of Well

Use of this well is limited to monitoring water levels and/or water quality sampling

7. Well Data (proposed)

Total depth	Aquifer
11.6 feet	Rio Grande

8. Consultant Information (if applicable)

Name of contact person: Alan Hotchkiss

Company name: Yeh and Associates

Mailing address: 570 Turner Drive Suite D

City	State	Zip Code
Durango	CO	81303

Telephone #: 970-382-9590

9. Proposed Well Driller License #(optional):

10. Name of Well Owner or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign or enter full name here	Date (mm/dd/yyyy)
Clyde Dooley	11/07/2018

If signing print name. Print title if other than land owner.
City Manager

Office Use Only

USGS map name	DWR map no.	Surface elev.

Receipt area only

DIV ____ WD ____ BA ____ MD ____

Form No. GWS-31 02/2017	**WELL CONSTRUCTION AND YIELD ESTIMATE REPORT** State of Colorado, Office of the State Engineer 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us	For Office Use Only

1. Well Permit Number: MH 57509 **Receipt Number:**

2. Owner's Well Designation: CPZ-2

3. Well Owner Name: City of Creede

4. Well Location Street Address: Cliff Street

5. As Built GPS Well Location (required): ☐ Zone 12 ☒ Zone 13 Easting: 330516.0 Northing: 4191308

6. Legal Well Location: SE 1/4, SE 1/4, Sec., 25 Twp. 42 ☒ N or S ☐, Range 1 ☐ E or W ☒, NM P.M.

County: Rio Grande

Subdivision: _____, Lot ____, Block _____, Filing (Unit) _____

7. Ground Surface Elevation: 8,865 feet **Date Completed:** 12/28/2017 **Drilling Method:** ODEX Air Hammer

8. Completed Aquifer Name : Rio Grande **Total Depth:** 12.0 feet **Depth Completed:** 11.6 feet

9. Advance Notification: Was Notification Required Prior to Construction? ☐ Yes ☒ No, Date Notification Given: _____

10. Aquifer Type: (Check one)
☐ Type I (One Confining Layer) ☐ Type I (Multiple Confining Layers) ☐ Laramie-Fox Hills
☐ Type II (Not overlain by Type III) ☐ Type II (Overlain by Type III) ☒ Type III (alluvial/colluvial)

11. Geologic Log:

Depth	Type	Grain Size	Color	Water Loc.
0.0	sand	gravel/bouldr	brown	
3.0	volcanic tuff	gravel/bouldr	brown	
12.0	volcanic tuff	pyroclastic	gray	

12. Hole Diameter (in.)

	From (ft)	To (ft)
6	0.0	12.0

13. Plain Casing

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
2	PVC	1/2	0.0	11.6

Perforated Casing Screen Slot Size (in): _____

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)

14. Filter Pack:
Material _____
Size _____
Interval _____

15. Packer Placement:
Type _____
Depth _____

16. Grouting Record

Material	Amount	Density	Interval	Method

Remarks:

17. Disinfection: Type Amt. Used

18. Well Yield Estimate Data: ☐ Check box if Test Data is submitted on Form Number GWS-39, Well Yield Test Report

Well Yield Estimate Method: _____

Static Level: 9.0

Date/Time measured: 12/28/2017 11:05 AM

Estimated Yield (gpm) _____

Estimate Length (hrs) _____

Remarks:

19. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402 2. The filing of a document that contains false statements is a violation of section 37 91 108(1)(e), C.R.S., and is punishable by fines up to $1,000 and/or revocation of the contracting license. If filing online the State Engineer considers the entry of the licensed contractor's name to be compliance with Rule 17.4.

Company Name:	Email:	Phone w/area code:	License Number:
Yeh and Associates, Inc.	ahotchkiss@yeh-eng.com	(970) 382-9590	

Mailing Address: 570 Turner Drive, Suite D, Durango, CO 81303

Sign (or enter name if filing online)	Print Name and Title	Date:
Alan Hotchkiss	Alan Hotchkiss, Sr. Geologist	01/30/2018

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
1313 SHERMAN ST., Ste 821, DENVER CO 80203
Phone: (303) 866-3581 Fax: (303) 866-2223 dwrpermitsonline@state.co.us

Office Use Only

Form GWS-46 (11/2011)

MONITORING/OBSERVATION Water Well Permit Application

Review instructions on reverse side prior to completing form.
The form must be typed, completed online or in black or blue ink.

1. Well Owner Information

Name of well owner: City of Creede

Mailing address: PO Box 457

City	State	Zip code
Creede	CO	81130

Telephone #	E-Mail (If filing online it is required)
719-658-2276	manager@creedetownhall.com

2. Type Of Application (check applicable boxes)

- [x] Use existing well
- [ ] Construct new well
- [ ] Other:
- [ ] Replacement for existing monitoring well:

Permit no.:

3. Refer To (if applicable)

Monitoring hole acknowledgment	Well name or #
MH- 57509	CPZ-3

4. Location Of Proposed Well (Important! See Instructions)

County: Mineral

NE 1/4 of the NE 1/4

Section	Township	N or S	Range	E or W	Principal Meridian
36	42	[x] N [ ] S	1	[ ] E [x] W	NM

Distance of well from section lines (section lines are typically not property lines)

Ft. from [ ] N [ ] S Ft. from [ ] E [ ] W

For replacement wells only – distance and direction from old well to new well

feet direction

Well location address (Include City, State, Zip) [x] Check if well address is same as Item 1.

East 2nd Street

Optional: GPS well location information in UTM format
You must check GPS unit for required settings as follows:

Format must be UTM

[ ] Zone 12 or [x] Zone 13

Units must be Meters

Datum must be NAD83

Unit must be set to true north

Was GPS unit checked for above? [ ] YES

Easting 330521

Northing 4191196

Remember to set Datum to NAD83

5. Property Owner Information

Name of property owner: City of Creede

Mailing address: PO Box 457

City	State	Zip Code
Creede	CO	81130

Telephone #: 719-658-2276

6. Use Of Well

Use of this well is limited to monitoring water levels and/or water quality sampling

7. Well Data (proposed)

Total depth	Aquifer
12.0 feet	Rio Grande

8. Consultant Information (if applicable)

Name of contact person: Alan Hotchkiss

Company name: Yeh and Associates

Mailing address: 570 Turner Drive Suite D

City	State	Zip Code
Durango	CO	81303

Telephone #: 970-382-9590

9. Proposed Well Driller License #(optional):

10. Name of Well Owner or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign or enter full name here	Date (mm/dd/yyyy)
Clyde Dooley	11/07/2018

If signing print name. Print title if other than land owner.

City Manager

Office Use Only

USGS map name	DWR map no.	Surface elev.

Receipt area only

DIV ____ WD ____ BA ____ MD ____

Form No. GWS-31 02/2017	**WELL CONSTRUCTION AND YIELD ESTIMATE REPORT** State of Colorado, Office of the State Engineer 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us	For Office Use Only

1. Well Permit Number: MH-57509 **Receipt Number:**

2. Owner's Well Designation: CPZ-3

3. Well Owner Name: City of Creede

4. Well Location Street Address: East 2nd Street

5. As Built GPS Well Location (required): ☐ Zone 12 ☒ Zone 13 Easting: 330521.0 Northing: 4191196

6. Legal Well Location: NE 1/4, NE 1/4, Sec., 36 Twp. 42 ☒ N or S ☐, Range 1 ☐ E or W ☒, NM P.M.

County: Rio Grande

Subdivision: _____, Lot ____, Block _____, Filing (Unit) _____

7. Ground Surface Elevation: 8,854 feet **Date Completed:** 12/28/2017 **Drilling Method:** ODEX Air Hammer

8. Completed Aquifer Name : Rio Grande **Total Depth:** 12.2 feet **Depth Completed:** 12.0 feet

9. Advance Notification: Was Notification Required Prior to Construction? ☐ Yes ☒ No, Date Notification Given: _____

10. Aquifer Type: (Check one)
☐ Type I (One Confining Layer) ☐ Type I (Multiple Confining Layers) ☐ Laramie-Fox Hills
☐ Type II (Not overlain by Type III) ☐ Type II (Overlain by Type III) ☒ Type III (alluvial/colluvial)

11. Geologic Log:

Depth	Type	Grain Size	Color	Water Loc.
0.0	sand	gravel/bouldr	brown	
6.0	volcanic tuff	pyroclastic	gray	
12.2	volcanic tuff	proclasitc	gray	9.8 ft.

12. Hole Diameter (in.)

	From (ft)	To (ft)
6	0.0	12.2

13. Plain Casing

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
2	PVC	1/2	0.0	12.0

Perforated Casing Screen Slot Size (in): _____

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)

14. Filter Pack:
Material _____
Size _____
Interval _____

15. Packer Placement:
Type _____
Depth _____

16. Grouting Record

Material	Amount	Density	Interval	Method

Remarks:

17. Disinfection: Type Amt. Used

18. Well Yield Estimate Data: ☐ Check box if Test Data is submitted on Form Number GWS-39, Well Yield Test Report

Well Yield Estimate Method: _____

Static Level: 9.8 ft.

Date/Time measured: 12/28/2017 / 11:10 AM

Estimated Yield (gpm) _____

Estimate Length (hrs) _____

Remarks:

19. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402 2. The filing of a document that contains false statements is a violation of section 37 91 108(1)(e), C.R.S., and is punishable by fines up to $1,000 and/or revocation of the contracting license. If filing online the State Engineer considers the entry of the licensed contractor's name to be compliance with Rule 17.4.

Company Name:	Email:	Phone w/area code:	License Number:
Yeh and Associates, Inc.	ahotchkiss@yeh-eng.com	(970) 382-9590	

Mailing Address: 570 Turner Drive, Suite D, Durango, CO 81303

Sign (or enter name if filing online)	Print Name and Title	Date:
Alan Hotchkiss	Alan Hotchkiss, Sr. Geologist	01/30/2018

COLORADO DIVISION OF WATER RESOURCES
DEPARTMENT OF NATURAL RESOURCES
1313 SHERMAN ST., Ste 821, DENVER CO 80203
Phone: (303) 866-3581 Fax: (303) 866-2223 dwrpermitsonline@state.co.us

Office Use Only

Form GWS-46 (11/2011)

MONITORING/OBSERVATION Water Well Permit Application

Review instructions on reverse side prior to completing form.
The form must be typed, completed online or in black or blue ink.

1. Well Owner Information

Name of well owner: City of Creede

Mailing address: PO Box 457

City	State	Zip code
Creede	CO	81130

Telephone #	E-Mail (If filing online it is required)
719-658-2276	manager@creedetownhall.com

2. Type Of Application (check applicable boxes)

- [x] Use existing well
- [ ] Construct new well
- [ ] Other:
- [ ] Replacement for existing monitoring well:

Permit no.:

3. Refer To (if applicable)

Monitoring hole acknowledgment	Well name or #
MH- 57510	CPZ-4

4. Location Of Proposed Well (Important! See Instructions)

County: Mineral

NE 1/4 of the NE 1/4

Section	Township	N or S	Range	E or W	Principal Meridian
36	42	[x] N [ ] S	1	[ ] E [x] W	NM

Distance of well from section lines (section lines are typically not property lines)

Ft. from [ ] N [ ] S Ft. from [ ] E [ ] W

For replacement wells only – distance and direction from old well to new well

feet direction

Well location address (Include City, State, Zip) [x] Check if well address is same as Item 1.

Alley between East 5th & 6th Streets

Optional: GPS well location information in UTM format
You must check GPS unit for required settings as follows:

Format must be UTM
[ ] Zone 12 or [x] Zone 13
Units must be Meters
Datum must be NAD83
Unit must be set to true north
Was GPS unit checked for above? [ ] YES

Easting 330579
Northing 4190128
Remember to set Datum to NAD83

5. Property Owner Information

Name of property owner: City of Creede

Mailing address: PO Box 457

City	State	Zip Code
Creede	CO	81130

Telephone #: 719-658-2276

6. Use Of Well

Use of this well is limited to monitoring water levels and/or water quality sampling

7. Well Data (proposed)

Total depth	Aquifer
11.6 feet	Rio Grande

8. Consultant Information (if applicable)

Name of contact person: Alan Hotchkiss

Company name: Yeh and Associates

Mailing address: 570 Turner Drive Suite D

City	State	Zip Code
Durango	CO	81303

Telephone #: 970-382-9590

9. Proposed Well Driller License #(optional):

10. Name of Well Owner or Authorized Agent

The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (13)(a). I have read the statements herein, know the contents thereof and state that they are true to my knowledge.

Sign or enter full name here	Date (mm/dd/yyyy)
Clyde Dooley	11/07/2018

If signing print name. Print title if other than land owner.

City Manager

Office Use Only

USGS map name	DWR map no.	Surface elev.

Receipt area only

DIV ____ WD ____ BA ____ MD ____

Form No. GWS-31 02/2017	**WELL CONSTRUCTION AND YIELD ESTIMATE REPORT** State of Colorado, Office of the State Engineer 1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581 www.water.state.co.us and dwrpermitsonline@state.co.us	For Office Use Only

1. Well Permit Number: MH-57510 **Receipt Number:**

2. Owner's Well Designation: CPZ-4

3. Well Owner Name: City of Creede

4. Well Location Street Address: Alley between East 5th & 6th Streets

5. As Built GPS Well Location (required): ☐ Zone 12 ☒ Zone 13 Easting: 330579.0 Northing: 4190128

6. Legal Well Location: NE 1/4, NE 1/4, Sec., 36 Twp. 42 ☒ N or S ☐, Range 1 ☐ E or W ☒, NM P.M.

County: Rio Grande

Subdivision: _____, Lot ____, Block _____, Filing (Unit) _____

7. Ground Surface Elevation: 8,825 feet **Date Completed:** 12/28/2017 **Drilling Method:** ODEX Air Hammer

8. Completed Aquifer Name : Rio Grande **Total Depth:** 12.0 feet **Depth Completed:** 11.6 feet

9. Advance Notification: Was Notification Required Prior to Construction? ☐ Yes ☒ No, Date Notification Given: _____

10. Aquifer Type: (Check one)
☐ Type I (One Confining Layer) ☐ Type I (Multiple Confining Layers) ☐ Laramie-Fox Hills
☐ Type II (Not overlain by Type III) ☐ Type II (Overlain by Type III) ☒ Type III (alluvial/colluvial)

11. Geologic Log:

Depth	Type	Grain Size	Color	Water Loc.
0.0	sand	gravel/bouldr	brown	
5.0	sand	gravel/bouldr	brown	
12.0	volcanic tuff	pyroclastic	gray	9.8

12. Hole Diameter (in.)

	From (ft)	To (ft)
6	0.0	11.6

13. Plain Casing

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)
2	PVC	1/2	0.0	11.6

Perforated Casing Screen Slot Size (in): _____

OD (in)	Kind	Wall Size (in)	From (ft)	To (ft)

14. Filter Pack:
Material _____
Size _____
Interval _____

15. Packer Placement:
Type _____
Depth _____

16. Grouting Record

Material	Amount	Density	Interval	Method

Remarks:

17. Disinfection: Type Amt. Used

18. Well Yield Estimate Data: ☐ Check box if Test Data is submitted on Form Number GWS-39, Well Yield Test Report

Well Yield Estimate Method: _____

Static Level: 9.8

Date/Time measured: 12/28/2017 / 11:15 AM

Estimated Yield (gpm) _____

Estimate Length (hrs) _____

Remarks:

19. I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402 2. The filing of a document that contains false statements is a violation of section 37 91 108(1)(e), C.R.S., and is punishable by fines up to $1,000 and/or revocation of the contracting license. If filing online the State Engineer considers the entry of the licensed contractor's name to be compliance with Rule 17.4.

Company Name:	Email:	Phone w/area code:	License Number:
Yeh and Associates, Inc.	ahotchkiss@yeh-eng.com	(970) 382-9590	

Mailing Address: 570 Turner Drive, Suite D, Durango, CO 81303

Sign (or enter name if filing online)	Print Name and Title	Date:
Alan Hotchkiss	Alan Hotchkiss Sr. Geologist	01/30/2018

	A	A	A	A	A	A						Estimated									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Available Resources: January 1	475,167	310,413	414,278	482,566	586,354	596,891	639,868	685,087	738,737	800,818	871,330	950,273	1,037,647	1,133,452	1,237,688	1,350,355	1,471,453	1,600,982	1,738,942	1,885,333	2,040,155
Revenues:																					
User charge revenue (+5%)	287,861	300,352	307,938	324,667	299,979	307,796	323,186	338,576	353,966	369,356	384,746	400,136	415,526	430,916	446,306	461,696	477,086	492,476	507,866	523,256	538,646
Contributions from customers - tap fees	2,000	37,130	16,670	74,850	19,946	25,100	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
Late fees and other	3,277	3,648	3,300	2,625	236	589	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Total Revenues	293,138	341,130	327,908	402,142	320,161	333,485	342,686	358,076	373,466	388,856	404,246	419,636	435,026	450,416	465,806	481,196	496,586	511,976	527,366	542,756	558,146
Expenditures:																					
Operations and Maintenance (+5%)	262,917	178,723	201,078	239,811	244,795	231,966	238,925	245,884	252,843	259,802	266,761	273,720	280,679	287,638	294,597	301,556	308,515	315,474	322,433	329,392	336,351
Capital outlay	110,000	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Debt service	84,975	58,542	58,542	58,543	58,542	58,542	58,542	58,542	58,542	58,542	58,542	58,542	58,542	58,542	58,542	58,542	58,542	58,542	58,542	58,542	58,542
Total Expenditures	457,892	237,265	259,620	298,354	303,337	290,508	297,467	304,426	311,385	318,344	325,303	332,262	339,221	346,180	353,139	360,098	367,057	374,016	380,975	387,934	394,893
Net Income/Loss	-164,754	103,865	68,288	103,788	16,824	42,977	45,219	53,650	62,081	70,512	78,943	87,374	95,805	104,236	112,667	121,098	129,529	137,960	146,391	154,822	163,253
Available Resources: December 31	310,413	414,278	482,566	586,354	603,178	639,868	685,087	738,737	800,818	871,330	950,273	1,037,647	1,133,452	1,237,688	1,350,355	1,471,453	1,600,982	1,738,942	1,885,333	2,040,155	2,203,408