

# COLORADO CITY METROPOLITAN DISTRICT PUBLIC NOTICE BOARD OF DIRECTORS STUDY SESSION

#### Amended

A study session for the Board of Directors of the Colorado City Metropolitan District will be held Tuesday August 9, 2022, beginning at 6:00 p.m.

- 1. Valley First presentation
- 2. Bids for ARPA project
- 3. Duell Well
- 4. DAF information Report
- 5. Chemical for lake
- 6. Discussion of workshop for asset Management
- 7. Community Newsletter
- 8. Budget Committee
- 9. Post Office SRDA trip to PO on Saturday's
- 10. CCAAC Review

### **BOARD OF DIRECTORS REGULAR MEETING**

A regular meeting of the Board of Directors of the Colorado City Metropolitan District will be held Tuesday August 9, 2022, beginning at 6:15 p.m.

- 1. CALL TO ORDER.
- PLEDGE OF ALLEGIANCE.
- MOMENT OF SILENT REFLECTION.
- 4. QUORUM CHECK
- APPROVAL OF AGENDA
- 6. APPROVAL OF MINUTES.

Regular Meeting July 26, 2022 CCACC Minutes July 28, 2022

- 7. BILLS PAYABLE.
- 8. FINANCIAL REPORT.
- 9. OPERATIONAL REPORT.
  - a. CCMD Directors
  - b. Beckwith Dam report
  - c. Committee Reports
- 10. READING BY CHAIRPERSON OF THE STATEMENT OF CONDUCT AND DEMEANOR.
- 11. CITIZENS INPUT.
- 12. ATTORNEYS REPORT:
- 13. AGENDA ITEMS:

Chemical for

Discussion/Action

Accepting of Bids for ARPA

Discussion/Action

**Duell Well** 

Discussion/Action

14. OLD BUSINESS. Covenants Lawyer/Applewood Park/Thissel problem on old golf /
Duell well/ Utility Director/Gravel Status /Lot Line Vacation for 70 & 71 unit 20

- 15. NEW BUSINESS: Rim Rock Heights Proposal
- 16. CCACC:
  - A. New Construction

1.

2.

- B. Actions
  - a. 3 First Letters
  - b 6 Second letters
  - c. 4 Third letters
  - d. 0 Unauthorized Structure
- 17. CORRESPONDENCE:
- 18. EXECUTIVE SESSION:
- 19. ADJOURNMENT.

The meeting will be held at the Administration Building located at 4497 Bent Brothers Blvd., Colorado City, CO. 81019. Alternate location if so needed will be at the Recreation Center located at 5000 Cuerno Verde, Colorado City, CO. 81019.

### Colorado City Metropolitan District 4497 Bent brothers Blvd PO Box 20229 Colorado City, Colorado 81019

Posted August 5, 2022

James Eccher is inviting you to a scheduled Zoom meeting.

Topic: Colorado City Metropolitan District Study/Meeting August 9,2022 Time: Aug 9, 2022 06:00 PM Mountain Time (US and Canada)

Join Zoom Meeting https://us02web.zoom.us/j/82560775868?pwd=Tmo1WlJFbWY4MVZHMjZ3QXBDTUIXdz09

Meeting ID: 825 6077 5868

Passcode: 443176

One tap mobile

+12532158782,,82560775868#,,,,\*443176# US (Tacoma)

+13462487799,,82560775868#,,,,\*443176# US (Houston)

Dial by your location

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 669 444 9171 US

+1 669 900 9128 US (San Jose)

+1 646 558 8656 US (New York)

+1 646 931 3860 US

+1 301 715 8592 US (Washington DC)

+1 312 626 6799 US (Chicago)

+1 386 347 5053 US

+1 564 217 2000 US

Meeting ID: 825 6077 5868

Passcode: 443176Find your local number: https://us02web.zoom.us/u/keAP8dmfCQ

## COLORADO CITY METROPOLITAN DISTRICT WATER SYSTEM IMPROVEMENTS - 2022 MACRO LEVEL BUDGET ANALYSIS

Thursday, August 4, 2022

A	٨.	Fundi	ng:			
		Puebl Total:	o County - ARPA Grant	\$3,640,000.00 \$3,640,000.00		\$3,640,000.00
В	. (	Comm	nitted Funds			. , ,
C		a. b.		\$500.00 \$3,500.00 \$4,000.00	\$4,000.00	
	1 2 3	. Co	esign/Contract Administration onstruction Observation 1) her Services:	\$120,500.00 \$135,000.00		
		a. b.	County Permit Easement/Property	\$2,000.00		
		C.	Ownership Evaluation  Geotechnical 1)	\$5,000.00		
		d.	Reproduction	\$10,000.00 \$2,000.00		
		e. f.	Funding Administration 1) CDPHE Submissions 1)	\$30,000.00		
		••	Subtotal:	\$4,000.00 \$308,500.00	\$308,500.00	
			1) Reflects projected bu	dget		
	То	tal Co	mmitted Funds:		\$312,500.00	\$312,500.00
	Fu	nds A	vailable for Construction/Conting	jencies	,	\$3,327,500.00
D.	Со	nstruc	ction Award			
	1.	Cou	er System Improvements - Sche rt and Douglas Way Water Main	dule 1: Red Cloud I Replacement - Bas	Road, Bosse e Bid	
		a. b.	Base Bid - RMS Utilities Alternative No. 1 - Pate Constru	ction		\$1,388,129.60
					mmitted Amount	\$1,309,235.00 \$1,309,235.00
	2.	1 (ehi	er System Improvements - Schel acement And Tank 3 Improveme Base Bid - Yosam Construction	ents - Base Bid	Water Main	
		b.	Base Bid - Yocam Construction, Alternative No. 1 - Yocam Const	ruction, LLC		\$721,275.16 \$624,510.50
		C.	Schedule 2: Alternative No. 3 - T	ank 3 Access Road	Grading	\$6,500.00
				rotal Con	nmitted Amount	\$631,010.50

3. Water System Improvements - Schedule 3: Water Tank 1, 2 and 3 Improvements

Total Construction Award: \$3,120,620.50

Project Contingencies \$206,879.50

### GMS, INC.

## CONSULTING ENGINEERS 611 NORTH WEBER, SUITE 300 COLORADO SPRINGS, COLORADO 80903-1074

TELEPHONE (719) 475-2935 TELEFAX (719) 475-2938

EDWARD D. MEYER, P.E. ROGER J. SAMS, P.E. JASON D. MEYER, P.E. DAVID R. FRISCH, P.L.S.

THOMAS A. McCLERNAN, P.E. Mark A. Morton, P.E. Ken L. White, P.L.S.

### August 4, 2022

## VIA EMAIL TRANSMISSION ONLY (10 TOTAL PAGES)

TO: KR Swerdfeger Construction, Inc.st all bidders)

Pate Construction Co., Inc. RMS Utilities. Inc.

Swedish Industrial Painting

Viking Painting LLC

Yocam Construction, LLC

Scott.Baysinger@krswerd.com brianb@pateconstruction.net bmalouff2002@yahoo.com andrew@swedishindustrialcoatings.com bids@vintanks.com

bids@viptanks.com aj@viptanks.com

dyocam@yocamconstruction.com

RE:

Colorado City Metropolitan District Water System Improvements - 2022

### Gentlemen:

Enclosed for your records is a copy of the detailed bid tabulation prepared for the referenced project. Award of this project is anticipated to be made at the next regularly scheduled board meeting.

Thank you for submitting a bid on this project.

m Edge

Sincerely,

Lauri M. Edgar, Executive Assistant

/lme

Enclosure

ec: Mr. Jim P. Eccher, General Manager, Colorado City Metropolitan District (w/enclosure)

Project. \ Owner: C	Project: Water System Improvements - 2022 Owner: Colorado City Metropolitan District Item Description	strict			: ? 	D X AO ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	5	KR Swerdfege	KR Swerdfeger Construction.	Yocam Cons	truction LLC	Swedish Inc	dustrial Coatings		Viking Indus	Viking Industrial Painting	Colorado Springs. CO 80903  Viking Industrial Painting  Engineer's Estimate
ltem	Description					RMS Utilifies	fies Inc	KR Swerdfege	er Construction,	Yocam Construction LLC	truction LLC		Swedish Inc	Swedish Industrial Coatings		Swedish Industrial Coatings Viking Industrial Painting	Viking Industrial Painting
				Unit	3	Unit	Total	Unit	Total	Unit	Total		Unit	Unit Total Price Price	+	Total Price	Price Price
	Quantry One Fine	Quantity	TRI	ND DOUGLAS	WAY WATER	MAIN REPLACE	MENT - BASE	BID							7000		5000
SCHEDO	Mobilization	1	LS	\$21,473.00	\$21,473,00 \$13,500,00 \$13,500,00 \$3	\$13,500.00	\$13,500.00	\$36,310.00	\$36,310.00					\$0,00	\$0.00	\$0.00	90.00
2	Cut permits and complete traffic control plans	_	rs.	\$30,000.00	\$30,000.00	\$45,000.00	\$45,000.00	\$21,500.00	\$21,500.00					\$0.00	\$0,00	\$0,00	
ω	ry water ju utifizing																9000
4.	s or o able methods rater lines in so as existing w		rs.	\$19,000.00	\$19,000,00	\$137,500.00	\$137,500,00	\$36,450.00	\$36,450.00					\$0.00	\$0.00	\$0.00	
Ø		675	n	\$150.00	\$101.250.00	\$145.00	\$97,875,00	\$178.60	\$120,555.00					\$0.00	\$0.00	\$0.00	
Ö	B-inch diameter C900		듀	\$185,00	\$558,330.00	\$114.50	\$345,561.00	\$276.75	\$835,231.50					\$0.00	80000		90.00
9	6-inch diameter DR18 PVC		S.	\$100.00	\$59,000.00	\$99,04	\$58,433.60	\$95.00	\$56,050.00					\$0.00	\$0.00	\$0.00	
			П	\$4 000.00	\$16,000.00	-1	\$23,200,00	\$5,173.00	\$20,692.00				2011	\$0.00	\$0.00	\$0.00	
0	8-inch diameter	స	EA	\$2,000.00	\$24,000.00	\$3,400.00	\$40,800.00	\$3,396.00	\$40,752.00					40.00	40.00		***************************************
n		15	EA EA	\$1,800.00 \$15.00	\$27,000.00 \$64.275.00	\$2,400.00 \$22.00	\$36,000.00 \$94,270.00	\$2,803.00 \$13.00	\$42,045,00 \$55,705.00					\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00 \$0.00	
	6-inch fire hydrant assembly on new water main																
Qi .			E A	\$6,000.00	\$6,000.00	\$5,500.00	\$5,500.00	\$7,429.00	\$7,429.00					\$0,00	\$0,00	\$0,00	
ď		6	m A	\$6,000 00	\$36,000.00	\$5,200.00	\$31,200.00	\$7,143.00	\$42,858.00				ì	\$0.00	\$0.00	\$0.00	\$0.00
C	6-inch diameter PVC Water Main	2	ΕA	\$6,000.00	\$12,000.00	\$4,880.00	\$9,760.00	\$6,788.00	\$13,576,00					\$0.00	\$0.00	\$0.00	
œ .	Remove and salvage existing fire hydrant and deliver salvageable items to Owner 344-inch service tap on new PVC water main	7	ΕA	\$1,500.00	\$10,500.00	\$850.00	\$5,950.00	\$656,00	\$4,592.00		171			\$0.00	\$0.00		\$0.00
	a. 8-inch diameter PVC Water Main	9	E A	\$1,900.00	\$17,100.00	\$950.00	\$8,550.00	\$2,712.00	\$24,408,00					\$0.00	\$0.00	\$0.00 \$0.00	
10,			ΕA	\$1,850.00			\$930.00	\$3,185.00	\$3,185.00				A 11				\$0.00
Dr.	a. 12-inch diameter PVC Water Main	N	5	\$1,980.00	\$3,960,00	\$1,050.00	\$2,100.00	\$3,282.00	\$6,564,00					\$0.00	\$0.00		\$0.00
	b. B-inch diameter PVC Water Main	00	m A	\$1,950.00	\$15,600,00	\$1,030.00	\$8,240.00	\$3,235,00	\$25,880.00					-		\$0.00	\$0.00
	c. 6-inch diameter PVC Water	14	1	\$1 920.00	\$11,520.00	\$1,025.00	\$6,150,00	\$3,215.00	\$19,290.00					\$0.00	\$0.00	\$0.00	

1.	0.00	+	\$0.00	\$0.00		\$0.00	\$1,834,241.50				\$1,434,393,00			The state of the s	
Per controlle de chande de controlle de chande de controlle de control		7	Some	\$0.00			\$16,000.00	\$16,000.00		99,000,00	0.4,0,0,0	400000000000000000000000000000000000000		edule 1 - Base Bid	
Part	2		\$0.00	\$0.00			\$1,801,00	\$1,801.00		\$15,500.00	\$3,400.00	\$3,400.00	AC	urbed areas	
Part principal	σ		\$0.00	\$0.00		,	\$174,933.00	\$17.10	\$199,485.00	\$19.50	\$184,140.00	\$18.00	-		
Part	OV.		\$0.00	\$0.00			\$5,000.00	\$100.00	\$1,800.00	\$36.00	\$2,500,00	\$50.00	+		
Part   Cameration   Causiny   Caus	U		\$0.00	\$0.00			\$1,600.00	\$32.00	\$1,800.00	\$36.00	\$2,500.00	\$50.00	+		
Part   Control   Columb   Co	6		\$0.00	\$0.00			\$115,957.00	\$71.80	\$121,125.00	\$75.00	\$87,210.00	\$54.00	÷	ale	
PREX service line between remarks   Countries   Coun	ŏ		\$0.00	\$0.00			\$1,200.00	\$300,00	\$440.00	\$110.00	\$10,000.00	\$2,500.00	-		
PEX service line between   Country   Urd   Price   P	ő á		\$0.00	\$0.00			\$3,182.00	\$37,00	\$9,460.00	\$110.00	\$16,770.00	\$195.00	-		1
PEX service line between   Outnity   Unit   Price		T	20.00	20.00			\$10,219.00	\$10,219,00		\$3,200.00	\$2,500.00	\$2,500.00	EA	Connection	9
Part	2	T	50.00	Social	-		\$10,420.00	\$10,420.00		\$7,200.00	\$2,700.00	\$2,700.00	-	001	
Part Contribution Co. Inc.   Part Contribution Co. Inc.   Part Co. Inc.   Pa	0	Т	\$0.00	\$0.00			\$27,456,00	\$6,864.00		\$2,150.00	\$16,000.00	\$4,000.00	L		
Patte Control Inc.   Patte Control Co., inc.   Patte	0.0		\$0,00	\$0.00			\$10,219.00	\$10,219.00	- 1	\$2,250.00	\$8,000.00	\$8,000.00		H	b, 8° In-Lin
Part			30°00	46										ains ting own	and and main
PEX service line televeen   Duantily   Unit   Price	5		2000	\$0.00			\$7,787,00	\$7,787.00	\$850,00	\$850.00	\$2,000.00	\$2,000.00	LS		
PEX service line between   Ouanitity   Unit   Price	8		\$0.00	\$0.00			PC/COTACO							ting service line on side of Red Cloud Station 5+84	
Pate Construction Co., Inc.   Pate Construction Co., Inc.   Unit   Total   Unit   Unit   Total   Unit   Uni				3			\$3 894 00	\$3,894.00	\$450.00	\$450.00	\$2,000.00	\$2,000.00	LS .		
PEX service line between corporation stop   Int   Price   Pr			-											ne service line is at to the existing 6-ter main at the on of Red Cloud	
PEX service line between the new corporation stop and connection to existing	5	our	\$0.00	\$0.00			\$13,202,00	\$13,202.00	\$5,400.00	\$5,400.00	\$20,000.00	\$20,000,00	rs		Close
PEX service line between the new corporation to existing connection to existing connection to existing service line.  PEX service line between the new corporation stop and connection to existing service line.  PEX service line between the new corporation stop and connection to existing service line.  PEX service line between the new corporation stop and connection to existing service line.  Price Pr	20		\$0.00	\$0.00			\$3,030.00	\$20,20	\$9,600.00		\$/,500,00	90.00			
PEX service line between the new corporation stop and connection to existing service line servic	2	T	\$0.00	\$0.00			\$5,050.00	\$20.20	\$16,250.00		\$12,500,00	\$50.00	-		
Pate Construction Co., Inc.    Pate Construction Co., Inc.   Pate Co., Inc.   Pate Co., Inc.   Pate Co., Inc.   Pate Co., Inc.	- 1			-		10 A/II									
RMS Utilities, Inc. Inc. Pocam Construction LLC Swedish Industrial Coatings Viking Industrial Painting	p	TO	Unit Total	-	Unit			Price	Price	Price	Price	Price	+	_	
TAX Superior and the same of t	5		king Industrial Painting	_	Swedish Indust	am Construction LLC	-	DC Owerorage	lities, Inc.	RMS Ut	uction Co., Inc.	Pate Constr			

	ω	7.		624		6	, cn		o o	4	ç,	5	<b>D</b>	ω	2	SCHED		ltem
a 12-inch diameter PVC	3/4-inch service tap on new PVC water main a. B-inch diameter PVC Water b. 6-inch diameter PVC Water t-inch service tap on new PVC water main	Remove and salvage existing fire hydrant and deliver salvageable items to Owner	meter P\	b. 8-inch diameter PVC Water Main	a. 12-inch dismeter PVC Water Main	Furnish and install 6-inch fire hydrant assembly on new water main	Furnish and install Class P: bedding extending from 6 inches below to 2 inches above the pipe for water into installations as directed by the Engineer and all construction, complete in place.		riser box 12-inch diameter 8-inch diameter	Furnish and install gate valves and Pueblo style				PVC water lines in different	Cut permits and complete	SCHEDULE 1 - ALTERNATE NO. 1:		Description
2	→ 10	7	2	o	_		4,295	ರು	12		590	3,035	670		٠	-	Quantity	
m >	E E	E <sub>A</sub>	E A	ΕA	ΕA		<u> </u>	E A	E E A		5	<b>5</b>	٦	-	, ,	.S	Unit	_
\$1,980.00	\$1,900,00 \$1,850,00	\$1,500.00	\$6,000.00	\$6,000.00	\$6,000.00		\$15.00	\$1,800.00	\$4,000.00 \$2,000.00		\$95.00	\$145.00	\$150,00	0	\$25,000,00	\$17,004.00	Unit Price	Pate Construction Co., Inc.
\$3,960,00	\$17,100.00 \$1,850.00	\$10,500.00	\$12,000.00	\$36,000.00	\$6,000.00		\$64,425,00	\$27,000.00	\$16,000.00 \$24,000.00		\$56,050.00	\$440.075.00	\$100,500,00		\$25,000,00	\$17,004.00	Price	ction Co., Inc.
\$1,050.00	\$950.00	\$850.00	\$4,880.00	\$5,200,00	\$5,500,00		\$22.00	\$2,400.00	\$5,800.00 \$3,400.00		\$99.04	\$114.50	\$145.00		\$45,000.00	\$13,500.00	Price	RMS Uti
\$2,100.00	\$8,550.00 \$930.00	\$5,950.00	\$9,760.00	\$31,200.00	\$5,500.00		594,490.00	\$36,000.00	\$23,200,00 \$40,800,00		\$58,433.60	\$347,507.50	\$97,150.00	To the state of th	\$45,000.00	\$13,500.00	Price	RMS Utilities, Inc
\$3,250.00	\$2,686.00 \$2,686.00	\$650.00	56,743.00	\$7,097.00	57,383.00		\$13.00	\$2,786.00	\$5,154.00 \$3,378.00		\$95.00	\$112.00	\$150,30		\$25,345.00	\$36,038.00	Price	KR Swerdtege
\$6,500.00	\$24,174.00 \$2,686.00	\$4,550.00	\$13,486.00	\$42,582.00	\$7,383.00		\$55,835.00	\$41,790.00	\$20,616.00 \$40,536.00		\$56,050.00	\$339,920.00	\$100,701.00		\$26,345.00	\$36,038,00	Price	RR Swerdteger Construction,
																	Price	Yocam Cor
K	O BID																Price	Yocam Construction LLC
F-				Ī												1	Price	Swedish Indi
\$0.00	\$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0,00	\$0,00		\$0,00	\$0.00	\$0.00		\$0,00	\$0.00	Price	Swedish Industrial Coatings
5 8	86	0	0	0													Price	Viking Indi
\$0.00	\$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$0.00	\$0,00	\$0.00 \$0.00		\$0.00	\$0.00	\$0.00		\$0,00	\$0.00	Price	Viking Industrial Painting Unit Total
\$1,400.00	\$1,200.00 \$1,100.00	\$1,200,00	\$6,100.00	\$6,200.00	\$6,400.00		\$5.00	\$2,200.00	\$3,500.00 \$2,400.00		\$60.00	\$80.00	\$95,00		\$20,000.00	\$14,000.00	⊃rice	Engineer's
\$2,800.00	\$10,800.00 \$1,100.00	\$8,400.00	\$12,200.00	\$37,200.00	\$6,400.00		\$21,475.00	\$33,000.00	\$14,000.00 \$28,800.00		\$35,400.00	\$242,800,00	\$63,650,00		\$20,000.00	\$14,000.00	Price	Enginæer's Estimate Total

	20		19	†B	17	16	15	۵	C	ь	1	\$ .	ü		12	3		ó	I		
With the same is a supplied to the	Demobilization	on all disturbed areas	compacted thickness hot may asphalt overlay of entire street width, CDOT grading SX	1-Inch thick total	spring line of existing storm sewer main Remove and replace	water main Flowable fill concrete above new water main up to	Flowable fill around new	1.12"x12" Tee Connection	c. 6" In-Line Connection 1 EA	8" In-Line Connection	and existing water mains and plugging existing mains as 8°x8°. Tee Connection	the west side of Red Cloud Road at Station 5+84	Cap existing service line on		Close corporation stop	b. 3/4-inch diameter 8-inch PVC pipe, fittings, joint restraints and tracer wire for new water main	a. 1-inch diameter	PEX service line between the new corporation stop- and connection to existing service line	c. 6-inch diameter PVC Water		
140, 17		<u> </u>	10,230	2,500	4	86	ŀ	4		- (	a.	red.	-			200	300		Guenny		
_	LS G		SY	ΥS	Œ	Fi	5	T C	: !	T 5	n A	ES .	87		57	5	5	.5	J SPI		
	\$12,601,00	\$3,400.00	\$16.00	\$54.00	\$2,500.00	\$195_00	96,100,00	\$4,000.00	#0,000,00	\$8,000.00	63 600	\$2,000.00	\$2,000,00		\$20,000.00	\$50,00	\$50,00	÷1,520,00	PFICE OO	Unit	Pate Const
\$1,309,235.00	\$12,601.00	\$3 400 00	\$163,680.00	\$135,000.00	\$10,000.00	\$16,770.00	96,700.00	\$16,000.00		00,000,00		\$2,000,00	\$2,000,00		\$20,000.00	150		00,026,11¢	T	Total	Pate Construction Co., Inc.
	\$9,000,00	\$15 500 00	\$19,50	\$75.00	\$110,00	\$110.00	3/,200.00	\$2 150 00	00.002.70	00.00.00		\$850.00	\$450,00		\$5,400.00	\$64.00		\$1,025,00	Price	Unit	RMSU
\$1,328,496,10	\$15,500.00	9	\$199,485.00	\$187,500.00	\$440.00	\$9,460.00	\$7,200.00	\$8,600.00	\$2,250,00	\$15,600.00		\$850.00	\$450,00		\$5,400.00	\$12,800.00	\$19,500.00	\$6,150,00	Price	Total	RMS Utilities, Inc.
	\$1,794.00 \$14,500.00		\$17.00	\$71.60	\$300.00	\$37.00	_	\$6,795,00	_	\$10,113.00		\$7,787.00	\$3,894.00		\$13,100.00	\$20.20		\$3,202.00	T	Unit	KR Swerdfe
\$1,350,434,00	\$1,794.00 \$14,500.00		\$173,910,00	\$179,000.00	\$1,200.00	\$3,182.00	\$10,315.00	\$27,180.00	\$10,113.00	\$30,339.00		\$7,787.00	\$3,894.00		\$13,100.00	\$4,040.00	\$6,080.00	\$19,212.00	Price	Total	KR Swerdfeger Construction, Inc.
\$0.00																			Price Price	Unit Total	Yocam Construction LLC
											Î								Price	Unit	Swedish Ind
\$0.00	\$0.00	\$0.00	9000	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	6000	\$0.00		\$0.00	\$0.00	2	\$0.00	Price	Total	Swedish Industrial Coatings
																			Price	Holl I	Viking Indu
90,00	\$0.00	90,00	5	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	60.00	#n nn		\$0.00	\$0.00		\$0.00	Price Price	Total	trial Paintino
910,000,00	\$2,500.00	\$6.00		\$90.00	\$60,00	\$60.00	\$6,500.00	\$4 700 00	\$4,800.00	\$5 200 00	\$500.00	9500.00	6500.00		\$5,000.00	\$35.00 \$32.00		\$1,200.00	Price	Englises	Enninger
\$10,000.00	\$2,500.00	381,840,00		\$225,000.00	\$240.00	\$5,160.00	\$6,500.00	648 900 00	\$4,800.00	\$15,800.00	\$500.00	9300.00	2000	8000000	\$5,000,00	\$10,500.00 \$6,400.00		\$7,200,00	Price	Engineer's Esumate	's Definition

SCHE		0	2 2	1	10.	9	0.07.0	5	8 7.	ø	gn gr	p p		cu D	1	SCHEDU		ē
SCHEDULE 2 - ALTERNATE NO. 1:	Total Schedule 2 - Base Bid:	Demoonzagon	on all disturbed areas	7 square yards of 9-inch in 12-inch riprap at the end of the drain/overflow pipe of Tank No. 2	Remove and replace existing concrete apron around Water Storage Tank 3 between the tank and containment ring	8-foot x 4-foot ID pressure reducing valve vault at Station 3+50		and existing water mains and plugging existing mains in locations shown on the Drawings	Remove and salvage existing fire hydrant and deliver salvageable items to Owner	6-inch fire hydrant assembly on new 12-inch water main	6-inch diameter (Quantity includes 6" valves on new fine hydrant installations.)	style riser box 12-inch diameter		Pryc water mes in same location as existing water main 12-inch diameter C900 DR18 PVC	Cut permits and complete traffic control plans	SCHEDULE 2: TALLEY DRIVE WATER MAIN REPLACEMENT IN SAME LOCATION AS EAST INV AND THIRD TO SECURITY OF		Geograpion
	ā		- <del>1</del> 2	-4	616	-	<u> ۵</u> ۵ ۵		3.	o o	14 3,850	3	55	3,795	1	ER MAIN F	Quantity	
			z A	LS .	S <sub>H</sub>	LS	m m g		EA	E .	# E	\$	F	<b>-</b>	ြ	LS	Unit	
			\$3,400.00	\$2,500.00	\$30,00	\$37,500.00	\$4,000.00 \$2,700.00		\$1,500.00	\$6,000.00	\$1,800.00 \$15,00	\$4,000,00	\$135,00	\$200.00	\$23,447.00	\$15,586.00	Price	Pale Construction Co., Inc.
	91,012,000,00	2	\$4,080.00 \$10.340.00	\$2,500,00	\$18,480.00	\$37,500.00	\$2,700.00 \$24,000.00 \$2,700.00		\$1,500.00	\$36,000.00	\$25,200.00 \$57,750.00	\$44,000.00	\$7,425.00	\$759,000.00	\$23,447.00	\$15,586.00	Price	ction Co., Inc.
		7	\$27,717.00 \$850.00	\$3,600.00	\$15.00	\$43,000.00	\$2,150.00 \$2,150.00 \$7,200.00		\$850.00	\$5,500.00	\$3,400.00 \$22.00	\$5,800,00	\$99.04	\$145.00	\$32,000,00	\$13,500.00	Price	RMS Utilities,
	40.00,000	894	\$33,260.40 \$850.00	\$3,600.00	\$9,240.00	\$43,000.00	\$12,900.00		\$850.00	\$33,000.00	\$47,600.00 \$84,700.00	\$63,800,00	\$5,447.20	\$550,275.00	\$32,000.00	\$13,500.00	Price	ties, Inc.
		-	\$1,794.00 \$15,000.00	\$6,800,00	\$10.00	\$28,755.00	\$6,863.00 \$10,419.00		\$650.00	\$7,429.00	\$2,786.00 \$13.00	\$10,088.00	\$57,00	\$113.50	\$15,450.00	\$20,700.00	Price	Inc. Total
		\$836,148,30	\$2,152.80 \$15,000.00	\$6,800.00	\$6,160.00	\$28,755.00	\$41,178.00	50 450 00	\$650.00	\$44,574.00	\$39,004.00 \$50,050.00	\$110,968.00	\$3,135.00	\$430,732.50	\$15,450.00	\$20,700.00	Price	Total
			\$4,000.00 \$8,125.00	\$2,800.00	\$11.00	\$29,500.00	\$1,100,00	\$3.500.00	\$500.00	\$5,500.00	\$2,000 00 \$22.50	\$4,250.00	\$78.00	\$116.00	\$6,250.00	\$10,539.16	Price	Yocam Construction LLC Unit Total
		\$721,275.16	\$4,800.00 \$8,125.00	\$2,800.00	\$6,776,00	\$29,500.00	\$6,600.00		\$500.00	\$33,000.00	\$28,000.00 \$66,625.00	\$46,750.00	\$4,290.00	\$440,220.00	\$6,250.00	\$10,539,16	Price	Total
							Hi										Price	Swedish Indus
0000		\$0.00	\$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$0_00	\$0,00	\$0.00	\$0,00	Price	wedish Industrial Coatings Unit Total
																	TILG	Viking Indus
\$0.00		90.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$0.00	\$0.00	\$0.00 \$0.00	\$0.00	\$0,00	\$0.00	\$0.00	\$0.00	7000	Viking Industrial Painting Unit Total
00 000 68			\$2,500.00 \$7,000.00	\$500.00	\$45.00	545,000,00	\$4,800.00 \$6,500.00	\$6,500.00	\$1,200.00	\$6,400.00	\$2,200.00 \$5.00	\$3,500,00	\$80,00	\$110,00	\$3,000,00	\$10,000.00	. 1000	Engineer's Estimate Unit Total
\$9,000.00		900000		\$500.00	\$27,720.00	\$45,000,00	\$6,500.00		\$1,200.00	\$38,400.00	\$30,800.00 \$19,250.00	\$38,500.00	\$4,400 00	\$417,450.00	\$3,000.00	\$10,000.00		Total

\$0.00		\$0.00		\$624,510.50		\$832,323.80		\$941,344.92		3812,845.00			The same of the sa	
\$0.00	90.00			\$8,125.00	\$8,125.00	\$15,000.00	\$15,000,00	\$9,000,00	\$9,000,00	00.000'78	67,000,00	1	Total Schedule 2 - Alternate No. 1-	_
	\$0.00			\$4,800.00	\$4,000.00	\$2,152.80	\$1,794.00	\$18,600.00	\$15,500.00	\$4,080.00	\$3,400.00	2 AC	Demobilization 1.2	13.
\$0.00	\$0.00			\$2,800.00	\$2,800.00	\$6,800.00	\$6,800,00	\$3,600.00	\$3,600.00	\$2,500.00	\$2,500,00	ဖ	riprap at the end of the drain/overflow pipe of Tank No. 2 Non-intigated grass seeding on all disturbed areas	<b>N</b>
\$0.00	\$0.00			\$6,776.00	\$11.00	\$6,160.00	\$10.00	\$9,240,00	\$15.00	\$18,480.00	\$30.00	SF	Water Storage Tank 3 botween the tank and containment ring 616 Approximately 7 square	# DO 07 S
	\$0.00	11 1		\$29,500.00	\$29,500.00	\$28,755.00	\$28,755.00	\$43,500.00	\$43,500.00	\$37,500.00	\$37,500.00	LS		
\$0.00 \$0.00 \$0.00	\$0.00 \$0.00			\$3,500.00 \$6,600.00 \$3,000.00	\$3,500.00 \$1,100.00 \$3,000.00	\$10,314,00 \$40,770,00 \$10,315,00	\$10,314,00 \$6,795,00 \$10,315,00	\$4,600.00 \$12,900.00 \$7,200.00	\$4,600,00 \$2,150,00 \$7,200,00	\$2,700.00 \$24,000.00 \$2,700.00	\$2,700.00 \$4,000.00 \$2,700.00	E E E	and existing water mains and plugging existing mains 122x6 Cross Connection 6. 122x12 Tee Connection 18-toot x 4-foot ID pressure	0 0 0
\$0.00 \$0.00	\$0.00	E		\$33,000,00	\$5,500.00	\$650.00	\$650.00	\$850.00	\$850.00	\$1,500.00	\$1,500.00		and salvage e hydrant and vageable lems s between new	œ ,×
\$0.00	\$0.00			\$86,962,50	\$22.50	\$50,245.00	\$13,00	\$85,030.00	\$22.00	\$57,975,00	\$15.00	3,865 LF	extending from 6 inches below to 12 inches above the pipe for water line installations 3.88 finch fire hydrant assembly on new 12-inch water main 6	o o
\$0.00	\$0,00			\$46,750.00 \$28,000.00	\$4,250.00 \$2,000.00	\$81,400 00 \$70,000 00	\$7,400.00 \$5,000.00	\$63,800.00 \$47,600.00	\$5,800.00 \$3,400.00	\$44,000.00 \$25,200.00	\$4,000.00	11 EA EA		ο n n
\$0.00 \$0.00	\$0.00			\$344,981.00 \$3,869.00	\$91.00 \$53.00	\$424,592.00 \$4,818.00	\$112.00 \$66.00	\$549,695.00 \$7,229.92	\$145,00 \$99,04	\$511,785,00 \$9,125,00	\$135.00 \$125.00	3,791 LF	er C900 huantity is new fire	. φ
\$0,00	\$0.00			\$6.250.00	\$6,250.00	\$ 13,430,00	910,490,00	**************************************					line 3 feet offset ig water main flameter C900	ယ
Price	Trice		Price		90000	645.450.00	\$15,450,00	\$32,000,00	\$32,000,00	\$15,000.00	\$15,000,00	LS		
ngs	strial Coatings Total		Swedish Indus	Yocam Construction LLC Unit Total	Yocam Con	nc. Total	Unit	Init Total	RMS Ut	Pate Construction Co., Inc. Unit Total Price Price	Pale Constr Unit Price	Quantity Unit	מו	
						KR Swerdfeger Construction,	KR Swerdfege		N Second	TOTAL CONTROL	a de la constanta de la consta		Description	Item

				Т		_			2	_		_	_		_	_	_	_	į.	-	_							SCHE		ē	- Outre	200	I			j.	SCHE			item
c Air break in existing	b. Remove and dispose of existing roof vent and install	fixed ladder with handrails	existing exterior ladder and install new 16-inch wide	a Remove and dispose of	diameter with 27 snew		age	nominal 250,000-galloni	ĕ		Blast Cleaning, priming and	SP6/NACE 3 Commercial	preparation to a	e. Conduct surface	painting of complete tank	Blast Cleaning, priming and	Nes	d. Conduct surface	pipe	c Air break in existing	existing roof vent and install	b. Remove and dispose of	install new 16-inch wide fixed ladder with handraits	existing exterior ladder and	27'	improvements (40)	250,0	TANK NO. 1 Existing	Total Schedule 2 - Alternate No. 3:	to Tank No. 3	Bestore the access mad III	SCHEDING 3 - AI TERNATE NO. 3	mich valve	mechanical joint plug in 6-	install 12"x6" tee with	Bid Item 8.b Furnish and	SCHEDULE 2 - ALTERNATE NO. 2:			Description
	4									-					÷				4		_		- L					3 IMPROV	No. 3:	1		NO. 2.	3	თ				Quantity		
	ြ	S								S					LS				S		S		2					EMENIO		S		-	1	EA	_	_	-	Unit		
																												- BASE BID		1 <sub>C</sub>			1	\$2.500.00 \$1				Unit T Price F	nstruction	
																													\$0.00				\$15,000.00	\$15,000.00				Price	o lnc	
																														\$6,500.00				\$2,850,00				Unit Price	RMS Utilities, Inc.	
																													\$0,000,00	\$6,500,00			\$17,100.00	\$17,100,00				Price	ies, Inc.	
																														\$42,000,00				\$6,224.00				Price	Inc	KR Swerdfeger Construction,
																													942,000.00	\$42,000,00			\$37,344.00	\$37,344,00				Price	I	Construction,
																														\$6,500.00				\$2,000.00				Price	Hair Total	Const
																													40,000,000	36,500.00			\$12,000.00	\$12,000.00				Price	Total	
\$5,600.00	\$8,600.00	\$9,400.00								\$102,250.00					\$161,650.00					\$5,600.00	\$8,600.00		\$9,400.00															Price	Unit	Swedish Industrial Coatings
\$5,600.00	\$8,600.00	\$9,400.00								\$102,250.00					\$161,650.00					\$5,600.00	\$8,600.00	N III	\$9,400,00							\$0.00	*0.00		\$0.00	\$0.00				Price	Total	trial Coatings
\$10,000.00	\$4,900.00	\$42,500.00								\$50,200,00					\$107,100.00					\$10,000.00	\$4,900,00		\$42,500.00															Price	Unit Total	Vikina Indust
\$10,000.00	\$4,900.00	\$42,500.00								00.002,000	200 000				\$107,100.00				The state of the s	\$10,000.00	\$4,900.00		\$42,500.00							\$0.00	80 00 00 02		90,00	\$0.00				Price	Total	tal Painting
\$6,000.00	\$5,500.00	\$25,000.00								\$04,120.00	105.00				\$88,480.00					\$6,000.00	20,000,00	20000	\$25,000.00								\$-0.000.00			\$4,500.00				⊃rice	Unit	Engineer's Estimate
\$6,000.00	\$5,500.00	\$25,000.00								#01, ind	\$64 125 DD				\$88,480,00					\$6,000.00	90,000.00	65 500 00	\$25,000.00							\$10,000.00	\$10,000.00		40,000,00	\$27,000,00				Price	Total	Estimate

				I											1													c	n .			1					Ī		
Total Schedule 3 - Base Bid:	painting of complete exterior	Þ	grenaration to a SSPC.		painting of complete tank	Blast Cleaning, priming and	SP10/NACE 2 Near White		ents	AWWA D-100		e. Hand rail on top of tank in	d. Remove and dispose of	roof hatch	c. 24-inch x 24-inch gasket on	requirements D-100	accordanc	new 24-inch frost proof root	existing roof vent and install	b Remove and disnose of	attached to ladder and 6-	safety climb rail system	system and install new	a Remove and dispose of existing safety climb rail	height.)	y Y	water storage tank	nominal 3,000,000-gallon	exterior	painting of complete	SP6/NACE 3 Commercial	e Conduct surface	painting of complete tank	Blast Cleaning, priming and	SP10/NACE 2 Near White	d. Conduct surface			-
	<u> </u>			_								344				¥?-				-									_			-	4				Quantity		
-	S	_		LS					S			S		50	7	2				C/S									LS			5	5				Unit	_	
\$0.00																																	16	O BIL	ò		Price Price	Pate Construction Co., Inc.	1
60.00																																					Price Price	IS Utilities	
																																	16	000	,	ŀ	Price Price	inc.	
																																	16	\$NO		ŀ	Unit Total Price Price	Construct	
\$240,550,00			W000,770,00	\$330 775 00				\$14,000,00	\$14 850 00			\$1,200.00	\$1,000		\$12,600.00					\$4,400,00									\$102,250.00			\$161,650,00				100	Unit	Swedish In	
\$240,550.00			0000,770.00					9:4,000.00				\$1,200.00	\$1,000,00		\$12,600.00					\$4,400.00								7	\$102.250.00			_					Total	Swedish Industrial Coatings	
\$250,000,00			990,000,00	2000000				\$30,000,00	20000			\$2,300.00	\$400.00		\$7,500.00					\$6,000.00								and an annual	\$56 200 00			\$161,650.00 \$107,100.00				- mod	Unit	Viking Indu	•
\$250,000.00			3495,000,00					\$30,000,00				\$2,300.00	\$400.00		\$7,500.00				4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\$6,000.00								#00,F00,00	\$56 200 00			\$107,100.00				71100	Unit Total	strial Painting	
\$337,750.00			\$4/0,4/5,00					\$15,000.00				\$1,500.00	\$1,000,00		\$5,500.00				60000	\$5,000.00								904,120,00	\$64 125 nn			\$88,480.00				Solita	Unit	Engineer	
\$337,750,00			\$470,475.00					\$15,000.00			- income	\$1,500,00	\$1,000,00		\$5,500.00				80,000.00	\$5,000,00								#0#, 125,00	484 125 00			\$88,480.00				Price	Total	Engineer's Estimate	

		SCHEDL		Item
extenor	Eliminate Item 3.g. above, in its entirety. Replace with conduct surface preparation to a SSPC-SP6/NACE 3 Commercial Blast Cleaning, priming and painting of complete	JLE 3 - ALTERNATE NO. 1:		Description
	•		Quantity	
8	,		Unit	
	16 BH		Unit Price	Pate Constru
80.00	₹\\		Total Price	Pate Construction Co., Inc.
			Price	RMS Ut
\$0.00			Price	RMS Utilities, Inc.
	Ja.		Price	KR Swerdfegi
\$0.00	10 gli		Price	KR Swerdfeger Construction, Inc.
	b		Price	Yocam Cons
\$0.00	10,00		Price	Yocam Construction LLC
	\$307,360.00		Price	Swedish Indi
\$307,360.00	\$307.360.00		Price	Swedish Industrial Coatings
	\$301,000.00		Price	Viking Indus
\$301,000.00	\$301,000.00		Price	Viking Industrial Painting Total
	00,000,0568		Price	Engineer
\$360,000.00	\$360,000.00		Price	Engineer's Estimate

### Duell Well

With the Duell well we took a radon test to see how much radon is in the present state to add it to the lake . The lab had measured it out to be (226+228) 88 parts per liter (PPL) . The present time the lake is measured out at 3.8 PPL if we were to add this well into the lake it would increase the PPL causing us to be out of compliance because max by state regulation for 226 and 228 is 5ppl. There is a way to clean the 226 and 228 redon out of the water but it will require the use of a unit that would remove it though with a filtration process and then the radioactive material would have to be disposed of as required. The figure to waste would be 375 lbs per day or 11,000 lbs per year that would have to be disposed of in a certified waste area. There would have to be training to certify some one to handle or cost to have it done by contractor. The cost to remove the radon would be anywhere from \$500,000 to \$1million plus maintenance and cost of disposal of waste.

The present well online are rated at #

	228	226	combined	
18 hole well	28	9.2	37.2	280 gpm
Rec well	6.2	0.2	6.4	180 gpm
Summit	3.7	0.7	4.4	225 gpm
Rodeo	3.0	1.4	4.4	250 gpm
			50.4 total	

The Duell well is 1 and ½ times the rate of all four wells.

		55	

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Colorado City Metro District

PWSID C00151200 Colorado City Metro District

SGS Job Number: DA41055X

Sampling Date: 01/18/22

### Report to:

Colorado City Metro District 4497 Bent Brothers Blvd Colorado City, CO 81019 colocityww@ghvalley.net

ATTN: Gary Golladay

Total number of pages in report: 14

TNI

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Jason Savoie General Manager

Client Service contact: Larisa DiMarco 303-425-6021

Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049) LA (LA150028), TX (T104704511), WY (8TMS-L), HI (CO00049), NJ (CO011)

This report shall not be reproduced, except in its entirety, without the written approval of SGS. Test results relate only to samples analyzed.

SGS North America Inc. • 4036 Youngfield St. • Wheat Ridge, CO 80033-3862 • tel: 303-425-6021 • fax: 303-425-6854

## Sections:

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Section 3: Misc. Forms	12
3.5: Chain of Custody	13

OA41055X



## Sample Summary

Colorado City Metro District

PWSID C00151200 Colorado City Metro District

Job No:

DA41055X

Sample Number	Collected Date	Time By Received		Mati Code		Client Sample ID		
DA41055-1X	01/18/22	14:30 AGGC	G 01/20/22	DW	Drinking Water	DUELL WELL		
DA41055-2X	01/18/22	14:30 AGGC	301/20/22	DW	Drinking Water	DUELL WELL		

## Giffette, WY 809.686.7175 - Helena, MT 977.472.0711

### ANALYTICAL SUMMARY REPORT

February 23, 2022

SGS Accutest 4036 Youngfield St Wheat Ridge, CO 80033-3862

Work Order:

C22010742

Quote ID: C5800

Project Name:

PWSID C00151200 Colorado City Metro District

Energy Laboratories, Inc. Casper WY received the following 2 samples for SGS Accutest on 1/24/2022 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C22010742-001	Duell Well 1X	01/18/22 14:30	01/24/22	Drinking Water	Radium 226 + Radium 228 Radium 226, Total Radium 228, Total
C22010742-002	Duell Well 2X	01/18/22 14:30	01/24/22	Drinking Water	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager .

Report Approved By:

Billings, MT 800.735.4489 - Casper, WY 888.235.0515 Gillette, WY 866.686.7175 - Helena, MT 877.472.0711

## LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

SGS Accutest

Project:

CO0151200

Lab ID:

C22010742-001

Client Sample ID: Duell Well 1X

Report Date: 02/23/22 Collection Date: 01/18/22 14:30

DateReceived: 01/24/22

Matrix: Drinking Water

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES, TOTAL		,					
Radium 226	39.2	pCi/L	7er		5	E903.0	02/15/22 11:52 / kdk
Radium 226 precision (±)	6.4	pCi/L				E903,0	02/15/22 11:52 / kdk
Radium 226 MDC	0.3	pCi/L				E903.0	02/15/22 11:52 / kdk
Radium 228	12.2	pCì/L	(*)		5	RA-05	02/07/22 14:59 / trs
Radium 228 precision (±)	2.5	pCi/L				RA-05	02/07/22 14:59 / trs
Radium 228 MDC	0.9	pCi/L				RA-05	02/07/22 14:59 / trs
Radium 226 + Radium 228	51.4	pCi/L	14-1		5	A7500-RA	02/15/22 13:33 / dmf
Radium 226 + Radium 228 precision (±)	6.8	pCi/L				A7500-RA	02/15/22 13:33 / dmf
Radium 226 + Radium 228 MDC	0.9	pCi/L				A7500-RA	02/15/22 13:33 / dmf

102.80

Report Definitions: RL - Analyte Reporting Limit

QCL - Quality Control Limit

 $^{\star}$  - The result exceeds the Maximum Contaminant Level (MCL)

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)

Page 2 of 7



Billings, MT 800.735.4469 . Casper, WY 888.235.0515 Gillette, WY 866.G86.7175 . Helena, MT 877.472.0711

### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

Client:

SGS Accutest

Project: Lab ID:

CO0151200 C22010742-002

Client Sample ID: Duell Well 2X

Report Date: 02/23/22 Collection Date: 01/18/22 14:30 DateReceived: 01/24/22

Matrix: Drinking Water



Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
TOTAL							
RADIONUCLIDES, TOTAL	0.50	- 0://			5	E903.0	02/15/22 11:52 / kdk
Radium 226		pCi/L			J		02/15/22 11:52 / kdk
Radium 226 precision (±)	5.7	pCi/L				E903.0	
Radium 226 MDC	0.3	pCi/L				E903.0	02/15/22 11:52 / kdk
Radium 228	13.6	pCi/L			5	RA-05	02/07/22 14:59 / trs
Radium 228 precision (±)	2.8	pCi/L				RA-05	02/07/22 14:59 / trs
		pCi/L				RA-05	02/07/22 14:59 / trs
Radium 228 MDC			*		5	A7500-RA	02/15/22 13:33 / dm1
Radium 226 + Radium 228		pCi/L			5		02/15/22 13:33 / dmf
Radium 226 + Radium 228 precision (±)	6.4	p.Ci/L				A7500-RA	
Radium 226 + Radium 228 MDC	0.9	pCi/L				A7500-RA	02/15/22 13:33 / dmf

Report Definitions: RL - Analyte Reporting Limit

QCL - Quality Control Limit

\* - The result exceeds the Maximum Contaminant Level (MCL)

MCL - Maximum Contaminant Level

ND - Not detected at the Reporting Limit (RL)

Page 3 of 7

Client: SGS Accutest

Radium 226 MDC

## **QA/QC Summary Report**

Prepared by Casper, WY Branch

Client:	SGS Accutest				Work Order:	C2201	10742	Repo	rt Date	: 02/15/22	
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	E903.0							-		Batch: RA226	SDW Agan
Lab ID:	LCS-RA226DW-0803	3 Labo	ratory Cor	itrol Sample			Pun: G5000	W_220128B			
Radium 2	226		21	pCi/L	•	104	90			02/15	/22 11:52
Radium 2	226 precision (±)		3.5	pCi/L		104	90	110			
Radium 2	226 MDC		0.28	pCi/L							
Lab ID:	MB-RA226DW-0803	3 Metho	od Blank				Run: G5000	W_220128B		00/45	00.44.50
Radium 2	226		0.2	pCi/L			rtan. 00000	W_220120D		02/15/	/22 11:52
Radium 2	226 precision (±)		0.3	pCi/L							U
Radium 2	226 MDC		0.3	pCi/L							
Lab ID:	C22010810-001SDUP	3 Samp	le Duplica	te			Rup: G5000	W_220128B		001451	50.44.50
Radium 2	26		0.10	pCi/L			ran. Goddo	VV_220120B	0.4		22 11:53
Radium 2	26 precision (±)		0.30	pCi/L					84	20	UR

pCi/L - Duplicate RPD is outside of the acceptance range for this analysis. However, the RER is less than the limit of 2, the RER result is 0.7,

0.33

### Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

U - Not detected at Minimum Detectable Concentration (MDC)

Page 1 of 2

Page 4 of 7



## **QA/QC Summary Report**

Prepared by Casper, WY Branch

Client: SGS Accutest

Work Order: C22010742

Report Date: 02/15/22

Analyte	Count	Result	Units	RL.	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: RA-05								E	atch: RA228	3DW-0783
Lab ID: LCS-228-RA228DW-0	7 3 Labo	ratory Cor	itrol Sample			Run: G542l	M_220128A		02/07	/22 14:59
Radium 228		6.8	pCi/L		105	80	120			
Radium 228 precision (±)		1.7	pCi/L							
Radium 228 MDC		0.91	pCi/L							
Lab ID: MB-228-RA228DW-0	7 3 Meth	od Blank				Run: G542	M_220128A		02/07	//22 14:59
Radium 228		0.4	pCi/L							U
Radium 228 precision (±)		0.9	pCi/L							
Radium 228 MDC		1	pCi/L							
Lab ID: C22010806-001SDUF	3 Sam	ple Duplica	ate			Run: G542	M_220128A		02/07	7/22 14:59
Radium 228		0.036	pCi/L					220	20	UR
Radium 228 precision (±)		0.78	pCi/L							
Radium 228 MDC		0.81	pCi/L							

<sup>-</sup> Duplicate RPD is outside of the acceptance range for this analysis. However, the RER is less than the limit of 2, the RER result is 1.1.

Qualifiers:

RL - Analyte Reporting Limit

R - Relative Percent Difference (RPD) exceeds advisory limit

ND - Not detected at the Reporting Limit (RL)

U - Not detected at Minimum Detectable Concentration (MDC)

Page 2 of 2

Page 5 of 7





## Dissolved Air Flotation (DAF) Pilot System Report

**Engineering Evaluation Study** 

PROJECT NO. 21-111.10

Date: August 3<sup>rd</sup>, 2022

## PREPARED FOR:

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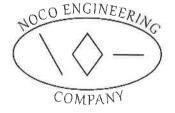
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### 1. Executive Summary

NEC was hired to coordinate and operate a pilot Dissolved Air Flotation (DAF) system at Colorado City Metropolitan District (CCMD). Our objectives for the DAF pilot study were established to meet the existing and future needs of CCMD and they are as follows:

- 1. Improve overall finished water quality.
- 2. Decrease disinfection by products (DBPs) in the distribution system.
- 3. Increase reliability and performance of the existing membrane system.
- 4. Decrease the need for onsite monitoring of the existing water treatment system.

To achieve our objectives, we evaluated several different pretreatment systems. After completing the evaluation process, we found that a DAF system would help meet our objectives. As part of design process, the DAF system must be proven to work with CCMD's existing water source. Two (2) different coagulant chemical combinations, that are compatible with the existing membrane system, were evaluated throughout the DAF pilot study. Our goal was to evaluate more chemicals regimes, however the membrane system is only compatible with a few select chemicals, limiting our choices. From the results of the pilot testing, we determined the maximum flux rate through the DAF system was 8 gpm/sf. Operating at higher flux levels led to higher turbidities and poorer water quality. We found that the two (2) coagulant chemicals were able to reduce the Total Organic Compounds (TOCs) in the finished water.

We were able to achieve a turbidity reduction of 96% (Raw Water vs. DAF Effluent Water), however our TOC reduction was only 24% (Raw Water vs. DAF Effluent Water). When analyzing water samples for TOC, standard test procedures should be followed (EPA Measurement of TOC in Water, Method 415.3) such as; running sample water through a filter media or through a filter paper prior to analysis. If the sample is not filtered, the TOC results will be higher, as there will still be coagulants bound to organic matter within the sample. The filter process will remove coagulants bound to the TOC within the finished water. We saw at our other pilot study at Carter Lake Filter Plant (CLFP) using the DAF pilot plant was a turbidity reduction of ~78% with TOC reductions in the range of 55% to 62%. Based on previous pilot test results the TOCs reduction, if properly measured, CCMD TOC reduction should be in the range of 50% to 70%.

Overall, we found that DAF system performed well, and have concluded that the DAF system should be designed at a flux rate of 6 gpm/sf, utilizing CCMD's existing water source. We saw large algae debris coming into the DAF system which settled within the clarifier column. With the existing configuration of the raw water distribution system, we recommend installing a microstrainer upstream of the DAF system which will remove debris (greater than 1.0 mm in size) from the raw water. After the DAF system, we recommend installing a mixed media filter assembly prior to the use of existing membrane modules. Utilizing a mixed media filter prior to the membrane system will allow for a broader range of chemicals to be selected for use within the DAF pretreatment system. We have found that other chemicals (polymers, which are not compatible with membrane modules) can drastically improve water quality and help increase TOC reduction, and can be utilized if a mixed media sand/anthracite filter is installed.

Currently, the membrane modules are tasked with treating water (Raw Water) with a turbidity of ~6.0

NTU. Utilizing the DAF pretreatment system and proposed mixed media filter assembly, clarified water will have turbidities in the range of 0.01 to 0.05 NTU. The use of mixed media filters will reduce loading on membrane modules, decrease the time between clean-in-place and backwash procedures, and increase the life-cycle of the membranes. CCMD will observe a higher reduction of iron and magnesium, as well as a decrease in color issues within finished water. Lastly, the mixed media filter out performs the membrane module system in regards to TOC removal. Overall, with the installation of a microstrainer prior the DAF system, with two-stage flocculation and a flux rate of 6 gpm/sf though the DAF, and with two (2) mixed media filters installed downstream of the DAF system (prior to the membrane module system), we are able to achieve all our objectives.

### 2. Introduction

CCMD is evaluating a DAF pretreatment system for a proposed plant expansion project. The operation and testing of the DAF pilot system utilizes the same raw water (Lake Beckwith Reservoir) as CCMD's Beckwith Water Treatment Plant (WTP). CCMDs raw water source is the Lake Beckwith Reservoir, which receives flows from Greenhorn Creek; however, Greenhorn Creek is historically dry and rarely contains water. Raw water stored in Beckwith Reservoir is treated at the Beckwith WTP, which currently has a 1.25 MGD capacity, with the ability to expand to 2.5 MGD capacity (with additional membrane modules).

Historically, Lake Beckwith has had fairly consistent water quality, for most of the parameters, through the seasons, with the biggest variations in water quality pertaining to differing levels of Total Organic Carbon (TOC) and Turbidity (NTU). TOC and turbidity variations are historically observed on windy/dusty days or when there is a large amount of surface runoff (flooding) into Greenhorn Creek, and/or Beckwith Reservoir. There are currently no observed, nor anticipated changes in the raw water stream (influent stream). NEC does not foresee any impacts to corrosivity, nor changes in pH, ORP, or alkalinity with the implementation of a DAF pretreatment system. However, in order to filter large particulate matter from the raw water stream, NEC recommends the installation of a micro strainer (or nano strainer) upstream of the DAF pretreatment system.

Historically, CCMD's contact time for the coagulation process is roughly eighteen seconds (18 sec.), from the time the coagulants are added to the water, to the time the water reaches the membrane modules. Currently, the coagulants clog-up the membrane modules, which cannot be thoroughly cleaned by backwashing or through the clean-in-place process and sometimes will have to be manually cleaned. This is a typical issue with membrane facilities with little to no contact time and leads to a reduction in plant efficacy along with a variety of other issues.

Historically, finished water has a high chlorine demand, due to the inefficient coagulation process. This high chlorine demand is one of the causes of high levels of DBPs in the distribution system. When natural organic matter (TOC) is not removed during the pretreatment or treatment processes, and chlorine is added, the chemical interactions may produce DBPs. NEC and CCMD have found that the addition of chlorine dioxide has drastically helped decrease DBPs in the distribution system, reducing DPB levels below Maximum Contaminant Limits (MCLs) but does not eliminate all of the DBPs from the distribution system.

The overall goal of the pretreatment process is to improve finished water quality through the reduction of TOCs, reduce the propensity for DBP formation, and improve filtration performance by the reduction of turbidity in the raw water stream entering the existing membrane modules.

In May of 2022, NOCO Engineering Company (NEC) mobilized and operated AWC's Dissolved Air Flotation (DAF) Pilot System at CCMD's water treatment building, for a pretreatment efficacy study. The DAF system utilized a surface loading rate of 8 gpm/sf and at 12 gpm/ft with two stage flocculation. The contact time within the two-stage flocculation was 20 minutes and 15 minutes, respectively. The varying surface loading rates will be utilized to determine the clarified water quality characteristics and will help determine the surface loading rate amount for design purposes.

### Background

Other pretreatment alternatives such as Plate Settlers and Tube Settlers were examined. DAF was selected after analyzing the needs of CCMD, and after comparing the advantages/disadvantages of a DAF system with the other alternatives outlined. When compared to Plate/Tube Settlers, DAF pretreatment systems have a relatively smaller footprint, a lower up-front capital cost, similar annual chemical costs, and produce the highest quality of water. DAF pretreatment, when compared to other alternatives, provides the largest reduction in turbidity, largest removal of TOC, aids in the oxidation of iron and manganese, and has the potential to decrease taste and odor issues should they arise. Operational advantages of a DAF system include: relative ease of installation/start-up, increased mixing/detention time for coagulation/flocculation, reduced frequency of backwash cycles and clean-in-place membrane filters. Reducing the frequency of proposed mixed media filter and membrane backwash/cleaning, combined with high-quality effluent (DAF), increases the overall lifecycle of the filter assembly and overall plant production.

### 3. Objectives

Objectives for the DAF pilot were established to meet the needs of CCMD and their customers. The objectives are as follows:

- 1. Improve overall finished water quality.
- 2. Increase run times on the existing membrane modules by decreasing the turbidity in the feed water. Increase run times and clean-in-place intervals by reducing turbidity.
- 3. Increase removal of total organic carbon (TOC), which in turn lowers disinfection byproduct levels (DBP) in the distribution systems.

To achieve our objectives, we evaluated two (2) different chemical combinations and various DAF surface loading rates. The results of the study are shown later in the repot.

### 4. DAF Pilot System Configuration

The dimensions of the AWC DAF pilot system were 9'3" (length) x 5'6" (width) x 10'8" (height). Two different surface loading rates were evaluated in the DAF pilot, 8 gpm/sf and 12 gpm/sf. The flocculation contact time for the two surface loading rates was 20 minutes and 15 minutes, respectively.

The configuration of the DAF pilot skid system consisted of: a raw water storage container (to break the line pressure prior to the DAF Pilot), an inlet pipe with isolation valve, a magnetic flow meter, a feed pump, chemical injection ports, three (3) chemical dosing pumps, two (2) consecutive flocculation cells with hydrofoil style mixers, a level controlled recycle/air saturation system, discharge pH and turbidity meters, effluent tank with 2-inch (2") discharge outlet, observation windows in the diffuser and clarifier, DAF sampling ports, manual drain ports for each section, an automatic chain and float skimmer, and a control panel to set test parameters and record pilot run data (control panel did not work however, as data logger assembly did not record nor collect data).



Image 1: AWC Pilot DAF Skid System – Control Panel and Clarification Column

## A. Flocculation/Coagulation and Mixing Chamber Configuration

Coagulation and flocculation are chemical and physical treatment processes, respectfully, utilized to remove/reduce turbidity and TOC in the raw water through the DAF treatment process. Coagulation is the first-stage of pretreatment which utilizes chemical addition (Coagulants and Coagulant Aids, See Table 3, Page 12) to encourage floating particulate matter to combine and bind to form clusters known as "floc". Coagulants are made up of positively charged molecules, which help to provide effective neutralization of water and increases the potential for floc formation.

Flocculation is the physical mixing process that assists the coagulation process. Raw water and coagulants are mixed in a two-stage flocculation basin (mixer), accelerating the rate of particle collision and leading to increased floc formation through coalescence/agglomeration of suspended particles. The DAF pilot system consisted of a two-stage mixing chamber, where the rotational velocities of flocculators are adjusted dependent on the water quality and chemicals being used. Typically, the first stage flocculation is at a higher rotational speed then the second stage flocculation.

- B. Air Saturators and Skimmer Configuration
  - After coagulation and flocculation are achieved, water enters the air saturation chamber where saturated air and water consisting of microscopic air bubbles (approximately fifty microns [ $^{\sim}50~\mu m$ ] in diameter) are introduced. Floc becomes entrained by the upward moving flow of micro air bubbles, rendering the floc buoyant as it floats to the top of the DAF pilot system. The water flows from the top of the aeration chamber over the baffle wall to the clarification chamber. The clarification chamber contains an inclined baffle wall (experimental) which can reduce the potential for dense layers of non-aerated water to pass down into the air inlet zone. The buoyant floc rises and is forced up to the surface of the clarification chamber where the skimmer removes the buoyant floc and transfers the floc through the sludge collection chamber/trough to the discharge stream. Within the waste discharge stream, sprayers are configured to clean skimmer brushes/blades.
- C. Proposed Mixed Media Filtration Configuration

Clarified water is collected at the base of the DAF system, where clarified effluent water samples were collected through a built-in sampling port. Ideally, clarified water would have been conveyed to a mixed media filtration assembly. However, due to the timing of the pilot study, a mixed media filtration assembly was not installed nor utilized. It is NEC's recommendation that at least two (2) independent mixed media filter assemblies be installed at the back-end of the DAF pretreatment system. Two (2) independent filter assemblies shall be constructed such that during filter backwashing procedures (backwash process duration = 5 minutes – 10 minutes) at least one filter assembly shall remain operational such that production is continuous through backwashing.

- 1. Proposed Mixed Media Filter Assembly:
  - Shall consist of a media screen, effluent outlet port, backwash inlet port, and a waste port.
  - Shall be equipped with one (1) of the following: an adjustable speed supply pump, rotameter, backwash pump, backwash water holding tank with outlet flow control globe valve, an effluent outlet solenoid valve, backwash inlet solenoid valve, and a rotameter.
- 2. Mixed Media Configuration:
  - Minimum twelve-inches (12") of filter sand (effective size 0.45 mm 0.55 mm)
  - Minimum thirty-six-inches (36") of anthracite (effective size 0.95 mm 1.05 mm)
- D. Output Parameters

Both pilot plants had instrumentation that measured a variety of parameters. The following parameters were collected for the study:

- 1. DAF Pilot
  - a. Raw water turbidity
  - b. Effluent water turbidity
  - c. Raw water flow rate which was used to set the surface loading rate on the DAF pilot
- 2. Manual Parameters
  - a. Raw water TOC
  - b. Finished water TOC

## 5. DAF Pilot System Start-up Procedures

Prior to starting up the pilot plant, the operator checked for leaks, cracks, visual damage, and ensured that all valves and devices/instrumentation were in working order. All isolation valves were in the open position and drain valves were in the closed position. All isolation valves and recycle pumps were operated automatically, while other equipment (pumps, mixers, skimmers, etc.) were manually operated, one at time, prior to treatment. Components of the DAF pilot system, including the clarification chamber, tanks, and all other components where debris may have accumulated, were rinsed prior to filling with clean water and were cleaned prior to testing a new chemical regime.

Clean water is utilized to start up the DAF pilot plant; using raw water for start-up can cause damage to recycle pumps, saturator, valves etc. Once the operator was satisfied that the pre-start up checks had been completed, the operators then began the treatment process.

### A. Chemical System Start-Up Procedures

Prior to operating the DAF pilot system, chemical pumps (Blue-White Flex Flow A-100N) were primed and ready for service (operator shall refer to manufacturer's O&M for operating instructions). The operator ensured that chemical levels are well above the foot valve/pump suction and inspected all plumbing/piping for any leaks or cracks. Chemical dosing was verified at a minimum of twice per chemical regime.

### B. DAF Data Collection

DAF system data was continuously monitored and collected for both raw water (influent) and clarified/filtered water (effluent) samples. Routine samples were collected and analyzed within CCMD's water quality sampling laboratory, utilizing turbidimeters and TOC analyzers.

<u>Turbidimeters/Analyzers:</u> A Hach TU5400 StableCal RapidCal Laboratory Laster Turbidimeter was utilized to test and monitor turbidity in raw water and clarified DAF treatment effluent water. A formazin solution was used to calibrate the laboratory turbidimeter.

<u>Total Organic Carbon (TOC) Analyzer:</u> A Hach DR3900 Laboratory TOC Analyzer was utilized to test and monitor TOC in raw water and clarified DAF treatment effluent water.



Image 2: CCMD Laboratory Analyzers – Hach TU5400 Turbidimeter (NTU), Hach DR3900 Total Organic Carbon (TOC) Analyzer

## 6. Operating Procedures/Methodology

### A. DAF Pilot System Instrumentation

The instruments on the AWC pilot skid include: raw water flowmeter (FIT 011), clarified water turbidity meter (AIT 131) and pH probe (AE 130). The flowmeter (FIT 011) reading was used to pace the chemical pumps P-800, PMP - 830 and PMP - 850. The saturator includes a level transmitter (LT - 160) which is used to control the recycle pumps flow (through VFD). A pressure transmitter (PT-165) with a high-level alarm on the saturator increases the pressure inside the saturator to a set value (80 to 90 psi to be set during commissioning). A majority of the operation of the pilot equipment is automatic with some parameters requiring manual inputs.

The DAF pilot system contains a built-in control panel, providing semi-automatic operations, including an emergency stop (E-Stop) button for the DAF process. The power requirement for the panel and related equipment is: 125/250 VAC 50A [14-50R].

### B. Raw Water

The AWC DAF skid influent piping was staged to draw water from downstream of the chlorine dioxide injection on the raw water piping prior to the membrane modules. Raw water was fed through a two-inch (2") hose directly into the DAF system pilot skid trailer. A centrifugal pump with flow controlling valve (globe valve) pumped the raw water to the DAF pilot to achieve a steady state flow rate.

### C. Chemical Addition

The influent flow was manually adjusted using globe valve (GV - 010). The feed pump (P-010) provides the required pressure to pump water into the flocculation mixing chambers and overcome head losses. Magnetic flowmeter (FIT - 011) measures the influent flowrate. The chemical dosing peristaltic pumps (PMP-830, PMP-800, and PMP-850) were calibrated and set manually (chemical feed flow rate) using the peristaltic pump speed setting dial, a set of calibration columns (graduated cylinders), and a stopwatch.

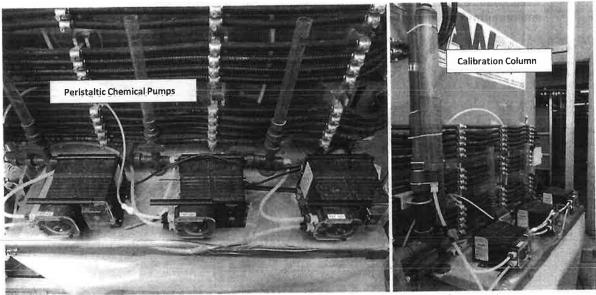


image 3: AWC DAF Pilot System Chemical Dosing Pumps (PMP-830, PMP-800, PMP-850) and Calibration Columns

### D. Coagulation and Flocculation

The coagulants were introduced in the influent raw water line prior to the in-line static mixer (ILM – 011) and flocculation chamber (TK-111). During Stage-1 of mixing (MX-111), the flocculator provides mixing energy (~100 rpm) to increase the rate at which the chemical reaction (coagulation) occurs. The increased mixing speed prevents the flocculant from getting too large and settling at the bottom of the clarification chamber. Next, water flows into Stage-2 of mixing (MX-112), where there is a lower rotational velocity (~60 rpm). The reduced mixing intensity promotes greater floc interaction/collisions combining to form larger floc. Throughout preliminary testing of the DAF assembly, operators determined that a twenty-minute (20 min.) flocculation detention time was required to ensure raw water and coagulants/flocculants were fully mixed, homogenized. The total volume of the combined (two-stage) flocculator mixing chamber is 106 gallons.

### E. Air Saturator Configuration

Approximately 8% - 10% of the design flow is recycled to generate saturated water, with water from the clarified water collection chamber (DAF effluent) feeding the recycle pump(s) (P-150/151). As the water enters the saturator, compressed air is introduced (C-161), and the air space pressure is maintained (~70 psi) by a pressure control valve plumbed at the air inlet port of the air saturator. The pressure control valve is a manual valve may be adjusted by the operator. The air compressor is controlled through the control panel and turns on/off using a pressure switch. The compressor is protected from over pressure by a pressure safety valve. Clarified water and recycle flow enters the top of the saturator and as it flows down, it is exposed to a stream of compressed air and mixing to create a saturated-water solution. The pressure gauge (PT-165) monitors the saturator pressure, and will trigger an alarm and shut off the recycle pump and DAF influent pump if the saturator pressure exceeds 90 psi. Air-saturated water exits from the bottom of the saturator through an on/off valve (LV-160) to an injection manifold with 1/8" orifice nozzles within the air saturation zone. The nozzles cause a sudden release of pressure and dissolved air is released from the solution in the form of microscopic bubbles. Careful design and orientation of the saturator's nozzles eliminates the potential for turbulent recycle flows damaging the incoming floc.

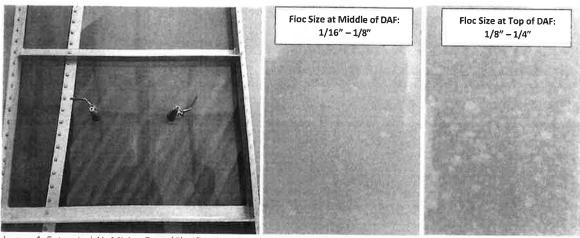


Image 4: Saturated Air Mixing Zone (Clarification Chamber) – Formation of Floc, Baffles, and Approximate Floc Sizes

### F. Skimmers, Collection Chamber and Wash Spray

The floating floc, which is formed at the surface of the DAF assembly, is periodically removed by a mechanical (variable speed) surface skimmer (SK-121). When operational, the skimmer gathers and pushes the float floc into the sludge collection chamber/trough, where it drains to waste. The duration and frequency can be adjusted on the control panel. A spray bar with a solenoid valve (XV-130) is installed within the DAF float trough to assist in the removal of float build-up in the sludge removal trough. The spray bar solenoid valve has a manual switch which can control the duration and frequency of spray when required. Clean water for the spray wash is supplied via the saturator assembly. Upon plant shutdown or stand-by, the skimmer shall continue to operate for one (1) complete revolution to ensure all float is removed from the surface.

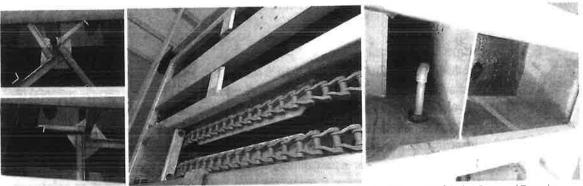


Image 5: Two (2) Variable Speed Flocculator Mixing Chambers, Surface Skimmer, and Spray Bar/Sludge Removal Trough

#### G. Clarified Water

Clarified water, below the floating floc, passes above baffling and enters the clarified water chamber. The clarified water chamber is equipped with an overflow line, to direct any overflow water into the drain. In-line turbidimeters and pH analyzers (AIT -131 and AE -130) constantly monitor clarified water turbidity and pH, respectively. Clarified water samples are collected at the base of the DAF system from the sampling tap (ST -1310), for additional CCMD laboratory testing.

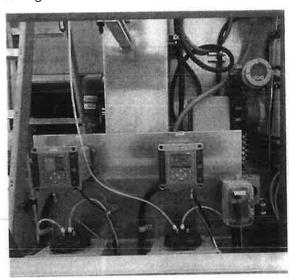


Image 6: AWC DAF Pilot Turbidimeters (2 Total)

#### H. Shut Down Procedures

To shut down the treatment plant, select "OFF" mode on the control panel. After shutting down the DAF system, the skimmer will run for one (1) full revolution, skimming all remaining floating floc, so it doesn't settle and transfer through the DAF effluent stream to the proposed membrane module filter assembly. Similarly, the flocculators will remain on after the DAF shut-down, to ensure that no floc settles at the bottom of the tank.

If the tank needs to be drained, the operator can manually shut-down the flocculators by using the manual switches located on the control panel. For long term shutdown (greater than 3 days) the tank shall be drained and the chemical lines should be flushed and cleaned out. For short term shutdowns (less than 3 days) the tank does not need to be drained, and chemical lines may not need to be flushed.

## I. Emergency Procedures

If under any circumstance, the AWC DAF pilot system equipment malfunctions or poses an imminent safety threat, press the large red "E-STOP" button located on the DAF control Panel. Pressing the E-Stop button on the control panel cuts power to all the motors and instruments on the DAF skid. It should be noted that when pressing the "E-STOP" button, the treatment process may be lost and the tank may have to be drained out and restarted to begin producing high quality effluent.

## J. Maintenance Schedule/Procedures

Table 1 contains a list of equipment and a general maintenance function and maintenance schedule for the plat (for reference only). Prior to scheduling maintenance work, CCMD staff shall refer to the manufacturer's manual for details on all components. It is highly recommended to reference and follow the step-by-step maintenance and calibration procedures provided by the manufacturer for all instruments. This will also ensure that the warranty is not voided.

Table 1: General Maintenance Function and Maintenance Check-Up Schedule

#	Item	Maintenance Function	Schedule			
		PIPES, VALVES AND PIPE FITTINGS	3354			
1	Valves	Check, tighten, exercise and follow maintenance procedures in the manufacturer O and M manual.	Monthly			
	4	METERS AND GAUGES				
2	Electric Actuators	Inspect, clean and follow maintenance procedures in manufacturer O and M manual.	As needed			
3	Pressure Gauge Transmitters	Check, clean and re-calibrate and follow maintenance procedures in manufacturer O and M manual,				
4	Flowmeters	Calibrate, clean and follow maintenance procedures in manufacturer O and M manual.	As needed			
		WATER TREATMENT PLANT EQUIPMENT				
5	Filter Nozzles	Inspect for large bubbles or visual inspection when tank is drained. Replace if required.	Biannually			
6	Filter Media  Inspect to see troughs are level, check for mounding, cracks, craters, irregular or uneven flow across the basin, more aggressive action in some spots and less in others		Biweekly			
7	Goulds NPE Pumps	Refer to pump manufacturers manual for maintenance and preventative maintenance procedures.	Monthly			
8	Compressor	Inspect Lubrication, inspect for air leaks, inspect/replace filter elements.  Refer to manufacturer maintenance procedures.	As Required			
		CONTROLS				
9	Electrical Panel	Push to test – light/button	Weekly			

## 7. AWC Pilot DAF Treatment Results

# A. Coagulation/ Chemical Addition (Test Parameters)

Various chemical dosages and system parameters were tested so a clear understanding of the DAF pilot system performance capabilities could be developed and a future CCMD treatment design criteria established. The primary coagulants tested throughout the study were CC-2020 and CC-2500. CC-2020 is identical in composition to CC-2500, with the only difference being the concentration. CC-2500 has a concentration of 12.5%, whereas CC-2020 has a concentration of 10.5% (chemical manufacture: USALCO). A list of chemicals utilized throughout the DAF pilot system test can be found in Table 2, and MSDS data sheets can be found within the Attachments.

Table 2: Coagulants Utilized During DAF Pilot Run #1 and Run #2

Coagulant Name	Chemical Composition Description
CC-2020	Coagulant containing no polymers (Mixed Media Filters and Membrane Filters)
CC-2500	Coagulant containing no polymers (Mixed Media Filters and Membrane Filters)

Prior to beginning DAF pilot system testing, a set of coagulation/flocculation chemicals were analyzed (jar tested) for treatment effectiveness, as well as for integration/utilization at both CCMD's proposed mixed media filter assembly and CCMD's existing membrane modules. A list of the following chemicals, and concentrations utilized within each test (Run #1 and Run #2) are contained in Table 3, below. Material Safety Data Sheets (MSDS) are provided within the attachments at the end of this report for each of the chemicals respectively.

Table 3: Test Parameters, Chemical Additions for Run #1 and Run #2

	DAF Pilot Chemical Additive  Concentrations								
Run #	CC 2020 (mg/L)	CC 2500 (mg/L)	Set Flow Rate (gpm)	Surface Loading Rate (gpm/ft²)					
1		40	27	8					
2	15	15	27	8					

The optimum coagulant dosage (Run #2) with respect to overall system performance on Lake Beckwith Reservoir raw water was determined to be: 15.0 mg/L of CC-2020 (coagulant), and 15.0 mg/L of CC-2500 (coagulant).

# B. DAF Results (TOC Removal)

Total Organic Carbon (TOC) is the amount of organic compounds contained in a water sample, which can be dissolved in water (liquid form) or exist in water as undissolved, suspended material. Organic matter may be plant or animal based, synthetic substances, and/or mineral carbon-containing compounds. TOC results can be used as quality control measures and as a means to monitor the efficiency/effectiveness of the DAF pilot pretreatment system. A laboratory analysis of raw water TOC and clarified water TOC was performed at CCMD's laboratory, with TOC results compared before and after pretreatment (DAF). A Hach DR3900 Laboratory TOC Analyzer was utilized to test and monitor TOC in raw water and clarified DAF treatment effluent water throughout DAF pilot sample tests. After completing DAF pretreatment sample tests (Run #1 and Run #2) and analyzing data, NEC collected and presented TOC results in Table 4.

Table 4: Raw Water vs. DAF Effluent (Range of TOC Removal, DAF Effectiveness)

Run #1	Raw Water TOC	Finished Water TOC	Percent Reduction (%)
	3.2	5.3	N/A*
Run #2	Raw Water TOC	Finished Water TOC	Percent Reduction (%)
	3.2	2.4	25%*

<sup>\*</sup>Prior to TOC laboratory analysis, DAF effluent water was not filtered, and contained debris that had settled at the base of the DAF. TOC data collected during Run #1 proved to be inaccurate and therefore results shall be considered invalid (Raw Water TOC cannot be greater than Finished Water TOC unless there was an error in sampling or testing procedures. As for Run #2 TOC removal results should be closer to 50% especially when there was a recorded 85%-95% reduction in turbidity. We found the samples were not filtered prior to sampling which leads to higher levels in the samples. At CLFP, we saw 68% reduction in turbidity with 50-62% reduction in TOCs and CCMD has 85-95% reduction in turbidity with only a 25% reduction in TOCs. We found similar results to be true at CLFP when the water was not filtered correctly.)

## C. DAF Results (Turbidity Reduction)

Turbidity is a measure of how particulate matter in water scatters light, a parameter utilized to determine the "clarity" of water. Results of turbidity analysis can be utilized to indicate the presence of bacteria, pathogens, and particles which may shelter harmful organisms from disinfection processes. Turbidity results can be utilized as a quality control measure, and as a means to monitor the effectiveness of the DAF pilot pretreatment system.

A laboratory analysis of raw water turbidity and clarified water (post DAF) turbidity was performed at CCMD's laboratory and turbidity results compared before and after pretreatment (DAF). A StableCal RapidCal Laboratory Laser Turbidimeter was utilized to test and monitor turbidity in both raw water and clarified DAF treatment effluent water, throughout the duration of DAF pilot testing. After completing multiple DAF pretreatment sample tests (Run #1 and Run #2) and analyzing data, NEC collected and presented turbidity results before and after pretreatment, in Table 5.

Table 5: Raw Water vs. DAF Effluent (Range of Turbidity Reduction, DAF Effectiveness)

Run #1	Raw Water Turbidity	DAF Effluent (Clarified	Percent
	(NTU)	Water) Turbidity (NTU)	Reduction (%)
Average	7.22	0.302	96%
Run #2	Raw Water Turbidity	DAF Effluent (Clarified	Percent
	(NTU)	Water) Turbidity (NTU)	Reduction (%)
Average	6.50	0.679*	95%

<sup>\*</sup>We saw a large debris coming into the DAF unit which lead to higher results. Ignoring the high sample results the average would be approximately 0.3 NTU.

The results of the DAF pilot system (Run #1 and Run #2) describe the effectives of DAF pretreatment, with levels of turbidity (NTU) reduction averaging 96% (Raw Water vs. DAF Effluent Water).

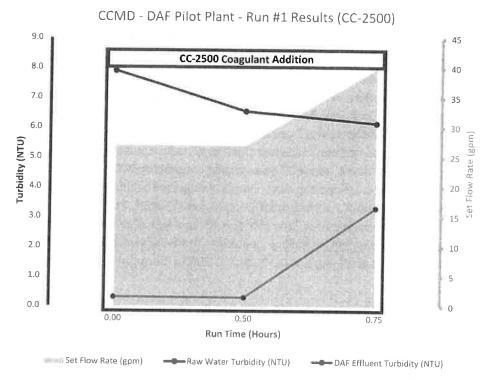
D. Monitoring pH data

pH (potential of hydrogen) is a water quality measurement, pertaining to the level of acid/base in a water sample (pH range of 0-7 = acidic, pH range of 7–14 = basic). pH is a measurement of the relative amount of free hydrogen and hydroxyl ions in the water sample. Samples that contain more free hydrogen ions will be acidic, whereas samples containing more free hydroxyl ions will be basic.

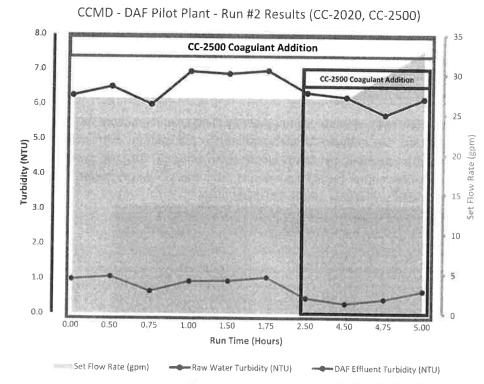
Excessively high and low pH readings can inform operators of potentially detrimental water sources. Water with high pH can results in a bitter taste, water pipes and fittings becoming encrusted with deposits, and reduces the effectiveness of chlorine disinfection, resulting in the need for additional chlorine when pH is high. Water with low pH can result in corrosion of pipes/fittings and can lead to metals or other substances dissolving into the water source (increasing the solubility) which may impact the effectiveness of pretreatment and filtration, leading to water quality issues downstream. No pH data was collected for either Run #1 or Run #2, however, in the future CCMD should monitor pH data and have a plan in place if pH changes drastically.

8. AWC DAF Pilot System Graphical Results (Run #1 – Run #6)

In order to determine the applicability and effectiveness of the DAF system to treat CCMD raw water, a series of tests (DAF pilot runs) were performed. Variations in test parameters include: DAF Flow Rate (capacity, gpm) through DAF, DAF Surface Loading Rate (gpm/ ft²), and Chemical Addition (coagulants - coagulant aids). Graphical data for each of the two (2) test scenarios are presented below (Graph 1 and Graph 2).



Graph 1: DAF Pilot System Results – Run #1



Graph 2: DAF Pilot System Results - Run #2

## 9. DAF System Effectiveness

The objectives of the pilot study were to determine the ideal DAF pretreatment configuration in regards to: DAF flocculation mixing velocities/detention time, chemical addition (coagulants/coagulant aids), flow rate/surface loading rate, air saturator configuration, and skimmer speed. A secondary objective was to determine and verify ideal operating conditions of the DAF pretreatment system at CCMD, while meeting the primary objectives. Throughout the pilot study, two (2) unique test configurations (Run #1 and Run #2) were completed. The DAF system is effective at a maximum surface loading rate of 8 gpm/sf (27 gpm), with each of the two (2) chemical regimes. At the end of each run, the DAF flow rate was increased to 40 gpm (surface loading rate of 12 gpm/sf). When the DAF flow rate was increased, above 27 gpm, a spike in turbidity (NTU) was observed and recorded. Each of the two (2) runs utilized the same chemical coagulant additive, CC-2500. Run #1 only utilized CC- 2500, whereas Run # 2 utilized both CC-2500 and CC-2020. The DAF pilot run times varied from a low of approximately one hour (1 hr.) for Run #1, to a high of five hours (5 hrs.) for Run #2. The chemical regime recommended for startup operations at the Beckwith Pretreatment DAF Plant was: 15 mg/L of CC-2020, and 15 mg/L of CC-2500. CC-2500 is better at TOC reduction then CC-2020 by itself.

Raw water turbidities were sampled throughout Run #1 and Run #2, and were found to be in the range of 5.7 NTU – 7.9 NTU. This is a large range and in unexpected especially with the short time frame when testing occurred. Weather and temperature conditions were similar throughout the testing period. It was noticed by the operators that large debris (>1mm in size) would inconsistently come in the DAF system and break down in the aeration phase of the DAF unit. When the debris came in, they noticed a higher level in finished water turbidity (>1.0 NTU). When there was no large debris coming in, the effluent turbidity levels dropped to approximately 0.3 NTU. Our recommendation is to install a microstrainer to remove the debris (>1mm) in size from enter the proposed DAF unit. The DAF pilot (utilizing CC-2020 and CC-2500) was able to achieve an average clarified water/effluent turbidity of approximately 0.3 NTU when the large chunks of debris were not noticed in the water. The DAF effluent water turbidities varied throughout the duration of pilot testing, such that the DAF pilot system was able to achieve an 85% - 95% reduction in turbidity.

Raw water samples and DAF effluent water samples were collected and analyzed for TOC (mg/L) at CCMD's in-house laboratory. DAF effluent samples obtained for TOC analysis were collected at the base of the DAF clarification chamber, per sampling ports (See Image 1). The DAF system was not able to remove all particulate matter (algae/plant debris) from the raw water stream, such that we observed large solids settling at the base of the DAF (See Image 7).

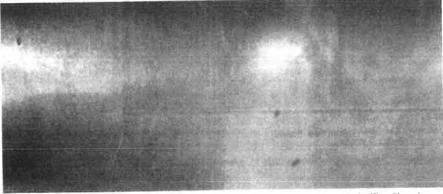


Image 7: Large Organic Particulate Matter – Settling at the Base of the DAF Clarifier Chamber

The coagulants utilized (CC-2020 and CC-2500) achieved an average DAF effluent TOC of approximately 2.4 mg/L. DAF effluent TOC data was found to be higher than normal, as a result of improper laboratory testing procedures. When analyzing water samples for TOC, standard test procedures should be followed (EPA Measurement of TOC in Water, Method 415.3) such as; running sample water through a filter media or through a filter paper prior to analysis. If the sample is not filtered, the TOC results will be higher, as there will still be coagulants bound to organic matter within the sample. The filter process will remove coagulants bound to the TOC within the finished water. What we saw at our other pilot study at Carter Lake Filter Plant (CLFP) using the DAF pilot plant was a turbidity reduction of ~78% with TOC reductions in the range of 55% to 62%. Based on previous pilot test results the TOCs reduction, if properly measured, should be in the range of 50% to 70%.

We recommend the installation of a micro strainer (nano strainer) upstream of the DAF pretreatment system to remove large, suspended solids, plankton/algae, plant/animal debris, and any other contaminants in the raw water stream prior to water entering the DAF pretreatment system. NEC also recommends the installation of a mixed media (sand/anthracite) filter assembly on the down steam side of the DAF, in order to filter clarified DAF effluent water prior to filtration at the membrane modules.

The installation of the proposed mixed media filter assembly will not only increase TOC removal and improve overall water quality, but will also allow CCMD to utilize a wider range of chemicals within the DAF pre-treatment process. Currently, the chemicals selected (CC-2020, and CC-2500) are compatible with membrane module filtration (containing no polymers) only. With the construction of the proposed mixed media filters, CCMD will be able to select a wider range of coagulant chemicals that will lead to an increase in DAF performance (TOC reduction, and turbidity removal). Primary filtration will be accomplished through the use of the proposed mixed media filter assembly, reducing loading on the existing membrane modules, extending the life-cycle of the membrane modules, and reducing the frequency of backwashing and clean-in- place (CIP) procedures.

In conclusion, our recommendation is that the DAF pretreatment system should be designed for a capacity of 3.0 MGD (surface loading rate of 6 gpm/sf) during normal operating conditions. When Distribution System Water Demands are high, the DAF System is capable of, and should be approved to operate at a higher loading rate (8 gpm/sf). The proposed mixed media filters should be designed for a surface loading rate of 5 gpm/sf with a max flow rate of 6.5 gpm/sf (noting that 6.5 gpm/sf is only for short periods of operations). The DAF basin assembly and mixed media filter assembly should be configured such that pretreatment will always continue though at-least one mixed media filtration basin, to the extent that production will not be stopped during backwash operations.

## 10. Appendix

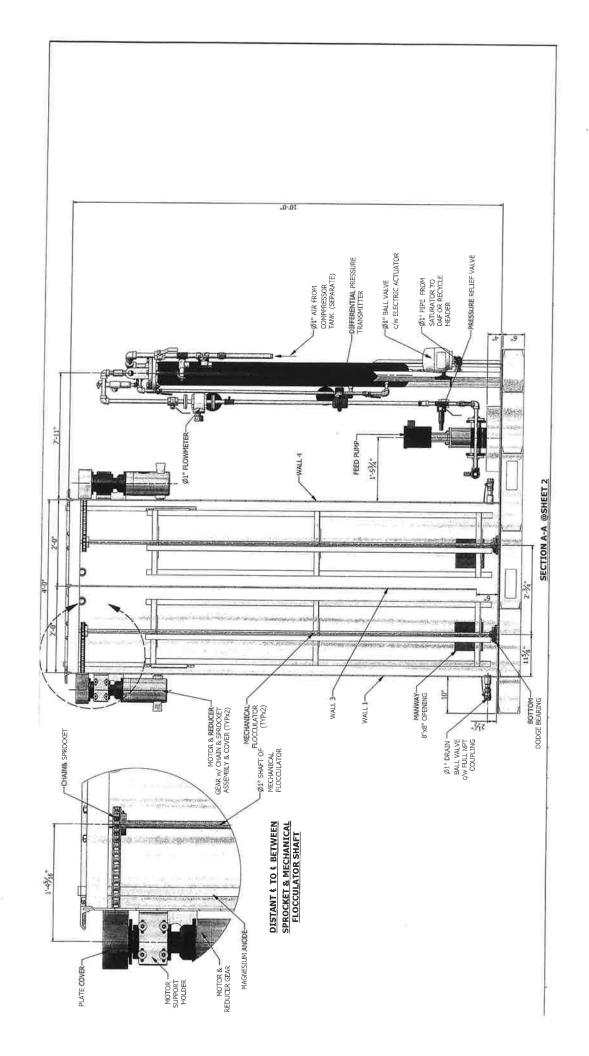
- 1. AWC DAF Pilot System Schematics (Drawings)
- 2. MSDS Sheets (Coagulants/Chemicals)
- 3. DAF Pilot Results (Graph #1 and Graph #2)

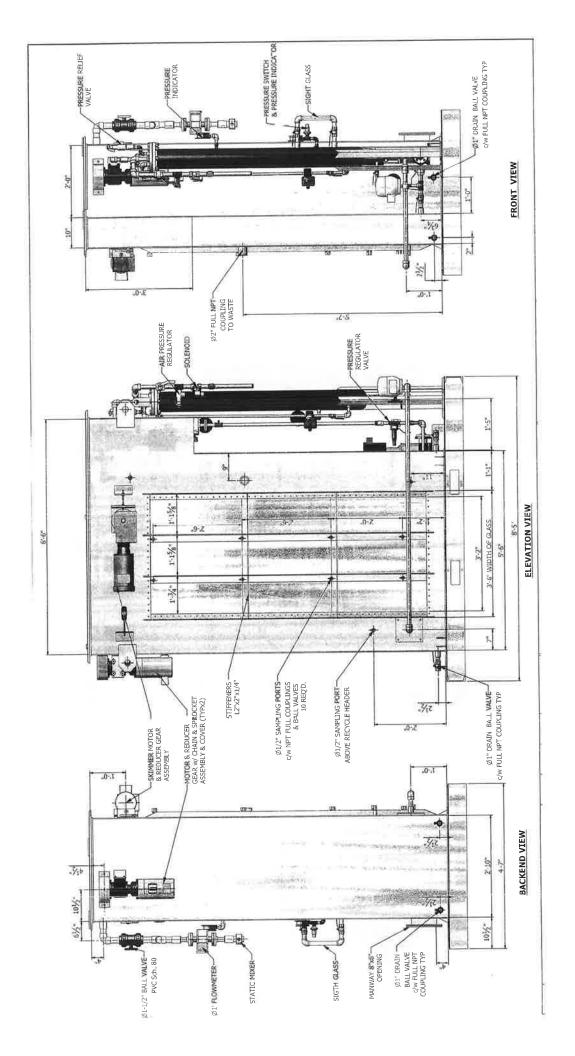


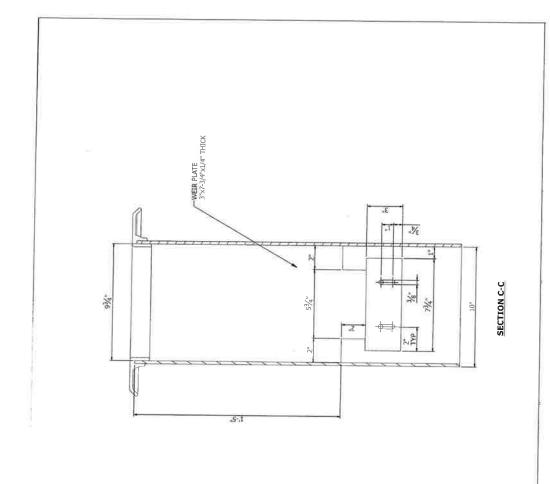
# **APPENDIX #1:**

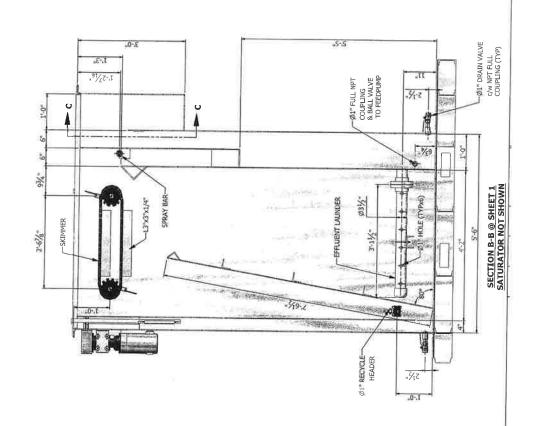
# **DAF Pilot System Schematics (Drawings)**

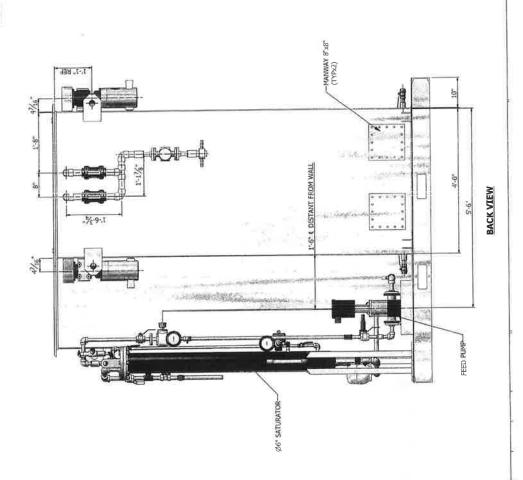
NOCO **Engineering** Company

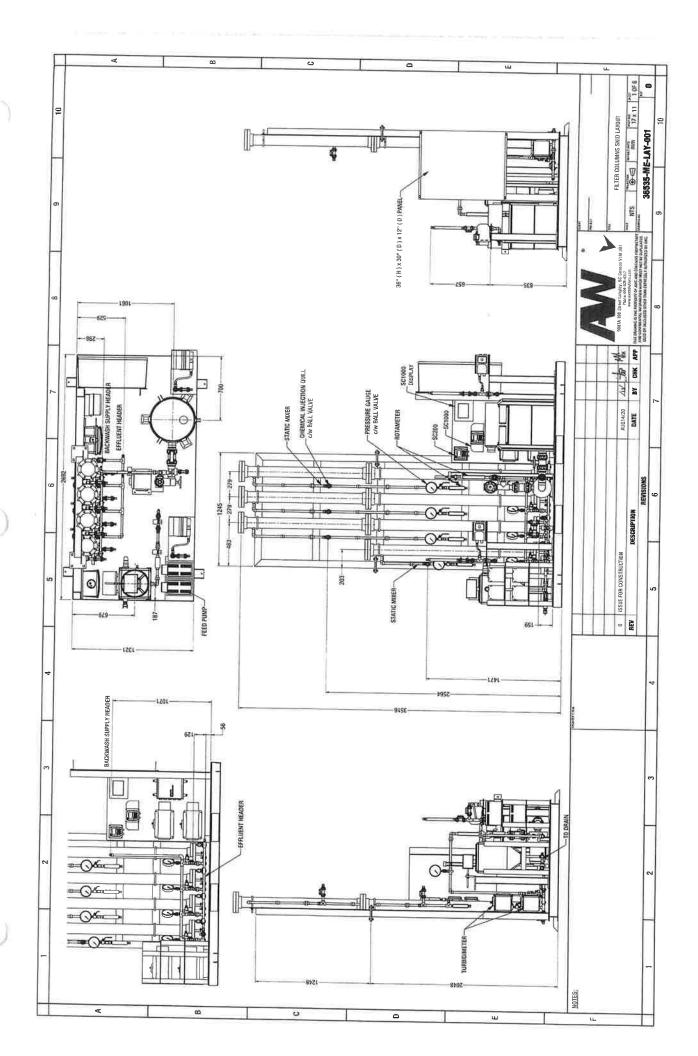


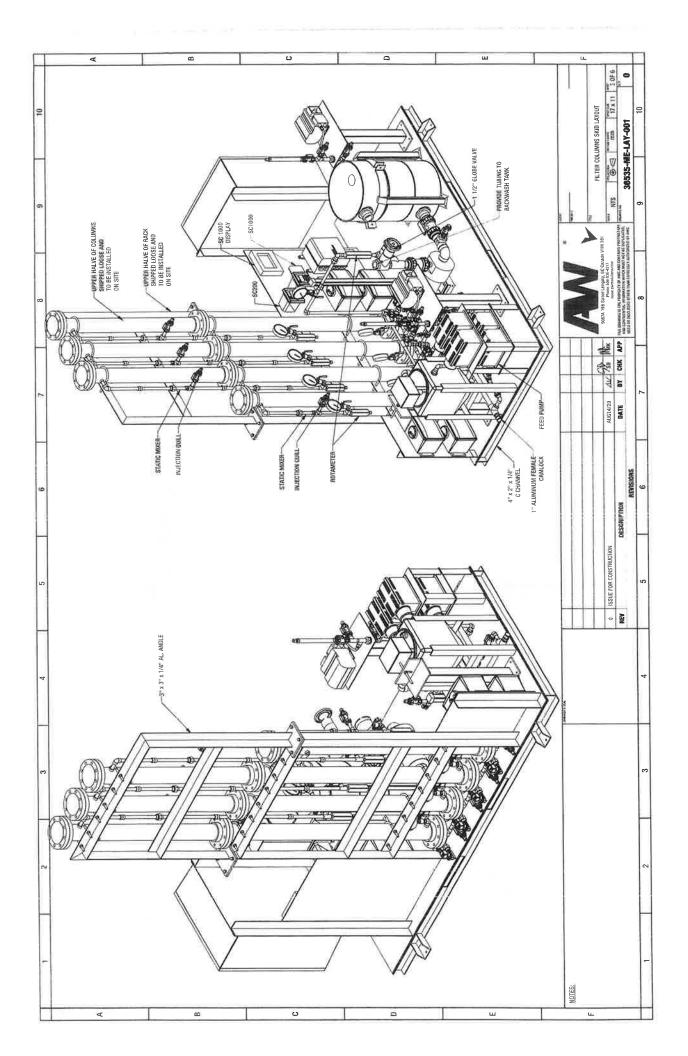


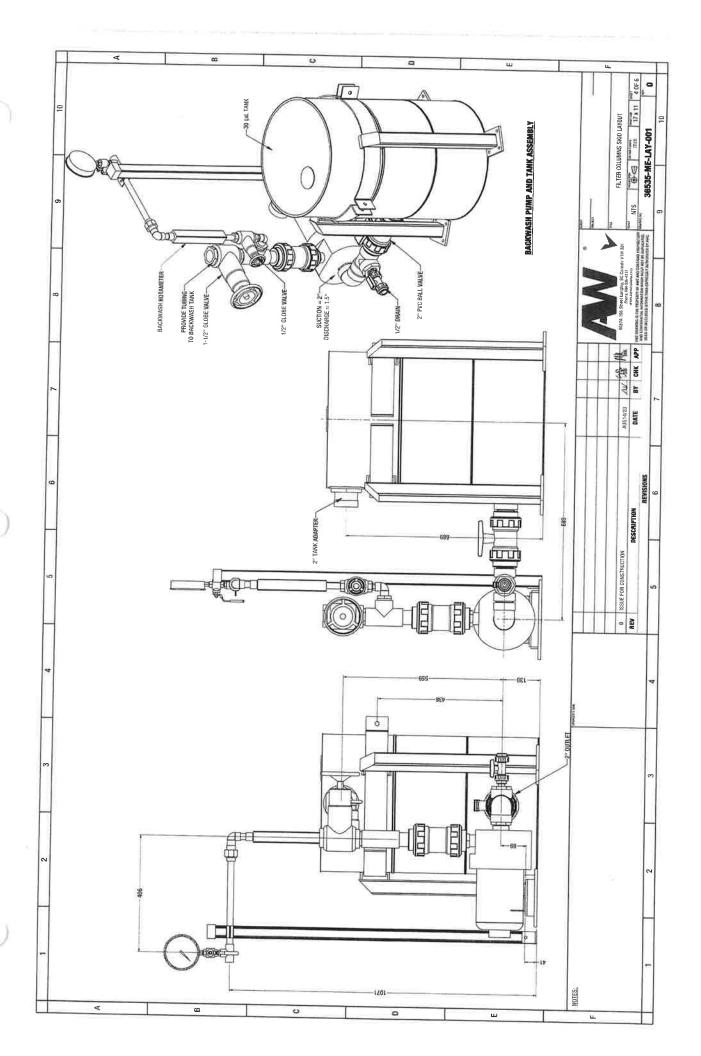


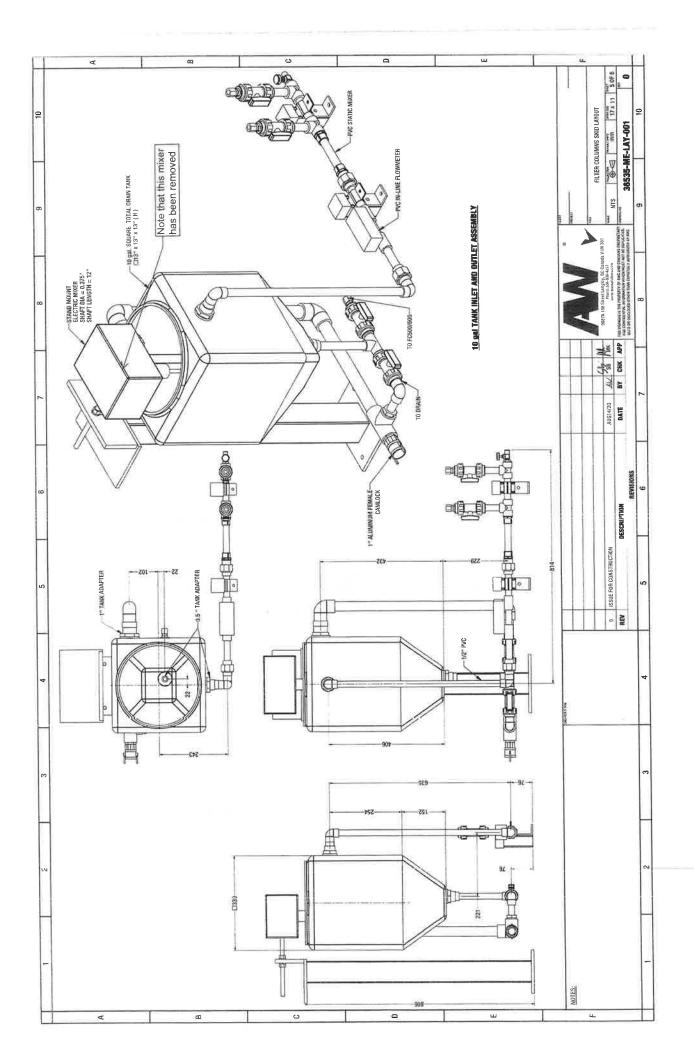


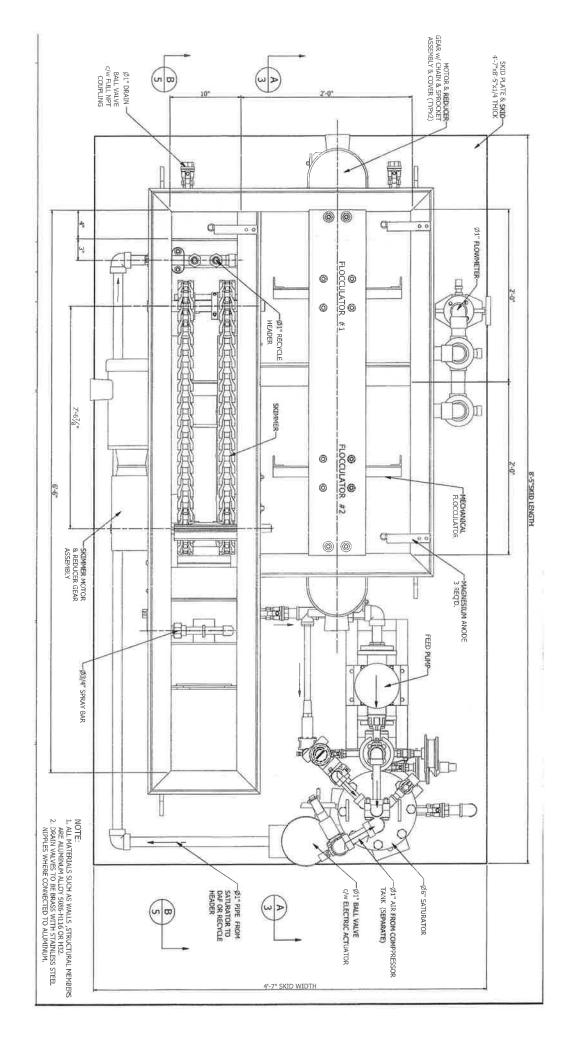


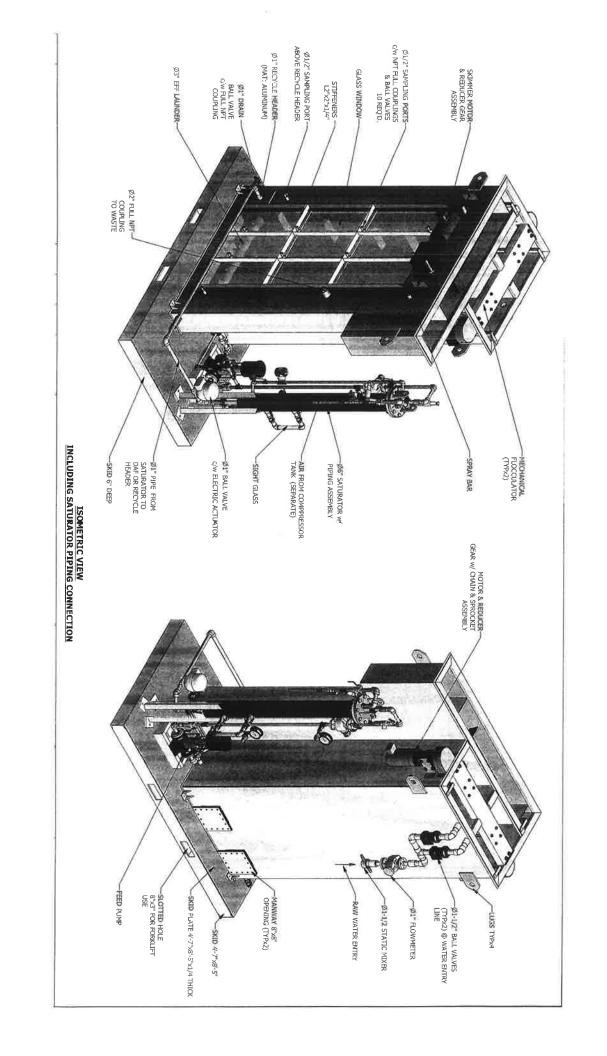


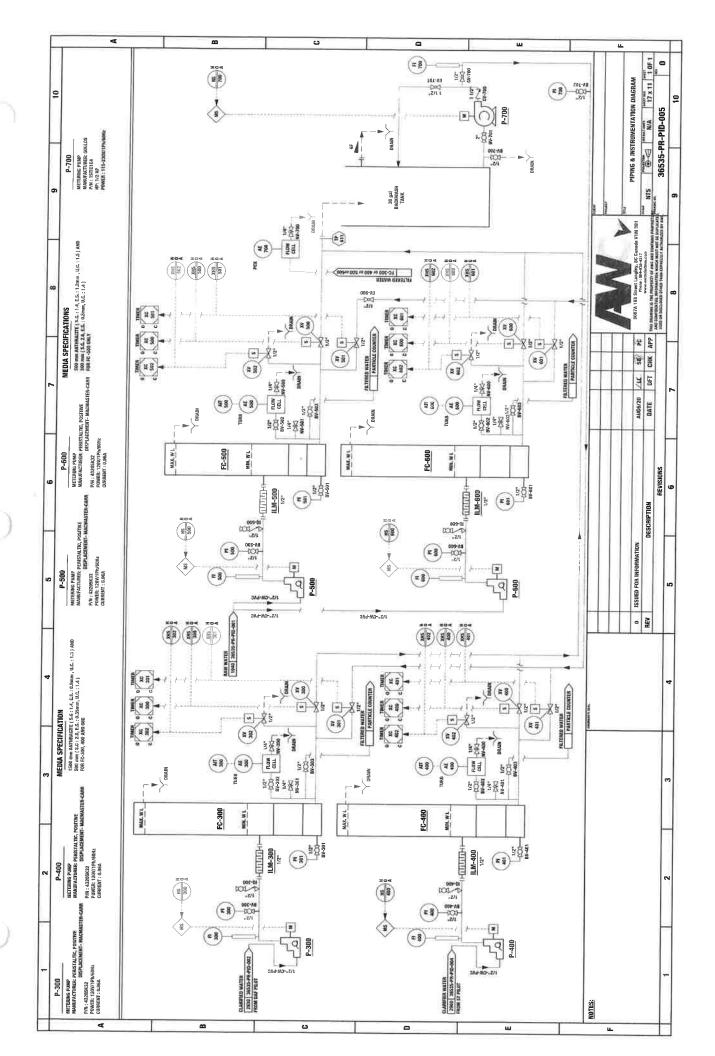














# **APPENDIX #2:**

MSDS Sheets (Coagulants/Chemicals)

NOCO Engineering Company

# DelPAC 2500



1/31/2019

## Safety Data Sheet

#### 1. IDENTIFICATION

Product Identifier

**Product Name** 

Aluminum Chloride Hydroxide Sulfate Solution

Other means of identification

SDS # 102

Manufacturer

USALCO, LLC 2601 Cannery Ave Baltimore, MD 21226

**UN/ID No** 

UN1760

Recommended use of the chemical and restrictions on use

Recommended Use

Water treatment chemical.

**Emergency Telephone Number** 

Company Phone Number

410-918-2230

Emergency Telephone (24 hr)

800-282-5322

#### 2. HAZARDS IDENTIFICATION

Appearance Clear, Colorless to amber

Physical State Liquid

Odor Negligible

Liquid

Classification

Irritating to eyes	Category 2
Corrosive to metals	Category 1

### Signal Word

Warning

#### **Hazard Statements**

Causes skin and eye irritation May be corrosive to metals

## Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Wear protective gloves, and eye protection. Keep only in original container.

#### Precautionary Statements - Response

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

## Precautionary Statements - Storage

Store in corrosive resistant plastic or FRP container or a container with corrosive resistant inner liner.

#### Precautionary Statements - Disposal

Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): May be D002 under §261.22(a)(2) due to the rate of corrosion of metal.



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Synonyms

Polyaluminum chloride, solution

Chemical Name	CAS No	Weight-%
Water	7732-18-5	55-85
Aluminum Chloride Hydroxide Sulfate	39290-78-3	15-45

## 4. FIRST-AID MEASURES

#### First Aid Measures

General Advice After first aid, get appropriate in-plant, paramedic, or community medical support.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

immediate medical advice/attention.

Skin Contact Wash off immediately with plenty of water. Take off contaminated clothing.

Inhalation (mist or spray) Remove from exposure; seek medical treatment if any symptoms occur.

Ingestion If conscious give large amounts of water. Seek medical attention immediately.

## Most important symptoms and effects

Symptoms Causes serious eye damage. May cause skin irritation.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment,

Unsuitable Extinguishing Media None identified.

Specific Hazards Arising from the Chemical Negligible fire hazard. Decomposition products may be toxic.

Hazardous Decomposition Products Hydrogen chloride. Sulfur dioxide.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not release runoff from fire control methods to sewers or waterways.

## 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protection recommended in Section 8. Keep unnecessary people away,

isolate hazard area and restrict entry.

Environmental Precautions Do not release into sewers or waterways, See Section 12 for additional Ecological

Information.

## Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.





Methods for Clean-Up

Small Spills: If directed to an industrial sewer, wash down with large volumes of water. Spills can be neutralized and absorbed with soda ash or lime, but neutralization will release carbon dioxide, which can generate a breathing hazard. For large spills, dike far ahead of spill for later disposal. Contain large spills and pump into a suitable tank for disposal. Neutralize with soda ash or lime if necessary. Adequate ventilation is required due to release of Carbon Dioxide.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling

Ensure that all containers are labeled in accordance with OSHA regulations. Treat as a dilute acid. Avoid contact with metal, as product will slowly corrode iron, brass, copper, aluminum and mild steel. Avoid contact with skin and eyes. Use personal protection recommended in Section 8. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapors/spray.

## Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep storage temperature below 30°C/86°F. Store away from incompatible materials. Keep only in original container.

**Packaging Materials** 

Store in rubber-lined, plastic or FRP vessels.

Incompatible Materials

Metals such as aluminum, tin, and zinc. Strong alkalis.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** 

No exposure limits noted for ingredient(s)

## Appropriate engineering controls

**Engineering Controls** 

Eyewash stations. Showers.

# Individual protection measures, such as personal protective equipment

**Eye/Face Protection** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with, contact lenses.

Skin and Body Protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory Protection

Seek professional advice prior to respirator selection and use. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. WARNING!: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

General Hygiene Considerations Contaminated Equipment: Separate contaminated work clothes from street clothes. Remove this material from your shoes and clean personal protective equipment. Do not eat, drink, smoke, or apply cosmetics while handling this product. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Wash contaminated clothing before reuse.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Liquid, clear, colorless to amber color Appearance

Negligible Odor Not determined Odor threshold >2 to 3.5

1.2 ± 0.1 (1=Water) @ 4°C Relative density; (specific gravity)

< -17.8°C / <0°F Melting point/freezing point > 110°C / >230°F Initial boiling point and boiling range ±120°C / 250°F Decomposition temperature

5-50 centipoise @ 25 °C (77 °F) Viscosity

Not flammable Auto-ignition temperature Similar to water Evaporation rate; Not flammable Flammability (solid, gas) Will not burn Flash point Will not burn

Upper/lower flammability or explosive limits Not relevant Partition coefficient: n-octanol/water

Soluble in water Solubility Similar to water Vapor density Similar to water Vapor pressure

#### 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Reacts with Zinc and Aluminum to form Hydrogen gas. Contact with strong alkalis (e.g. Ammonia and its solutions, Sodium hydroxide (caustic), Potassium hydroxide, chlorites) may generate heat, splattering or boiling and toxic vapors.

Hazardous polymerization does not occur. **Hazardous Polymerization** 

#### Conditions to Avoid

Contact with incompatible materials.

## Incompatible Materials

Metals such as aluminum, tin, and zinc. Strong alkalis.

#### Hazardous Decomposition Products

Hydrogen chloride, Sulfur dioxide.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

Causes serious eye irritation. **Eye Contact** 

Avoid contact with skin. **Skin Contact** 

Avoid breathing vapors or mists. Inhalation

Do not taste or swallow. Ingestion



#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum Chloride Hydroxide Sulfate 39290-78-3	> 5000 mg/kg (Rat)	,	*

## Information on physical, chemical and toxicological effects

**Symptoms** 

Please see section 4 of this SDS for symptoms.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

#### Numerical measures of toxicity

Not determined

#### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Aluminum Chloride		1460 - 1500: 48 h		
Hydroxide Sulfate	1	Leuciscus idus melanotus		
39290-78-3		mg/L LC50 static		

#### Persistence/Degradability

Not determined

#### Bioaccumulation

Not determined

## Mobility

Chemical Name	Partition Coefficient
Aluminum Chloride Hydroxide Sulfate 39290-78-3	3

#### Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): May be D002 under §261.22(a)(2) due to the rate of corrosion of metal.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### 14. TRANSPORT INFORMATION

<u>Note</u>

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No

UN1760

Proper Shipping Name

Corrosive liquid, n.o.s. (Aluminum chloride hydroxide sulfate)

Hazard Class
Packing Group

Ш

**Revision Date:** 1/31/2019



IATA

UN1760 UN/ID No

Corrosive liquid, n.o.s. (Aluminum chloride hydroxide sulfate) **Proper Shipping Name** 

**Hazard Class** Ш **Packing Group** 

**IMDG** 

UN/ID No UN1760

Corrosive liquid, n.o.s. (Aluminum chloride hydroxide sulfate) **Proper Shipping Name** 

**Hazard Class Packing Group** 

This material may meet the definition of a marine pollutant Marine Pollutant

## 15. REGULATORY INFORMATION

#### International Inventories

Not determined

#### US Federal Regulations

**Component Analysis** 

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

## SARA 311/312 Hazard Categories

Yes Acute Health Hazard Nο Chronic Health Hazard No Fire Hazard No Sudden Release of Pressure Hazard Nο Reactive Hazard

#### **SARA 313**

Not listed

## CWA (Clean Water Act)

Not listed

#### **US State Regulations**

## U.S. State Right-to-Know Regulations

Not determined

## 16. OTHER INFORMATION

Instability Special Hazards **Health Hazards Flammability** NFPA Not determined U 1 **Personal Protection** Physical Hazards Health Hazards **Flammability** <u>HMIS</u> Not determined 0

**Issue Date** 

**Revision Date: Revision Note** 

3/3/2015 New format; 1/31/2019 Review

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### **End of Safety Data Sheet**



# SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier** 

Chemical Name

CAS No.
Trade Name

Product Code

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)

Uses Advised Against

Company Identification

Telephone

Fax

E-Mail (competent person)

Emergency telephone number

Emergency Phone No.

Aluminum Chlorohydrate Solution

12042-91-0 CC 2000

None

Water Treatment Chemical

None

USALCO Modesto Plant, LLC

2601 Cannery Ave Baltimore, MD 21226

(410)-354-0100 (410)-354-1021

info@usalco.com

CHEMTREC 24 hr. (800) 424-9300; Not classified as

dangerous for transport.

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Not classified as dangerous for supply/use.

Label elements

Hazard Symbol

Signal word(s)

Hazard Statement(s)

Precautionary Statement(s)

None

None None

Avoid contact with skin and eyes.

Wear protective gloves/eye protection.

IF INHALED: Get medical advice/attention if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. If irritation (redness, rash,

blistering) develops, get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation

develops and persists, get medical attention.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell.

Other hazards

None



# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.*	CAS No.	Hazard classification
Aluminum Chlorohydrate	50 12042-91-0 Not classified as dange		Not classified as dangerous for supply/use.
Water	50	7732-18-5	Not classified as dangerous for supply/use,

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below: None

# **SECTION 4: FIRST AID MEASURES**



Description of first aid measures

Inhalation

Get medical advice/attention if you feel unwell.

Skin Contact

Wash affected skin with soap and water, If irritation (redness, rash,

blistering) develops, get medical attention.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops

and persists, get medical attention.

Ingestion

Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

None

Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

-Suitable Extinguishing Media

-Unsuitable Extinguishing Media

Non-combustible. As appropriate for surrounding fire.

None anticipated.

Special hazards arising from the substance or mixture

Combustion or thermal decomposition will evolve toxic and irritant vapours.

Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire...

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

emergency procedures

Avoid contact with skin and eyes. Wear protective gloves/eye protection.

**Environmental precautions** 

Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.

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Page: 2/6



Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for

disposal or recovery.

Reference to other sections **Additional Information** 

None None

#### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

-Storage temperature

-Incompatible materials

Keep in a cool, well ventilated place. Store at temperatures not

exceeding 50°C / 122 °F. Protect from sunlight.

This product should be stored away from sources of strong heat,

oxidizing chemicals, and reducing agents.

Specific end use(s)

Water Treatment Chemical

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits

SUBSTANCE.		(8hr 1	(8hr TWA)		(STEL)	
	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Aluminum Chlorohydrate, as Al	12042-91-0	15 mg/m3 <sup>(T)</sup> 5 mg/m3 <sup>(R)</sup>	1 mg/m3 <sup>(R)</sup>			8

<sup>- (</sup>T) Total Particulate; (R) Respirable Particulate

Recommended monitoring method

NIOSH 7013 (Aluminum and compounds, as AI)

**Exposure controls** 

Appropriate engineering controls

Personal protection equipment

Not normally required.

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other)

Wear suitable gloves if prolonged skin contact is likely. Check with

protective equipment manufacturer's data.

Respiratory protection



Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with

protective equipment manufacturer's data.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection,

when needed.

**Environmental Exposure Controls** 

Avoid release to the environment.



## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Color:

Odor

Odor Threshold (ppm)

pH (Value)

Melting Point (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

Flash Point (°C)

Evaporation Rate Flammability (solid, gas)

Explosive Limit Ranges

Vapor pressure (Pascal) Vapor Density (Air=1)

Density (g/ml)

Solubility (Water)

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Decomposition Temperature (°C)

Kinematic Viscosity (cSt) Explosive properties

Oxidizing properties

Other information

Liquid

Almost colourless to pale yellow

None

Not available

4 - 5

- 5.5 (22 °F)

100 °C (212 °F)

Non-combustible

Similar to water

Not applicable

Non-combustible

Similar to water Similar to water

1.34

Miscible

Not available

Not available Non-combustible

Not available

Not available Similar to water

Not explosive

Not oxidising

Núl available

# SECTION 10: STABILITY AND REACTIVITY

Reactivity

Chemical stability

Possibility of hazardous reactions

Conditions to avoid

Incompatible materials

Hazardous decomposition product(s)

Stable under normal conditions.

Stable.

None anticipated.

Incompatible materials.

Substances that react with water or aluminum.

None anticipated:

# SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Aluminum Chlorohydrate (CAS No. 12042-91-0):

Acute toxicity

Oral LD50 = 9187 mg/kg (Rat)

Dermal LD0 = >2000 mg/kg (Rat)

Irritation / Corrosivity

Unlikely to cause eye irritation. Unlikely to cause skin irritation.

Sensitisation
Repeated dose toxicity

It is not a skin sensitiser.

Not to be expected.

Carcinogenicity

It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity

**Toxicity for reproduction** 

Negative Negative

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Reproductive toxicity Other information

Not to be expected None known.

## **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Short term

LC50 (96 hr): 609 mg/l (Fathead minnow)

LC50 (48 hour): 397 mg/L (Daphnia magna)

Long Term

Not available.

Persistence and degradability

Bioaccumulative potential

Not readily biodegradable. The product has no potential for bioaccumulation.

Mobility in soil

Not available.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

Not available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

#### **SECTION 14: TRANSPORT INFORMATION**

U.S. DOT

Sea transport (IMDG)

Air transport (ICAO/IATA)

UN number
Proper Shipping Name
Transport hazard class(es)
Packing group
Environmental hazards
Special precautions for user

Not classified as dangerous for transport.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

## **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None		Saleston .	MARKS.

SARA 311/312 - Hazard Categories: None

☐ Fire ☐ Sudden Release ☐

Reactivity

☐ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.	
None			

☐ Immediate (acute)

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SARA 302 - Extremely Hazardous Substances (40 CFR 355):

INA JUZ - Extremitely Huzar dead Cameran			
Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	250	inter-	****

#### California Proposition 65 List:

Offile Froposition of Little		0401	Type of Toxicity
Chemical	Name	CAS No.	Type of Toxicity
None		: <del></del>	

# SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: 03/22/21

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- None.

Training advice: None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** 

 Chemical Name
 Mixture

 CAS No.
 Mixture

 Trade Name
 CC 2215

 Product Code
 None

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Water Treatment Chemical

Uses Advised Against None

Company Identification USALCO Modesto Plant, LLC

2601 Cannery Ave Baltimore, MD 21226

Telephone (410)-354-0100

Fax (410)-354-1021

E-Mail (competent person) info@usalco.com

Emergency telephone number

Emergency Phone No. CHEMTREC 24 hr. (800) 424-9300; Not classified as

dangerous for transport.

## **SECTION 2: HAZARDS IDENTIFICATION**

## Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) Not classified as dangerous for supply/use.

Label elements

Hazard Symbol None Signal word(s) None

Hazard Statement(s) None

Precautionary Statement(s) Avoid contact with skin and eyes.

Wear protective gloves/eye protection.

IF INHALED: Get medical advice/attention if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. If irritation (redness, rash,

blistering) develops, get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation

develops and persists, get medical attention.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell.

Other hazards None



# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.*	CAS No.	Hazard classification
Aluminum Chlorohydrate	40 - 45	12042-91-0	Not classified as dangerous for supply/use
Proprietary Compound	15	Trade Secret	Aquatic Acute 3; H402 Aquatic Chronic 3; H412
Water	40 - 45	7732-18-5	Not classified as dangerous for supply/use

Additional Information - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below: None

# **SECTION 4: FIRST AID MEASURES**



#### Description of first aid measures

Get medical advice/attention if you feel unwell. Inhalation

Wash affected skin with soap and water, If irritation (redness, rash, Skin Contact

blistering) develops, get medical attention.

Rinse cautiously with water for several minutes. Remove contact Eye Contact

lenses, if present and easy to do. Continue rinsing. If irritation develops

and persists, get medical attention.

Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion

Most important symptoms and effects, both acute and delayed

mixture

Indication of any immediate medical attention and

special treatment needed

None

IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

-Suitable Extinguishing Media

-Unsuitable Extinguishing Media

Special hazards arising from the substance or

Advice for fire-fighters

Non-combustible. As appropriate for surrounding fire. None anticipated.

Combustion or thermal decomposition will evolve toxic and irritant

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Environmental precautions** 

Avoid contact with skin and eyes. Wear protective gloves/eye protection

Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.

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Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for

disposal or recovery.

Reference to other sections Additional Information

None None

### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling

Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

-Storage temperature

Keep in a cool, well ventilated place. Store at temperatures not

exceeding 50°C / 122 °F. Protect from sunlight.

-Incompatible materials

This product should be stored away from sources of strong heat,

oxidizing chemicals, and reducing agents.

Specific end use(s)

Water Treatment Chemical

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits

Mary Indiana and Australia		(8hr TWA)		(STEL)		Placers
SUBSTANCE.	CAS No.	PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	Note:
Aluminum Chlorohydrate, as Al	12042-91-0	15 mg/m3 <sup>(T)</sup> 5 mg/m3 <sup>(R)</sup>	1 mg/m3 <sup>(R)</sup>	i <del>sentis</del> :		

<sup>- (</sup>T) Total Particulate; (R) Respirable Particulate

Recommended monitoring method

NIOSH 7013 (Aluminum and compounds, as Al)

**Exposure controls** 

Appropriate engineering controls

Personal protection equipment

Not normally required.

Eye/face protection

Wear protective eyewear (goggles, face shield, or safety glasses).

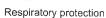


Skin protection (Hand protection/ Other)



Wear suitable gloves if prolonged skin contact is likely. Check with

protective equipment manufacturer's data.





Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with

protective equipment manufacturer's data.

Thermal hazards

Not normally required. Use gloves with insulation for thermal protection,

when needed.

Avoid release to the environment.

**Environmental Exposure Controls** 

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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Liquid

Color Almost colourless to pale yellow
None

Odor None
Odor Threshold (ppm) Not available

pH (Value)

Melting Point (°C) / Freezing Point (°C)

4.0 - 4.5

- 6.6 (20 °F)

Melting Point (°C) / Freezing Point (°C)

Boiling point/boiling range (°C):

Flash Point (°C)

Non-compatible

Similar to waster

Flash Point (°C)

Evaporation Rate

Flammability (solid, gas)

Explosive Limit Ranges

Vapor pressure (Pascal)

Not-combustible

Similar to water

Non-combustible

Similar to water

Vapor Density (Air=1)

Density (g/ml)

Similar to water
1.25 - 1.34

Solubility (Water)

Miscible

Not available

Solubility (Other)

Partition Coefficient (n-Octanol/water)

Auto Ignition Point (°C)

Not available
Non-combustible

Decomposition Temperature (°C)

Kinematic Viscosity (cSt)

Kinematic Viscosity (cSt)

Explosive properties

Oxidizing properties

Not oxidising

Other Information Not available

# **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions

Conditions to avoid

None anticipated.

Incompatible materials.

Incompatible materials Substances that react with water or aluminum.

Hazardous decomposition product(s)

None anticipated.

# SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Aluminum Chlorohydrate (CAS No. 12042-91-0):

Acute toxicity Oral LD50 = 9187 mg/kg (Rat)

Dermal LD0 = >2000 mg/kg (Rat)

Irritation / Corrosivity

Unlikely to cause eye irritation. Unlikely to cause skin irritation.

**Sensitisation** It is not a skin sensitiser.

Repeated dose toxicity

Not to be expected.

Carcinogonicity It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH	
No.	No.	No.	No.	No.	

Mutagenicity Negative
Toxicity for reproduction Negative

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### CC 2215

Reproductive toxicity Other information

Not to be expected None known.

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity** 

Proprietary Compound (CAS No. Trade Secret):

Short term

LC50 (96 hr): 10 - 100 mg/l (Danio rerio)

EC50 (48 hour): 38 mg/L (Daphnia magna)

Long Term

Not available.

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Results of PBT and vPvB assessment

Other adverse effects

Not readily biodegradable.

The product has no potential for bioaccumulation.

Not available.

Not classified as PBT or vPvB.

Not available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

### SECTION 14: TRANSPORT INFORMATION

U.S. DOT

Sea transport (IMDG)

Air transport (ICAO/IATA)

**UN number Proper Shipping Name** Transport hazard class(es) Packing group **Environmental hazards** Special precautions for user

Not classified as dangerous for transport.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

#### **SECTION 15: REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	45-052		257750
ARA 311/312 - Hazard Categories:		☐ Immediate (acute)	☐ Chronic (delayed)
RA 313 - Toxic Chemicals (40 CF	₹ 372):		
Chemica	al Name	CAS	No. Typical %w

Revision: 03/26/21



### CC 2215

None	 *****

### SARA 302 - Extremely Hazardous Substances (40 CFR 355):

	Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
Vone	200.00 (200.000 )		enne.	5500

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None		

### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 1-16.

Date of preparation: May 19, 2015

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

#### Hazard Statement(s)

- H402: Harmful to aquatic life.

- H412: Harmful to aquatic life with long lasting effects.

Training advice: None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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## Aluminum sulfate, solid

MSDS No. 010 4/30/2013

### Material Safety Data Sheet

Section	1 - Chemical Product	and Company Identification	
Product/Chemical Name:	Aluminum Sulfate, Dry	Manufacturer:	HMIS
Chemical Formula:	Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> •(14-18)(H <sub>2</sub> O)	USALCO, LLC	H 1
CAS Number:	10043-01-3	2601 Cannery Avenue,	F 0
General Use:	Water Treatment Chemical	Baltimore, MD 21226	R 0
Emergency Contact:	800-282-5322	Phone 410-354-0100 (7:00am 5:00pm) FAX 410-354-1021	<b>PPE</b> <sup>†</sup> †Sec. 11

	Section 2	- Comp	osition / Iı	nformatio	n on Ingred	lients	
Ingredient Name					CAS	Number	% wt
Aluminum sulfate	(hydrated)				10043-01	-3	100
	OCH	A DET	ACCI	I CTT X	NIOC	II DDI	NIOCY
	OSHA	A FEL	ACGI	H TLV	NIUS	H REL	- NIOSH
Ingredient Aluminum sulfate	TWA	STEL	TWA	STEL	TWA	STEL	NIOSH

### **Section 3 - Emergency Overview**

**Description:** White granule or powder. Water soluable. Not volatile. Not flammable. **Hazards:** Harmful by ingestion. Irritating to eyes, respiratory system and skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

	Section 4 - First Aid Procedures
Eye Contact:	Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting upper and lower lids. Seek medical attention.
Skin Contact:	Remove contaminated clothing and wash contaminated skin with water.
Ingestion:	Do not induce vomiting, drink milk or water and immediately seek medical attention.  Ingestion may irritate gastrointestinal tract.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Physical and Chemical Properties			
Physical State:	solid	Water Solubility:	Complete
Appearance:	White granule or powder	Density:	varies, <98 lb/cu ft
Odor:	negligible odor	Boiling Point:	117° C/242° F
Vapor Pressure:	None	Freezing/Melting Point:	105° C/221° F
Vapor Density (Air=1):	Not applicable	% Volatile:	0.0
pH of 1% solution:	3.3 ± 0.5		

	Section 6 - Fire-Fighting Measures	
Flash Point:	Not applicable	NFPA
Burning Rate:	Not applicable	
Autoignition Temperature:	Not applicable	
LEL:	Not applicable	
UEL:	Not applicable	$ 1 \times 0$
Flammability Classification:	Non-flammable	
Unusual Fire or Explosion Hazards:	If exposed to temperatures greater than 1400°F, Alumini sulfate will decompose generating toxic and corrosive ga	ım s.
Hazardous Combustion Products:	See Section 7.	
Fire-Fighting Instructions:	Do not release runoff from fire control methods to sewer	s or waterways.

### Section 7 - Stability and Reactivity

Stability:

Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization:

Hazardous polymerization does not occur.

Chemical Incompatibilities: Conditions to Avoid:

Contact with alkalies and water-reactive materials causes exothermic reactions.

Hazardous Decomposition Products:

Thermal oxidative decomposition of Aluminum sulfate occurs at temperatures greater than 1400°F and can produce sulfur oxides.

Section 8 - Health Hazard Information
Ingestion, inhalation, eye or skin contact
None
No unusual
May cause a burning feeling.
May cause a skin rash or burning feeling.
May cause irritation of stomach and intestines. May cause nausea, vomiting or purging.
Breathing aluminum sulfate can irritate the nose, throat and lungs causing coughing, wheezing and/or shortness of breath.
IARC, NTP, and OSHA do not list Aluminum Sulfate as a carcinogen.
Aluminum sulfate can irritate the lungs. Repeated exposure may cause bronchitis to develop with cough, phlegm, an/or shortness of breath.
IARC, NTP, and OSHA list no evidence showing that any of the ingredients cause cancer or affect reproduction.

### Section 9 - Spill, Leak, and Disposal Procedures

Spill /Leak Procedures:

Spill procedures are dictated by site wastewater flow controls and will vary from site to site. General procedures are provided in this document, but authorization for any wastewater discharge must be obtained prior to the discharge.

Large and Small Spills:

Sweep and shovel up dry chemical and place in a covered container. Wash down residue with large amounts of water and neutralize with soda ash or lime if necessary. Aluminum sulfate solutions can have a pH less than two. The neutralization of aluminum sulfate can generate carbon dioxide. Adequate ventilation must be provided.

Do not discharge wastewaters to the environment or a wastewater treatment plant without authorization from the appropriate officials.

Containment:

Aluminum sulfate may absorb moisture and powders or crystals can solidify into a single mass. Protect aluminum sulfate from moisture.

Cleanup:

Regulatory Requirements:

Disposal:

Wash impacted areas with water to remove residues. Follow applicable OSHA regulations (29 CFR 1910.120).

Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

Container Cleaning and Disposal:

Make sure bags are completely empty and dispose of as industrial/commercial waste.

Section 10 - Regulatory Information				
EPA Regulations:				
-Aqueous solutions Hazardous Waste I	FR Subpart D – Lists of Hazardous Wastes s may exhibit the characteristic of Corrosivity, EPA Number D002, 40CFR §261.22			
CERCLA Hazardous Substance (40 CFR 302.4):	Listed CWA, Sec. 311 (b)(4)			
CERCLA Reportable Quantity (RQ):	5,000 lbs (2,270 kg) as Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> 8,870 lbs (4,023 kg) as Al <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> •14(H <sub>2</sub> O) Immediate (acute) health hazard			
SARA 311/312 Codes:				
SARA Toxic Chemical (40 CFR 372.65):	Not listed			
SARA EHS (Extremely Hazardous Substance) (40 CFR 355):	Not listed			
OSHA Regulations:				
Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A):	Not listed			
OSHA Specifically Regulated Substance (29CFR 1910.):	Not listed			
State Regulations:	USALCO LLC has not investigated state specific requirements.			

Sec	tion 11 - Exposure Controls / Personal Protection
Engineering Controls:	The best protection is to enclose operations and/or provide local exhaust ventilation at the site of the chemical release. Dust emission control may be required depending on the dust generation rate. Isolation operations can also reduce exposure.
Ventilation:	Can be used to control dust exposure but may require emission controls.
Administrative Controls:	Good work practices can help to reduce exposures. Train employees to minimize dust while handling this material.
Respiratory Protection:	Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.
Protective Clothing/Equipment:	Wear protective gloves, boots, long pants and long sleeve shirts to prevent prolonged or repeated skin contact. Wear protective chemical safety glasses, per OSHA eyeand face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.
Safety Stations:	Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
Contaminated Equipment:	Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** 

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

### **Section 12 - Special Precautions and Comments**

Handling Precautions: Storage Requirements: Minimize and/or control dust while handling.

Store in a cool, dry place. Wet aluminum sulfate will corrode steel.

Shipping Name:	Shipping name depends on the packaging. If a package exceeds the RQ, the shipment must meet the requirements of 49 CFR Parts 100—185, including the following shipping name. Otherwise, not Hazmat regulated.		
	UN3077, Environmentally Hazardous Susulfate), 9, III, RQ	bstance, solid, n.o.s. (Aluminum	
		Packaging Authorizations	4
		a) Exceptions:	173.155
CERCLA RQ:	5,000 lbs (2,270 kg)	b) Non-bulk Packaging:	173.213
Hazard Class:	9 c) Bulk Packaging:		173.240
DOT No.:	UN3077	Quantity Limitations	
Packing Group:	III	a) Passenger, Aircraft, or Railcar:	no limit
Special Provisions (172.102):	8,146,B54,IB8,IP3,N20,T1,TP33	b) Cargo Aircraft Only:	no limit
		Vessel Stowage Requirements	
2004 Emergency Response Guidebook:	Gulde 171	a) Vessel Stowage:	Λ
		b) Other:	

Prepared By: Craig T. Owen Effective Date: 2/1/2012 Revision Notes: 4/30/2013

**Disclaimer:** The information presented herein is believed to be accurate and reliable, but is given without guaranty or warranty, expressed or implied. The user should not assume that all safety measures are indicated so that other measures may not be required. The user is responsible for assuring that the product and equipment are used in a safe manner that complies with all appropriate legal standards and regulations.



### **Material Safety Data Sheet**

OSHA / ANSI Z400.1-2004 Compliant

MSDS date: 02-Feb-2006

NFPA Rating:

Health: 1

Flammability: 1

Instability: 0

HMIS Rating:

Health: 1

Flammability: 1

Physical Hazard: 0

Personal Protection: B

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** 

**MAGNAFLOC LT22S** 

**Product Number:** 

8357920

Chemical Family:

Copolymer of a quaternary acrylate salt and acrylamide.

Intended Use:

Flocculant

Manufacturer/Supplier:

Ciba Specialty Chemicals Corporation

2301 Wilroy Road Suffolk, VA 23434

8:30am - 5pm Phone Number: 1-757-538-3700 MSDS Request Line (voicemail): 1-800-431-2360 Customer Service/Product Information 1-800-322-3885

Emergency 24-Hour Health/Environmental Phone: 1-800-873-1138

### 2. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

Signal Word:

CAUTION!

Physical Form:

Granular Powder

Color:

White

Odor:

None

Health:

Contact causes eye irritation.

Physical Hazards:

Slip hazard when wet, Refer to MSDS Section 7 for Dust Explosion information.

**OSHA Hazardous Substance:** 

This material is classified as hazardous under OSHA regulations.

Primary Route(s) of Entry:

Eyes, Inhalation, Ingestion, Skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

MSDS date:

02-Feb-2006

Product Name: MAGNAFLOC LT22S

#### HAZARDOUS COMPONENTS

Components	CAS Number	Weight %	
Ethanaminium, N.N.N-trimethyl-2-[(1-oxo-2-	69418-26-4	85-90	
propenyl)oxy]-, chloride, polymer with 2-propenamide Hexanedloic acid	124-04-9	3-6	

### 4. FIRST AID MEASURES

Immediately flush the eye(s) with lukewarm, gently flowing water for 15 minutes or Eyes:

until the chemical is removed. Get immediate medical attention if irritation persists.

Wash off immediately with soap and plenty of water. Get medical attention if irritation Skin:

occurs. If clothing is contaminated, remove and launder before reuse.

Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, Inhalation:

give oxygen and get immediate medical attention.

Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to Ingestion:

reduce the risk of aspiration. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

The product becomes slippery when wet. Restrict pedestrian and vehicular traffic in Fire Fighting Measures:

areas where slip hazard may exist.

Carbon dioxide, dry chemical or foam. Suitable Extinguishing Media:

Unsuitable Extinguishing Media: The product becomes slippery when wet.

Wear self-contained breathing apparatus and protective suit. Fire Fighting Equipment:

Dust in sufficient concentration can result in an explosive mixture in air. Handle to Unusual hazards:

minimize dusting and eliminate open flame and other sources of ignition.

**Hazardous Combustion** 

Products:

Burning may produce oxides of carbon or nitrogen.

### 6. ACCIDENTAL RELEASE MEASURES

Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Cleanup Instructions: Wear suitable protective equipment. Should not be released into the environment.

7. HANDLING AND STORAGE

As with all industrial chemicals, use good industrial practices when handling. Avoid Handling:

eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only

with adequate ventilation.

Keep containers tightly closed in a cool, well-ventilated place. Storage:

Avoid creating dusty conditions. Risk of explosion if an air-dust mixture forms. Explosion Hazards:

For Industrial Use Only

02-Feb-2006

Product Name: MAGNAFLOC LT22S

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Guidelines:

Components	OSHA PEL	OSHA STEL	ACGIH TWA	Ciba/ Manufacturer IEL:
Hexanedioic acid 124-04-9			5 mg/m <sup>3</sup>	NEL.

Table Footnote:

Blank cells in above table indicate no data available.

Personal Protective Equipment

**Eye/Face Protection:** 

Wear safety glasses or goggles to protect against dust particles.

**Skin Protection:** 

Wear chemical resistant gloves and protective clothing.

**Respiratory Protection:** 

Use NIOSH approved respirator as needed to mitigate exposure.

**Engineering Controls:** 

Work in well ventilated areas. Do not breathe dust. Local exhaust/ventilation

recommended.

Other Protective Equipment:

Eye wash station and safety shower should be available in immediate work area.

Select additional protective equipment based upon potential for exposure.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:

Granular Powder

Color:

White

Odor:

None. Not determined

Freezing/Melting Point: Solubility in water:

Soluble, solubility limited by viscosity

Vapor Density:

Not applicable

Not applicable

Vapor Pressure:

Not determined

Density:

0.8 - 1

Specific Gravity:

pH: Percent Volatile:

~ 3.3 (1 % solution)

VOC:

None expected above trace levels. Not applicable

Partition Coefficient (Octanol/Water):

Not determined

**Decomposition Temperature:** 

Flammability Limits in Air:

Not determined

Flash point:

Not applicable

Test Method (for Flash Point):

Not applicable

### 10. STABILITY AND REACTIVITY

Stability:

Stable.

**Conditions to Avoid:** 

Avoid static discharges and sources of ignition. Avoid high temperatures. Avoid wet

and humid conditions.

Incompatibility:

Strong oxidizing agents. (may degrade polymer)

MSDS date:

02-Feb-2006

Product Name: MAGNAFLOC LT22S

**Hazardous Decomposition** 

Products:

No decomposition expected under normal storage conditions.

**Possibility of Hazardous** 

Reactions:

Product has a high minimum ignition energy; however, dust may be ignited under some conditions.

### 11. TOXICOLOGICAL INFORMATION

**Acute Oral Toxicity:** 

Not determined.

**Acute Dermal Toxicity:** 

Not determined

**Acute Inhalation Toxicity:** 

Not determined.

Eye Irritation:

Not determined.

Skin Irritation:

Not determined.

Skin Sensitization:

Not determined

Carcinogenicity (IARC; NTP;

OSHA; ACGIH):

None of the components in this product at concentrations greater than 0.1% are

listed by IARC; NTP, OSHA or ACGIH as a carcinogen.

Carcinogenicity Studies:

Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

**Mutagenicity:** 

No data for product. No effects anticipated.

Reproductive Toxicity:

No data for product. No effects anticipated.

**Teratogenicity:** 

**Neurotoxicity:** 

Not determined. No effects anticipated.

**Subacute Toxicity:** 

Not determined Not determined

Subchronic Toxicity:

Not determined

**Chronic toxicity:** 

Not determined

Absorption / Distribution /

Excretion / Metabolism:

Not determined

**Additional Information:** 

Not determined

### 12. ECOLOGICAL INFORMATION

**Toxicity to Fish:** 

LC50 18 mg/l 96 hour (Rainbow trout) (under static conditions in the presence of

humic acid)

LC50: 3000 mg/L 96-hour, (Menidia beryllina)

Toxicity to Invertebrates:

LC50 2800 mg/L 48 hour (Daphnia magna) (under static conditions in the presence

of humic acid)

LC50 200 mg/L 96 hour (Mysid shrimp)

MSDS date:

02-Feb-2006

Product Name: MAGNAFLOC LT22S

Toxicity to Algae:

Not determined

Toxicity to Sewage Bacteria:

Not determined

**Activated Sludge Respiration** 

**Inhibition Test:** 

Not determined

**Biochemical Oxygen Demand** 

(BOD):

Not determined

Chemical Oxygen Demand (COD): Not determined

Total Oxygen Demand (TOD):

Not determined

Biodegradability:

Based on the results of 28-Day Biodegradability assay, this product is not readily

biodegradable (< 20% after 28 days).

Bioaccumulation:

Not determined

**Additional Environmental Data:** 

This product contains cationic polymer(s) that may be toxic to aquatic organisms when tested in pure (distilled) water. Toxicity is greatly reduced by particles in natural

water.

### 13. DISPOSAL CONSIDERATIONS

Waste Disposal:

Dispose in accordance with local, state, provincial and federal regulations.

#### 14. TRANSPORT INFORMATION

### U.S. Department of Transportation (DOT):

Not regulated for this mode of transport.

### International Maritime Dangerous Goods (IMDG):

Not regulated for this mode of transport.

#### International Air Transportation Authority (IATA):

Not regulated for this mode of transport.

### 15. REGULATORY INFORMATION

### Federal Regulations

**DSHA Hazardous Substance:** 

This material is classified as hazardous under OSHA regulations

Product Name: MAGNAFLOC LT22S

MSDS date:

02-Feb-2006

Clean Air Act - Hazardous Air Pollutants (HAP): This product contains the following Hazardous Air Pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

Components	CAA Section 112 Statutory Hazardous Air Pollutants
2-propenamide	Listed.
79-06-1 (0-0.05 %)	

Clean Air Act - Volatile Organic Compounds (VOC): This product contains the following SOCMI Intermediate or Final Volatile Organic Compounds (VOC), as defined by the U.S. Clean Air Act Section 111 (40 CFR 60.489).

Components	CAA Section 111 Volatile Organic Compounds		
Hexanedioic acid	Listed		
124-04-9 2-propenamide	Listed,		
79-06-1			

Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15).

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261.21).

**SARA Section 302 Extremely Hazardous Substances (EHS):** This product contains the following component(s) regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

Components	Section 302 Extremely Hazardous Substances (EHS)	
2-propenamide 79-06-1 (0-0.05 %)	Listed	

**SARA Section 304 CERCLA Hazardous Substances:** This product contains the following component(s) regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

Components	Section 304 CERCLA Hazardous Substances	CERCLA Reportable Quantity
Hexanedioic acid 124-04-9 (3-6 %)	Listed.	5000 LBS
124-04-9 (3-6 %) 2-propenamide 79-06-1 (0-0.05 %)	Listed.	5000 LBS

**SARA Section 311/312 Hazard Communication Standard (HCS):** This product is regulated under Section 311/312 HCS (40 CFR 370). Its hazard(s): Acute (immediate) health hazard.

**SARA Section 313 Toxic Chemical List (TCL):** This product does not contain any components reportable under Sec 313 (40 CFR 372).

TSCA Section 8(b) Inventory Status: All component(s) comprising this product are either exempt or listed on the TSCA inventory.

TSCA Section 5(e) Consent Orders: This product is not subject to a Section 5(e) Consent Order.

TSCA Significant New Use Rule (SNUR): This product is not subject to a Significant New Use Rule (SNUR).

TSCA Section 5(f): This product is not subject to a Section 5(f)/6(a) rule.

MSDS date:

02-Feb-2006

Product Name: MAGNAFLOC LT22S

**TSCA Section 12(b) Export Notification:** This product does not contain any component(s) that are subject to a Section 12(b) Export Notification

#### State Regulations

California Proposition 65:

This product contains the following component(s) currently on the California list of Known Carcinogens and Reproductive Toxins.

Components	California Proposition 65	
2-propenamide	Carcinogenic.	
79-06-1	and the second s	

Pennsylvania Right-To-Know:

This product contains the following component(s) which are subject to Pennsylvania Right-to-Know disclosure requirement.

Components	CAS Number	Pennsylvania Right-to-Know
Hexanedioic acid	124-04-9	Listed. Environmental hazard.
2-propenamide	79-06-1	Listed. Environmental hazard.
Water	7732-18-5	Not Listed.
Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propenyl)oxy]-, chloride, polymer with 2-propenamide	69418-26-4	Not Listed.

### International Regulations

**Chemical Weapons Convention (CWC):** This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

Domestic Substance List (DSL) Status: All components either exempt or listed on the DSL.

#### 16. OTHER INFORMATION

Reason for revision:

Section(s) revised: 3,8

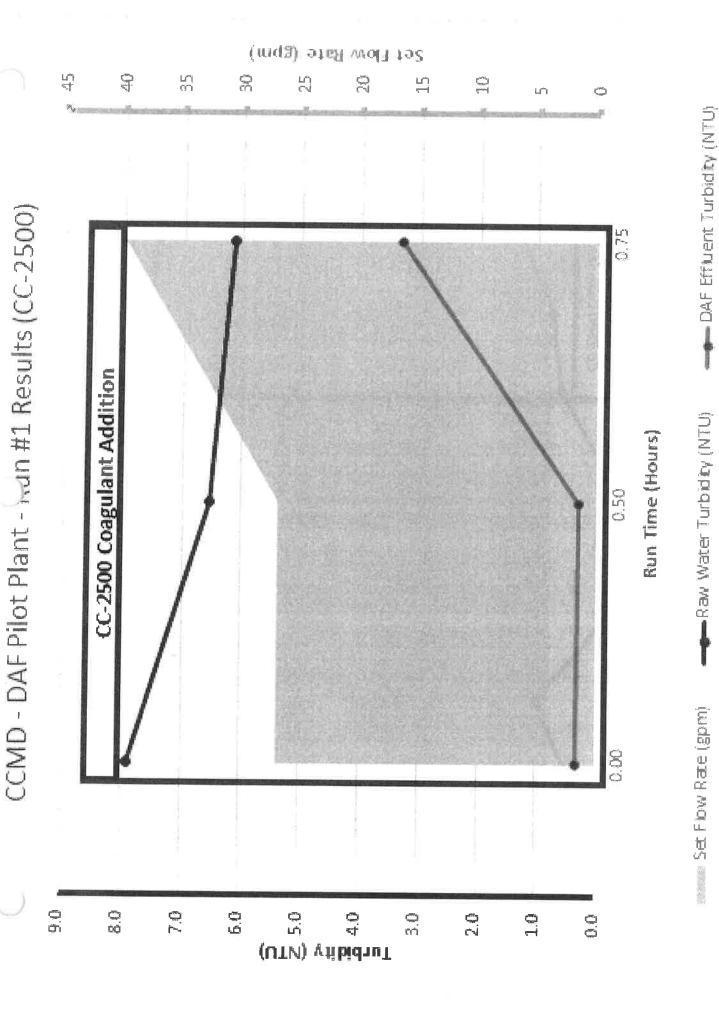
**Disclaimer:** The information contained herein is based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to such data or information. The user is responsible for determining whether the product is suitable for its intended conditions of use.



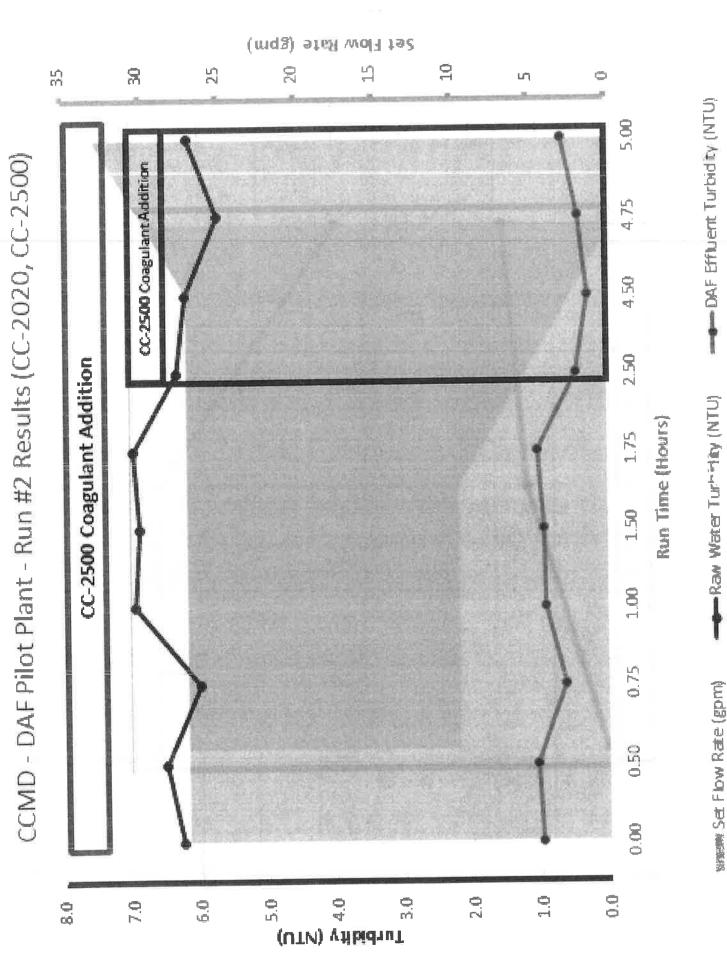
## **APPENDIX #3:**

DAF Pilot Results (Graph #1 and Graph #2)

NOCO **Engineering** Company



Graph 1: DAF Pilot System Results – Run #1



Graph 2: DAF Pilot System Results – Run #2



## COLORADO CITY METROPOLITAN DISTRICT PUBLIC NOTICE

#### **BOARD OF DIRECTORS PUBLIC HEARING**

A **Public Hearing** of the Board of Directors of the Colorado City Metropolitan District will be held Tuesday July 26, 2022, beginning at 6:00 p.m.

- 1. CALL TO ORDER.
  - Chairman Elliot closes the Regular Meeting to open the Public Hearing at 6:45 p.m.
- 2. QUORUM CHECK.

Chairperson Neil Elliot
Secretary Greg Collins
Treasurer Harry Hochstetler via Zoom
Director Terry Kraus
Director Sarah Hunter

Regarding a proposed amendment to the Rules and Regulations of the District. The proposed amendment would establish a procedure and resolution for the District to Amend 16.2.3 Unlicensed Vehicles Authorizing Use of Off Highway Vehicles on Colorado City Roads.

Copies of the resolution were made available to the public. Chairman Elliot asked the community members present if they wanted it read word for word. Community members asked for a summary of the Resolution. Manager Eccher and Director Kraus presented the short overview of the Resolution to the public as requested. Chairman Elliot opened the floor up for community input. There was no open comments from the Community.

6. ADJOURNMENT.

Chairman Elliot closes the Public Hearing at 6:50 p.m. and reopens the Regular Meeting.

COLORADO CITY METROPOLITAN DISTRICT

	Neil Elliot, Chairperson	-
ATTEST:		

Greg Collins, Secretary
Approved this 9th day of August 2022



# COLORADO CITY METROPOLITAN DISTRICT PUBLIC NOTICE BOARD OF DIRECTORS STUDY SESSION

A study session for the Board of Directors of the Colorado City Metropolitan District will be held Tuesday July 26, 2022, beginning at 6:00 p.m. Chairman Elliot calls the meeting to session.

- 1. Resolution 08-2022 Amending of Rules and Regs 16.2.3 Public hearing will proceed later in the meeting.
- 2. Resolution 09-2022 Accepting and confirming roads That will be maintained by CCMD. Additional roads that need to be added to the list. Mr. Collins wanted to make sure that this is housekeeping. Chairman Elliot wants to know if the roads were expedited. Manager Eccher noted that they were expedited, and they need to be updated to show that these are roads that are taken care of by CCMD, not Pueblo County.
- Colter presentation Short 10-minute presentation with a power point for effective utility management.
- 4. Post Office discussion

New contract owner came in Terry Ivory sharing his concerns as well as the concerns that he has for the Community, and he believes that we are owed our own Post office. Not ran a post Office before and he is looking for support from the community to support the effort in Providing the community with its own post office. There are a lot of behind-the-scenes actions That the postmaster general has not complied with, and he may be out of the building by next week. Total lack of funding from Denver. Postmaster general needs to be sent all complaints from the community. Interrupted service again as of this Saturday. Need to get ahold of representatives and share these concerns immediately.

5. CCAAC Review

8 first letters 5 second letters and 6 third letters recommended for approval. Along with approval of a garage and a fence. Chairman Elliot would also like to add a cease and deist letter to the occupants on Alondra.

#### COLORADO CITY METROPOLITAN DISTRICT

	Neil Elliot, Chairperson	
ATTEST:		
Greg Collins, Secretary Approved this 9th day of Augus	st 2022	

These minutes are not verbatim to the meeting and should not be considered a complete record of all discussions during the meeting. For complete proceedings and statements, please refer to the video or audio recording of the meeting.

#### **BOARD OF DIRECTORS REGULAR MEETING**

A regular meeting of the Board of Directors of the Colorado City Metropolitan District will be held Tuesday July 26, 2022, beginning at 6:15 p.m.

- 1. CALL TO ORDER. Chairman Elliot calls the Regular Meeting to order at 6:40 p.m.
- PLEDGE OF ALLEGIANCE.
- J. MOMENT OF SILENT REFLECTION.
- 4. QUORUM CHECK

Chairperson Neil Elliot Secretary Greg Collins Treasurer Harry Hochstetler via Zoom Director Terry Kraus Director Sarah Hunter

Also in Attendance:
Jim Eccher, District Manager
Yvonne Barron, Finance Director
Greg Bailey/Gary Golladay Water & Sewer
Ayden Gillund, Public Works

APPROVAL OF AGENDA

Mr. Kraus motions to motions to approve the Agenda. Mr. Collins seconds the motion. Chairman Elliot calls the vote. All Board Members are in favor. The Agenda is approved.

6. APPROVAL OF MINUTES.

Regular Meeting July 12, 2022 CCACC Minutes July 21, 2022

Mr. Collins motions to approve the minutes. Chairman would like to amend the motion, the amendment was withdrawn before completed. Ms. Hunter seconds the motion. Chairman Elliot calls the vote. All Board Members approve. The Minutes are approved.

BILLS PAYABLE.

Mr. Collins poses the question about the charges for Caselle and has multiple concerns. Finance Director explained the charges. Mr. Collins is still concerned with the charges and why they are so high at this time if they are processor issues or if it on the Caselle side. Chairman Elliot has a concern with the Natural Gas bill from the Golf Course and why is it so high currently. Manager Eccher will investigate and report back to the Board. All Board members are in favor. Chairman Elliot states to pay the bills.

8. FINANCIAL REPORT.

Getting back to current status. Property sales are down this year due to not selling property. There is nothing else that stands out

- 9. OPERATIONAL REPORT.
  - a. CCMD Directors
  - b. Beckwith Dam report
  - c. Committee Reports
- 10. READING BY CHAIRPERSON OF THE STATEMENT OF CONDUCT AND DEMEANOR.
- 11. CITIZENS INPUT.

Dennis Kahrs comes to the Board with 2 items this evening. His first is if there is any update on speaking with the attorney about being able to be made aware of the complainant if there is a complaint brought against a resident. Chairman Elliot states that CCMD and CCACC becomes the complainant. Also, questions about the burn pile and if there are any follow-up times. The Board shared there are none at this time and that Pueblo County will be here to next Monday to complete the wood chipping and it can also be picked up by anyone that can use it.

**Daryl Mahaney** presented to the Board with his concerns about the musk thistle that is growing out of control on the old 9-hole area of the golf course. He would like to point out that it is an obnoxious weed and that the previous

Board had promised that the area would be mowed down 2 times per year and that he would like to see this Happen soon. He did provide a handout to the Board and did suggest of possibly burning the musk thistle currently. **Dave Houghton** Presented to the Board hand outs regarding 6 or 7 items regarding over-population. He is concerned presently with the growth in the community. He also posed the question about the remote read meters and wanted to know more about the savings that it was supposed to bring, and he would like this information ser out to the community as well. He also shared his position for the Board to consider some restraint on growth at this time until we get some improvements completed.

**Matt Smith** is a Rye resident that is present this evening on behalf of his Colorado City friends that are unable to be present at the meeting this evening with concerns of the encampment that has started on Alondra. He did want to point out the Schultz Corp is a nonprofit group that is looking to provide homeless services.

ATTORNEYS REPORT: N/A

13. AGENDA ITEMS:

Resolution 08-2022

Discussion/Action

Mr. Collins motions to accept Resolution 08-2022 currently. Ms. Hunter seconds the motion To accept Resolution 08-2022. There was no discussion at this time from the Board. Chairman Elliot calls the vote. Mr. Hochstetler yes. Ms. Hunter yes. Mr. Collins yes. Mr. Kraus yes. Chairman Elliot yes. Resolution 08-2022 adopted.

Resolution 09-2022 Accepting and confirming roads Discussion/Action Mr. Kraus motions to accept Resolution 09-2022 Accepting and confirming roads. Mr. Collins seconds the motion to accept Resolution 09-2022. No discussion amongst the Board Members. Chairman Elliot calls the vote. Ms. Hunter yes. Chairman Elliot yes. Mr. Collins yes. Mr. Kraus yes. Mr. Hochstetler yes. Resolution 09-2022 has been adopted.

14. OLD BUSINESS. Covenants Lawyer/Applewood Park

Duell well/ Utility Director/Gravel Status /Lot Line Vacation for 70&71 unit 20

#### 15. NEW BUSINESS:

Mr. Collins motions to set a Public Hearing to raise tap fees as previously stated to \$20,000.00. Mr. Hochstetler seconds the motion. Chairman Elliot calls the vote to set a Public Hearing in 30 days to raise tap fees. Mr. Kraus yes. Mr. Collins yes. Ms. Hunter yes. Mr. Hochstetler yes. Chairman Elliot yes. Motion passes.

Mr. Collins motions to ask Mr. Kraus to draft a letter addressed to two Senator and a Congressman from the Board in support of assistance with the Colorado City Post Office. Mr. Hochstetler seconds the motion. Chairman Elliot calls the vote. Mr. Kraus yes. Mr. Hochstetler yes. Ms. Hunter yes. Mr. Collins yes. Chairman Elliot yes. Motion passes.

#### 16. CCACC:

A. New Construction

1. 4531 Manitou Drive

Garage

2. 4155 Ouray

Fence

Mr. Collins motions to approve the garage at 4531 Manitou Dr and the fence at 4155 Ouray. Mr. Kraus seconds the motion. The vote is called. Ms. Hunter yes. Chairman Elliot yes. Mr. Collins yes. Mr. Kraus Mr. Hochstetler yes. Approved.

- B. Actions
  - a. 8 First Letters
  - b 5 Second letters
  - c. 6 Third letters
  - d. 0 Unauthorized Structure

e. 1 Cease and Desist Alondra

Mr. Kraus motions to approve all letter and Cease and Desist to be sent. Mr. Hunter seconds the Motion. The vote is called. Mr. Hochstetler yes. Ms. Hunter yes. Mr. Collins yes. Chairman Elliot yes. All letters are approved.

- 17. CORRESPONDENCE: N/A
- 18. EXECUTIVE SESSION: N/A
- 19. ADJOURNMENT.

Mr. Collins motions for adjournment. Ms. Hunter seconds the motion. Chairman Elliot adjourns the meeting At 8:00 p.m.

COLORADO CITY METROPOLITAN DISTRICT

Neil Elliot, Chairperson

ATTEST:

Greg Collins, Secretary
Approved this 9th day of August 2022

These minutes are not verbatim to the meeting and should not be considered a complete record of all discussions during the meeting. For complete proceedings and statements, please refer to the video or audio recording of the meeting.

Page: 1 Aug 05, 2022 08:57AM

Report Criteria:

Report type: GL detail

Check\_Type = {<>} "Adjustment"

Period	Check d Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Amount	Check Amount
35630					7.		
08/22		35630	A Squared Instruments and Cor	Labor Parte July Syco MATD	00.0400.7400		
08/22	74		A Squared Instruments and Cor		02-0100-7122	5,635,75	5,635.7
			The additional tributation and con	Labor, Farts, July SVCS/VVVVIP	03-0100-7122	5,635.74	5,635,74
	Total 35630						11,271,49
35631							
08/22		35631	Acorn Petroleum, Inc	Fuel/Roads	01-6000-7151	429.77	429.77
08/22		35631	Acorn Petroleum, Inc	Fuel/P&R	01-0208-7151	496.23	496_23
08/22		35631	Acorn Petroleum, Inc	Fuel/WTP	02-0100-7151	595.47	595.47
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/WWTP	03-0100-7151	396,96	396.96
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/Adm	01-0100-7151	66,44	66.44
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/GC	04-0100-7151	989.56	989.56
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/GCM	04-0201-7151	1,824.30	1,824.30
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/Roads	01-6000-7151	208.54	208.54
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/P&R	01-0208-7151	246.19	246.19
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/WTP	02-0100-7151	295.43	295.43
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/WWTP	03-0100-7151	196.95	196.95
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/Adm	01-0100-7151	37.64	37.64
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/Roads	01-6000-7151	245.44	245,44
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/P&R	01-0208-7151	306.79	306.79
3/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/WTP	02-0100-7151	368.15	368,15
J8/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/WWTP	03-0100-7151	245 44	245.44
08/22	08/05/2022	35631	Acorn Petroleum, Inc	Fuel/Adm	01-0100-7151	61.34	61.34
То	otal 35631					_	7,010,64
5632						_	
08/22	08/05/2022	35632	ALAN GARST	Telephone Reimbursement/WTP	02-0100-7193	22.50	00.50
08/22	08/05/2022	35632	ALAN GARST	Telephone Reimbursement/WWTP	03-0100-7193	7.50	22.50 7.50
To	tal 25022.					_	7.00
10	otal 35632:						30.00
5633						_	
						-	
08/22	08/05/2022	35633	Arkansas Valley Co-op Assn	Propane/P&R	01-0208-7191	360 24	360.24
	08/05/2022 tal 35633:	35633	Arkansas Valley Co-op Assn	Propane/P&R	01-0208-7191	360.24	360.24
То		35633	Arkansas Valley Co-op Assn	Propane/P&R	01-0208-7191	360,24	
To 6 <b>34</b>	tal 35633;				01-0208-7191	360.24	360.24
To 6 <b>34</b> 8/22	tal 35633; 08/05/2022	35634	Ayden Gillund	Telephone Reimburse/WTP	01-0208-7191 02-0100-7193	360,24	360.24
To 6 <b>634</b> 18/22 18/22	tal 35633: 08/05/2022 08/05/2022	35634 A	Ayden Gillund Ayden Gillund	Telephone Reimburse/WTP Telephone Reimburse/WWTP		_	360.24 360.24
To: 6 <b>634</b> 18/22 18/22 18/22	tal 35633; 08/05/2022 08/05/2022 08/05/2022	35634 A 35634 A	Ayden Gillund Ayden Gillund Ayden Gillund	Telephone Reimburse/WTP Telephone Reimburse/WWTP Telephone Reimburse/Adm	02-0100-7193	9.00	360,24 360,24
To: 6 <b>634</b> 18/22 18/22 18/22	tal 35633: 08/05/2022 08/05/2022	35634 A 35634 A	Ayden Gillund Ayden Gillund Ayden Gillund	Telephone Reimburse/WTP Telephone Reimburse/WWTP	02-0100-7193 03-0100-7193	9.00	360,24 360,24 9,00 15,00
To 6 <b>634</b> 18/22 18/22 8/22 8/22	tal 35633; 08/05/2022 08/05/2022 08/05/2022	35634 A 35634 A	Ayden Gillund Ayden Gillund Ayden Gillund	Telephone Reimburse/WTP Telephone Reimburse/WWTP Telephone Reimburse/Adm	02-0100-7193 03-0100-7193 01-0100-7193	9.00 15.00 3.00	360.24 360.24 9.00 15.00 3.00
To 6 <b>634</b> 18/22 18/22 8/22 8/22	tal 35633; 08/05/2022 08/05/2022 08/05/2022 08/05/2022	35634 A 35634 A	Ayden Gillund Ayden Gillund Ayden Gillund	Telephone Reimburse/WTP Telephone Reimburse/WWTP Telephone Reimburse/Adm	02-0100-7193 03-0100-7193 01-0100-7193	9.00 15.00 3.00	360.24 360.24 9.00 15.00 3.00 3.00
To: 6634 88/22 88/22 88/22 Tot:	tal 35633; 08/05/2022 08/05/2022 08/05/2022 08/05/2022	35634 A 35634 A 35634 A	Ayden Gillund Ayden Gillund Ayden Gillund Ayden Gillund	Telephone Reimburse/WTP Telephone Reimburse/WWTP Telephone Reimburse/Adm Telephone Reimburse/Road	02-0100-7193 03-0100-7193 01-0100-7193 01-6000-7193	9.00 15.00 3.00 3.00	360.24 360.24 9.00 15.00 3.00 3.00
To: 6634 18/22 18/22 18/22 Tot: 635	tal 35633; 08/05/2022 08/05/2022 08/05/2022 08/05/2022 al 35634;	35634 A 35634 A 35634 A 35634 A	Ayden Gillund Ayden Gillund Ayden Gillund Ayden Gillund Beverly Fodor	Telephone Reimburse/WTP Telephone Reimburse/WWTP Telephone Reimburse/Adm Telephone Reimburse/Road	02-0100-7193 03-0100-7193 01-0100-7193 01-6000-7193	9.00 15.00 3.00 3.00	360.24 360.24 9.00 15.00 3.00 3.00 30.00
To: 6634 18/22 18/22 18/22 Tot: 635 18/22 18/22	tal 35633: 08/05/2022 08/05/2022 08/05/2022 08/05/2022 al 35634:	35634 A 35634 A 35634 A 35634 A	Ayden Gillund Ayden Gillund Ayden Gillund Ayden Gillund Beverly Fodor Beverly Fodor	Telephone Reimburse/WTP Telephone Reimburse/WWTP Telephone Reimburse/Adm Telephone Reimburse/Road  Telephone Reimbursement/Adm Telephone Reimbursement/WTP	02-0100-7193 03-0100-7193 01-0100-7193 01-6000-7193 01-0100-7193 02-0100-7193	9.00 15.00 3.00 3.00	360.24 360.24 9.00 15.00 3.00 3.00 30.00
To: 6634 8/22 8/22 8/22 Tot: 635 8/22 8/22	08/05/2022 08/05/2022 08/05/2022 08/05/2022 al 35634: 08/05/2022	35634 A 35634 A 35634 A 35634 A 35635 E 35635 E 35635 E	Ayden Gillund Ayden Gillund Ayden Gillund Ayden Gillund Beverly Fodor Beverly Fodor Beverly Fodor	Telephone Reimburse/WTP Telephone Reimburse/WWTP Telephone Reimburse/Adm Telephone Reimburse/Road  Telephone Reimbursement/Adm Telephone Reimbursement/WTP Telephone Reimbursement/WWTP	02-0100-7193 03-0100-7193 01-0100-7193 01-6000-7193 02-0100-7193 03-0100-7193	9,00 15,00 3,00 3,00 10,50 7,50 4,50	360,24 360,24 9,00 15,00 3,00 30,00 10,50 7,50 4,50
To: 6634 8/22 8/22 8/22 Tot: 635 8/22 8/22 12 12 12 12 13	tal 35633: 08/05/2022 08/05/2022 08/05/2022 al 35634: 08/05/2022 08/05/2022 08/05/2022	35634 A 35634 A 35634 A 35635 E 35635 E 35635 B 35635 B	Ayden Gillund Ayden Gillund Ayden Gillund Ayden Gillund Beverly Fodor Beverly Fodor Beverly Fodor Beverly Fodor	Telephone Reimburse/WTP Telephone Reimburse/WWTP Telephone Reimburse/Adm Telephone Reimburse/Road  Telephone Reimbursement/Adm Telephone Reimbursement/WTP	02-0100-7193 03-0100-7193 01-0100-7193 01-6000-7193 01-0100-7193 02-0100-7193	9.00 15.00 3.00 3.00	360.24 360.24 9.00 15.00 3.00 3.00 30.00

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GI_ Period	Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Amount	Check Amount
	-1-1.25025.					_	30.00
- 11	otal 35635:					-	30.00
35636							
08/22	08/05/2022	35636	Christoffer Robinson	Telephone Reimbursement/WTP	02-0100-7193	13 50	13,50
08/22	08/05/2022	35636	Christoffer Robinson	Telephone Reimbursement/WWTP	03-0100-7193	13 80	13.80
08/22	08/05/2022	35636	Christoffer Robinson	Telephone Reimburse/Roads	01-6000-7193	2.70	2.70
T	otal 35636:					_	30,00
35637							
08/22	08/05/2022	35637	Christy Gookin	Cleaning-July/Adm	01-0100-7122	150 00	150.00
T	otal 35637:						150.00
, ,	U(a) 55057.					-	
35638							
08/22	08/05/2022	35638	Cintas Corporation #562	Janitorial Svs/GCM	04-0201-7122	56.01	56.01
08/22	08/05/2022	35638	Cintas Corporation #562	Janitorial Svs/GCM	04-0201-7122	56.01	56.01
Te	otal 35638:					_	112.02
35639							
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	5000 Cureno Verde/P&R	01-0207-7192	48.80	48.80
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	4500 Cuerno Verde/GCM	04-0201-7192	60.32	60.32
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	4497 Bent Brothers/ADM	01-0100-7192	32,68	32,68
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	6042 9000 Hwy 165/P&R	01-0208-/192	58 10	58.10
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	9000 Hwy 165/P&R	01-0208-7192	34.41	34,41
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	9000 Hwy 165 Showers/P&R	01-0208-7192	100.16	100,16
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	5000 E Colorado Blvd/WTP	02-0100-7192	85_80	85,80
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	5000 E Colorado Blvd/WWTP	03-0100-7192	85,80	85.80
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	55 N Parkway/GC	04-0100-7192	579.72	579,72
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	Hole 14/GC	04-0100-7192	80.07	80 07 80 70
08/22	08/05/2022	35639	Colorado City Metropolitan Dist	5218 Monte Vista/P&R	01-0203-7192	80.70	00.70
T	otal 35639:						1,246.56
35640							
08/22	08/05/2022	35640	Colorado Dept. of Public Health	State Licensing-Surface Water Sup/WTP	02-0100-7125	465_00	465 00
08/22	08/05/2022	35640	Colorado Dept. of Public Health	State Licensing-WWTP/WWTP	03-0100-7122	2,733.00	2,733.00
08/22	08/05/2022	35640	Colorado Dept. of Public Health	State Licensing for Biosolids/WWTP	03-0100-7122	580.00	580.00
08/22	08/05/2022	35640	Colorado Dept. of Public Health	State Licensing-Pretreatment/WTP	02-0100-7125	92.00	92,00
Т	otal 35640:					2	3,870.00
35641							
08/22	08/05/2022	35641	Colorado Golf & Turf	Arm, Windshild/GC	04-0100-7150	267.53	267.53
08/22	08/05/2022	35641		A-arm,Key/GC	04-0100-7150	128.51	128.51
Т	otal 35641:						396,04
35642							
08/22	08/05/2022	35642	Colorado Special Districts Prop	Property & Liability Ins./Adm	01-0100-7144	1,972.00	1,972.00
08/22	08/05/2022	35642	Colorado Special Districts Prop	Property & Liability Ins./Roads	01-6000-7144	119.00	119.00
08/22	08/05/2022	35642	Colorado Special Districts Prop	Property & Liability Ins./P&R	01-0208-7144	2,412,00	2,412,0
08/22	08/05/2022	35642	Colorado Special Districts Prop	Property & Liability Ins./P&R	01-0203-7144	717.00	717,00
08/22	08/05/2022	35642	Colorado Special Districts Prop	Property & Liability Ins./P&R	01-0207-7144	735.00	735.00
08/22	08/05/2022	35642	Colorado Special Districts Prop	Property & Liability Ins_/WTP	02-0100-7144	7,871.00	7,871_00

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				55K 15545 Editos: 6/6/2022 - 6/6 1/2022			lug 05, 2022 08:
GL Period	Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Amount	Check Amount
08/22	08/05/2022	35642	2 Colorado Special Districts Prop	Property & Liability Ins./WWTP	03-0100-7144	9,026.00	9,026.00
08/22	08/05/2022	35642	Colorado Special Districts Prop	Property & Liability Ins./GC	04-0100-7144	2,965 00	
08/22	08/05/2022	35642	Colorado Special Districts Prop	Property & Liability Ins./GCM	04-0201-7144	209.00	2,965.00
Т	otal 35642:			, ,,	04-0201-7144	209,00	209.00
	otal 00042.						26,026.00
35643							
08/22	08/05/2022	35643	Core & Main LP	Concr Pad,6MJ 90 C153 IMP/WTP	02-0100-7150	400.44	400_44
To	otal 35643:						400,44
35644						,53	
08/22	08/05/2022	35644	Cristy Adams	Telephone Reimbursement/Adm	01-0100-7193	6.00	6.00
08/22	08/05/2022	35644	Cristy Adams	Telephone Reimburse/WTP	02-0100-7193	15.00	
08/22	08/05/2022	35644	Cristy Adams	Telephone Reimburse/WWTP	03-0100-7193		15,00
Та	atal 25044.			Company of the Compan	03-0100-7193	9.00	9,00
10	otal 35644:					-	30,00
35645	00/05/0000		-				
08/22	08/05/2022	35645	Daniel Bloodworth	Telephone Reimburse/WTP	02-0100-7193	15.00	15,00
08/22	08/05/2022	35645	Daniel Bloodworth	Telephone Reimburse/WWTP	03-0100-7193	15.00	15.00
Tot	tal 35645					_	30.00
35646							
//22	08/05/2022	35646	Direct Discharge Consulting, LL	July ORC, Svc/WWTP	03-0100-7122	840.00	840_00
Tot	al 35646:						840 00
35647						_	
08/22	08/05/2022	35647	Donald Anzlovar (2)	Telephone Reimbursement	04-0201-7193	30.00	30.00
Tota	al 35647:					_	30.00
35648						=	00,00
	08/05/2022	35648	DPC Industries, Inc.	Chloring Cod Boots (SATE)			
			or o madatrica, mo.	Chlorine Cyl Rental/WTP	02-0100-7150	140.00	140.00
Tota	al 35648:						140.00
35649							
08/22 0	8/05/2022	35649 <b>E</b>	Evoqua Water Technologies	1 Tote AKTA/WTP	01-0100-7150	7,343.70	7,343.70
Tota	35649;						7,343.70
25050						-	7,040.10
35650							
	8/05/2022	35650 F	EDEX	Transport Samples/WWTP	03-0100-7150	53.32	53.32
08/22 0	8/05/2022	35650 <b>F</b>	FEDEX	Transport Samples/WTP	02-0100-7150	48.67	48.67
Total	35650						101.99
35651						_	
08/22 08	8/05/2022	35651 <b>F</b>	idelity National Title	Refund for AOS - Patricia Martin	19-0000-1991	101.00	101.00
Total	35651					-	101-00
35652						\ <u></u>	
	3/05/2022	35652 F	leet Supply	Battery, oil&air filters/WTP	02.0400.7450	400	
			F.F.7	James J. Olician Interseve I F	02-0100-7150	136 49	136.49

GL Period	Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Amount	Check Amount
08/22 08/22	08/05/2022 08/05/2022		Fleet Supply Fleet Supply	Battery, oil&air filters/WWTP Parts for 1995 F150/P&R	03-0100-7150 01-0208-7150	136 49 140 61	136.49 140.61
Т	otal 35652:					_	413,59
35653							
08/22	08/05/2022	35653	Glass Force South	Club house Doors/GC	04-0100-7122	2,299.00	2,299.00
08/22	08/05/2022	35653	Glass Force South	Door-Cold Springs Chem Room/WTP	02-0100-7122	1,369.00	1,369,00
Т	otal 35653:						3,668,00
35654							
08/22	08/06/2022	35654	Greenhorn Valley Ace Hardware	Sleeve Comp, Dye Liq/WTP	02-0100-7150	16 56	16,56
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	SmartFlo Hose/WTP	02-0100-7150	47_99	47.99
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Cleanr Brake/P&R	01-0208-7150	13.98	13,98
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Safty Gls, Keys/WTP	02-0100-7150	22.78	22,78
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Misc Hardware/P&R	01-0208-7150	13.14	13,14
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Keys/WTP	02-0100-7150	2.79	2.79
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Bolt, Goggles/WWTP	03-0100-7150	29.15	29:15
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Shims/P&R	01-0208-7150	11,98	11.98
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Recovery Strap/WTP	02-0100-7150	39.98	39 98
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Vinyl Tubing, Antifreeze/P&R	01-0208-7150	36.85	36,85
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Clnr, Auto Bulb Thred Gel/P&R	01-0208-7150	34.75	34.75
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Motor Oil/P&R	01-0208-7150	11.18	11.18
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Silicon/WWTP	03-0100-7150	7 59	7 59
	08/05/2022	35654	Greenhorn Valley Ace Hardware	BRM/Dstpn/P&R	01-0208-7150	10.99	10,99
08/22		35654	Greenhorn Valley Ace Hardware	Distilld Watr/WWTP	03-0100-7150	23.94	23,94
08/22	08/05/2022		Greenhorn Valley Ace Hardware	Led Plug/Play/P&R	01-0208-7150	33.98	33,98
08/22	08/05/2022	35654		Bypass Lopper/WWTP	03-0100-7150	22.99	22.99
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Elbow, Coupler PVC/WTP	02-0100-7150	27.45	27.45
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware		04-0201-7150	29.76	29.76
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	DSP Gloves, Coupl Insrt/GCM	04-0201-7150	25.17	25.17
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Cement PVC,HSE Clmp/GCM	01-0208-7150	7 99	7.99
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	V Belt/P&R			43.96
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Athl Fld STPPNT/P&R	01-0208-7150	43.96	
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Insct Repel Spray/P&R	01-0208-7150	34.95	34,95
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Return	01-0208-7150	34.95-	34.95
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Insct RePell Spray/P&R	01-0208-7150	39.90	39.90
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Digital Glass Food Scl/P&R	01-0208-7150	29.99	29,99
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Spade Drain,ShvI Rnd/WTP	02-0100-7150	59.98	59,98
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Spade Drain, ShvI Rnd/WWTP	03-0100-7150	59.98	59.98
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Dmnd Bld Trbo, Disp Mask/WTP	02-0100-7150	19.98	19.98
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Grnd Plug 15A Blk/P&R	02-0100-7150	11.98	11,98
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	LED A19 60W 10PK/WTP	02-0100-7150	14.99	14_99
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Flag Cotton 4x5/ADM	01-0100-7150	44.99	44_99
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Super Wheel Chock Rp/WTP	02-0100-7150	19,99	19 99
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Super Wheel Chock Rp/WWTP	03-0100-7150	19,99	19.99
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Valve Float Cooler/WTP	02-0100-7150	8.59	8.59
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Battry Lith,Mark Paint/GCM	04-0201-7150	39.56	39,56
08/22	08/05/2022	35654		PadlockCMBO,SprgSnap/P&R	01-0208-7150	29.74	29.74
08/22	08/05/2022	35654		Ext Cord/P&R	01-0208-7150	74.99	74.99
08/22	08/05/2022	35654		Cowhide Glvs 3/P&R	01-0208-7150	47.97	47.97
		35654	Greenhorn Valley Ace Hardware	Elbow Insrt Poly/GCM	04-0201-7150	5,97	5.97
08/22	08/05/2022			Distilld Watr/WTP	02-0100-7150	19.95	19.95
08/22	08/05/2022	35654		Propane,Wasp&HornSpry/WTP	02-0100-7150	46.19	46.1
08/22	08/05/2022	35654			02-0100-7150	39.54	39.54
08/22	08/05/2022	35654		Bug&Wasp Spry/WTP	02-0100-7150	16.99	16.99
08/22	08/05/2022	35654		TidyCat Scp/WTP	02-0100-7150	3.98	3.98
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Bolt U/WWTP	05-0100-7150	3 30	3.30

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08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware	Bolt U/WWTP	02 0100 7150	7.00	
08/22	08/05/2022	35654			03-0100-7150	7.96	7,96
08/22	08/05/2022	35654			03-0100-7150	11.23	11,23
08/22	08/05/2022	35654			02-0100-7150	15.99	15,99
08/22	08/05/2022	35654			02-0100-7150	47.75	47.75
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware		02-0100-7150	17.76	17.76
08/22	08/05/2022	35654	Greenhorn Valley Ace Hardware		02-0100-7150	7.98	7.98
08/22		35654	Greenhorn Valley Ace Hardware		02-0100-7150	4.99	4.99
08/22		35654	Greenhorn Valley Ace Hardware		01-6000-7150	20.42	20 42
08/22		35654	Greenhorn Valley Ace Hardware	' '	02-0100-7150	9,98	9.98
08/22	08/05/2022	35654			02-0100-7150	41.44	41,44
30/22	00/00/2022	33034	Greenhorn Valley Ace Hardware	Tee PVC,Couple Sch/WTP	02-0100-7150	20 57	20.57
7	otal 35654:					=	1,382,26
35655	00/05/0000						
08/22	08/05/2022	35655	Gregory Collins	July Board Mtgs/Adm	01-0100-7122	50.00	50,00
Т	otal 35655:						50.00
<b>35656</b> 08/22	08/05/2022	35656	Harry Hochstetler	July Board Mtgs/Adm	01-0100-7122	100.00	100.00
T	otal 35656;				3. 3133 7122	_	100.00
35657						_	100.00
)/22	08/05/2022	35657	James Eccher	Tolophono Boimburgomont/Adm	04.0400.7400		
18/22	08/05/2022		James Eccher	Telephone Reimbursement/Adm	01-0100-7193	15.00	15.00
08/22	08/05/2022		James Eccher	Telephone Reimbursement/WTP	02-0100-7193	10,50	10.50
		0000,	ounies come	Telephone Reimbursement/WWTP	03-0100-7193	4.50	4.50
10	otal 35657;					-	30.00
<b>35658</b> 08/22	08/05/2022	25050	Janes Augus				
00/22	06/05/2022	35658 ,	Jason Anglin	Customer refund overpayment 1776.01	19-0000-1991	51.08	51,08
То	tal 35658					-	51.08
<b>35659</b> 08/22	08/05/2022	25650	lotomy Wiles	0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
		33039	Jeremy Wilcox	Condensation Pump/WWTP	03-0100-7150	183.00	183.00
To	tal 35659					_	183.00
35660 08/22	08/05/2022	35660 J	IM Repair Fabrication and Mac	Debalas Danai Matarro			
		00000	mi Kepan Fabrication and Mac	Potholer Repair/WWTP	03-0100-7122	475.00	475.00
Tot	al 35660:					_	475.00
35661							
08/22	08/05/2022	35661 <b>J</b>	ody Minkler	Telephone Reimbursement/WTP	02-0100-7193	15.00	15.00
08/22	08/05/2022	35661 <b>J</b>	ody Minkler	Telephone Reimbursement/WWTP	03-0100-7193	15.00	15.00
Tota	al 35661:					10,00	15.00
	ui 0000 In:						30.00
35662 22 (	08/05/2022	35662 <b>J</b>	osh Briggs	Telephone Reimburse/P&R	01-0208-7193	30.00	30.00
)			<del></del>	,	0 : 0200-1183	30,00	30.00
Tota	al 35662:					: <u>-</u>	30.00

### Check Register Board Check Issue Dates: 8/5/2022 - 8/31/2022

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Invoice Check Invoice Description Check Check Amount GL Account Amount Payee Period Issue Date Number 35663 04-0201-7150 176.10 176,10 35663 L.L. Johnson Distributing Co Brass Fix, Adpt, Slip Fix/GCM 08/22 08/05/2022 176.10 Total 35663: 35664 35664 Loan Payment Processing Cent Grader Lease Pmt-Sept 2022/Roads 01-6000-7730 9,884,45 9,884.45 08/22 08/05/2022 9,884.45 Total 35664 35665 01-0100-7122 100.00 100:00 35665 Neil Elliot July Board Mtgs/Adm 08/22 08/05/2022 100.00 Total 35665: 35666 91.98 01-4000-4510 91.98 Reimburse GC Deposit Overpaid/GC 08/22 08/05/2022 35666 Phillip Spicer 91.98 Total 35666: 35667 Pre-Employment Testing/WTP 02-0100-7122 27.50 27.50 35667 Procom LLC 08/22 08/05/2022 Pre-Employment Testing/WWTP 03-0100-7122 27.50 27.50 35667 Procom LLC 08/22 08/05/2022 55 00 Total 35667: 35668 85.00 85.00 02-0100-7122 35668 Pueblo Dept. of Public Health & Testing/WTP 08/22 08/05/2022 93.00 93.00 Pueblo Dept. of Public Health & Testing/WWTP 03-0100-7122 35668 08/22 08/05/2022 178.00 Total 35668: 35669 Dam Proj-Feasibility Prog Rep 4?WTP 02-0100-7720 7,802.60 7,802.60 08/05/2022 35669 RJH Consultants, Inc 08/22 7,802.60 Total 35669: 35670 02-0100-7122 1,450.00 1,450,00 Repair Roof WTP/WTP 08/05/2022 35670 Robison Construction 08/22 04-0100-7122 1,250.00 1,250,00 Repair Roof Club House/GC 08/22 08/05/2022 35670 **Robison Construction** Repair Roof WWTP/WWTP 03-0100-7122 1,950.00 1,950.00 08/05/2022 35670 **Robison Construction** 08/22 4,650.00 Total 35670 35671 557.54 Telephone/Adm 01-0100-7193 557.54 35671 RTC C/O HIGHLNE SERVICES 08/05/2022 08/22 01-0208-7193 161.05 161.05 Telephone/P&R 08/05/2022 RTC C/O HIGHLNE SERVICES 08/22 226,51 03-0100-7193 226,51 RTC C/O HIGHLNE SERVICES Telephone/WWTP 08/22 08/05/2022 360.29 02-0100-7193 360.29 08/05/2022 35671 RTC C/O HIGHLNE SERVICES Telephone/WTP 08/22 Telephone/GC 04-0100-7193 180.44 180.44 08/22 08/05/2022 35671 RTC C/O HIGHLNE SERVICES 04-0201-7193 100.33 100.33 35671 RTC C/O HIGHLNE SERVICES Telephone/GCM 08/22 08/05/2022 1,586.16 Total 35671: 35672 02-0100-7193 15:00 15.00 35672 Russell Maddox Telephone Reimburse/WTP 08/05/2022 08/22 15.00 Telephone Reimburse/WWTP 03-0100-7193 15,00 08/05/2022 35672 Russell Maddox 08/22

GL Period	Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Amount	Check Amount
	Total 35672:						30.00
35073							
<b>35673</b> 08/22	08/05/2022	35673	Safety-Kleen Systems Inc	Parts Washer Solvent/GCM	04-0201-7122	366 43	366 43
-	Fotal 35673:						366.43
35674						_	
08/22	08/05/2022	35674	Sam's Club Direct	Pool Concession/Pool	01-0207-7112	184.90	104.00
08/22	08/05/2022	35674	Sam's Club Direct	Pool Concession/Pool	01-0207-7112	491.31	184.90 491.31
08/22	08/05/2022	35674	Sam's Club Direct	Pool Concession/Pool	01-0207-7112	384.55	384.55
08/22	08/05/2022	35674	Sam's Club Direct	Tax Refund/ADM	01-0100-7150	40.20-	40,20-
Т	otal 35674:					_	1,020.56
35675						=	
08/22	08/05/2022	35675	San Isabel Electric Association	W&S Security LT/WTP, WWTP	03-0100-7190	21.08	24.00
08/22	08/05/2022	35675	San Isabel Electric Association	W&S Security LT/WTP, WWTP	02-0100-7190	10 79	21,08 10.79
08/22	08/05/2022	35675	San Isabel Electric Association	N. Parkway Pump/GCM	04-0201-7190	93 63	93,63
08/22	08/05/2022	35675	San Isabel Electric Association	55 N Parkway/GC	04-0100-7190	1,127 72	1,127,72
08/22	08/05/2022	<b>356</b> 75	San Isabel Electric Association	5000 East Col Blvd/W&S Shop	03-0100-7190	56.38	56.38
08/22	08/05/2022	35675	San Isabel Electric Association	5000 East Col Blvd/W&S Shop	02-0100-7190	56.37	56.37
08/22	08/05/2022	35675	San Isabel Electric Association	54 Lights/Roads	01-6000-7190	875.21	875.21
08/22	08/05/2022	35675	San Isabel Electric Association	4500 Cuerno Verde/GCM	04-0201-7190	49 16	49.16
`:/22	08/05/2022		San Isabel Electric Association	4500 Cuerno Verde/GCM	04-0201-7190	111.65	111.65
.8/22	08/05/2022		San Isabel Electric Association	5000 Cuerno Verde/Pool	01-0207-7190	1,076.33	1,076.33
08/22	08/05/2022		San Isabel Electric Association	P&R Security LT/Pool	01-0207-7190	16.18	16,18
08/22 08/22	08/05/2022		San Isabel Electric Association	Tank #1/WTP	02-0100-7190	1,913.08	1,913.08
08/22	08/05/2022		San Isabel Electric Association	5000 Cuerno Verde Blvd/Rec Ctr	01-0203-7190	236.92	236.92
08/22	08/05/2022 08/05/2022		San Isabel Electric Association	Marina Sec LT/ADM	01-0100-7190	10.29	10.29
08/22	08/05/2022		San Isabel Electric Association	Lake Beckwith Restroom/P&R	01-0208-7190	33,15	33:15
08/22	08/05/2022		San Isabel Electric Association San Isabel Electric Association	5445 Cuerno Verde/GCM	04-0201-7190	10.79	10.79
08/22	08/05/2022		San Isabel Electric Association	Rec Dist Well/WTP	02-0100-7190	35.86	35.86
08/22	08/05/2022		San Isabel Electric Association	5600 Cuerno Verde/WTP	02-0100-7190	5,952.81	5,952.81
08/22	08/05/2022		San Isabel Electric Association	Greenhorn Mdws Park/P&R	01-0208-7190	40.58	40_58
08/22	08/05/2022		San Isabel Electric Association	W&S Security LT/WTP, WWTP W&S Security LT/WTP, WWTP	02-0100-7190	10.79	10.79
08/22	08/05/2022		San Isabel Electric Association	P&R Security LT/P&R	03-0100-7190	10,79	10.79
	08/05/2022		San Isabel Electric Association	P&R Security LT/P&R	01-0208-7190 01-0208-7190	16,18	16.18
08/22	08/05/2022		San Isabel Electric Association	W&S Security LT/WTP, WWTP	02-0100-7190	16.68	16.68
08/22	08/05/2022		San Isabel Electric Association	4497 Bent Bros/ADM	01-0100-7190	25.12 190.45	25.12
08/22	08/05/2022		San Isabel Electric Association	4497 Bent Bros/ADM	01-0100-7190	320 43	190.45 320.43
08/22	08/05/2022		San Isabel Electric Association	W&S Security LT/WTP, WWTP	03-0100-7190	10.29	10.29
08/22	08/05/2022	35675	San Isabel Electric Association	GreenhornCampground/P&R	01-0208-7190	766.45	766.45
08/22	08/05/2022	35675	San Isabel Electric Association	Tank #2/WTP	02-0100-7190	61.06	61.06
08/22	08/05/2022	35675 <b>S</b>	San Isabel Electric Association	P&R Security LT/P&R	01-0208-7190	16.68	16.68
08/22	08/05/2022	35675 <b>S</b>	San Isabel Electric Association	P&R Security LT/P&R	01-0208-7190	16.68	16.68
	08/05/2022		San Isabel Electric Association	P&R Security LT/P&R	01-0208-7190	16.18	16.18
	08/05/2022		San Isabel Electric Association	P&R Security LT/P&R	01-0208-7190	16.18	16.18
	08/05/2022		San Isabel Electric Association	P&R Security LT/P&R	01-0208-7190	16.18	16.18
	08/05/2022		San Isabel Electric Association	P&R Security LT/P&R	01-0208-7190	16.18	16.18
	08/05/2022		San Isabel Electric Association	Ball Field/P&R	01-0208-7190	47.18	47.18
2	08/05/2022		San Isabel Electric Association	Greenhorn Mdws Park/P&R	01-0208-7190	36.15	36.15
	08/05/2022		an Isabel Electric Association	Gazebo/P&R	01-0208-7190	26.47	26,47
	08/05/2022		an Isabel Electric Association	P&R Security LT/P&R	01-0208-7190	16.68	16.68
08/22	08/05/2022	35675 <b>S</b>	an Isabel Electric Association	P&R Secuirty LT/P&R	01-0208-7190	16.18	16.18

GL Period	Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Amount	Check Amount
		25075	Car leabal Electric Association	W&S Security LT/WTP, WWTP	03-0100-7190	10.79	10,79
08/22	08/05/2022	35675	San Isabel Electric Association San Isabel Electric Association	Greenhorn Mdws Park/P&R	01-0208-7190	170.85	170.85
08/22	08/05/2022	35675	San Isabel Electric Association	P&R Security LT/P&R	01-0208-7190	16.68	16.68
08/22	08/05/2022	35675 35675	San Isabel Electric Association	Cold Springs Pump/WTP	02-0100-7190	346 24	346.24
08/22	08/05/2022	35675		Cold Springs Pump Sec LT/WTP	02-0100-7190	10.29	10.29
08/22	08/05/2022	35675	San Isabel Electric Association	Tank #3/WTP	02-0100-7190	47 59	47.59
08/22	08/05/2022 08/05/2022	35675	San Isabel Electric Association	Booster Station/WTP	02-0100-7190	202.95	202 95
08/22 08/22	08/05/2022	35675	San Isabel Electric Association	Park Sign/P&R	01-0208-7190	68,67	68.67
08/22	08/05/2022	35675	San Isabel Electric Association	15th Hole/GC	04-0100-7190	38.87	38.87
08/22	08/05/2022	35675	San Isabel Electric Association	Gate Tank #4/WTP	02-0100-7190	32.14	32.14
08/22	08/05/2022	35675		Rodeo Grounds Well/WTP	02-0100-7190	223 10	223 10
08/22	08/05/2022	35675	San Isabel Electric Association	18th Well/WTP	02-0100-7190	177.36	177.36
08/22	08/05/2022	35675	San Isabel Electric Association	Kanaeche Well/STP	02-0100-7190	105 87	105.87
08/22	08/05/2022	35675	San Isabel Electric Association	Dixit Well/WTP	02-0100-7190	79.28	79.28
08/22	08/05/2022	35675		Summit Well/WTP	02-0100-7190	81.05	81.05
08/22	08/05/2022	35675		Greenhorn Park Gazebo/P&R	01-0208-7190	117,66	117.66
08/22	08/05/2022	35675	San Isabel Electric Association	3160 Applewood/WWTP	03-0100-7190	2,956.35	2,956.35
08/22	08/05/2022	35675	San Isabel Electric Association	Concession Stand/P&R	01-0208-7190	75 76	75.76
To	otal 35675:					-	18,158,46
<b>35676</b> 08/22	08/05/2022	35676	Sarah Hunter	July Board Mtgs/Adm	01-0100-7122	100.00	100,00
To	otal 35676;					5	100 00
25077							
<b>35677</b> 08/22	08/05/2022	35677	SAVECO NORTH AMERICA INC.	Bag Longopac 90M Long/WWTP	03-0100-7150	414.60	414.60
To	otal 35677					=	414.60
35678	00/05/0000	25270	CCC North America Inc	Testing-Total Organic Carbon/WTP	02-0100-7122	300.00	300.00
08/22	08/05/2022	35678		Testing-Biochemical/WWTP	03-0100-7122	118 00	118.00
08/22	08/05/2022	35678 35678	SGS North America Inc.	Testing-Total Organic Carbon/WTP	02-0100-7122	300.00	300.00
08/22	08/05/2022	35678	SGS North America Inc.	Testing-StateForms DW/WTP	02-0100-7122	398 61	398,61
08/22	08/05/2022		SGS North America Inc.	Testing-PWSID/WWTP	03-0100-7122	218.00	218.00
08/22 08/22	08/05/2022 08/05/2022		SGS North America Inc.	Testing-Nitrogen, Annomia/WTP	02-0100-7122	147 84	147,84
Т	otal 35678:						1,482.45
35679							
08/22	08/05/2022	35679	Terry Kraus	July Board Mtgs/Adm	01-0100-7122	100.00	100.00
Т	otal 35679:					2	100,00
<b>35680</b> 08/22	08/05/2022	35680	True Value Trailers	Repl Wheel & Bolt/WTP	02-0100-7150	91.00	91.00
Т	otal 35680:						91.00
35681							
08/22	08/05/2022	35681	USA Blue Book	Wheeler, Sh Cut, Rex CTS Flare/WTP	02-0100-7150	78.70	78.70
08/22	08/05/2022	35681	USA Blue Book	Wheeler, Sh Cut, Rex CTS Flare/WWTP	03-0100-7150	78.70	78.70
08/22	08/05/2022	35681		Hach DPD,TNT+TOC/WTP	02-0100-7150	1,467.20	1,467.20
08/22	08/05/2022	35681		Hach DPD,TNT+TOC/WWTP	03-0100-7150	1,467,19	1,467,19

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GL Period	Check Issue Date	Check Number	Payee	Description	Invoice GL Account	Invoice Amount	Check Amount
Т	otal 35681						3,091,79
35682							
08/22	08/05/2022	35682	Utility Notification Center of Col	Utility Locates/WTP	02-0100-7150	83.85	83.85
08/22	08/05/2022	35682	Utility Notification Center of Col	Utility Locates/WWTP	03-0100-7150	83.85	83.85
Т	otal 35682:						167.70
35683						-	
08/22	08/05/2022	35683	William Gilliam	Customer refund overpayment 1381,01	19-0000-1991	70.86	70.86
То	otal 35683:						70 86
5684						-	
08/22	08/05/2022	35684	Yvonne Barron (2)	Telephone Reimbursement/ADM	01-0100-7193	15.00	15.00
08/22	08/05/2022	35684	Yvonne Barron (2)	Telephone Reimbursement/WTP	02-0100-7193	10.50	10.50
08/22	08/05/2022	35684	Yvonne Barron (2)	Telephone Reimbursement/WWTP	03-0100-7193	4.50	4.50
То	tal 35684:						30.00
Gra	and Totals:					-	115,641.19

nmary by General Ledger Account Number

	GL Account	Debit	Credit	Proof
	01-0000-2110	75.15	33,535.22-	33,460.07-
	01-0100-7122	600.00	.00	600_00
	01-0100-7144	1,972.00	.00	1,972.00
	01-0100-7150	7,388.69	40,20-	7,348.49
	01-0100-7151	165.42	.00	165.42
	01-0100-7190	521,17	.00	521.17
	01-0100-7192	32.68	.00	32.68
	01-0100-7193	607.04	.00	607.04
	01-0203-7144	717.00	.00	717.00
	01-0203-7190	236.92	.00	236.92
	01-0203-7192	80.70	.00	80_70
	01-0207-7112	1,060,76	.00	1,060.76
	01-0207-7144	735.00	.00	735.00
	01-0207-7190	1,092.51	.00	1,092,51
	01-0207-7192	48,80	.00	48.80
	01-0208-7144	2,412.00	.00	2,412.00
	01-0208-7150	622,95	34.95-	588.00
	01-0208-7151	1,049.21	.00	1,049.21
	01-0208-7190	1,563.40	.00	1,563.40
	01-0208-7191	360.24	.00	360.24
	01-0208-7192	192.67	.00	192.67
	01-0208-7193	195.55	.00	195.55
	01-4000-4510	91.98	.00	91.98
	01-6000-7144	119.00	.00	119.00
1	01-6000-7150	20.42	.00	20.42
1	01-6000-7151	883.75	.00	883.75
	01-6000-7190	875.21	.00	875-21
	01-6000-7193	5.70	.00	5.70

GL Acc	ount	Debit	Credit	Proof
	01-6000-7730	9,884.45	_00	9,884.45
	02-0000-2110	.00	40,183,23-	40,183.23
	02-0100-7122	9,713,70	.00	9,713.70
	02-0100-7125	557,00	.00	557.00
	02-0100-7144	7,871,00	.00	7,871,00
	02-0100-7150	3,028,54	.00	3,028,54
	02-0100-7151	1,259.05	.00	1,259.05
	02-0100-7190	9,371.75	.00	9,371.75
	02-0100-7192	85,80	.00	85.80
	02-0100-7193	493_79	.00	493 79
	02-0100-7720	7,802,60	.00	7,802,60
	03-0000-2110	00	28,621,34-	28,621,34-
	03-0100-7122	12,670,24	.00	12,670_24
	03-0100-7144	9,026.00	.00	9,026.00
	03-0100-7150	2,603,96	.00	2,603.96
	03-0100-7151	839.35	.00	839.35
	03-0100-7190	3,065,68	.00	3,065,68
	03-0100-7192	85.80	.00	85.80
	03-0100-7193	330 31	.00	330_31
	04-0000-2110	.00	13,153,61-	13,153.61-
	04-0100-7122	3,549.00	.00	3,549.00
	04-0100-7144	2,965.00	.00	2,965.00
	04-0100-7150	396.04	.00	396,04
	04-0100-7151	989,56	.00	989.56
	04-0100-7190	1,166.59	.00	1,166,59
	04-0100-7192	659.79	.00	659.79
	04-0100-7193	181_94	.00	181,94
	04-0201-7122	478.45	.00	478.45
	04-0201-7144	209.00	.00	209.00
	04-0201-7150	276.56	.00	276,56
	04-0201-7151	1,824.30	.00	1,824.30
	04-0201-7190	265_23	.00.	265.23
	04-0201-7192	60.32	.00	60_32
	04-0201-7193	131.83	.00	131,83
	19-0000-1991	222 94	.00	222,94
	19-0000-2110	.00	222.94-	222.94-
Grand Totals:		115,791.49	115,791.49-	.00

Colorado City Metropolitan Dis		ck Register Board ates: 8/5/2022 - 8/31/2022	Page: 1 Aug 05, 2022_08:57AM
) Dated:			
City Council:			
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Report Criteria:  Report type: GL detail  Check.Type = {<>} "Adjustr	nent"		

2022 Month of July membership \$42.00

2021 July Revenue \$ 70,766

2022 July Revenue \$ 57,277

days without some league play. County fair was going on at end of the degree weather hurt us on some play a few afternoon storms we went a few have all carts up and running nothing is broken down. In process of month as well. Overall I was very happy with how this month went. We We had a good month from my forecast I had twelve days where we had 90

reviewing what we need to upgrade the course such as trash cans hoses etc.



#### Course

- (4.25") Precipitation July 1 August 5
- Greens sprayed for Black Cut Worms 7/26 (also control Black, May/June, Japanese Beattle larve)
- -Greens sprayed with fungicide 7/27 (Anthracnose and Dollar Spot present on property)
- -Course being mowed heavily due high amounts of precip and favorable temps.
- -Tees, approaches, collars, selected fairways sprayed with Primo (plant growth regulator) to reduce clippings and mowing frequency.

#### Course Irrigation

- Course irrigated appropriately to maintain current conditions ( aka, not too wet-not too dry)
- Front Nine Irrigation system issues
- \* (2) broken/leaky valves, 2", Seepers (bottom valve replacement), bottom valve testing, Satellite maintenance (electro/hydrolic converters), Broken PVC "T's", Non rotating heads, ½" supply line repairs (2), antenna installed on Satellite #6 due to poor communication with computer/base station, pump house maintenance, Currently zero wildcats.
  - Back Nine Irrigation issues
    - \* Seepers on 10 and 18, Blown up head by firework at #14 Tee on July 4.

#### August 2022 Parks and Rec Operational Report

#### Campground Revenue

July 2022: \$9,102.50

2022- End of July: \$59,160.72

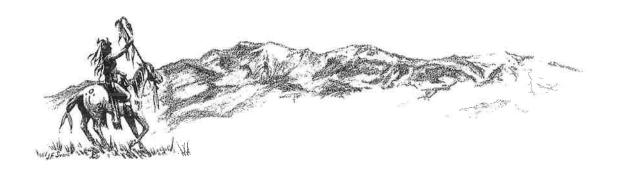
2021- End of July: \$56,323.02

Mowing is consuming a lot of our time with the moisture that we have received this year.

The pool continues to be busy. We have had some issues with a few things. The booster pump quit working but we were able to get it fixed by replacing the starter on the electric motor. We are beginning to get quotes for the upgrades and repairs to the pool. I hope to have all of those figures sometime this month.

We continue to struggle to keep our old truck running. It seems as soon as we fix one issue another arises.

The seasonal crew will start school this week so our mowing operations will slow down but we will do what we can to keep up



## Finance Department: June Operation Report

- Quarterly Reports completed
- Financials: Water Billing issue with the swimming pool using approximately 3.6 million gallons (\$35,000) over a 3-month period. Research and troubleshooting pending on water meter.
- Meetings with Auditors to prep for audit
- Updated HR posters at all locations due to legal update
- Online work order training pending
- Grant meeting with Jim and Alison from Pueblo County regarding ARPA process best practices.
- 2023 Budget Prep Establish Budget Committee, Plan to Engage Department Heads
- Executech bill for \$612.50 from last month was reduced to \$393.75.
- Classes for all employees approximately 89% completed to meet deadline on September
   1.

#### colocitymanager@ghvalley.net

rom:

Ayden Gillund <colocityutil@ghvalley.net>

sent: To: Monday, August 8, 2022 2:08 PM colocitymanager@ghvalley.net

Subject:

Fwd: Operational report

Ayden Gillund
Public Works Director
Colorado City Metropolitan District
719-252-9700
Sent from my Verizon, Samsung Galaxy smartphone
Get Outlook for Android

From: Ayden Gillund <colocityutil@ghvalley.net>

**Sent:** Monday, August 8, 2022, 2:06 PM **To:** util <colocityutil@ghvalley.net>

Subject: Operational report

The month of July was mostly lost to time spent on water emergencies. Utilities repaired water main breaks on Santa Fe Dr., Los Cerritos Dr., Red Cloud Rd., Cuerno Blvd., and Saint Vrain Dr.

Jtilities also reinstalled a portion of a water main to Gilpin St. to include 1 Valve, 1 Fire Hydrant, and the appropriate connections. This was necessary to provide water service to a new tap in the area.

We had 5 new water and sewer taps.

We have ongoing training for the two newest employees. The resulting training will enable us to resume new water meter installs in relation to phase 2 of the water meter project.

Lastly, utilities and the office administrative staff made headway into the issues involving new meter mis-reads and the extensive Dial issue we have been facing for over a year. There are multiple incorrect codes, written into Casselle software, that are being adressed. Currently Neptune and Casselle support are in communication and will be relaying next steps, for us to take, as soon as possible.

Ayden Gillund
Public Works Director
Colorado City Metropolitan District
719-252-9700
Sent from my Verizon, Samsung Galaxy smartphone
Get <u>Outlook</u> for Android



#### Administrators report for 7-12-22 to 8-9-22

- 1. Reviewing communication with Dam inspection and reported back to Mr. Perry continuing to give weekly reports from Greg Bailey. Continuing to meet with Agencies for funding and requirements for grants.
- 2. Work on roof damage at water plant, Golf Course and Sewer plant completed.
- 3. Grants application and Loan documents for CCWD looking at getting information Working to get grants from USDA willing to do 75%
- 4. Working on Feasibility Evaluation for Lake Beckwith which would help in the application of grants.
- 5. Duell Well researched information and testing for the use of the well if useable.
- 6. Working with CDHPE and NOCO engineering for pre-treatment and funding source meeting with revolving fund will pay 100% if PFAS is removed.
- 7. Had follow up meeting with Pueblo County Health community clean up day reviewed how it went and improvements that could be done in the future.
- 8. Constant communication to residents through Facebook and making sure web site is up to date or answer if questions are asked. Seems to be another building boom with Pueblo West putting a moratorium have had double the inquiries for property, CCACC questions, and service access for water/sewer. With the talk of another Tap increase have people wanting to lock in tap prices. Reviewed Rules and Regs for time period that prepay of tap is good for 1 year but need to have building within
- 9. Continued communication with CDPHE with staying in line with compliance issue as well with our engineers to help with issues over the last year, Will continue to give quarterly updates.
- 10. Worked on Resolution for ATV and turned into Carolyn to reviewed added to rules and regs posted resolution on web site.
- 11. Contacting of employees weekly and as needed to resolve issues or offer ideas of solutions of day-to-day operations.
- 12. We have Tank 4 in SCADA program and able to read on computer did have some glitches using recycled equipment to cut costs. Tanks are all staying full and plant running well.
- 13. Have training set up for plant and outside employees for collections or distribution from Dave Diss CRWA.
- 14. Handled illegal dumping from gas station should be completed.
- 15. Had 2 property owner donated property back to District need to take to Pueblo to record.
- 16. Worked on setting up pay outs for ARPA fund and process with the county.

#### colocitymanager@ghvalley.net

From:

Michael Graber <mgraber@rjh-consultants.com>

Sent:

Thursday, August 4, 2022 9:52 AM

To:

colocitymanager@ghvalley.net

Subject:

RE: Backhoe needed to excavate soil test pits on the west side of the lake

Jim-

I just checked with my geotechnical engineer and let's shoot for next Wednesday, August 10, 10:00 AM.

Thanks.

# Michael L. Graber, P.E.

Senior Project Manager RJH Consultants, Inc. 9800 Mt. Pyramid Ct., Suite 330 Englewood, CO, 80112 303-225-4611 ext. 356 Office

719-250-7533 Cell

Check out our new website! www.rjh-consultants.com

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From: colocitymanager@ghvalley.net <colocitymanager@ghvalley.net>

Sent: Thursday, August 04, 2022 9:29 AM

To: Michael Graber < mgraber@rjh-consultants.com>

Subject: RE: Backhoe needed to excavate soil test pits on the west side of the lake

Mike

Wednesday the 10 will work best for us and will have equipment and operator what time you need him there. Will this work for you?

Thanks.

JAMES P. ECCHER
District Manager
Colorado City Metropolitan District
4497 Bent Brothers Blvd PO Box 20229
Colorado City Co 81019
Office (719) 676-3396
Cell (719) 569-5816

From: Michael Graber < mgraber@rjh-consultants.com >

t: Monday, August 1, 2022 11:14 AM

Subject: Backhoe needed to excavate soil test pits on the west side of the lake

Jim-

I have a geotechnical engineer currently working on projects in New Mexico that will be returning to Denver either next Tuesday or Wednesday, Aug. 9 or 10. On his way back to Denver, I would like him to stop and pick up some test pit soil samples from the west side of Lake Beckwith. This location is a potential borrow source for widening and enlarging the dam.

We will need a rubber tired backhoe and operator to excavate up to four different locations and once we have collected the samples, the excavation can be backfilled. A map is attached showing the proposed test pit locations which can be used to obtain utility locates.

l estimate 2-3 hours will be required to excavate the test pits, collect the soil samples for laboratory testing and backfill the excavations. Please advise if CCMD can supply both a backhoe and operator on either Aug. 9 or 10 for excavating the test pits.

Thanks and call me if we need to discuss.

Michael L. Graber, P.E.

Senior Project Manager RJH Consultants, Inc. 9800 Mt. Pyramid Ct., Suite 330 Englewood, CO, 80112 303-225-4611 ext. 356 Office 719-250-7533 Cell

Check out our new website! www.rjh-consultants.com

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#### colocitymanager@ghvalley.net

om:

Ruiz, Allison - RD, State Office <allison.ruiz@usda.gov>

Sent:

Wednesday, August 3, 2022 5:06 PM

To:

colocitymanager@ghvalley.net

Subject:

RE: Automatic reply: [External Email] Map of Boundries for Colorado City

James,

It looks like census tract 28.04 in Pueblo County best encompasses the Colorado City Metro District service territory. According to the 2006-2010 American Community Survey data, the median household income (MHI) for that census tract is \$46,964. As a result, the District would qualify for up to 75% grant and our poverty interest rate. As I mentioned on our call, that in order to receive the poverty interest rate you not only have to meet the MHI requirement, but the proposed project must alleviate a health and sanitary issue.

Currently, our poverty interest rate this quarter is 2%.

Let me know if you would like to schedule a follow-up call to discuss the application process and whether or not you would like to move forward in submitting an application. Our fiscal year ends September 30<sup>th</sup>, so now is a great time to get started on an application as we are set to receive a new years allocation come October 1<sup>st</sup>.

#### LISON RUIZ

Jommunity Programs Loan Specialist | Denver State Office

Rural Development

United States Department of Agriculture

Denver Federal Center Bldg 56, Room 2300

PO Box 25426

Denver, CO 80225-0426

Phone: (720)-544-2920 | Fax: (866)-587-7607

www.rd.usda.gov/co | Follow @RD\_Colorado on Twitter

allison.ruiz@co.usda.gov

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From: colocitymanager@ghvalley.net <colocitymanager@ghvalley.net>

Sent: Tuesday, August 2, 2022 1:03 PM

To: Ruiz, Allison - RD, State Office <allison.ruiz@usda.gov>

Subject: RE: Automatic reply: [External Email] Map of Boundries for Colorado City

on that is the problem we are all spread out the only area without growth is on the east side of I-25 AND SOUTH OF enhorn Road.

JAMES P. ECCHER

District Manager Colorado City Metropolitan District 4497 Bent Brothers Blvd PO Box 20229 Colorado City Co 81019 Office (719) 676-3396 Cell (719) 569-5816

From: Ruiz, Allison - RD, State Office <allison.ruiz@usda.gov>

Sent: Tuesday, August 2, 2022 12:28 PM To: colocitymanager@ghvalley.net

Subject: RE: Automatic reply: [External Email] Map of Boundries for Colorado City

Hi James,

Sorry for the delay in getting back to you. I have requested assistance from one of my colleagues, as I am having trouble pulling the appropriate census tract information for the District.

Can you tell me how much different the CCMD's District boundary map is compared to Colorado City itself?

#### **ALLISON RUIZ**

Community Programs Loan Specialist | Denver State Office Rural Development United States Department of Agriculture Denver Federal Center Bldg 56, Room 2300 PO Box 25426 Denver, CO 80225-0426 Phone: (720)-544-2920 | Fax: (866)-587-7607

www.rd.usda.gov/co | Follow @RD\_Colorado on Twitter allison.ruiz@co.usda.gov

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From: colocitymanager@ghvalley.net <colocitymanager@ghvalley.net>

Sent: Monday, August 1, 2022 8:52 AM

To: Ruiz, Allison - RD, State Office <allison.ruiz@usda.gov>

Subject: RE: Automatic reply: [External Email] Map of Boundries for Colorado City

Good morning Allison,

Just following up with you as to where we stand with our medium income and grant possibilities moving forward for dam re-hab project.

Thanks,

JAMES P. ECCHER
District Manager
Colorado City Metropolitan District

4497 Bent Brothers Blvd PO Box 20229 Colorado City Co 81019 Office (719) 676-3396 Cell (719) 569-5816

From: Ruiz, Allison - RD, State Office <allison.ruiz@usda.gov>

**Sent:** Tuesday, July 19, 2022 3:38 PM **To:** <a href="mailto:colocitymanager@ghvalley.net">colocitymanager@ghvalley.net</a>

Subject: Automatic reply: [External Email] Map of Boundries for Colorado City

Thank you for your message. I will be out of the office until Friday, July 22nd. If you need immediate assistance please contact Chris Laughton @ paul.laughton@usda.gov

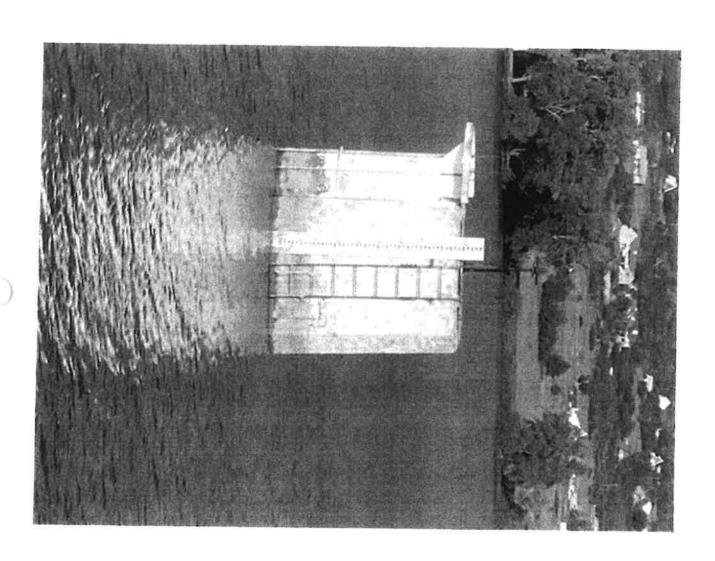
I appreciate your patience. I will respond to all emails Monday.

Allison

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# WEEKLY DAM INSPECTION

		DATE
Y A TEN		7-27-22
LAKE	14.5	
4"	1MIN = . 25 9AL	
au		
6"	1 MIN = .75 9AL	
SEEP	DAMP	
WEIR	0.18	111
PIT	DRY	
	Greg Joby	



# WEEKLY DAM INSPECTION

	PIT	WEIR	SEEP	o,	42	LAKE
Greg	DRy	0.16	DAMP	1 MIN : . 75 9AL	1MIN = 300 ML	1/4.2
						8-4.22

# Rim Rock Heights

Date: 7/26/2022

Mr. Eccher,

Thank you for your time and effort with respect to providing Colorado City Metropolitan District (CCMD) water and sewer to the Rim Rock Heights Subdivision. The boundaries of the subdivision are shown in the attached Exhibit A map.

The Rim Rock Heights Home Owners Association {RRHHOA} proposes a like kind trade of Infrastructure improvement for a 8" Tap on the existing water line from the large capacity water tank located between Colorado City and Rye south of State Highway 165 as well as a sewer tap on the north side of State Highway 165. Please reference Exhibit A map for location.

As you are aware, the (CCMD) has a decreed water referred to as the Higgason Springs located near the end of Terlesa Dr. South of the Green Horn Creek, please reference Exhibit A map for location.

CCMD is not currently making use of the Higgason Springs water right but it is our understanding that at one point in time, a pumped water system existed from Higgason Springs to the Cold Springs Water Treatment Plant location. The Higgason Springs water system has been abandoned and is no longer useable. The loss of this water supply to the Cold Springs Water Treatment Plant results in diminished flow to the plant causing it to operate inefficiently and not at full capacity, resulting in increased treatment costs. If a mutually beneficial agreement can be reached with CCMD, RRHHOA proposes the following:

- 1. RRHHOA will bring the abandoned Higgason Springs water system back into operation with a new electric pump and new water line if necessary from the Higgason Spring to the Cold Springs Treatment Plant at no cost to the CCMD. For bringing the Higgason Springs Water System back into full operation, RRHHOA would receive tie into the existing waterline and sewer along 165 at the location shown on the Exhibit A map and RRHHOA would install an 8" tap and meter at no cost to CCMD.
- 2. RRHHOA will post a bond payable to CCMD insuring quality and completion of the Higgason Springs pump and pipeline water system to the Cold Springs Treatment Plant.
- 3. RRHHOA will install a public fire hydrant located next to the entrance of the property along Highway 165 that will provide a great benefit to the community and has full support of the Rye Fire Protection District.
- 4. Rim Rock Heights Subdivision will be annexed into CCMD.
- 5. CCMD will assume all operational and maintenance costs of the water and sewer system at which time Rim Rock Heights Subdivision is annexed into CCMD.
- 6. RRHHOA water system will be designed to not injure TDH (Total Dynamic Head operating pressure) of the current CCMD system i.e.; RRHHOA will install a lift pump on its system if necessary.

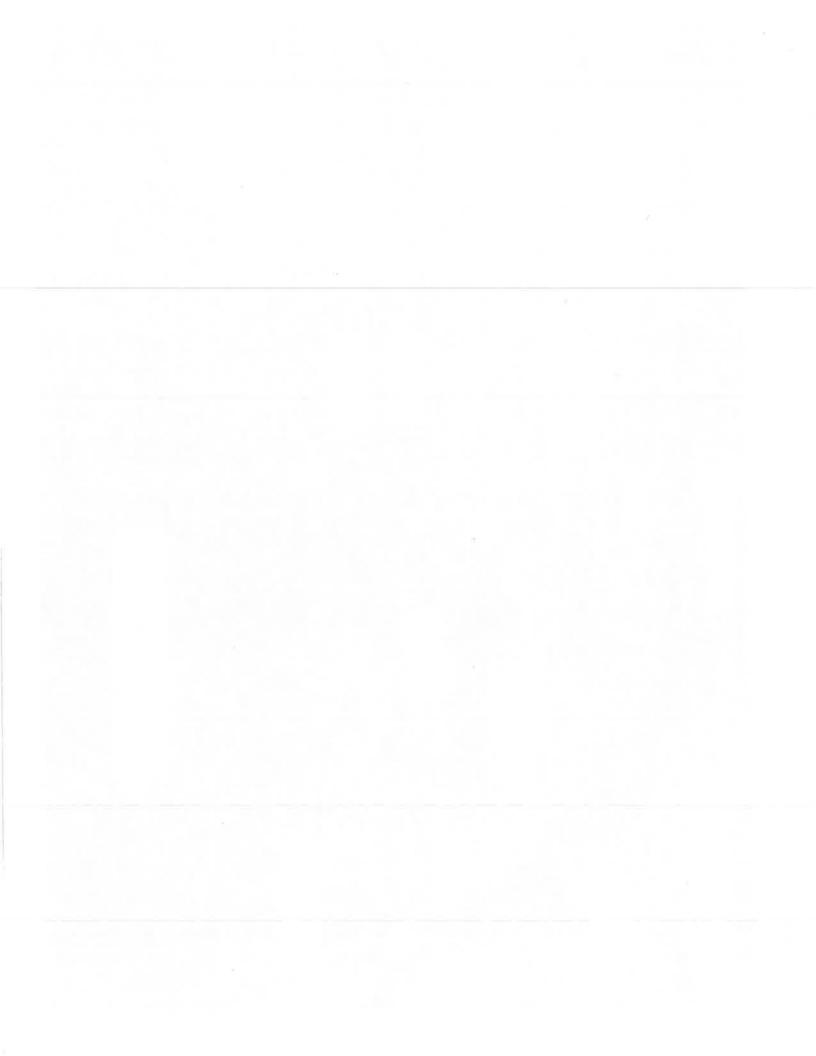
- RRHHOA will obtain all required permits and engineering at no cost to the CCMD.
- 8. CCMD will cooperate and assist RRHHOA with any necessary permits that require their involvement.
- 9. CCMD will provide RRHHOA with a sales Tax-exempt certificate for all materials incorporated into the Higgason Springs Pump and pipe line new water system.
- 10. CCMD will be responsible for all maintenance and operational costs of the new Higgason Springs Pump and pipe line system upon completion of the project.

In closing, this proposal provides a great benefit to the CCMD and the Greenhorn Valley by reviving underutilized water rights resources and provides additional fire protection for the entire Greenhorn Valley at no cost to the Colorado City Metro District.

We look forward to your support and Board Approval.

Baxter W Kirkland

719-307-3700



- **2.38.** Water System: All facilities and processes for diverting, transporting, distributing, storing, pumping, treating, measuring, etc. the water of the District.
- **2.39.** Any Other Term: Not herein defined shall be defined as presented in the "Glossary Water and Sewage Control Engineering," A.P.H.A., A.W.W.A., A.S.C.E., and F.W.S.A., latest editions.

#### **SECTION THREE**

#### 3. OPERATING PRINCIPLES AND LIMITATIONS

- 3.1. Policy: The District is responsible for providing water and sewer services in an economical manner within the District, and providing for the operation, maintenance, repair and replacement of all mains, hydrants, valves, and facilities owned by the District, in accordance with these Rules and Regulations. The right to any use of the District's water or sewage system is only by permission of the District. The District reserves full right to determine all matters related to the control and use of its water and sewage system. The right to use of the District's water and sewer systems shall be subject to suspension or revocation as set forth herein.
- 3.2. Water and Sewer System Construction Costs: Notwithstanding any other provision of these Rules and Regulations to the contrary, all cost of new construction, reconstruction or enlargement of any water or sewer system facilities, including all associated planning, engineering, administration and attorney's fees, which are necessary to provide new, different or additional water or sewer service within the District's service area (including but not limited to service lines, main lines and water or sewage treatment works), shall be paid by the owner (s), or customer (s), of the property or building to be serviced. The District shall not pay for any costs associated in any way with the provision of any new, different, or additional service after the effective date of these revised Rules and Regulations. The provisions of this section apply regardless of whether the District or some other person contracts for, or initially pays for, such construction, reconstruction or enlargement, or such service is requested by the customer, or compelled by the District. The District Board may act other than as required in this section when it determines, in its sole discretion, that such action is necessary to provide for the health, safety and welfare of the inhabitants and visitors of the District.

#### 3.3. Liability:

3.3.1. District Not Liable: No claim for damage shall be made against the District, and the District and its officials and employees shall not be liable by reason of damage resulting from any of the following: breaking of any service or supply line, pipe, cock, or meter by any employee of the District; failure of the water supply; shutting off or turning on water in the water mains; the making of connections or extensions; damage caused by water running or escaping from open or defective faucets; burst service pipes or other facilities not owned by the District; damage to water heaters, boilers, or other appliances resulting from shutting water off, or for turning it on, or from inadequate, sporadic, and excessive pressures; blockage in the system causing the backup of effluent;

damage caused by "smoking" of lines to determine drainage connections to District lines; breakage of main lines by District personnel; interruption of water or sewer service and the conditions resulting there from where said interruption of service is brought about by request of claimant, or by circumstances beyond the District's control; failure of any facilities to be located where the District's map indicates they should be; the shutting off of a sewer lift station and possible backflow resulting there from; failure to obtain access to isolation valve; or for doing anything to the water and sewer system of the District deemed necessary by the Board of Directors or its agents. This paragraph shall not relieve the District from liability for negligence of its employees, if such liability would otherwise have existed; however, the foregoing shall not constitute a waiver by the District of the defense of sovereign immunity or the Colorado Governmental Immunity Act, or any other defenses it may have to an action against the District, its officials or employees, nor a waiver of its insurance coverage. These Rules and Regulations shall not be construed to hold the District in any manner responsible for any damages to persons or property resulting from any inspection as herein authorized or resulting from any failure to so inspect, or resulting from the issuance or denial of any permit as herein provided, or resulting from the institution of court action as allowed by law, or the forbearance by the District to so proceed.

- 3.3.2. Officials Not Liable: Any District official or employee, charged with the enforcement of these Rules and Regulations, acting in good faith and without malice on behalf of the District in the discharge of his/her official duties, shall not thereby render himself/herself personally liable for any damages which may accrue to persons or property resulting from any such act or omission committed in the discharge of such duties. Any suit or proceeding instituted against such official or employee, stemming from any act or omission performed by him/her in the enforcement or attempted enforcement of any provision of these Rules and Regulations, shall be defended, indemnified and held harmless by the District until final termination of the proceedings. This section shall be construed in such a manner as to be consistent with the District's resolution indemnifying such officials and employees.
- **3.3.3.** Nonliability for Work of Others: The District does not assume any liability for any work performed by others. No claim shall be made against the District or any of its officers or employees on account of errors of omission or commission made by the District's licensees.
- **3.3.4.** Indemnity: The owner(s) shall indemnify the District from any loss or damage that may directly or indirectly be occasioned by the installation of the service line and shall obtain any guarantee required by Section 9.10.2.
- **3.3.5.** Construction: This Section 3.3 shall be construed in such a manner as to be consistent with any District resolution then in effect indemnifying such officials and employees.

- 3.4. District Ownership and Maintenance: Except as otherwise provided in these Rules and Regulations, all existing and future water and/or sewer system facilities connected with and forming an integral part of the District's water and sewage system shall become and are the property of the District. The District shall be responsible for maintenance, repair and reconstruction of such property, including water or sewer mains, at its cost, unless the situation necessitating such repair or reconstruction is the result of a change or enlargement of use, abnormal use or damage to such facilities, in which case such repair or reconstruction will be done at the expense of the person responsible for such abnormal use or damage. Said ownership will remain valid regardless of whether such property is constructed, financed, or paid for by other persons or otherwise acquired by the District. No other persons, except those authorized by the District, shall have any right to enter upon, inspect, operate, adjust, change, alter, move or relocate any portion of the District's facilities.
- Ownership and Maintenance of Water and Sewer Service Lines: That portion of 3.5. any water service lines extending from the meter to each building or unit, and the sewer service lines from the main to the building or unit are the property and maintenance responsibility of the customer. That portion of the water service line from the water main to the meter is the property of the District. Leaks, stoppages or breaks in the customer's portions of such service lines shall be repaired by the property owner within a reasonable period of time after discovery or notification of such condition by the District. If satisfactory progress toward repairing the said leak, stoppage or break has not been accomplished within such time period, the District Representative shall shut off the water service until the leaks, stoppage or breaks have been repaired. The District reserves the right to make the repair at the expense of the customer when, in the opinion of the District Representative, such repair is necessary to protect the health, safety and welfare of the inhabitants and visitors of the District. Said ownership shall remain valid whether the service lines are constructed, financed, paid for, or otherwise acquired by the District or by other persons.
- 3.6. Defective Meters: It shall be the duty of all customers to notify the District office immediately if a meter is operating defectively. The District shall be responsible for the maintenance, repair or replacement of all meters, unless the meter is intentionally damaged. If any water service meter shall fail to register in any period because the customer has failed to notify the District, the customer shall be charged the average period consumption during the two preceding periods as shown by the meter when in order.
- **3.7.** Service Outside the District: Service outside the District is available only by contract according to the discretion of the District's Board.
  - 3.7.1. General Provisions:
  - **3.7.2.** No Service Outside Boundaries, Exceptions: The Board in its sole discretion may allow extraterritorial service for residential property owners at a rate of 1.5 times the current District service rates including tap fees and 2.0 times the current service rates for commercial property including tap fees.
  - **3.7.3.** Public Hearing: The District shall not extend District water or sewer service beyond existing boundaries of the District except in cases where the Board, by

Resolution determines it is in the best interests of the District to extend water and sewer service outside existing boundaries of the District.

- **3.8.** Water Service Policy: All existing or future customers who receive water or sewer service from the District are required to convey and dedicate all tributary, nontributary, not nontributary, or Arkansas River Basin water rights and groundwater rights, underlying their property within the District, or the consent to withdraw and use such water, to the District as a condition of receiving such service.
- 3.9. Ownership and Right to the Use of Water: The District retains all property rights associated with any water provided to customers and buildings, including the right to reuse, make a successions of uses, or to use such water to the point of its complete or absolute consumption.
- 3.10. No Resale of Colorado City Water is Permitted: Water supplied by the District is, under no circumstances to be permitted for resale. This includes all bulk water sales.

#### SECTION FOUR

# 4. USE OF PUBLIC WATER AND SEWER SYSTEMS REQUIRED

- **4.1.** Unlawful to Deposit Waste in Unsanitary Manner: It is unlawful for any person to place, deposit or permit to be deposited in any unsanitary manner on public or private property within the District, any human excrement, garbage, or other objectionable waste.
- 4.2. Sewage Must be Treated: It is unlawful to discharge to any natural outlet or surface or subsurface system within the District, any sewage or other polluted waters, except when suitable treatment has been provided for in accordance with these Rules and Regulations.
- 4.3. Sumps and Water Wells Prohibited: Unless otherwise approved by the Board, after the effective date of these revised rules the construction of any water well or sump within the District is prohibited. Upon connection of premises to the District's public water and sewer system, the owner shall dedicate and convey any existing water rights and related structures appurtenant to the subject property to the District at no cost.
- 4.4. Use of District Water and Sewer Systems Required: No water system or sewage disposal system shall be constructed within the District, unless such system is connected with the District's sewer or water systems, unless otherwise specifically authorized by the Board. The owner(s) of any parcel of land within the boundaries of the District which is subdivided subsequent to the effective date hereof, shall make application to the District for extension of its water and sewer facilities to serve said subdivision. The District shall require said owner(s) to construct or pay for the construction of the extension or enlargement of all facilities necessary to serve said subdivision. If the District elects to extend such service, the District and the property owner(s) shall enter into a service agreement therefore.
- **4.5. District's Power to Compel Connection:** Unless otherwise agreed to by the Board, the owner(s) of all buildings, businesses or other premises situated within the District where a water supply shall be used or domestic or industrial wastes or sewage are generated, stored, or treated shall be required at the owner(s) expense to install

22

suitable water and sewer facilities therein and to make application for and to connect such facilities directly with the District's public water and sewer system for the protection of the health, safety and welfare of the inhabitants and visitors of the District in accordance with the provisions of these Rules and Regulations, within 20 days after written notice is sent by registered mail to do so, provided that the public water or sewer main is within 400 feet of the owner's property line. If such connection is not commenced within such period and completed with reasonable diligence by the owner, the District may thereupon make such connection, and the owner shall be liable for all expenses incurred by the District for the completion of the connection, including any unpaid tap fees. The District shall also have a first and prior lien on the premises for such costs and fees, and such lien shall be enforceable in accordance with the provisions of §32-1-1006(l)(a), C.R.S. If an owner's service line must cross another person's property in order to connect to the District's water or sewer system at the point designated by the District, and the owner is unable to obtain the easements required for such service line, the District may in its discretion initiate proceedings to acquire such easements. All costs incurred by the District in the prosecution of such proceedings, including without limitation, the amount determined to be payable as just compensation, attorney and legal fees, engineering and survey fees, appraisal fees and expert witness fees, shall be paid by the owner of the premises to be connected. The amount required to be deposited with the court in order for the District to obtain possession of the property included within the easement(s) shall be paid at that time by the owner of the premises to be connected. The District shall have a first and prior lien on the premises to be connected and the land on which they are located for all such costs, and such lien shall be enforceable in accordance with the provisions of §32-1-1006(1)(a), C.R.S.

- **1.6.** Temporary Variance for Use of Cisterns/ Septic Systems: A property owner within the District may submit an application for a temporary variance to the Rule stating that every water system or sewage disposal system constructed within the District must be connected with the District's water or sewer systems, in order to allow for construction of a water cistern and/or on-site wastewater disposal system ("Septic System"). The request shall be in writing on the form provided by the District and shall include the requirements set forth below:
  - 1) Proof that the property is located within the boundaries of the District.
  - 2) Proof that the outside boundary of the property is more than 400 feet (as the crow flies) from the nearest District water main (in the case of a cistern request) and / or sewer main (in the case of a Septic System request).
  - 3) Proof that the property owner is fee title owner of the property.
  - 4) Plans for proposed development of the property and all adjacent property owned by the same or a related entity and estimated water use. (Commercial uses or uses greater than 1 EQR will generally be required to extend the main and not permitted a cistern variance).
  - 5) Plans for the cistern, which must comply with all state and local regulations.
  - 6) Plans for a Septic System, which must comply with all state and local regulations, or connection to the District's sewer system.

- 7) Proof that the requirement to connect to the District's water and/or sewer system would cause hardship, or should not be applied to the applicant for another justifiable reason.
- 8) Proof that the variance shall not endanger the health, safety and welfare of the residents and inhabitants of the District.
- 9) Payment of the Cistern *I* Septic Application Fee, in the amount set by the Board from time to time, which shall be non-refundable and due regardless of whether the application is approved.

The Board may approve, conditionally approve or deny a temporary variance to allow construction of a cistern and/or Septic System. The Board's decision shall be final and conclusive. The Board may consider whether District water and/or sewer facilities are available or will be available in the future to serve the development or construction proposed, the expected future demand for water and/or sewer use for the property and other property in the vicinity (including whether District main extension would better serve the residents of the District), and other factors related to the request to provide the variance. It is the District's policy to require main extensions by the property owner where several EQRs of water use are located in the same vicinity, rather than allowing for multiple variances in the same vicinity. The Board's approval will expire if the approved cistern and/or Septic System is not constructed within three years of the Board's approval of the variance. Otherwise, any approved, temporary variance for a cistern and/or Septic System shall continue until one of the below-described circumstances occurs:

- **A.** Owner obtains a building permit to expand or enlarge the square footage of the building or to build any new human-occupied buildings on the property.
- **B.** The septic tank and leach field system on the property or cistern fails for any reason, including failure to comply with County regulations.
- C. The District determines that a change in circumstances allows the owner to connect to the District's water or sewer main, which may require payment of a portion of the cost of extending the water or sewer main.

Any party granted a temporary variance from connection will be required, as a condition of receiving the variance, to enter into an agreement with the District setting forth the terms and conditions for the variance, in form acceptable to the District. Said written agreement shall be recorded with the Pueblo County Clerk and Recorder's office so that future owners of said property shall be made aware of said agreement. The variance agreement will include terms regarding the use of bulk water for the cistern and an agreement that if and when the District water and/or sewer main lines are extended to 400 feet or less from the boundaries of the property, the property owner shall connect to the District's water and/or sewer system and pay all costs associated therewith including tap fees, and decommission the cistern and/or on-site wastewater disposal system.

Property owner shall be solely responsible for ownership, operation and maintenance of the cistern and/or on-site wastewater disposal system. The District shall have no liability associated therewith.

#### **SECTION FIVE**

#### 5. <u>APPLICATION FOR SERVICE</u>

- 5.1. Policy: Service shall be furnished subject to these Rules and Regulations and taxation, unless otherwise agreed to by the Board in its sole discretion. It shall be incumbent upon an applicant for service to furnish satisfactory evidence of inclusion whenever such evidence is requested by the District. Any property included within the District or to be provided service must provide to the District all finances, facilities and service required by such property, and must pay for the use of all existing and future improvements, facilities, water and sewer rights and system. Any person or entity seeking inclusion or development of property within the District shall comply with the terms of this section, and may be required to enter into a Tap Purchase Agreement.
- Sufficient Water Rights and Facilities Required: No new property shall be 5.2. included, unless the owner and developer of said property or subdivision shall comply with the Water Service Policy (Section 3.8) and shall also furnish sufficient additional adjudicated water rights and associated facilities to the District in an amount and of a quality adequate, in the judgment of the District's Board, to serve said property or subdivision; or, at the discretion of the Board, monetary compensation adequate, in the judgment of the Board, to purchase or compensate for sufficient additional water rights and water facilities to provide such service. The owners of said property shall convey these rights or monies to the District free and clear of all liens and encumbrances prior to inclusion of the property into the District or furnishing of service to the property, whichever the case may be. The matters of sufficiency of water rights to serve the subject property and/or monetary compensation shall be determined by the District's Board after taking into consideration the recommendations of the District's attorneys and engineering consultants. In no event shall the District be obligated to reimburse the applicant for funds expended by the applicant for any such water rights and water facilities.
- **Application for Service:** A proposed customer seeking service within the District, shall, as provided for in Section 9.4, submit an Application for Water and Sewer Tap Permit on the District's standard form, accompanied by the appropriate tap fee from the Fee Schedule attached hereto and designated Appendix A to the District for the District Board's consideration.
- **Connection Permit:** A proposed customer seeking service within the District, shall, as provided for in Section 9.7, make separate application for a connection permit, accompanied by the applicable fees, prior to connection to the District's lines. No work on a proposed connection shall commence prior to payment of all fees and the issuance of a connection permit. Payment of a tap fee and issuance of a tap permit does not constitute a connection permit.
  - **5.4.1.** Construction Services: After the connection permit is issued and the system development charges, tap fees, and other applicable fees have been paid, the customer shall be responsible for all construction services associated with the water and sewer connections. An approved, licensed contractor in accordance

with specifications and standards established by the District and Pueblo County shall perform the construction services. SEWER: The customer's contractor shall install the sewer tap and service line from the sewer main to the property line and shall not backfill until after the District has approved the installation. WATER: The customer's contractor shall fully expose the existing water line so the District can install the water tap. The customer's contractor shall install the service line from the district's installed water tap to the property line and shall not backfill until after the District has approved the installation. The District shall furnish the following items to the contractor: (Tap saddle, corporation stop, meter pit, bull yoke and support, meter, check valve and PRV if needed). **Notice to Colorado City Metropolitan District:** The contractor shall provide Colorado City Metropolitan District 72 hours written notice prior to the installation of a new water or sewer tap.

- 5.5. Limitations of Service Permits and Connection Permits: The service and connection permits issued to an applicant are applicable only to the real property and buildings or portion thereof specified on the permit, and all rights under the permit shall be deemed to be automatically conveyed with title to such property. The permit shall not be transferable for use on other property or for use on other buildings on this same property; except that transfer to the permit may be approved upon written application, by the District in its sole discretion upon payment of a proper transfer fee and a determination that such transfer will not impair the health, safety and welfare of the residents and visitors of the District. Each connection or tap permit shall allow only one service line connection.
- 5.6. Main Line Extension Permits: A proposed customer seeking service requiring the construction or extension of a water or sewer main line shall, as provided for in Section 9.8, submit a separate application for a main line extension permit, accompanied by the appropriate fees, prior to any construction of the main line or any service lines to be connected thereto. Payment of a tap fee and issuance of a service permit and issuance of a connection permit does not constitute a main line extension permit. No work on a proposed extension shall commence prior to payment of all fees and the issuance of a main line extension permit.
- **Solution Road Cuts:** Issuance of a connection permit or any other District permit does not authorize the holder thereof to make any cut in a public road or street or to do anything for which separate permission is required of another governmental entity.
- **Permits Subject to Rules and Regulations:** Each service and connection permit and inclusion or other agreement issued or entered into by the District shall be subject to each of the provisions of these Rules and Regulations as amended from time to time and shall be subject to each of the conditions and limitations set forth herein.
- 5.9. Denial of Application for Service: The District's Board retains, in the Board's sole discretion and judgment at a public meeting, the right to deny any application for a service permit, temporary, irrigation, or otherwise, when the granting of the application would not be in the best interests of the District or its residents and property owners. The factors that the District's Board may consider, by way of illustration and not by way of limitation, include: whether sufficient water rights and

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water facilities are available and will be available in the future to serve the development or construction proposed for the development or construction proposed for the property, the impact of the proposed service treatment, transmission, and storage facilities, the economic effect that the approval of the application would have on the District and its residents and property owners, and other factors related to the request to provide such service. There may be factors and aspects of an application which are unique to that application and are not recited above, and the District's Board retains the right to consider all factors related to an application and make a decision based thereon.

- **5.9.1.** Bulk Water Sales: The District makes sale of bulk water available through a stand pipe(s) located with-in the District Boundaries. The District may, at its discretion, at any time elect to modify, ration or cease the sale of bulk water. See Schedule of Fees and Charges attached hereto as Appendix A.
- 5.9.2. Bulk Water for Cisterns: Property owners who have received a temporary variance under Rule 4.6, allowing installation of a cistern, may purchase bulk water from the District, subject to availability and payment of applicable fees. The District makes no representations regarding the timing or quantity of bulk water which may be available. Landowner is responsible for hauling any water purchased from the District. The District shall have no liability for water quality after sale at the bulk water station.
- **Solution of Permits and Refund of Fees:** The District reserves the right, in its sole discretion, for cost-related, lack of capacity, or other reasons, to cancel any permit, including tap, connection, or main line extension permits, at any time prior to connection to the District's water or sewer system and, refund fees
  - **5.10.1.** Additional considerations for issuance of water taps on a first come, first served basis. Issuance of water taps after the date of May 31st, 2005 as adopted by resolution 04-2005 shall be subject to water availability and shall be issued on a first come, first served basis. No tap shall be issued without an applicant's establishing to the satisfaction of The District administration that construction of a residential or commercial building will commence within 1 year following the date of application or that the water will be put to a beneficial use in some other capacity within such 1 year period. The decision to issue a tap based on the representations of an applicant regarding the use of water shall in all instances be left to the sound discretion of The District administration. A decision to deny a tap may be appealed to the District Board by providing written notice not fewer than 10 days preceding any regular meeting of the District Board. The District Board decision shall be final.
- 5.11. Inclusion: A person or entity owning or having an interest in land outside of the boundaries of the District desiring service shall include in the petition for inclusion all of the land in which applicant is the owner or has a beneficial interest in that it is contiguous to the parcel upon which service is desired within the District, unless the District allows otherwise. The District's policy concerning inclusions into the District is that any property brought into the District must provide to the District all finances, facilities and service required for such property, and must pay for the use of all

existing and future improvements, facilities, water and sewer rights and systems. The property must come complete with sufficient water rights and water facilities which are, in the judgment of the District, adequate to serve the anticipated development of the property, or provide funds adequate to purchase or compensate for such rights; all water and sewer facilities to be constructed by the District in order to serve the property must be financed solely by the developer and owner of the property, and payment of tap fees and any other necessary charges shall be made for the use of existing District facilities and rights. The District will not require its existing residents to subsidize the development of any newly included property.

- **5.11.1.** <u>Inclusion Petition</u>: Ten copies of the inclusion petition shall be submitted, together with a petition fee in the amount of an initial deposit of \$10,000.00 which shall be credited towards the costs of inclusion to be paid hereunder. The inclusion petition shall contain the following information:
  - a. Legal description of the property to be included, setting forth the total acreage, together with proof of title.
  - **b.** A survey of the property, with plan view of a scale on one inch equaling 200 feet, showing its location with respect to the District's existing boundaries.
  - c. The existing zoning for the property together with any proposed changes.
  - **d.** A description of the proposed uses of the property, including: The proposed total population for the property, including a breakdown into types of uses such as single family residences, condominiums, commercial development, recreational uses, etc.
    - 1. The proposed maximum population density for each area of the property, including the number of acres to be used for various types of uses, together with an indication of lot sizes, irrigated acreage, and water and sewer requirements, and any limitations proposed on water usage.
    - 2. The number of acres to be dedicated to open space, green belts, and parks and the anticipated location of each such area, a description of the proposed ground cover and the irrigation water requirements for each such area.
    - 3. Detailed engineering plans on how the developer or proposed customer proposes that water and sewer service be-provided, including cost estimates of all facilities.
    - **4.** Any other pertinent facts that will assist the District in considering the request for inclusion.
  - e. The proposed development schedule.
  - f. A complete description of all water rights associated with or acquired for the property, including proof of ownership, copies of all court decrees and well permits, etc.

- **g.** Upon request by the District, a full financial statement and balance sheet of the owner, developer or proposed customer, and an ownership and encumbrance report for the property.
- **5.11.2.** Petition Evaluation Reimbursement: The petitioner for inclusion shall be responsible to the District for all costs, including engineering and attorney and legal fees and expenses, incurred on behalf of the District in evaluating the petition, together with 100% of any amounts paid by the District to any other governmental entity which is required to review the proposal. The District may require additional deposits over and above that required by Section 5.11.1 if the amount will exceed the original deposit. These costs shall be assessed regardless of whether a petition for inclusion of the property into the District is finally granted.
- 5.11.3. Hearing on Petition for Inclusion: The District's Board of Directors shall conduct a hearing as provided by the Colorado statutes on whether the petition for inclusion should be granted or denied, in whole or in part. The District's Board shall decide, in its sole discretion and judgment, whether the granting of the petition is in the best interests of the District's existing residents and property owners. The District's Board shall withhold entry of any final order approving inclusion until the developer or proposed customer have entered into an agreement which details the terms and conditions of inclusion and provides for payment of all fees and costs and sufficient security therefore. The District Board's action granting or denying the petition for inclusion shall be final and conclusive.

#### **SECTION SIX**

# 6. SERVICE LINE CONSTRUCTION AND CONNECTION

- **Required Permits and Fees:** No service line shall be constructed within the District nor connected to the District's water or sewer system until a connection permit has been issued by the District as provided in Section 9.7.
- **Separate Service Lines:** A separate and independent service line shall be provided for every building, except out buildings, and except as otherwise provided herein, shall be installed at the expense of the property owner.
  - **6.2.1** Commercial Structures: Each commercial structure hereafter constructed shall have an individual service line and connection for each commercial unit in the commercial structure or if not divided into units then it shall have a separate service line and connection for each building.
  - **6.2.2 Interior Lots:** A single service line may be allowed where one building stands at the rear of another on an interior lot and no separate service line is available or can be constructed to the rear building through an adjoining alley, court, yard, or driveway. The service line from the front building may be extended to the rear building and the whole considered as one service line, but the District does not assume any obligation or responsibility for damage caused by or resulting from any such single connection. The owner of the interior lot

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is responsible for obtaining the necessary permission or easement in order to connect to the service line located on the exterior lot.

- 6.3. Inspection: The applicant for the water or sewer service line connection permit shall notify the District when the service line is ready for inspection and connection to the public system. The connection and testing shall be made under the supervision of the District Representative. The entire length of the trench containing the service line, from the building to the public system, or a main line extension shall not be backfilled until inspection has been made by the District Representative; however, the owner will continue to be responsible for any costs, expenses or damages resulting from improper connection or construction.
- **Design and Construction Specifications:** Service lines shall be installed in accordance with the specifications set forth in Appendix B attached hereto and incorporated herein by this reference. All contractors, licensed plumbers and others doing work within the District shall comply with these requirements.
- **Contractor Qualifications:** All contractors and subcontractors shall be approved by the District Representative prior to commencing work on any water or sewer facilities, mainlines, or service lines within the District. Connections shall be made by bonded, licensed plumbers, but plumbing contracted by a licensed master plumber may be performed through Journeymen plumbers or apprentices under his/her direction. The District assumes no responsibility for work performed by general or subcontractors or their agents.

#### **SECTION SEVEN**

### 7. CONSTRUCTION OF MAIN LINE EXTENSIONS

- 7.1. Required Permits and Fees: No main line shall be constructed within the District until a Main Extension Agreement has been issued by the District as provided by Section 9.8.
- 7.2. Design and Construction Specifications: All line extensions, including fire hydrants, the next desirable fittings, and any special structures required to insure proper operation of the line extension shall be designed and constructed according to the District Manager's or Superintendent's specifications, and under the District's supervision. The plans and specifications shall be approved by the District prior to execution of the Main Extension Agreement. Said specifications shall comply with the District's construction specifications, unless provided otherwise. Prior to the District's acceptance of the lines, reproducible as-built drawings shall be provided, or reasonable provision made therefore.
- 1.3. Location of Main Extensions and Additions, and Service Line Stub-Out Installation: Water or sewer mains shall be installed in roads or streets which the District the County, the State Highway Department or other public agency has accepted for maintenance as a public right-of-way, or in easements granted for the use of the District. Where water and sewer mains cannot be installed in a street, private drive or common area, and must be installed in easements between adjacent pieces of property, the lines will terminate at the point determined by the District. All lateral

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lines and service line stub-outs shall be installed to the property line at the time of construction of the main. All such main lines, laterals and stub-outs shall be constructed prior to paving.

- 7.4. Procedure for Main Extension Construction: If applicant has agreed to the engineering layout or design for the work, he shall enter into a Main Extension Agreement with the District, covering standard regulations and specifications for line extensions and shall:
  - **a.** Obtain bids directly from contractors for their work and furnish the District with a performance bond guaranteeing the performance of the work, holding the District harmless for the payment to the contractor, and provide two years maintenance bond. All such bids and contracts are subject to the approval of the District.
  - **b.** All daily inspection fees on main construction required by the County, State Highway Department or local governments shall be paid by the plumber, contractor or others doing work in the District.
  - c. The constructor shall be responsible for "over sizing" main extensions as required by the District. Any such over sizing required of the constructor shall be paid by the constructor,
  - d. Prior to construction of a main line extension by the District, the proposed customer shall plat and grant to the District appropriate easements and rights-of-way necessary to cross-land not being subdivided or under the proposed customer's control in which to construct the same. All easements shall be recorded in the Pueblo County Clerk and Recorder's office at the proposed customer's expense prior to construction. Applicants who have completed construction of mains shall, before these mains are accepted by the District for taps, deed these lines, associated easements and all appurtenances to the District, free and clear of all liens and encumbrances; provide "as built" drawings of the mains, or make reasonable provision for such drawings, and furnish a bond to cover all maintenance for one year from the date of acceptance of the lines by the District.
- 7.5. Statement of Costs Required: Upon completion of the construction of any main extension and connection to the District facilities, the person to whom the permit was issued for such work shall render to the District a sworn statement of all costs of construction thereof, including engineering cost, inspection cost, and incidentals, verified by the receipted bill or statements of all contractors or engineers engaged in the construction of such extensions. In the event such sworn statement is not rendered to the District within thirty (30) days after completion of the extension, the District may permit and allow other property owners to connect with such extension without payment to the party constructing such extension.
- 7.6. Connections to Main Extensions; Fees: At the time of connection, the District shall collect an equitable fee for connection to any main extension to serve property not previously charged for the cost of such extension serving such property: provided, such fee shall not exceed the proportionate share of the cost of such extension, but in no event shall such fee be less than two dollars (\$2.00) per front foot of the property

to be served. Such fee shall be refunded to the person to whom the main extension permit was issued, his heirs, successors or assigns. Such fee shall be in addition to all other permit fees and/or charges. No permit for connection to such extension shall be issued until such fee is paid in full. This provision for collection of fees and refunds shall remain in effect for a period of ten (10) years from the date of the verified statement as set forth in 7.5 above.

7.7. <u>Inspection</u>: During construction or extension of main lines, the District's Representative shall be notified, prior to back filling, when the main line is ready for inspection and approval. Inspection of construction of main line extensions shall be

governed by the provisions of Section 6.3.

Ownership: All new water and sewer mains shall become the sole and absolute 7.8. property of Colorado City Metropolitan District. No "private mains are allowed. Extensions to previously unserved property shall be paid for 100% by the parties so benefited. The parties paying for the initial installation shall be entitled to no future reimbursement from the Colorado City Metropolitan District, future developers, or others requesting taps from the subject line. The initial installers shall acknowledge that future developers shall connect and extend with no reimbursement to the initial installer. No separate connection fee is assessed to the initial installer to pay for a portion of the existing water main where the new connection is made, and hence no such fee shall be assessed to subsequent developers. The initial installer shall recoup utility installation costs form future lot sales, enhanced property value, or merely the value of the availability of "District Water" and "District Sewer". The initial installer, when choosing to make the investment of District utility extension, must weigh the benefits of "District Utilities against the costs of the extension and assume the full risk of a future party connecting to the new lime at far less cost than borne by the initial installer.

EXAMPLE: Person AA pays for the extension of a waterline which runs past property owned by Person AB. Person AB does not wish to help pay for any of the new waterline. Person AA proceeds with the waterline installation anyway. Person AB can then tap the new waterline with no reimbursement

# SECTION EIGHT

# 8. USE OF PUBLIC SEWER SYSTEM

**8.1. Policy:** Except as hereinafter provided, no person shall discharge, or cause to be discharged, to any sewer main, any special or prohibited sewage (as hereinafter defined) or any harmful or deleterious waters or wastes, whether liquid, solid, or gas, capable of causing obstruction to the flow in sewer, damage or hazard to structures, equipment and personnel of the sewage works, or other interference with the proper operation of the sewage works.

**8.2.** Classification of Sewage: This section of the Rules and Regulations shall provide the basic policies of the District for classification of sewage and for control of discharge of sewage into the sanitary sewer system. It shall be the policy of the District to

classify sewage into three main categories termed "normal sewage," "special sewage," "prohibited sewage," as hereafter defined. The classification of sewage shall be the responsibility of the Manager and shall follow recommended procedures of the State Department of Health and, subject to approval of the Board, shall be final and binding.

- **8.2.1.** Normal Sewage: Normal sewage shall mean sewage which can be treated at the District's sewage treatment works without pre-treatment and within normal operating procedures, and which, when analyzed, shows by weight a daily average of not more than 300 parts per million of suspended solids and not more than 250 parts per million B.O.D.
- **8.2.2.** Special Sewage: Special sewage shall mean any sewage which does not conform to the definition for normal sewage, but which can be treated by the District after pre-treatment by the customer or by utilization of special operating procedures by the District at the sewage treatment works.
- **8.2.3. Prohibited Sewage:** Prohibited sewage shall mean any sewage which may be reasonably anticipated to have a deleterious effect upon the sanitary sewage system, or any persons or property and therefore, in the opinion of the District, cannot be serviced by the District. No person(s) shall discharge or cause to be discharged any of the following described water or wastes to any public sewers:
  - **a.** Any gasoline, benzene, naphtha, fuel oil, or other flammable or explosive liquid, solid or gas.
  - **b.** Any waters containing toxic or poisonous solids, liquids, or gases in sufficient quantity, either singly or by interaction with other wastes, to contaminate the sludge of any municipal system, to injure or interfere with any sewage treatment process, constitute a hazard to humans or animals, create a public nuisance, or create any hazard in or have an adverse effect on the waters receiving any discharge from the treatment works.
  - **c.** Any waters or wastes having a pH lower than 5. 5, or having any other corrosive property capable of causing damage or hazard to structures, equipment, and personnel of the sewage treatment works.
  - **d.** Solid or viscous substances in quantities or of such size capable of causing obstruction to the flow in sewers or other deleterious effects on the sewer system and interference with the proper operation of the wastewater facilities such as, but not limited to, ungrounded garbage, and ashes, cinders, sand, mud, straw, shavings, metal, *glass*, rags, feathers, tar, plastics, wood, whole blood, paunch manure, hair and fleshing, entrails and paper dishes, cups, milk containers, etc., either whole or ground by garbage grinders.
- **8.3. Special Sewage:** The admission into the public sewers of any special sewage shall be subject to the review and approval of the Board, which may prescribe limits on the strength and character of such sewage.
  - **8.3.1. Pre-treatment:** Where necessary, in the opinion of the Board, the owner shall provide, at his expense, such pre-treatment facilities as may be necessary to

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