

April 14, 2022

Craig Dossey El Paso County - Planning and Community Development Department 2880 International Circle, Suite 110 Colorado Springs, CO 80910

Dear Mr. Dossey:

RE: 5-Lot Development for Collin Brones at 6665 Walker Road El Paso County Parcel #5100000421 Finding of Sufficient Water Quality According to Section 8.4.7.B.10)(a) of the Amended El Paso County Land Development Code (LDC-19-007)

FINDING OF SUFFICIENT WATER QUALITY

Mr. Paul Smith and Mr. Collin Brones own approximately 40 acres on the abovedescribed property, located at 6665 Walker Road, Colorado Springs, CO, 80908 (EPC Receipt No.: 5100000421). The Brones' wish to subdivide the 40 acres into five (5) lots through the El Paso County Land Development and Planning process. As part of the subdivision process the Brones' have prepared a Water Resources report tosupport sufficient water quantity over a 300-year evaluation period. The waterresources report supported sufficient quantity but no sufficient quality according toSection 8.4.7.B.10)(a) of the Amended El Paso County Land Development Code. TheBrones' subsequently reached out to JDS-Hydro, a Division of RESPEC to completewater quality sufficiency sampling and analysis according to the aforementioned section of the Code, and provide an engineering opinion of the analysis.



5540 Tech Center Drive Suite 100 Colorado Springs, CO 80919 719.227.0072



respec.com

Section 8.4.7.B.10)(a) in the Amended El Paso County Land Development Code (EPC-LDC) requires that the applicant obtain analyses results for twenty-one (21) Volatile Organic Chemical (VOC) Contaminants, twenty-nine (29) Synthetic Organic Chemical Contaminants (SOC), fourteen (14) Inorganic Chemicals, ten (10) Secondary Maximum Contaminants, indicators of bacteriological pahotgens (i.e. E.coli), inorganic anions, and two (2) radionuclides. According to Case No. 21CW3119, which was included in the Water Resources Report, the proposed five (5) lot subdivision will be supplied with water from the underlying not-nontributary Dawson formation, which is considered a confined Denver Basin Aquifer. Therefore, according to paragraph two (2) from



Craig Dossey – EPC Planning and Development // 2 April 13, 2022



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Section 8.4.7.B.10)(a) VOC's and SOC's are not required as part of the stipulated chemical analysis.



On March 16, 2022. Representatives with JDS-Hydro sampled the existing Dawson Well located on the existing property at 6665 Walker Road. The representative Dawson Well was permitted under Permit No. 130940 to a James M. Brown, and subsequently underwent a change of ownership to Paul Smith and Collin Brones on June 1, 2021. Well samples were taken on the 16th and overnighted to Colorado Analytical Laboratories to meet specified holding times for certain constituents. Results from all chemical analyses were received by JDS-Hydro via email on April 12, 2022. Results were tabulated and compared vs. primary and secondary Maximum Contaminant Limits as established by the Colorado Department of Health and Environment's (CDPHE) latest drinking water standards. From the evaluation, none of the constituents were found to exceed any established primary or secondary drinking water standards. Please see tabulated results and associated analytical results from Colorado Analytical Laboratories in the enclosure.

After reviewing the analytical results JDS-Hydro does not find any cause for concern in utilizing the underlying Dawson Aquifer for public consumption or irrigation uses within the proposed subdivision. JDS-Hydro also does not see any reason to recommend any additional treatment within the proposed residences to bring the source water into compliance with established Colorado Drinking Water Standards.

Should the El Paso County Planning and Development Department have any additional comments, questions, or concerns please do not hesitate to contact Douglas E. Schwenke, P.E. with JDS-Hydro a Division of RESPEC at 719-227-0072 Ext. 102 or at dschwenke@jdshydro.com.

Sincerely, Douglas E. Schwenke SSIONAL Principal Engineer

DES

Enclosure: DWR Permit No. 130940

Tabulated Water Quality Sufficiency Results from March 16, 2022 Sample Trip to 6665 Walker Road Analytical Results from Colorado Analytical, Task No.: 220316024 - Total Coliform and E.coli Analytical Results from Colorado Analytical, Task No.: 220316024 - Langoliers and Chemical Constituents Analytical Report from Haxen, Task No.: 220316024 - Radiologicals

cc: Project Central File: W0273.21001.001 - Category: External Letter

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F N	COLORADO DI	VISION OF WATER RESOURCES	For Office Use Only
Form No.	DEPARTME	NT OF NATURAL RESOURCES	
GWS-11	1313 Sherma	n St., Ste 821, Denver, CO 80203	
00/2016		Main: 303.866.3581	RECEIVED
	dwrp	ermitsonline@state.co.us	
	CHANGE IN OWNER I	NAME/MAILING ADDRESS	5/27/2021
PRIOR TO QU	COMPLETING THIS FORM, SEE INST ALITY, OR ILLEGIBLE FORMS CANN	RUCTIONS ON REVERSE SIDE INCOMPLETE, POOR OT BE PROCESSED AND WILL BE RETURNED	WATER RESOURCES STATE ENGINEER
Name, addre	ess and phone number of person claimin	g ownership of the well permit;	
Name(s):	PAUL A. SMITH AND COLLIN G. BR	ONES	
Mailing Addr	ess: 6665 WALKER RD.		
City, St, Zip:	Colorado Springs, CO 80908		
Phone: <u>(719)</u>	660-3351 Email:	drmorgul@yahoo.com	
Well Permit	Number:130940 Reco	eipt Number:0234566 Case Number(optiona	i): N/A
WELL LOCA	TION: County:El Paso	Well Name or # (optional):N/A	
6665 WALK	ER ROAD, COLORADO SPRINGS, CO	80908	
Street Addre	ss at Well Location	······································	
Check i	f well address is same as owner's mailin	g address	
NW-NE 1/4 of	the SE-SW ¼, Sec.18 , Township 11	N. or X S. Range 65 E. or X W., 6TH	P.M.
Distance from	n Section Lines:1980	_Ft. From N. or X S. Line, <u>1620</u> Ft.	From 🔀 E. or 🗌 W. Line.
Subdivision I	Name (if applicable): N/A	, Lot N/A, Block N/A, Filing/Unit	N/A
NOTE: If cha	inging/correcting the permitted location of	of a well, use Form No. GWS-42	******
I (we) claim a and state the	and say that I am (we are) the owner(s) at they are true to my (our) knowledge. T	of the well permit described above, know the contents of the his filing is made pursuant to C.R.S. 37-90-143.	statements made herein,
S	ignature(s) of the new owner	Please print the Signer's Name & title	Date May 27, 2021
	THE		May 21, 2021
	MAN	Phu Sun 174	
It is the response instruction	onsibility of the new owner of this well pe	ermit to complete and sign this form. If an agent is signing or	entering information, please
Please allow http://www.d	4 to 6 weeks for processing of this form wr.state.co.us/WellPermitSearch	. Thereafter, you can view or print the accepted document at	::
	Signature of DWR staff indicate	s acceptance as a Change in Owner Name and/or Mailing A	ddress.
		For Staff Use Only	
	0		
Tam	my Poindexter	6/1/2021	
010# 01-	<u> </u>		
Sian Signa		Date	



WJR-26-77	•			W/
THIS FOR	เพ <i>ิ</i> MUST		ADO DIVISION O	F WATER RESOURCES RECEIVED
WITHIN 6	0 DAYS (OF COMPLETION	Deriver, Colo	eet - Room 818 orado 80203 (111 2 2 1923
ON. TYPE	OR PRIN	IT IN BLACK WELL CON	APLETION AND AND	MRANSTAKEACHEN REPORT
INK.		P	ERMIT NUMBER	130940 SINTER RESOURCER
WELL O	WNER_	Jean M. Brown		<u>NW-NE</u> % of the <u>SE-SW</u> % of Sec. <u>18</u>
ADDRES	s4634 CO.	9 Hwy. #6 & 24, G16 81601	enwood Sprgs	
DATE C	OMPLET	EDJu]	<u>y 15,</u> 19 <u>83</u>	HOLE DIAMETER
		WELL LOG		<u>61</u> in from <u>0</u> to <u>290</u> ft.
From	То	Type and Color of Mater	ial Loc.	in. from to ft.
0	1	Top Soil		in, from to ft.
	16	Sand & Grav. m/wBro	own Clay	DRILLING METHOD ROLARY
35	30 42	Sand & Grav. m/wGra Sand & Grav m/wBra	ay Clay	CASING RECORD: Plain Casing
42	55	Brown Sandy Clay		Size <u>6"</u> & kind <u>Stee1</u> from <u>0</u> to <u>20</u> ft.
55	60	Sandstone		Size Att Rekind DWC from 6 to 210 ft
60	140	Sand & Grav. m/wGra	ay Clay	
155	100	Sand & Grav. Brown Sandy Clay		Size <u>4"</u> & kind <u>PVC</u> from <u>270</u> to <u>290</u> ft.
185	215	Sand & Grav.	x	
215	220	Brown Sandy Clay		Perforated Casing
220 270	270 290	Sand & Grav. Sand & Grav. m/wGra	ay Clay	Size <u>4"</u> & kind <u>PVC</u> from <u>210</u> to <u>270</u> ft.
				Size & kind from to ft_
				Size & kind from to ft.
				GROUTING RECORD
				Material <u>Sand, Grave1, Cement</u>
				Intervals 0' - 19' Neat cement @ 180'
				Placement Method <u>Manual</u>
				GRAVEL PACK: Size <u>3/8" Pea</u>
				Interval <u>19' - 290'</u>
				TEST DATA
				Date Tested July 15,, 19 83
				Static Water Level Prior to Test 123 ft.
				Type of Test Pump <u>Blown by air</u>
				Length of Test <u>4 hours</u>
		TOTAL DEPTH 29	0'	Sustained Yield (Metered) <u>15+ G.PM</u>
L	Use a	dditional pages necessary to comp	lete log.	Final Pumping Water Level

El Paso County Land Development Code Water Quality Requirements and Results Dawson Confined Aquifer For 6665 Walker Road Sampled March 16, 2022

Compound	Units	MCL/SMCL	Result
Antimony	mg/l	0.006	0
Arsenic	mg/l	0.01	0
Barium	mg/l	2	0.113
Beryllium	mg/l	0.004	0
Cadmium	mg/l	0.005	0
Chromium	mg/l	0.1	0
Cyanide (Total)	mg/l	0	0
Fluoride	mg/l	4	0.26
Mercury	mg/l	0.002	0
Nitrate as N	mg/l	10	1.14
Nitrite as N	mg/l	1	0
Selenium	mg/l	0.05	0
Thallium	mg/l	0.002	0
Aluminum	mg/l	0.05	0
Chloride	mg/l	250	1.7
Langelier Index			-1
Iron	mg/l	0.3	0
Manganese	mg/l	0.05	0.0017
рН		6.5 - 8.5	7.58
Silver	mg/l	0.1	0
Sulfate	mg/l	250	4.3
TDS	mg/l	500	115
Zinc	mg/l	5	0.101
Gross Alpha/Beta	pCi/l	15	6.6
Combined Radium 226+228	pCi/l	5	3.9
Total Coliform	#/100 ml	Absent	Absent

Green = Result below MCL - Acceptable Water Quality



Analytical Results

TASK NO: 220316024

Report To: Doug Schwenke Company: JDS Hydro Consultants 5540 Tech Center Dr. Suite 100 Colorado Springs CO 80919 Bill To: Doug Schwenke Company: JDS Hydro Consultants 5540 Tech Center Dr. Suite 100 Colorado Springs CO 80919

Task No.: 220316024 Client PO: Client Project: Brones Well	Date Received: 3/16/22 Date Reported: 4/12/22 Matrix: Water - Drinking	
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Lab Number	Customer Sample ID	Sample	Date/Time	Test	Result	Method	Date Analyzed
220316024-01B	#1	3/15/22	2:50 PM	Total Coliform E-Coli	Absent Absent	SM 9223 SM 9223	3/17/22 3/17/22

Abbreviations/ References:

Absent = Coliform Not Detected Present = Coliform Detected - Chlorination Recommended Date Analyzed = Date Test Completed SM = "Standard Methods for the Examination of Water and Wastewater"; APHA; 19th Edition; 1995

DATA APPROVED FOR RELEASE BY

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 3

Colorado Analytical	LABORATORIES, INC.	Commerce City Lah	10411 Heinz Way Commerce City CO 80640	Lakewood Service Center	12860 W. Cedar Dr. Suite 100A Laborrood CO 80738	Phone: 303-659-2313		<u>www.coloradolab.com</u>	is) Subcontract Analyses	د ide anics المال (Circle) المال 254 (Circle) المال 226/228 المال للمال المال المال للمال المال المال للممال للمال للمال للمال للمال للمال للمال للمال للمال للمال للمال للمال للمال للمال للمال للمال للمال للمال للمال للمالمال الممالمالمالمالمالمالمال للممال لممالمالمال للممال لممال لممال لمما	Nitrita Fluori Alk/La SUVA, Gross Rador Rador Rador Rador Rador Rador Rador	X X X X X X X					Seals Present Yes 🗆 No 🔲 Headspace Yes 🗆 No 🗇	Temm of the A Samule Pres Very No	Received Byl Date Time:		
f Custody	Project Information	wsm. N/A	System Name:	Compliance Samples: Yes 🗆 No 🗌	Send Results to CDPHE: Yes No	Task Number (Lab Use Only) CAL Task	220316024	JAK	Water Analyses (check requested analysi	SOCs-Pest Carbamates ilyphosate Diquat TTHMs HAA5s Copper Copper	Nitrat Nitrat Nitrat Nitrat Nitrat Nitrat Nitrat Nitrat	*					/S Info:	Peder Feder Cos Charge	Relinquished By: Date/Time:		54 <i>2</i> 2
Drinking Water Chain of	Bill To Information (If different from report to)	Company Name:	Contact Name:	Address:	City: State: Zip:	hone:	Smail:		O Number: PHASE I. II. V Drinking	Containers Containers (Coliform P/A EDB/DBCP ests/PCBs ests/PCBs Herbicides	P 10. of Mo. of S15.4 515.4 504.1 504.1 504.1 504.1 504.1 504.1	*					HI. T & HID PLAT 2. 14	Freld Femp : 13.2°	Received By: Date/Time:	Eelalle XMUMA	V Paget
	Report To Information	Company Name: 112- Hydro C	Contact Name: DOLG Shurenke c	Address: 55 to techlenter Dr 100	City: CS State: CO Zip: 80319 C	Phone: 119-237-0072 P	Email: dschwenke @jdshydro "com E	Sample Collector: Stephante Smith	Sample Collector Phone: 1/4 - Jal - JJA P	Brones Well	Date Time Client Sample ID / Sample P	2/is/a, 2:50, #1					Instructions: Mease analyte all listed compaun	en enclosed World Doc	Relinquished By: Date/Time: 4 .5 .m	Stedrunte Shuerle 715/22 Diene	

CAL Task 220316024

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- - EPC Confined Aquifer Sampling Requirements

<u>Field Measurements</u> pH

Temp

<u>Radionuclides</u>

Radium 226 and Radium 228 Gross alpha/Beta

Inorganics

Antimony Arsenic Barium Beryllium Cadmium Chromium Cyanide (Total) Fluoride Mercury Nitrate Nitrite Selenium

Thallium

Secondary MCLs Aluminum Chloride Corrosivity Iron Manganese Silver Sulfate Zinc TDS

Bacteriological: Total Coliform



Report To: Doug Schwenke Company: JDS Hydro Consultants 5540 Tech Center Dr. Suite 100 Colorado Springs CO 80919 **Analytical Results**

TASK NO: 220316024

Bill To: Doug Schwenke Company: JDS Hydro Consultants 5540 Tech Center Dr. Suite 100 Colorado Springs CO 80919

Task No.: 220316024 Client PO: Client Project: Brones Well

Date Received: 3/16/22 Date Reported: 4/12/22 Matrix: Water - Drinking

Customer Sample ID #1

Sample Date/Time: 3/15/22 2:50 PM Lab Number: 220316024-01

Test	Result	Method	RL	Date Analyzed	QC Batch ID	Analyzed By
Bicarbonate	49.6 mg/L as CaCO3	SM 2320-B	0.2 mg/L as CaCO3	3/16/22	-	TAB
Calcium as CaCO3	32.0 mg/L	EPA 200.7	0.1 mg/L	3/21/22	-	MAT
Carbonate	ND	SM 2320-B	0.2 mg/L as CaCO3	3/16/22	-	TAB
Hydroxide	ND	SM 2320-B	0.2 mg/L as CaCO3	3/16/22	-	TAB
Langelier Index	-1.00 units	SM 2330-B	units	3/23/22	-	SAN
рН	7.58 units	SM 4500-H-B	0.01 units	3/16/22	-	AKF
Temperature	20 °C	SM 4500-H-B	1 °C	3/16/22	-	AKF
Total Alkalinity	49.6 mg/L as CaCO3	SM 2320-B	4.0 mg/L as CaCO3	3/16/22	QC55659	TAB
Total Dissolved Solids	115 mg/L	SM 2540-C	5 mg/L	3/21/22	QC55702	DEK

Abbreviations/ References:

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed (d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 1 of 4



Analytical QC Summary

TASK NO: 220316024

Report To: Doug Schwenke **Company:** JDS Hydro Consultants

Receive Date: 3/16/22 Project Name: Brones Well

Test	QC Batch ID	QC Type	Result		Method			
otal Alkalinity	QC55659	Blank	ND		SM 2320-B			
otal Dissolved Solids	QC55702	Blank	ND		SM 2540-C			
est	QC Batch ID	QC Type	Limits	% Rec	RPD	Method		
Total Alkalinity	QC55659	Duplicate	0 - 20	-	0.8	SM 2320-B		
		LCS	90 - 110	99.5	-			
Total Dissolved Solids	QC55702	Duplicate	0 - 20	-	4.3	SM 2540-C		
		LCS	85 - 115	95.0	-			

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

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 (s) Spike amount low relative to the sample amount.
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10411 Heinz Way / Commerce City, CO 80640 / 303-659-2313 Mailing Address: P.O. Box 507 / Brighton, CO 80601-0507 Page 2 of 4

Colorado Analytical	LABORATORIES, INC.	Commerce City Lah	10411 Heinz Way Commerce City CO 80640	Lakewood Service Center	12860 W. Cedar Dr. Suite 100A Laborrood CO 80738	Phone: 303-659-2313		<u>www.coloradolab.com</u>	is) Subcontract Analyses		د ide anics الا المود (Circle) الا المود (Circle) الا المود (Circle) الا المود الا المود المو المود المود المو المم المو المو المم المم المو المم المم المم المم المم المم المو المم الممم المم المم الممم المم المم الممم المم الم	Nitrite Fluor Alk/Le SUVA, Cross Radiu Radiu Radiu Radiu	X X X X X X X X					Seals Present Yes 🗆 No 🔲 Headspace Yes 🗆 No 🗍	Temm of the A Samule Pres Very No	Received Byl Date Time:		
f Custody	Project Information	PWSID: N/A	System Name:	Compliance Samples: Yes 🗆 No 🗌	Send Results to CDPHE: Yes No	Task Number (Lab Use Only) CAL Task	220316024	JAK	Water Analyses (check requested analysi	e mart martare (curch requested analysis	SOCs-Pest Carbamates Hyphosate Diquat TTHMs AAA5s Copper Copper Copper	Nitrat Nitrat 2545.2 249.2 249.2 249.2 249.2 249.2 249.2 249.2 249.2 249.2 249.2 249.2 249.2 254.2 254.2 254.2 254.2 254.2 254.2 254.2 254.2 254.2 255.2 254.2 255	*					/S Info:	Delivered Via. Fedd Y CAS Charge	Relinquished By: Date/Time:		5642
Drinking Water Chain of	Bill To Information (If different from report to)	Company Name:	Contact Name:	Address:	City: State: Zip:	Phone:	Email:		PO Number: PHASE I. II. V Drinking		Containers Containers Coliform P/A Bests/PCBs EDB/DBCP ests/PCBs Herbicides	Provention of the second secon	×					HI. T & HID BLIT 200	Freld temp il3.20	Received By: Date/Time:	Echnic XMUMA	Pager
	Report To Information	Company Name: 105- Hydero	Contact Name: DOLG Schurenke	Address: 5540 Teinlenter Dr 100	City: CS State: CO Zip: 80319 C	Phone: 119-237-0072 P	Email: OSCHWENCE Ejdshydra . com E	Sample Collector: Stephante Smithe	Sample Collector Phone: 1/9 - Jal - JJH P		Brones Well	Date Time Client Sample ID / Sample F	2/is/a, 2:50, #1					Instructions: Mease avalute all listed compaun	en enclosed work has	Relinquished By: Date/Time: 4 .3. m	Stedrunte Shuerke 7/15/23 Ditate	

CAL Task 220316024

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- - EPC Confined Aquifer Sampling Requirements

Field Measurements pH

Temp

Radionuclides

Radium 226 and Radium 228 Gross alpha/Beta

Inorganics

Antimony Arsenic Barium Beryllium Cadmium Chromium Cyanide (Total) Fluoride Mercury Nitrate Nitrite Selenium

Thallium

Secondary MCLs Aluminum Chloride Corrosivity Iron Manganese Silver Sulfate Zinc TDS

Bacteriological: Total Coliform



Report To: Doug Schwenke **Company: JDS Hydro Consultants** 5540 Tech Center Dr. Suite 100 Colorado Springs CO 80919

Task No.: 220316024 Client PO: Client Project: Brones Well

Customer Sample ID #1

Analytical Results

TASK NO: 220316024

Bill To: Doug Schwenke Company: JDS Hydro Consultants 5540 Tech Center Dr. Suite 100 Colorado Springs CO 80919

Date Received: 3/16/22 Date Reported: 4/12/22 Matrix: Water - Drinking

Sample Date/Time: 3 Lab Number: 2	3/15/22 2:50 PM 220316024-01						
Test	Result	Method	RL	MCL	Date Analyzed	QC Batch ID	Analyzed By
Chloride	1.7 mg/L	EPA 300.0	0.1 mg/L		3/16/22	QC55694	MLT
Fluoride	0.26 mg/L	EPA 300.0	0.10 mg/L	4	3/16/22	QC55691	MLT
Nitrate Nitrogen	1.14 mg/L	EPA 300.0	0.05 mg/L	10	3/16/22	QC55692	MLT
Nitrite Nitrogen	ND	EPA 300.0	0.03 mg/L	1	3/16/22	QC55693	MLT
Sulfate	4.3 mg/L	EPA 300.0	0.1 mg/L		3/16/22	QC55695	MLT
Cyanide-Total	ND	EPA 335.4	0.005 mg/L	0.02	3/18/22	QC55725	ECM
<u>Total</u>							
Iron	ND	EPA 200.7	0.005 mg/L	0.3	3/21/22	QC55732	MAT
Aluminum	ND	EPA 200.8	0.001 mg/L	0.05	3/21/22	QC55748	MBN
Antimony	ND	EPA 200.8	0.0012 mg/L	0.006	3/21/22	QC55748	MBN
Arsenic	ND	EPA 200.8	0.0006 mg/L	0.01	3/21/22	QC55748	MBN
Barium	0.1130 mg/L	EPA 200.8	0.0007 mg/L	2	3/21/22	QC55748	MBN
Beryllium	ND	EPA 200.8	0.0001 mg/L	0.004	3/21/22	QC55748	MBN
Cadmium	ND	EPA 200.8	0.0001 mg/L	0.005	3/21/22	QC55748	MBN
Chromium	ND	EPA 200.8	0.0015 mg/L	0.1	3/21/22	QC55748	MBN
Manganese	0.0017 mg/L	EPA 200.8	0.0008 mg/L	0.05	3/21/22	QC55748	MBN
Mercury	ND	EPA 200.8	0.0001 mg/L	0.002	3/21/22	QC55748	MBN
Selenium	ND	EPA 200.8	0.0008 mg/L	0.05	3/21/22	QC55748	MBN
Silver	ND	EPA 200.8	0.0005 mg/L	0.1	3/21/22	QC55748	MBN
Thallium	ND	EPA 200.8	0.0002 mg/L	0.002	3/21/22	QC55748	MBN
Zinc	0.101 mg/L	EPA 200.8	0.001 mg/L	5	3/21/22	QC55748	MBN

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations. (s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.



Analytical QC Summary

TASK NO: 220316024

Report To: Doug Schwenke Company: JDS Hydro Consultants Receive Date: 3/16/22 Project Name: Brones Well

Test	QC Batch ID	QC Type	Result		Method	
Chloride	QC55694	Blank	ND		EPA 300.0	
Cyanide-Total	QC55725	Blank	ND		EPA 335.4	
Fluoride	QC55691	Blank	ND		EPA 300.0	
Aluminum	QC55748	Method Blank	ND		EPA 200.8	
Antimony	QC55748	Method Blank	ND		EPA 200.8	
Arsenic	QC55748	Method Blank	ND		EPA 200.8	
Barium	QC55748	Method Blank	ND		EPA 200.8	
Beryllium	QC55748	Method Blank	ND		EPA 200.8	
Cadmium	QC55748	Method Blank	ND		EPA 200.8	
Chromium	QC55748	Method Blank	ND		EPA 200.8	
Manganese	QC55748	Method Blank	ND		EPA 200.8	
Mercury	QC55748	Method Blank	ND		EPA 200.8	
Selenium	QC55748	Method Blank	ND		EPA 200.8	
Silver	QC55748	Method Blank	ND		EPA 200.8	
Thallium	QC55748	Method Blank	ND		EPA 200.8	
Zinc	QC55748	Method Blank	ND		EPA 200.8	
Iron	QC55732	Method Blank	ND		EPA 200.7	
Nitrate Nitrogen	QC55692	Blank	ND		EPA 300.0	
Nitrite Nitrogen	QC55693	Blank	ND		EPA 300.0	
Sulfate	QC55695	Blank	ND		EPA 300.0	
Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
Chloride	QC55694	Duplicate	0 - 20	-	0.3	EPA 300.0
		LCS	90 - 110	102.0	-	
		MS	75 - 125	98.5	-	
Cyanide-Total	QC55725	Duplicate	0 - 20	-	0.0	EPA 335.4
		LCS	90 - 110	98.4	-	
		MS	75 - 125	93.0	-	
Fluoride	QC55691	Duplicate	0 - 20	-	5.4	EPA 300.0
		LCS	90 - 110	99.0	-	
		MS	75 - 125	100.5	-	
Aluminum	QC55748	LCS	90 - 110	103.6	-	EPA 200.8
		MS	70 - 130	107.4	-	
		MSD	0 - 10	-	2.1	
Antimony	QC55748	LCS	90 - 110	97.5	-	EPA 200.8
		MS	70 - 130	94.2	-	
		MSD	0 - 10	-	2.8	
Arsenic	QC55748	LCS	90 - 110	96.5	-	EPA 200.8
		MS	70 - 130	104.6	-	
		MSD	0 - 10	-	2.4	
Barium	QC55748	LCS	90 - 110	91.9	-	EPA 200.8

Abbreviations/ References:

RL = Reporting Limit = Minimum Level

mg/L = Milligrams Per Liter or PPM

ug/L = Micrograms Per Liter or PPB

mpn/100 mls = Most Probable Number Index/ 100 mls

Date Analyzed = Date Test Completed

(d) RPD acceptable due to low duplicate and sample concentrations.

(s) Spike amount low relative to the sample amount.

ND = Not Detected at Reporting Limit.

Test	QC Batch ID	QC Type	Limits	% Rec	RPD	Method
		MS	70 - 130	92.4	-	
		MSD	0 - 10	-	0.9	
Beryllium	QC55748	LCS	90 - 110	100.8	-	EPA 200.8
		MS	70 - 130	106.2	-	
		MSD	0 - 10	-	0.5	
Cadmium	QC55748	LCS	90 - 110	93.9	-	EPA 200.8
		MS	70 - 130	92.7	-	
		MSD	0 - 10	-	1.9	
Chromium	QC55748	LCS	90 - 110	102.1	-	EPA 200.8
		MS	70 - 130	115.5	-	
		MSD	0 - 10	-	2.2	
Manganese	QC55748	LCS	90 - 110	96.3	-	EPA 200.8
		MS	70 - 130	107.7	-	
		MSD	0 - 10	-	1.3	
Mercury	QC55748	LCS	90 - 110	99.3	-	EPA 200.8
		MS	70 - 130	90.5	-	
		MSD	0 - 10	-	4.4	
Selenium	QC55748	LCS	90 - 110	96.2	-	EPA 200.8
		MS	70 - 130	99.5	-	
		MSD	0 - 10	-	5.5	
Silver	QC55748	LCS	90 - 110	94.2	-	EPA 200.8
		MS	70 - 130	75.5	-	
		MSD	0 - 10	-	2.4	
Thallium	QC55748	LCS	90 - 110	100.7	-	EPA 200.8
		MS	70 - 130	97.3	-	
		MSD	0 - 10	-	1.6	
Zinc	QC55748	LCS	90 - 110	100.9	-	EPA 200.8
		MS	70 - 130	113.0	-	
		MSD	0 - 10	-	1.5	
Iron	QC55732	Duplicate	0 - 20	-	8.0	EPA 200.7
		LCS	90 - 110	99.8	-	
		MS	75 - 125	110.5	-	
Nitrate Nitrogen	QC55692	Duplicate	0 - 20	-	1.0	EPA 300.0
		LCS	90 - 110	99.5	-	
		MS	75 - 125	97.1	-	
Nitrite Nitrogen	QC55693	Duplicate	0 - 20	-	0.0	EPA 300.0
		LCS	90 - 110	98.8	-	
		MS	75 - 125	95.1	-	
Sulfate	QC55695	Duplicate	0 - 20	-	0.9	EPA 300.0
		LCS	90 - 110	99.8	-	
		MS	75 - 125	101.8	-	

All analyses were performed in accordance with approved methods under the latest revision to 40 CFR Part 136 unless otherwise identified. Based on my inquiry of the person or persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.

DATA APPROVED FOR RELEASE BY

(d) RPD acceptable due to low duplicate and sample concentrations.
 (s) Spike amount low relative to the sample amount.
 ND = Not Detected at Reporting Limit.

RL = Reporting Limit = Minimum Level mg/L = Milligrams Per Liter or PPM ug/L = Micrograms Per Liter or PPB mpn/100 mls = Most Probable Number Index/ 100 mls Date Analyzed = Date Test Completed

Abbreviations/ References:

Colorado	ON CASES AND	A Commerce City Lab	10411 Heinz Way Commerce City CO 80640	des: Yes 🗆 No 🔲 Lakewood Service Center	OPHE: Yes [] No [] 12860 W. Cedar Dr. Suite 100A 1 abounded CO 80778	CAL Task Phone: 303-659-2313	20316024	JAK <u>www.coloradolab.com</u>	check requested analysis) Subcontract Analyses	Diquat TTHMs TTHMs Copper Copper ans. Index (Circle) DOC	2.49.2 5.24.2 5.52.2 1.ead/ Nitrit Fluor Fluor Fluor COC, SUVA Cross Radit Radit Radit	X X X X X X X X						Seals Present Yes No Headspace Yes No	Edd X Charge N Term S. Are & Sample Pres Ver No []	: Date/Time: Received By/ Date/Time:		
of Custody	Project Informati	PWSID. N	System Name:	Compliance Samp	Send Results to Cl	Task Number (Lab Use Only)	~		ng Water Analyses (SOCs-Pest Carbamates Endothall	2.2522							C/S Info:	Delivered Via	Relinquished By	~	Cords
Drinking Water Chain (To Information (If different from report to)	ipany Name:	tact Name:	lress:	: State: Zip:	16:	li.		Vumber: PHASE I, II, V Drinki	VOCs Containers (Containers (Coliform P/A EDB/DBCP essts/PCBs Herbicides	D No. of No. of S15.4 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S04.1 S05.1 S04.1 S05.1 S04.1 S05.1 S04.1 S05.1 S04.1 S05.1 S06.	*)		Fill pH: 7.14	Freld Temp : 13.2°	ceived By: Date/Time:	AMANAN SILVE	Paged
	Report To Information Bill	Company Name: 1725- Hydevo Com	Contact Name: DOLG Shurenke Con	Address: 55 to teinlenter br 100	City: CS State: CO Zip: 80419 City	Phone: 119-237-0072 Phon	Email: OSCHWENKE @ jds hydro " Corn Ema	Sample Collector: Stephante Smithe	Sample Collector Phone: 117 - Jal - Jul PO	Brones Well	Date Time Client Sample ID / Sample Pt I	5/is/a, 2:50, #1						Instructions: Mease analyte all listed compaunds	en enclosed World Dec	Relinquished By: Date/Time: U . M Re	Stedrunte Shuerle 715/22000	

CAL Task 220316024

JAK

- - EPC Confined Aquifer Sampling Requirements

<u>Field Measurements</u> pH

Temp

Radionuclides

Radium 226 and Radium 228 Gross alpha/Beta

Inorganics

Antimony Arsenic Barium Beryllium Cadmium Chromium Cyanide (Total) Fluoride Mercury Nitrate Nitrite Selenium

Thallium

Secondary MCLs Aluminum Chloride Corrosivity Iron Manganese Silver Sulfate Zinc TDS

Bacteriological: Total Coliform



Hazen Research, Inc. 4601 Indiana Street Golden, CO 80403 USA Tel: (303) 279-4501 Fax: (303) 278-1528 Lab Control ID: 22M01464 Received: Mar 17, 2022 Reported: Apr 12, 2022 Purchase Order No. None Received

Customer ID: 20040H Account ID: Z01034

Stuart Nielson Colorado Analytical Laboratories, Inc. 10411 Heinz Way Commerce City, CO 80640

ANALYTICAL REPORT

Report may only be copied in its entirety. Results reported herein relate only to discrete samples submitted by the client. Hazen Research, Inc. does not warrant that the results are representative of anything other than the samples that were received in the laboratory

Sullion By:

Roxanne Sullivan Analytical Laboratories Director



Customer ID: 20040H Account ID: Z01034

ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

Li	ab Sam	ple ID	22M01464-0	01								
Custom	er Sam	ple ID	2203160	220316024-01D - Brones Well - #1								
				sampled or	n 03/15/22 (@ 1450						
				Precision*	Detection		Analysis					
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst				
Gross Alpha	pCi/L	Т	2.9	1.7	0.1	SM 7110 B	3/23/22 @ 0849	RG				
Gross Beta	pCi/L	Т	3.7	2.4	3.1	SM 7110 B	3/23/22 @ 0849	RG				
Radium-226	pCi/L	Т	NR	-	-	SM 7500-Ra B	-	-				
Radium-228	pCi/L	Т	NR	-	-	EPA Ra-05	-	-				

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual (AR) = As Received < = Less Than



Customer ID: 20040H Account ID: Z01034

ANALYTICAL REPORT

Stuart Nielson Colorado Analytical Laboratories, Inc.

Li	ab Sam	ple ID	22M01464-0	02							
Custom	er Sam	ple ID	2203160	220316024-01E - Brones Well - #1							
		-		sampled or	n 03/15/22 (@ 1450					
				Precision*	Detection		Analysis				
Parameter	Units	Code	Result	+/-	Limit	Method	Date / Time	Analyst			
Gross Alpha	pCi/L	Т	NR	-	-	SM 7110 B	-	-			
Gross Beta	pCi/L	Т	NR	-	-	SM 7110 B	-	-			
Radium-226	pCi/L	Т	1.2	0.3	0.1	SM 7500-Ra B	3/31/22 @ 1407	KT			
Radium-228	pCi/L	Т	2.7	0.8	0.2	EPA Ra-05	3/29/22 @ 1120	JR			

Certification ID's: CO/EPA CO00008

*Variability of the radioactive decay process (counting error) at the 95% confidence level, 1.96 sigma.

Codes: (T) = Total (D) = Dissolved (S) = Suspended (R) = Total Residual (AR) = As Received < = Less Than

Date: 03/23/2022

Batch QC Summary Form

Analyte: Gross Alpha					
Control Standard/LFB:	ID:	C-11	pCi/mL:	57.4	(use 1 diluted)
Spike Solution:	ID:	C-11	pCi/mL:	57.4	(use 1 mL)
Spike Recovery Calculation:		Sample: Ta	ap*		

Calculation:	(46.3)	(1.000)	-	(0.0)	(0.200)	x 100 =	81%
-			57.4				

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 30 %	Х		
Spike Recovery	70 - 130 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap			х

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M01421	
22M01441	
22M01464	
22M01473	 Evaluator
22M01477	
22M01434	 C. R. Ile
	(J. S.
	 03/31/2022

Date

Date: 03/23/2022

Batch QC Summary Form

Analyte: Gross Beta					
Control Standard/LFB:	ID:	C-11	pCi/mL:	44	(use 1 diluted)
Spike Solution:	ID:	C-11	pCi/mL:	44	(use 1 mL)
Spike Recovery Calculation:		Sample: Ta	ap*		

Calculation:	(37.7)	(1.000)	-	(0.5)	(0.200)	x 100 =	85%
			44				

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	Х		
Spike Recovery	80 - 120 %	X		
Blank	< or = 3 x Uncertainty	X		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap			х

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M01421	
22M01441	
22M01464	
22M01473	
22M01477	<u>Evaluator:</u>
22M01485	- 0.4
22M01434	C. R. VILL
	Car J. J.
	 03/31/2022

Date

Date: 03/30/2022

Batch QC Summary Form

Analyte: Radium-226					
Control Standard/LFB:	ID:	C1-002	pCi/mL:	23	(use 2 diluted)
Spike Solution:	ID:	C1-002	pCi/mL:	23	(use 2 mL)
Spike Recovery Calculation:		Sample: 22	2M01477-0	2c	

Calculation:	(36.9)	(1.000)	-	(0.1)	(1.000)	x 100 =	80%
			46				

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	Х		
Spike Recovery	80 - 120 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap	х		

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M01428	22M01505
22M01432	22M01512
22M01447	22M01513
22M01464	22M01515
22M01465	22M01530
22M01472	22M01440
22M01477	22M01552
22M01500	
22M01501	
22M01504	

Evaluator:

a f. She

04/06/2022

Date

Date: 03/28/2022

Batch QC Summary Form

Analyte:Radium-228Control Standard/LFB:ID:C6-002pCi/mL:12.9(use 5 diluted)Spike Solution:ID:C6-002pCi/mL:12.9(use 5 mL)Spike Recovery Calculation:Sample:22M01465-1b

Calculation:	(63.4)	(1.000)	-	(2.3)	(0.800)	X	100 =	95%
-			64.5					

Batch QC Evaluation:

Parameter	Criteria	Pass	Fail	N/A
Control Std./LFB	+/- 20 %	Х		
Spike Recovery	80 - 120 %	Х		
Blank	< or = 3 x Uncertainty	Х		
Duplicate 1	95% confidence interval overlap	Х		
Duplicate 2 *	95% confidence interval overlap			x

* Required for batch size greater than 10 samples.

Conclusions:

 x
 Batch QC Passes**

 Batch QC Fails
 Batch QC Passes, with exceptions**:

Reruns Required:

Narrative:

**All QC data provided in this section of the report met the acceptance criteria specified in the analytical methods and procedures. State Maximum Contamination Levels (MCLs) are not evaluted in this report.

Batch Listing by Lab Control Number:

22M01378 22M01428	
22M01440 22M01464 22M01465	 <u>Evaluator:</u>
22M01477 22M01500	a fishe -
	 04/04/2022

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page 8 of 8