

# WATER SUPPLY INFORMATION SUMMARY

Section 30-28-133(d), C.R.S. requires that the applicant submit to the County, "Adequate evidence that a water supply that is sufficient in terms of quantity, quality and dependability will be available to ensure an adequate supply of water.

1. NAME OF DEVELOPMENT AS PROPOSED High View Estates			
2. LAND USE ACTION Subdivision Plat Approval			
3. NAME OF EXISTING PARCEL AS RECORDED NW4SE4 SEC 18-11-65, EX ANY PT LY WITHIN WALKER RD			
SUBDIVISION	FILING	BLOCK	LOT
4. TOTAL ACREAGE 40	5. NUMBER OF LOTS PROPOSED 5	PLAT MAP ENCLOSED <input checked="" type="checkbox"/> YES	
6. PARCEL HISTORY - Please attach copies of deeds, plats or other evidence or documentation.			
A. Was parcel recorded with county prior to June 1, 1972? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
B. Has the parcel ever been part of a division of land action since June 1, 1972? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
If yes, describe the previous action _____			
7. LOCATION OF PARCEL - Include a map delineating the project area and tie to a section corner.			
NW 1/4 OF SE 1/4 SECTION 18 TOWNSHIP 11 <input type="checkbox"/> N <input checked="" type="checkbox"/> S RANGE 65 <input type="checkbox"/> E <input checked="" type="checkbox"/> W			
PRINCIPAL MERIDIAN: <input checked="" type="checkbox"/> 6TH <input type="checkbox"/> N.M. <input type="checkbox"/> UTE <input type="checkbox"/> COSTILLA			
8. PLAT - Location of all wells on property must be plotted and permit numbers provided.			
Surveyors plat <input type="checkbox"/> Yes <input type="checkbox"/> No If not, scaled hand drawn sketch <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
9. ESTIMATED WATER REQUIREMENTS - Gallons per Day or Acre Feet per Year		10. WATER SUPPLY SOURCE	
HOUSEHOLD USE # 5 of units	GPD 1.25 AF	<input checked="" type="checkbox"/> EXISTING WELLS WELL PERMIT NUMBERS 130940	<input type="checkbox"/> DEVELOPED SPRING  <input type="checkbox"/> NEW WELLS - PROPOSED AQUIFERS - (CHECK ONE) <input type="checkbox"/> ALLUVIAL <input type="checkbox"/> UPPER ARAPAHOE <input checked="" type="checkbox"/> UPPER DAWSON <input type="checkbox"/> LOWER ARAPAHOE <input type="checkbox"/> LOWER DAWSON <input type="checkbox"/> LARAMIE FOX HILLS <input type="checkbox"/> DENVER <input type="checkbox"/> DAKOTA <input type="checkbox"/> OTHER _____
COMMERCIAL USE # _____ of S.F.	GPD _____ AF		
IRRIGATION # 1.28 of acres	GPD 3.2 AF	<input type="checkbox"/> MUNICIPAL <input type="checkbox"/> ASSOCIATION <input type="checkbox"/> COMPANY <input type="checkbox"/> DISTRICT NAME _____ LETTER OF COMMITMENT FOR SERVICE <input type="checkbox"/> YES <input type="checkbox"/> NO	WATER COURT DECREE CASE NO.'S 21CW3119 Division 1
STOCK WATERING # 10 of head	GPD 0.55 AF		
OTHER _____	GPD _____ AF		
TOTAL	GPD 5.0 AF		
11. ENGINEER'S WATER SUPPLY REPORT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PLEASE FORWARD WITH THIS FORM. (This may be required before our review is completed.)			
12. TYPE OF SEWAGE DISPOSAL SYSTEM			
<input checked="" type="checkbox"/> SEPTIC TANK/LEACH FIELD		<input type="checkbox"/> CENTRAL SYSTEM - DISTRICT NAME _____	
<input type="checkbox"/> LAGOON		<input type="checkbox"/> VAULT - LOCATION SEWAGE HAULED TO _____	
<input type="checkbox"/> ENGINEERED SYSTEM (Attach a copy of engineering design)		<input type="checkbox"/> OTHER _____	



# Brones/Paul Property and Well Location



### Legend

- Application Denied
- Application Hold
- Application Information Requested
- Application Received
- Application Withdrawn
- Hydrogeology Review Requested
- Permit Canceled
- Permit Expired
- Permit Extended
- Permit Issued
- Well Abandoned
- Well Constructed
- Well Replaced
- NA
- <Null>
- Well Constructed

### Location

### Notes



*This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.*

**Table 1: Estimated Groundwater Volumes for Brones Property**

Location: NW1/4 of SE1/4 Section 18, Township 11 S, Range 65 W  
 Address: 6665 Walker Road, Colorado Springs, CO - Receipt No.: 5100000421  
 Well Permit: N/A  
 Elevation: 7,481 ft  
 Surface Area: 40 Acres  
 Number of lots: 5  
 Designated Basin: None  
 Management District: None

Aquifer	Surface Area (Acres)	Net Sand (ft) <sup>1</sup>	Avg. Specific Yield (%)	Total Approp. Volume (AF)	100-year Ann. Approp. (AF/yr)	300-year Ann. Approp. (AF/yr)
Upper Dawson (NNT)	40.0	477.40	20.00%	3819.20	38.19	12.73
Denver (NT)	40.0	485.80	17.00%	3303.44	33.03	11.01
Upper Arapahoe (NT)	40.0	254.60	17.00%	1731.28	17.31	5.77
Laramie-Fox Hills (NT)	40.0	202.70	15.00%	1216.20	12.16	4.05

Note 1: Estimated saturated thickness taken from SB-5 Bedrock Aquifer Evaluation Determination Tool for the Denver Basin.

**Table 2: Estimated Annual Water Use and Pumping Rates - Dawson Aquifer**

**Appendix B: Estimated Annual Water Use and Pumping Rates**

Use	Constant	Increment
<b>Two Properties</b>		
Domestic Indoor	0.250	AF/year
Irrigation <sup>1</sup>	0.640	AF/year
Stock Watering <sup>2</sup>	0.110	AF/year
<b>Total Well Demand</b>	<b>1.000</b>	<b>AF/year/lot</b>

Note 1: Assume 11,130 ft<sup>2</sup> at 0.0566 per 1,000 ft<sup>2</sup>

Note 2: Assume 10 horses at 0.011 AF/horse/year

Total Annual Usage (5 wells total) = 5.00 AF/year

**Estimated Return Flows through Septic (domestic use only)**

Percent of domestic 90.00% of Residence  
 Volume return 1.125 AF/year

**Table 3: AUG-3 Denver Basin Depletion Model - Maximum Depletions**

**Using SB 5-year\_Timestep\_2019 Model for wells outside of Designated Basins**

**Dawson Aquifer - Not-Nontributary**

Pumping Interval	Formation	Total Depl. (AF/yr)	Total Depl. (% of Pumping)	Year of Max. Depletion	Div. 1 Depletion (AF/yr)	Div. 2 Depletion (AF/yr)	Designated Basin (AF/yr)
<b>300-year pumping period</b>							
Pumping Period	Dawson (NNT)	1.109	22.18%	300	0.696	0.325	0.088
Model Period	Dawson (NNT)	1.109	22.18%	300	0.696	0.325	0.088

Total Depletions over 300-year pumping period = 173.584 AF

Total Replacements over 300-year pumping period = 337.500 AF

Total Replacement credit during 300-year period = 163.92 AF

Total Post-Pumping Depletion = 552.50 AF

Total Denver Basin Allocation (including credit) = 388.58 AF

Summary Table 1			Summary Table 2				
Applicant Name	Collin Brones / Kurt Brown		Model Period (years)	700			
Case No. or Receipt No.	Parcel 51-0-421		Applicant Name	Collin Brones / Kurt Brown			
Number of Years of Pumping	300		Case No. or Receipt No.	Parcel 51-0-421			
Pumping Rate (ac-ft/yr)	5.00		Number of Years of Pumping	300			
Total Volume (ac-ft)	1500		Pumping Rate (ac-ft/yr)	5.00			
Legal for All Sections	SEC 18 T11S R65W		Total Volume (ac-ft)	1500			
Model	DA02		Legal for All Sections	SEC 18 T11S R65W			
Aquifer	DAWSON		Model	DA02			
			Aquifer	DAWSON			
100th Year Stream Depletion			Maximum Stream Depletion				
Streams	100th Year Depletion (ac-ft/yr)	q/Q (%)	Streams	Max. Depletion during model period (ac-ft/yr)	Year during model period	Max. Depletion during pumping period (ac-ft/yr)	Year during pumping period
MONUMENT	0.05	1.06	MONUMENT	0.20	340	0.19	300
EAST PLUM-W&E BRANCH	0.00	0.03	EAST PLUM-W&E BRANCH	0.08	650	0.03	300
RUNNING CREEK	0.00	0.01	RUNNING CREEK	0.01	605	0.01	300
WEST CHERRY	0.10	2.01	WEST CHERRY	0.25	310	0.25	300
EAST CHERRY	0.20	3.95	EAST CHERRY	0.35	300	0.35	300
CHERRY	0.01	0.13	CHERRY	0.08	495	0.06	300
KIOWA	0.01	0.20	KIOWA	0.12	510	0.08	300
KETTLE	0.02	0.32	KETTLE	0.06	335	0.06	300
SAND-DIV2	0.01	0.17	SAND-DIV2	0.10	430	0.08	300
BIG SANDY	0.00	0.00	BIG SANDY	0.00	1000	0.00	300
BLACK SQUIRREL-UBSCDB	0.00	0.01	BLACK SQUIRREL-UBSCDB	0.02	545	0.01	300
<b>Total</b>	<b>0.39</b>	<b>7.90</b>	<b>Total</b>	<b>1.11</b>	<b>300</b>	<b>1.11</b>	<b>300</b>
South Platte (No Designated Basin Streams)	0.31	6.14	South Platte (No Designated Basin Streams)	0.70	300	0.70	300
Arkansas (No Designated Basin Streams)	0.08	1.55	Arkansas (No Designated Basin Streams)	0.35	360	0.32	300
Designated Basin	0.01	0.21	Designated Basin	0.13	525	0.09	300

Created by JDS-Hydro / RESPEC on February 07, 2022

Values for 'Depletion as a % of Pumping' (q/Q) are not calculated when the pumping rate (Q) is changed to anything but zero

**Designated Basin Stream Depletion Summary Table**

Year	Depletion as a % of Pumping	Annual Depletion (AF/YR)	Year	Depletion as a % of Pumping	Annual Depletion (AF/YR)	Year	Depletion as a % of Pumping	Annual Depletion (AF/YR)	Year	Depletion as a % of Pumping	Annual Depletion (AF/YR)
5	0.00	0.000	255	1.37	0.068	505	2.66	0.133	755	2.41	0.121
10	0.00	0.000	260	1.41	0.071	510	2.66	0.133	760	2.40	0.120
15	0.00	0.000	265	1.46	0.073	515	2.66	0.133	765	2.39	0.120
20	0.00	0.000	270	1.50	0.075	520	2.66	0.133	770	2.39	0.119
25	0.00	0.000	275	1.54	0.077	525	2.66	0.133	775	2.38	0.119
30	0.01	0.000	280	1.59	0.079	530	2.66	0.133	780	2.37	0.118
35	0.01	0.001	285	1.63	0.082	535	2.66	0.133	785	2.36	0.118
40	0.02	0.001	290	1.68	0.084	540	2.66	0.133	790	2.35	0.118
45	0.02	0.001	295	1.72	0.086	545	2.66	0.133	795	2.34	0.117
50	0.03	0.002	300	1.77	0.088	550	2.66	0.133	800	2.34	0.117
55	0.04	0.002	305	1.81	0.091	555	2.65	0.133	805	2.33	0.116
60	0.05	0.003	310	1.86	0.093	560	2.65	0.133	810	2.32	0.116
65	0.07	0.003	315	1.90	0.095	565	2.65	0.132	815	2.31	0.116
70	0.08	0.004	320	1.95	0.097	570	2.65	0.132	820	2.30	0.115
75	0.10	0.005	325	1.99	0.100	575	2.64	0.132	825	2.29	0.115
80	0.12	0.006	330	2.03	0.102	580	2.64	0.132	830	2.28	0.114
85	0.14	0.007	335	2.07	0.104	585	2.63	0.132	835	2.28	0.114
90	0.16	0.008	340	2.11	0.106	590	2.63	0.132	840	2.27	0.113
95	0.18	0.009	345	2.15	0.108	595	2.63	0.131	845	2.26	0.113
100	0.21	0.010	350	2.19	0.109	600	2.62	0.131	850	2.25	0.112
105	0.23	0.012	355	2.22	0.111	605	2.62	0.131	855	2.24	0.112
110	0.26	0.013	360	2.26	0.113	610	2.61	0.131	860	2.23	0.112
115	0.29	0.014	365	2.29	0.114	615	2.61	0.130	865	2.22	0.111
120	0.32	0.016	370	2.32	0.116	620	2.60	0.130	870	2.22	0.111
125	0.35	0.017	375	2.35	0.117	625	2.60	0.130	875	2.21	0.110
130	0.38	0.019	380	2.37	0.119	630	2.59	0.130	880	2.20	0.110
135	0.41	0.021	385	2.40	0.120	635	2.59	0.129	885	2.19	0.109
140	0.45	0.022	390	2.42	0.121	640	2.58	0.129	890	2.18	0.109
145	0.48	0.024	395	2.44	0.122	645	2.57	0.129	895	2.17	0.109
150	0.51	0.026	400	2.46	0.123	650	2.57	0.128	900	2.16	0.108
155	0.55	0.028	405	2.48	0.124	655	2.56	0.128	905	2.15	0.108
160	0.59	0.029	410	2.50	0.125	660	2.55	0.128	910	2.14	0.107
165	0.62	0.031	415	2.52	0.126	665	2.55	0.127	915	2.14	0.107
170	0.66	0.033	420	2.53	0.127	670	2.54	0.127	920	2.13	0.106
175	0.70	0.035	425	2.55	0.127	675	2.53	0.127	925	2.12	0.106
180	0.74	0.037	430	2.56	0.128	680	2.53	0.126	930	2.11	0.105
185	0.78	0.039	435	2.57	0.129	685	2.52	0.126	935	2.10	0.105
190	0.82	0.041	440	2.58	0.129	690	2.51	0.126	940	2.09	0.105
195	0.86	0.043	445	2.59	0.130	695	2.51	0.125	945	2.08	0.104
200	0.90	0.045	450	2.60	0.130	700	2.50	0.125	950	2.08	0.104
205	0.94	0.047	455	2.61	0.131	705	2.49	0.124	955	2.07	0.103
210	0.98	0.049	460	2.62	0.131	710	2.48	0.124	960	2.06	0.103
215	1.02	0.051	465	2.63	0.131	715	2.47	0.124	965	2.05	0.102
220	1.06	0.053	470	2.63	0.132	720	2.47	0.123	970	2.04	0.102
225	1.11	0.055	475	2.64	0.132	725	2.46	0.123	975	2.03	0.102
230	1.15	0.057	480	2.64	0.132	730	2.45	0.123	980	2.02	0.101
235	1.19	0.060	485	2.65	0.132	735	2.44	0.122	985	2.01	0.101
240	1.24	0.062	490	2.65	0.133	740	2.44	0.122	990	2.01	0.100
245	1.28	0.064	495	2.65	0.133	745	2.43	0.121	995	2.00	0.100
250	1.32	0.066	500	2.66	0.133	750	2.42	0.121	1000	1.99	0.099

Created by JDS-Hydro / RESPEC on February 07, 2022

Values for 'Depletion as a % of Pumping' (q/Q) are not calculated when the pumping rate (Q) is changed to anything but zero

**Summary of Total Depletion (South Platte+Arkansas+Designated Basin Streams)**

Year	Depletion as a % of Pumping	Annual Depletion (AF/YR)	Year	Depletion as a % of Pumping	Annual Depletion (AF/YR)	Year	Depletion as a % of Pumping	Annual Depletion (AF/YR)	Year	Depletion as a % of Pumping	Annual Depletion (AF/YR)
5	0.54	0.027	255	19.17	0.958	505	18.44	0.922	755	13.64	0.682
10	1.04	0.052	260	19.52	0.976	510	18.34	0.917	760	13.55	0.678
15	1.49	0.074	265	19.85	0.993	515	18.24	0.912	765	13.47	0.674
20	1.90	0.095	270	20.20	1.010	520	18.13	0.906	770	13.39	0.669
25	2.30	0.115	275	20.53	1.027	525	18.02	0.901	775	13.30	0.665
30	2.68	0.134	280	20.86	1.043	530	17.92	0.896	780	13.22	0.661
35	3.06	0.153	285	21.20	1.060	535	17.82	0.891	785	13.14	0.657
40	3.43	0.172	290	21.53	1.077	540	17.72	0.886	790	13.06	0.653
45	3.81	0.190	295	21.86	1.093	545	17.62	0.881	795	12.98	0.649
50	4.18	0.209	300	22.18	1.109	550	17.52	0.876	800	12.90	0.645
55	4.55	0.227	305	21.98	1.099	555	17.40	0.870	805	12.82	0.641
60	4.92	0.246	310	21.79	1.090	560	17.30	0.865	810	12.74	0.637
65	5.29	0.264	315	21.67	1.084	565	17.20	0.860	815	12.66	0.633
70	5.66	0.283	320	21.57	1.079	570	17.10	0.855	820	12.59	0.629
75	6.03	0.302	325	21.50	1.075	575	17.00	0.850	825	12.51	0.626
80	6.40	0.320	330	21.43	1.071	580	16.89	0.845	830	12.43	0.622
85	6.78	0.339	335	21.37	1.069	585	16.79	0.840	835	12.36	0.618
90	7.15	0.358	340	21.31	1.066	590	16.69	0.835	840	12.28	0.614
95	7.52	0.376	345	21.25	1.063	595	16.59	0.830	845	12.21	0.610
100	7.90	0.395	350	21.18	1.059	600	16.50	0.825	850	12.13	0.607
105	8.27	0.414	355	21.12	1.056	605	16.40	0.820	855	12.06	0.603
110	8.65	0.432	360	21.07	1.053	610	16.30	0.815	860	11.98	0.599
115	9.02	0.451	365	20.99	1.050	615	16.20	0.810	865	11.91	0.596
120	9.39	0.470	370	20.92	1.046	620	16.10	0.805	870	11.84	0.592
125	9.77	0.488	375	20.86	1.043	625	16.01	0.801	875	11.76	0.588
130	10.14	0.507	380	20.78	1.039	630	15.91	0.795	880	11.69	0.585
135	10.52	0.526	385	20.70	1.035	635	15.81	0.790	885	11.62	0.581
140	10.89	0.544	390	20.63	1.032	640	15.71	0.785	890	11.55	0.578
145	11.26	0.563	395	20.54	1.027	645	15.62	0.781	895	11.48	0.574
150	11.63	0.582	400	20.47	1.024	650	15.52	0.776	900	11.41	0.571
155	12.00	0.600	405	20.39	1.019	655	15.43	0.772	905	11.34	0.567
160	12.37	0.619	410	20.30	1.015	660	15.33	0.766	910	11.27	0.564
165	12.74	0.637	415	20.21	1.011	665	15.24	0.762	915	11.20	0.560
170	13.11	0.656	420	20.12	1.006	670	15.14	0.757	920	11.14	0.557
175	13.48	0.674	425	20.02	1.001	675	15.05	0.753	925	11.07	0.553
180	13.85	0.692	430	19.94	0.997	680	14.95	0.748	930	11.00	0.550
185	14.21	0.711	435	19.85	0.993	685	14.87	0.743	935	10.93	0.547
190	14.58	0.729	440	19.75	0.987	690	14.78	0.739	940	10.87	0.543
195	14.94	0.747	445	19.65	0.982	695	14.69	0.735	945	10.80	0.540
200	15.30	0.765	450	19.56	0.978	700	14.59	0.730	950	10.74	0.537
205	15.66	0.783	455	19.46	0.973	705	14.50	0.725	955	10.67	0.534
210	16.01	0.801	460	19.36	0.968	710	14.42	0.721	960	10.61	0.530
215	16.37	0.819	465	19.26	0.963	715	14.33	0.716	965	10.54	0.527
220	16.73	0.837	470	19.15	0.958	720	14.24	0.712	970	10.48	0.524
225	17.08	0.854	475	19.05	0.953	725	14.15	0.708	975	10.42	0.521
230	17.43	0.872	480	18.95	0.948	730	14.06	0.703	980	10.35	0.518
235	17.79	0.890	485	18.85	0.943	735	13.98	0.699	985	10.29	0.515
240	18.14	0.907	490	18.75	0.937	740	13.89	0.695	990	10.23	0.511
245	18.49	0.924	495	18.65	0.932	745	13.81	0.690	995	10.17	0.508
250	18.82	0.941	500	18.55	0.927	750	13.72	0.686	1000	10.11	0.505

Created by JDS-Hydro / RESPEC on February 07, 2022

Values for 'Depletion as a % of Pumping' (q/Q) are not calculated when the pumping rate (Q) is changed to anything but zero