LRE Water
909 Colorado Avenue
Glenwood Springs, CO 81601
(970)-945-6777 Voice
(970)-945-1137 Facsimile

Memorandum

To: BWCD BOARD OF DIRECTORS

From: ERIC MANGEOT

CC: CHRIS GEIGER

Date: JULY 5, 2023

File: APPLICATION AND INCLUSION

Applicant Name: Greenbay Electronics, LLC

Type of Use: Domestic __X__ Commercial _____
Industrial _____ Agricultural _____

Amount: __4.0__AF _0.033_ cfs __15__ gpm

Location: Area A ____ Area B __X__ Inclusion __X__
County: _PITKIN_ Contiguous: __X___ (To Division Boundary)
BWCD Division: _7_

Mid Valley Metro District Notice Required? Yes____ No__X__

Blue Creek Water Rights Applied? Yes____ No__X__

02CW77 Umbrella Plan Water Rights Applied? Yes_X__ No_____ **Cost:** _$2,000_

This application covers depletions associated with evaporative losses from an irrigation pond (a/k/a Habul Pond) and swimming pool, and 1.5 acres of lawn and landscape irrigation at property owned by Greenbay Electronics, LLC (Applicant). Total contract depletions are 4.0 acre-feet (AF) as shown on the attached tables. The depletions also include an average of 0.35 AF for topping of the pond and filling of the swimming pool in May.

The property requires inclusion into Division 7 of the District. The property is approximately 6.15 acres and is situated on a tract of land in Lots 12 & 20 of Section 26 and in Lots 16 &17 of Section 27, in Township 9 South, Range 85 West of the 6th P.M., The property is in the White Horse Springs subdivision near Aspen, Colorado. The physical address of the property is 280 White Horse Springs, Aspen, Colorado (Pitkin County Parcel No. is 264326300003). A vicinity map depicting the location of the property is shown in ***Figure 1***.

The source of supply under the contract is a proposed well located in the SE1/4 of the SE1/4, Section 27, Township 9 South, Range 85 West, of the 6th P.M. at a pond UTM NAD83 Z13: 4344454m N, 339478m E.

The pond is located in the SE1/4 of the SE1/4, Section 27, Township 9 South, Range 85 West, of the 6th P.M. at a pond UTM NAD83 Z13: 4344376m N, 339481m E.

Water User :	Greenbay Electronics, LLC
Analysis Date :	July 5, 2023
District Area:	A-3
Source Series:	4
Maximum Demand:	15.0 (GPM) 0.033 (CFS)

BASALT WATER CONSERVANCY DISTRICT
WATER REQUIREMENTS
(acre feet)

	Total Demand						Consumptive Use							
Month	(1) Domestic In-house	(2) Pond&Pool Evap.	(3) Lawn Irrigation	(4) Crop Irrigation	(5) Livestock	(6) TOTAL	(7) Domestic In-house	(8) Pond Evap.	(9) Lawn Irrigation	(10) Crop Irrigation	(11) Livestock	(12)* TOTAL	(13)* Delayed Depletions	(14) Source of Aug/Replace
January	0.000	0.008	0.000	0.000	0.000	0.008	0.000	0.008	0.000	0.000	0.000	0.009	0.259	GNM
February	0.000	0.025	0.000	0.000	0.000	0.025	0.000	0.025	0.000	0.000	0.000	0.028	0.199	GNM
March	0.000	0.050	0.000	0.000	0.000	0.050	0.000	0.050	0.000	0.000	0.000	0.056	0.159	GNM
April	0.000	0.075	0.000	0.000	0.000	0.075	0.000	0.075	0.000	0.000	0.000	0.083	0.133	GNM
May	0.000	0.464	0.532	0.000	0.000	0.996	0.000	0.464	0.425	0.000	0.000	0.988	0.152	GNM
June	0.000	0.129	0.825	0.000	0.000	0.954	0.000	0.129	0.660	0.000	0.000	0.877	0.304	GNM
July	0.000	0.133	0.756	0.000	0.000	0.889	0.000	0.133	0.604	0.000	0.000	0.820	0.446	GNM
August	0.000	0.108	0.433	0.000	0.000	0.541	0.000	0.108	0.346	0.000	0.000	0.505	0.527	GNM
September	0.000	0.092	0.399	0.000	0.000	0.490	0.000	0.092	0.319	0.000	0.000	0.456	0.535	GNM
October	0.000	0.063	0.049	0.000	0.000	0.111	0.000	0.063	0.039	0.000	0.000	0.113	0.509	GNM
November	0.000	0.033	0.000	0.000	0.000	0.033	0.000	0.033	0.000	0.000	0.000	0.037	0.427	GNM
December	0.000	0.013	0.000	0.000	0.000	0.013	0.000	0.013	0.000	0.000	0.000	0.014	0.336	GNM
TOTALS -->	0.000	1.193	2.993	0.000	0.000	**4.186**	0.000	1.193	2.394	0.000	0.000	**3.986**	**3.986**	

Assumptions

(1)	NUMBER OF RESIDENCES	0		(5)	# of Livestock @ 11 gals/day	0
	# persons/residence	3.5				
	# gallons/person/day	100		(7)	% CU for Domestic/Commercial	15
(2)	Pond + Pool Evaporation	1.193	AF	(9)	% Lawn Irrig. Efficiency	80
	+ 0.36 AF avg initial pool fill in May.	0.250	Acres		Consumption of Irrig. (af/ac)	1.589
(3)	Sq. Ft. of Lawn Irrigated	65,340	1.5 Acres	(10)	% Crop Irrig. Efficiency	80
	Lawn Application Rate (af/ac)	1.986			Consumption of Irrig. (af/ac)	0.000
(4)	Acres of Crop Irrigated	0.00		(9-10)	Elevation (feet)	7935
	Crop Application Rate (af/ac)	0.000				

Area A-3
Proposed Well
Roaring Fork River
Individual Glover

*(12), (13) Total Includes 5% Transit Loss
10% from Green Mtn.

TABLE 1
EVAPORATION CALCULATION - HABUL POND AND POOL (7,935 feet)

		(1)		(2)		(3)		(4)		(5)
	SEO Monthly	Gross Lake Evaporation		Average Precipitation		Effective Precipitation		Net Evaporation		Total Pond Evaporation
Month	Distribution	(feet)	(inches)	(feet)	(inches)	(feet)	(inches)	(feet)	(inches)	(acre-feet)
January	1.0%	0.03	0.40	0.10	1.20	0.00	0.00	0.03	0.40	0.008
February	3.0%	0.10	1.20	0.09	1.03	0.00	0.00	0.10	1.20	0.025
March	6.0%	0.20	2.40	0.10	1.20	0.00	0.00	0.20	2.40	0.050
April	9.0%	0.30	3.60	0.10	1.24	0.00	0.00	0.30	3.60	0.075
May	12.5%	0.42	5.00	0.11	1.32	0.00	0.00	0.42	5.00	0.104
June	15.5%	0.52	6.20	0.11	1.30	0.00	0.00	0.52	6.20	0.129
July	16.0%	0.53	6.40	0.13	1.59	0.00	0.00	0.53	6.40	0.133
August	13.0%	0.43	5.20	0.14	1.71	0.00	0.00	0.43	5.20	0.108
September	11.0%	0.37	4.40	0.14	1.64	0.00	0.00	0.37	4.40	0.092
October	7.5%	0.25	3.00	0.12	1.38	0.00	0.00	0.25	3.00	0.063
November	4.0%	0.13	1.60	0.10	1.23	0.00	0.00	0.13	1.60	0.033
December	1.5%	0.05	0.60	0.10	1.25	0.00	0.00	0.05	0.60	0.013
	100.0%	**3.33**	**40.00**	**1.34**	**16.09**	**0.00**	**0.00**	**3.33**	**40.00**	**0.833**

(1) = Monthly distribution of gross annual evaporation rate in accordance with SEO General Criteria.
(2) = Monthly precipitation from local weather station.
(3) = Equal to 0 per State Policy No. 2004-3.
(4) = Net Evaporation = Column (1) - Column (3)
(5) = Column (4) x Open Water Surface Area (0.25 acres pond + pool) x Column (4) in feet.

10,890.00	square feet	Pond Volume =	0.93 AF	0.36 AF average fill Estimate in May for Pond and Pool.
0.25	acres	Pool Volume =	0.10 AF	

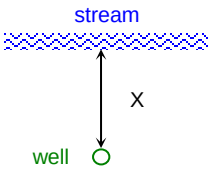
Well Pumping Depletion Model (WPDM)

1. Enter Project Description:

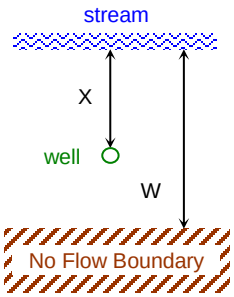
Greenbay Electronics, LLC
Individual Glover for Well (pending)

2. Select One of the Following Four Aquifer Options:

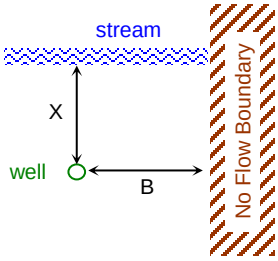
Option No. 1



Option No. 2



Option No. 3



Option No. 4

Boundary affects approximated by use of an effective stream depletion factor (sdf).

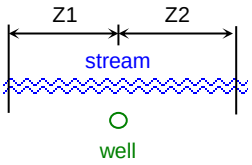
Option No. 2

3. Enter Physical Characteristics:

Clear Data: **Click to Clear Data**

Aquifer Transmissivity (gpd/ft):	50,000	(Required for Option Nos. 1, 2, or 3 only)
Aquifer Specific Yield:	0.20000	(Required for Option Nos. 1, 2, or 3 only)
Distance X (feet):	2,300	(Required for Option Nos. 1, 2, or 3 only)
Distance W (feet):	3,000	(Option No. 2 only)
Distance B (feet):		(Option No. 3 only)
sdf:		(Option No. 4 only)

For Option Nos. 1, 2, or 3, do you want to compute depletion for a segment of the stream? **No**



*Distance Z1 (feet):		(enter -99999 for negative infinity)
*Distance Z2 (feet):		(enter 99999 for infinity)

* Z1 can not exceed Z2, and Z2 can not exceed B.

Developed by Western Water Consulting, Inc.
Littleton, Colorado
303.794.9337
www.WesternWaterConsulting.com

Project Data Summary	
Aquifer Option:	Option No. 2
Transmissivity (gpd/ft):	50,000
Specific Yield:	0.20
Distance X (ft):	2,300
Distance W (ft):	3,000
Distance B (ft):	0
sdf:	0
Compute Depletion for Stream Segment?:	No
Distance Z1 (ft):	0
Distance Z2 (ft):	0

1. Clear All Previous Pumping Data and Depletion Results (including Item Nos. 3 and 4):

Click to Clear Previous Data & Results

2. Select Time Units:

3) Months

3. Enter Number of Pumping Periods: 360

Notes: a) Can not be greater than 3,600 periods.
b) execution time is faster if fewer pumping periods used.

4. Enter Starting Date: 1/1/2022

(e.g., enter 12/01/1950 for December 1, 1950)

5. Pumping Schedule and Depletion Results:

a) Below, enter the Pumping Rate (Col C, yellow cells) corresponding with the associated Pumping Period.

b) Cyclical Data Entry Option (not required):

Enter the number of pumping periods to cycle: 12
Enter the number of cycles: 10
Enter the pumping rates to cycle (Col C, yellow cells).
Click button to cycle data: Cycle Data

c) After the data have been entered, click on the button below to calculate the resulting stream depletion.

Calculate Stream Depletion

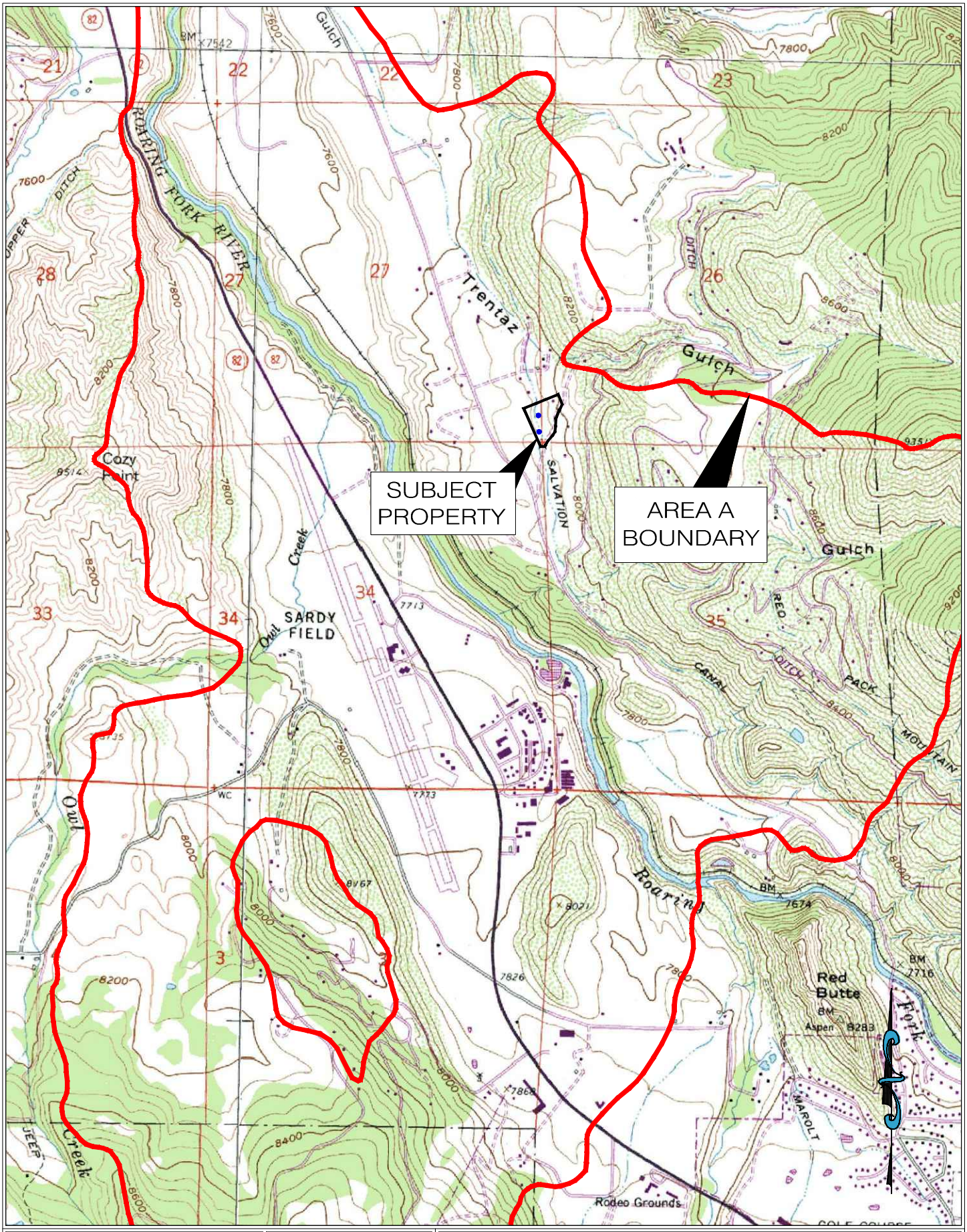
6. Graph:

Select Data to Graph - 4) Depletion Rate

Click Button to Create Graph - Create Graph

Pumping Schedule			Pumping Summary		Depletion Summary		
Date	Pumping Period (months)	Pumping Rate (gpm)	Volume Pumped This Period (acre-feet)	Cumul. Volume Pumped (acre-feet)	Depletion Rate (gpm)	Volume of Depletion (acre-feet)	Volume of Depletion This Period (acre-feet)
1/1/2022	1	0.07	0.01	0.01	0.01	0.00	0.00
2/1/2022	2	0.22	0.03	0.04	0.04	0.00	0.00
3/1/2022	3	0.41	0.05	0.09	0.10	0.01	0.01
4/1/2022	4	0.63	0.08	0.18	0.20	0.03	0.02
5/1/2022	5	7.21	0.97	1.15	1.07	0.10	0.07
6/1/2022	6	6.61	0.89	2.04	2.42	0.34	0.24
7/1/2022	7	5.98	0.80	2.84	3.37	0.73	0.39
8/1/2022	8	3.69	0.50	3.34	3.75	1.22	0.49
9/1/2022	9	3.44	0.46	3.80	3.73	1.72	0.50
10/1/2022	10	0.82	0.11	3.91	3.36	2.21	0.48
11/1/2022	11	0.28	0.04	3.95	2.71	2.61	0.41

Pumping Schedule			Pumping Summary		Depletion Summary		
Date	Pumping Period (months)	Pumping Rate (gpm)	Volume Pumped This Period (acre-feet)	Cumul. Volume Pumped (acre-feet)	Depletion Rate (gpm)	Volume of Depletion (acre-feet)	Volume of Depletion This Period (acre-feet)
12/1/2022	12	0.10	0.01	3.96	2.10	2.94	0.32
1/1/2023	13	0.07	0.01	3.97	1.62	3.19	0.25
2/1/2023	14	0.22	0.03	4.00	1.26	3.38	0.19
3/1/2023	15	0.41	0.05	4.05	1.03	3.53	0.15
4/1/2023	16	0.63	0.08	4.14	0.90	3.66	0.13
5/1/2023	17	7.21	0.97	5.11	1.60	3.80	0.15
6/1/2023	18	6.61	0.89	6.00	2.82	4.11	0.30
7/1/2023	19	5.98	0.80	6.80	3.67	4.55	0.44
8/1/2023	20	3.69	0.50	7.30	3.97	5.07	0.52
9/1/2023	21	3.44	0.46	7.76	3.90	5.60	0.53
10/1/2023	22	0.82	0.11	7.87	3.49	6.10	0.50
11/1/2023	23	0.28	0.04	7.91	2.81	6.53	0.42
12/1/2023	24	0.10	0.01	7.92	2.18	6.86	0.33
1/1/2024	25	0.07	0.01	7.93	1.67	7.12	0.26
2/1/2024	26	0.22	0.03	7.96	1.30	7.32	0.20
3/1/2024	27	0.41	0.05	8.02	1.06	7.47	0.16
4/1/2024	28	0.63	0.08	8.10	0.92	7.61	0.13
5/1/2024	29	7.21	0.97	9.07	1.61	7.76	0.15
6/1/2024	30	6.61	0.89	9.96	2.84	8.06	0.30
7/1/2024	31	5.98	0.80	10.76	3.68	8.50	0.44
8/1/2024	32	3.69	0.50	11.26	3.98	9.03	0.52
9/1/2024	33	3.44	0.46	11.72	3.91	9.56	0.53
10/1/2024	34	0.82	0.11	11.83	3.49	10.06	0.51
11/1/2024	35	0.28	0.04	11.87	2.81	10.49	0.42
12/1/2024	36	0.10	0.01	11.88	2.18	10.82	0.33



LRE WATER

0 1,000 2,000

Scale: 1"=2,000'

Figure 1: Greenbay Electronics, LLC

Water Allotment Contract Application
Basalt Water Conservancy District

Job No. 20033BWCD1-20(4)
Date: 07/05/2023

Rev. 03/13

APPLICATION FOR WATER ALLOTMENT CONTRACT
BASALT WATER CONSERVANCY DISTRICT

1. Applicant(s) Contact Information

   a. Name: Greenbay Electronics, LLC

   b. Mailing Address:
   63 Maple Avenue
   Greenwich, CT 06830

   c. Street Address:
   280 White Horse Springs
   Aspen, CO 81611

   d. Telephone Numbers: 704-999-1119

   e. Email Address: kimh112255@gmail.com

   f. If Applicant is represented by an Attorney, please provide the Attorney's contact information, including name, address, telephone, and email:

   Not Applicable

   g. Emergency Local Contact Information, including name, address, telephone, and email:

   Kim Habul, contact information same as above.

   h. Contact Information of property manager, caretaker, irrigator, system operator, or agent who should be provided a copy of this contract, including name, address, telephone, and email:

   To be determined.

2. Type of land use (development) proposed for water allotment contract (i.e. single family home, subdivision, gravel pit, etc.):

   Single Family Home at White Horse Springs Subdivision, Block 2, Lot 8.

3. Legal description and address of property on which District's water rights and/or contract water will be used (attach map and vesting deed with proof of ownership)*:
   See attached Deed.

4. Elevation of property: _____ 6–7,000 ft., __X__ 7–8,000 ft., _____ 8–9,000 ft.

5. Name and legal description of water supply diversion point(s):

   Name of Diversion Greenbay Well.

   Type of Diversion Well (e.g., a well, spring, ditch, pipeline, etc.)

   Legal Description: SE Quarter, SE Quarter, Section 27, Township 9 South, Range 85 West, of the 6th Principal Meridian, at a point UTM NAD83 Z13: 4344454mN; 339478m E.

   If diversion point is a well, please provide the Well Permit No. To Be Drilled.

   Is the well operational/active? _____ Yes, X No

   Is there currently an operating well meter? _____ Yes, X No

   Notice: A valid well permit with operating well meter will be required under the contract.

6. Legal Water Supply: (please check one)

   X Applicant requests consideration by the District to be included in the District's Umbrella Plan for Augmentation decreed in Case No. 02CW77.*

   *Note: Certain applicants may qualify to be included in the District's Umbrella Plan at the District's discretion. In order to be included in the District's Umbrella Plan, the Applicant's depletions must occur within the District's defined "Area A" and the Applicant must reimburse the District its *pro rata* share of the District's expenses in obtaining the Umbrella Plan decree. Costs of reimbursement are contingent upon location and intensity of the uses, and range from $1,200 for contractees with less than 2 units (EQRs) in certain areas, to $5,000 for more than 8 EQRs in Area A-3 (generally the Roaring Fork drainage above its confluence with the Fryingpan Rivers).

   _____ Applicant will obtain its own plan for augmentation by applying to the Water Court, Water Division 5 within 2 years of this application. If Applicant has already applied for its own change/approval of plan for augmentation, the Water Court Case Number is: _____.

7. Proposed waste water treatment system: (please check)

____ Tap to central waste water treatment facility
__X__ Septic tank/leachfield system
____ Evapotranspiration system
____ Other:

8. Proposed use of water (please check)

__X__ Domestic/Municipal (single family home(s), duplex(s), condominium(s), mobile home(s), apartment). Please complete page four of this application.
____ Commercial (hotel, office, warehouse, restaurant, bar, retail). Please complete page five of this application.
____ Industrial (gravel pit, manufacturing). Please complete page six of this application.
____ Agricultural (crop irrigation, stock watering). Please complete page seven of this application.

Date on which the county or other applicable governmental entities approved the land use for which you seek legal water service: __pending____. (Note: Copy of the Resolution of other documentation evidencing such approval should be submitted with application.)

9. What other water rights are associated with or used on the property?

Applicant owns shares in the Salvation Ditch for irrigation.

10. What other uses of water occur on the property?

Irrigation under the Applicant's Salvation Ditch water rights.

Please complete the section below if you selected domestic/municipal use on Page 3, No. 8

DOMESTIC/MUNICIPAL WATER USES

In-House

Single family residential home(s) Number of Units: _____

Duplex(s) Number of Units: _____

Condominium(s) Number of Units: _____

Apartment(s) Number of Units/Rooms: _____

Mobile Home(s) Number of Units: _____

Irrigation (lawns, parks, open space)

Total area to be irrigated _____ Sq. Ft. or 1.5 Acres

Type of irrigation system (please check)

X Sprinkler

_____ Flood (irrigation ditch)

Domestic stock watering (cattle, horses)

Number of animals:

Period of use (months):

Other domestic/municipal uses not listed:

Proposed Pond – 0.23-acre open water surface area and approximately 0.93 AF of volume. Pond is located in the SE1/4 SE1/4 Section 27, T9S, R85W, 6th P.M. at a point UTM NAD83 Z13 4344376.0m N, 339481.3m E.

Swimming Pool – approximately 800 square feet with a volume of approximately 0.10 AF.

VERIFICATION

STATE OF Connecticut)
) ss.
COUNTY OF Fairfield)

I, Kim Habul (name of Applicant or Applicant's duly authorized representative), being first duly sworn, upon oath, depose and state as follows:

1) I am the Applicant or a duly authorized officer, manager, agent or attorney-in-fact for the Applicant for this Application for Water Allotment Contract;
2) I have read and know the contents of this Application;
3) The information contained herein is an accurate and complete description of the Applicant's intended use of the Basalt Water Conservancy District's water rights;
4) The Applicant acknowledges that the accuracy and truth of all statements in this Application are conditions of approval of this Application by the Basalt Water Conservancy District and of the Contract to be made pursuant to such approval; and
5) I acknowledge that this application shall be subject to the District's Water Allotment Contract as approved and issued by the District.

Date: 6/14/2023

By: Kim J Habul

Print Name: Kim Habul

Title: CEO

Subscribed and sworn before me this 14th day of June, 2023 by Jennifer Leonardo

Witness my hand and seal.

Notary Public

My commission expires: 11/30/2027

Jennifer Leonardo
Notary Public, State of Connecticut
My Commission Expires 11/30/2027