




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: DECEMBER 13, 2023
File: APPLICATION

Applicant Name: SARAH MOORE

Type of Use: Domestic X Commercial
 Industrial Agricultural

Amount: 2.6 AF 0.039 cfs 17.4 gpm

Location: Area A A-4 Area B Inclusion
 County: GARFIELD Contiguous:
 BWCD Division: 4

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:** \$1,200

This application is to cover depletions associated with a single family dwelling, ADU, 1,000 square feet of lawn and landscape irrigation and pond evaporation on a lot owned by the Sara Moore 2001 Trust (Applicant). Total depletions are estimated at 2.6 acre-feet (AF) as shown on the attached calculation sheets.

The property is located in the SW1/4 NE1/4 of Section 35, Township 7 South, Range 88 West, of the 6th P.M. as shown in **Figure 1** (attached). The physical address of the property is 335 Willow Lane, Carbondale (Garfield County Parcel ID 239335100009).

Diversions associated with the in-house use and irrigation is from an existing well (permit no. 33345) located in the SW1/4 NE1/4 of Section 35, Township 7 South, Range 88 West, of the 6th P.M. at a point 2,830 feet from the South section line and 2,130 feet from the East section line (UTM NAD 83 Z13: 311557m E, 4363833 N). The proposed pumping rate from the pond is 15 gpm. The Applicant will need to provide the District with a copy of the -F well permit once obtained from the Division of Water Resources.

The Applicant also has rights in the Willow Springs and Pond which was made absolute in W-1837. The water flows from the springs through a ditch. Beneficial uses from the pond include irrigation, fish culture, and livestock water. While the beneficial uses are Green Mountain HUP protected, the evaporative losses from the pond are not. As such, the Applicant is augmenting the evaporative losses from the pond which has an estimated surface area of 0.58 acres. The maximum month evaporative loss is 2.4 gpm.

Water User :	Sarah Moore	
Analysis Date :	December 13, 2023	
District Area:	A-4	
Source Series:	4	
Maximum Demand:	17.4	0.039
	(GPM)	(CFS)

BASALT WATER CONSERVANCY DISTRICT
WATER REQUIREMENTS
(acre feet)

Month	Total Demand						Consumptive Use						(13)* Delayed Depletions	(14) Source of Aug/Replace
	(1) Domestic In-house	(2) Pond 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		
January	0.058	0.065	0.000	0.000	0.000	0.124	0.009	0.065	0.000	0.000	0.000	0.082	0.082	GNM
February	0.053	0.076	0.000	0.000	0.000	0.129	0.008	0.076	0.000	0.000	0.000	0.093	0.094	GNM
March	0.058	0.120	0.000	0.000	0.000	0.178	0.009	0.120	0.000	0.000	0.000	0.143	0.142	GNM
April	0.056	0.196	0.002	0.000	0.000	0.254	0.008	0.196	0.002	0.000	0.000	0.229	0.228	GNM
May	0.058	0.261	0.011	0.000	0.000	0.330	0.009	0.261	0.009	0.000	0.000	0.310	0.304	GNM
June	0.056	0.315	0.014	0.000	0.000	0.386	0.008	0.315	0.011	0.000	0.000	0.372	0.369	GNM
July	0.058	0.326	0.013	0.000	0.000	0.398	0.009	0.326	0.011	0.000	0.000	0.384	0.383	GNM
August	0.058	0.294	0.008	0.000	0.000	0.360	0.009	0.294	0.007	0.000	0.000	0.343	0.346	GNM
September	0.056	0.218	0.007	0.000	0.000	0.281	0.008	0.218	0.006	0.000	0.000	0.258	0.259	GNM
October	0.058	0.152	0.003	0.000	0.000	0.213	0.009	0.152	0.002	0.000	0.000	0.181	0.184	GNM
November	0.056	0.087	0.000	0.000	0.000	0.143	0.008	0.087	0.000	0.000	0.000	0.106	0.109	GNM
December	0.058	0.065	0.000	0.000	0.000	0.124	0.009	0.065	0.000	0.000	0.000	0.082	0.083	GNM
TOTALS -->	0.686	2.175	0.059	0.000	0.000	2.920	0.103	2.175	0.047	0.000	0.000	2.583	2.583	

Assumptions						
(1)	NUMBER OF RESIDENCES	1.75		(5)	# of Livestock @ 11 gals/day	0
	# persons/residence	3.5		(7)	% CU for Domestic/Commercial	15
	# gallons/person/day	100				
(2)	Pond Evaporation (0.58 acres)	2.175	AF	(9)	% Lawn Irrig. Efficiency	80
					Consumption of Irrig. (af/ac)	2.057
(3)	Sq. Ft. of Lawn Irrigated	1,000		(10)	% Crop Irrig. Efficiency	80
	Lawn Application Rate (af/ac)	2.571			Consumption of Irrig. (af/ac)	0.000
(4)	Acres of Crop Irrigated	0.00		(9-10)	Elevation (feet)	6195
	Crop Application Rate (af/ac)	0.000				

**Area A-4
Roaring Fork River
Type C Well
Pond is supplied by surface springs
tributary to RFR.**

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

**TABLE 1
EVAPORATION CALCULATION - Sarah Moore (6,195 feet)**

Month	SEO Monthly Distribution	(1) Gross Lake Evaporation		(2) Average Precipitation		(3) Effective Precipitation		(4) Net Evaporation		(5) Total Pond Evaporation
		(feet)	(inches)	(feet)	(inches)	(feet)	(inches)	(feet)	(inches)	(acre-feet)
January	3.0%	0.11	1.35	0.10	1.20	0.00	0.00	0.11	1.35	0.065
February	3.5%	0.13	1.58	0.09	1.03	0.00	0.00	0.13	1.58	0.076
March	5.5%	0.21	2.48	0.10	1.20	0.00	0.00	0.21	2.48	0.120
April	9.0%	0.34	4.05	0.10	1.24	0.00	0.00	0.34	4.05	0.196
May	12.0%	0.45	5.40	0.11	1.32	0.00	0.00	0.45	5.40	0.261
June	14.5%	0.54	6.53	0.11	1.30	0.00	0.00	0.54	6.53	0.315
July	15.0%	0.56	6.75	0.13	1.59	0.00	0.00	0.56	6.75	0.326
August	13.5%	0.51	6.08	0.14	1.71	0.00	0.00	0.51	6.08	0.294
September	10.0%	0.38	4.50	0.14	1.64	0.00	0.00	0.38	4.50	0.218
October	7.0%	0.26	3.15	0.12	1.38	0.00	0.00	0.26	3.15	0.152
November	4.0%	0.15	1.80	0.10	1.23	0.00	0.00	0.15	1.80	0.087
December	3.0%	0.11	1.35	0.10	1.25	0.00	0.00	0.11	1.35	0.065
	100.0%	3.75	45.00	1.34	16.09	0.00	0.00	3.75	45.00	2.175

(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 (0.58 acres) x Column (4) in feet.

25,264.80 square feet

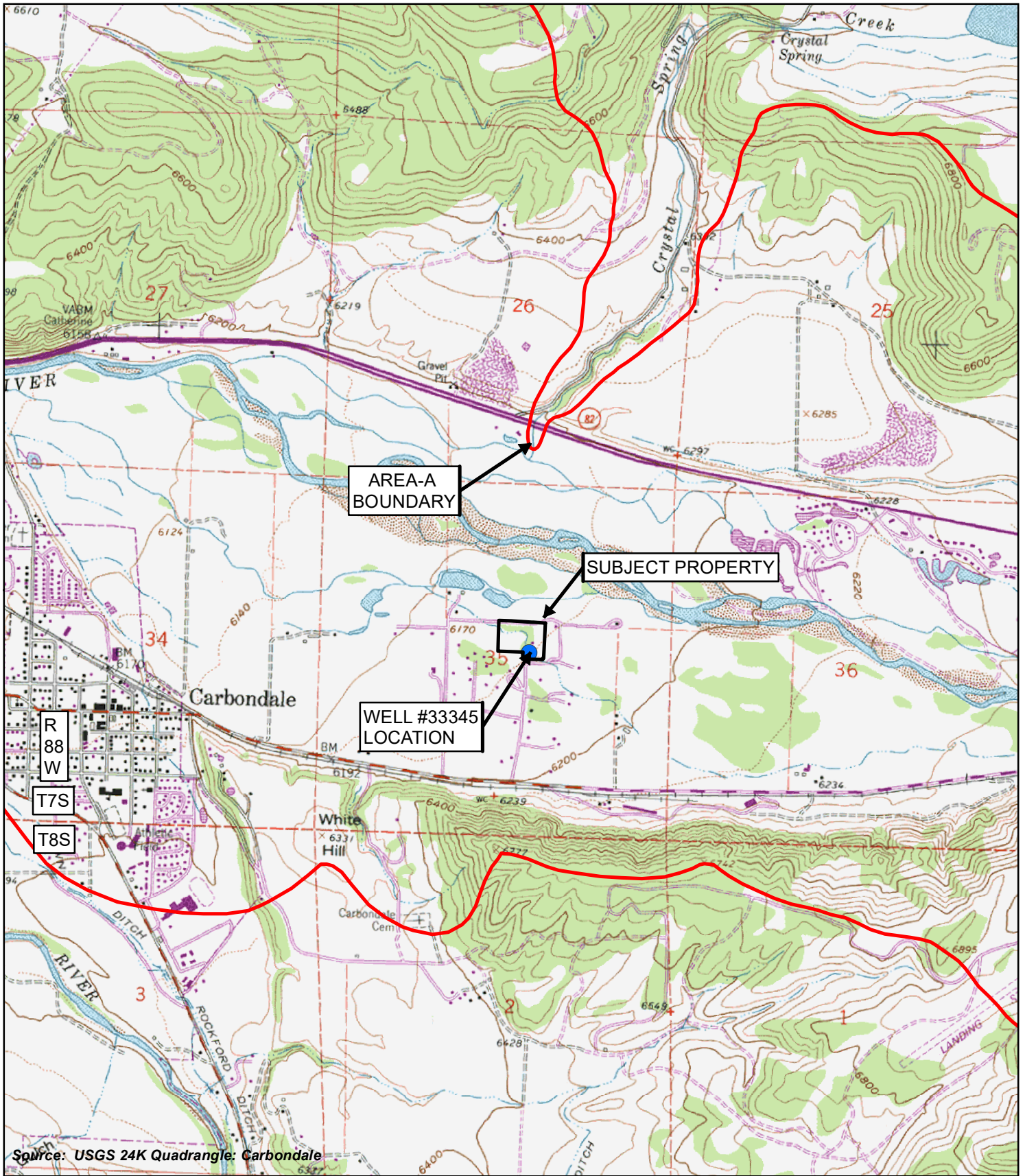
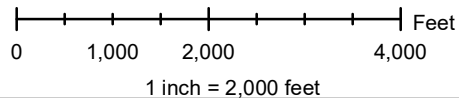


Figure 1: Moore, Sarah
Water Allotment Contract Application
Basalt Water Conservation District



Date: 2023-12-11
 File: 20033BWCD1-23(4)
 Drawn: MDH
 Approved: EFM

**APPLICATION FOR WATER ALLOTMENT CONTRACT
BASALT WATER CONSERVANCY DISTRICT**

1. Applicant(s) Contact Information

a. **Name: Sarah Moore**

b. **Mailing Address: 335 Willow Lane Carbondale, CO 81623**

c. **Street Address: 335 Willow Lane Carbondale, CO 81623**

d. **Telephone Numbers: 970-379-6558**

e. **Email Address: sarafina1212@gmail.com**

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

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

Anja Simpson 970-379-3148 ajsimpson432@gmail.com

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:**

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

Single Family Home and ADU

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)*:

Section: 35 Township: 7 Range: 88 TR IN LOT 8

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

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

Name of Diversion _____.

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

Legal Description: _____ Quarter, _____ Quarter, Section 35, Township 7 N / S,
Range 88 E / W, of the 6th Principal Meridian, at a location 2830 feet
from the _____ Section line and 2130 feet from the _____ Section line.

UTM Coordinates (NAD 83):

Northing: _____.

Easting: _____.

_____ Zone 12 / _____ Zone 13.

If diversion point is a well, please provide the Well Permit No. 33345.

Is the well operational/active? Yes, _____ No

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

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

6. Legal Water Supply: (please check one)

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 Fryngpan 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
- Septic tank/leachfield system
- ____ Evapotranspiration system
- ____ Other:

8. Proposed use of water (please check)

- 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?
none

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

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: 1 + 1 ADU

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 1000 Sq. Ft. or _____ Acres

Type of irrigation system (please check)

 x Sprinkler

_____ Flood (irrigation ditch)

Domestic stock watering (cattle, horses)

Number of animals: N/A

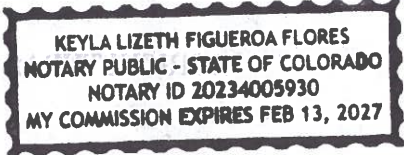
Period of use (months): _____

Other domestic/municipal uses not listed:

pond - water w/ sprinkler
irrigate approx. 2 acres
FROM WILLOW SPRINGS AND POND (N.I.C.)

VERIFICATION

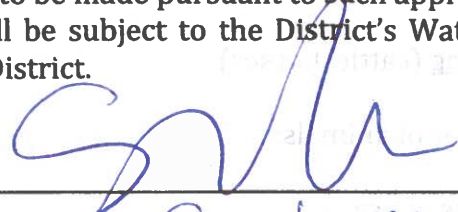
STATE OF Colorado)
COUNTY OF Garfield)



I, Sarah Moore (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: 11/15/23

By: 
Print Name: Sarah Moore
Title: owner

Subscribed and sworn before me this 15 day of November, 2023 by Sarah Moore.

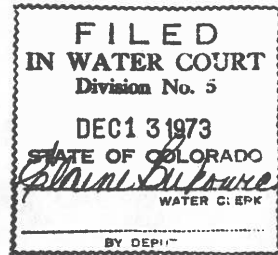
Witness my hand and seal.


Notary Public

My commission expires: Feb 13, 2027.

Application No. W-1837

IN THE DISTRICT COURT IN AND
FOR WATER DIVISION NO. 5
STATE OF COLORADO



IN THE MATTER OF THE APPLICATION)
FOR WATER RIGHTS OF JOHN H. COPELAND)
AND EMMA LEE COPELAND)
IN THE ROARING FORK RIVER)
IN GARFIELD COUNTY)

RULING OF
REFEREE

The above entitled matter having been referred to the undersigned as Water Referee for Water Division No. 5, State of Colorado, by the Water Judge of said Court on the 16th day of April, 1973, in accordance with Article 21 of Chapter 148, Colorado Revised Statutes 1963, as amended (Chapter 373 S.L. Colo. 1969), known as The Water Rights Determination and Administration Act of 1969.

And the undersigned Referee having made such investigations as are necessary to determine whether or not the statements in the application are true and having become fully advised with respect to the subject matter of the application does hereby make the following determination and ruling as the Referee in this matter, to-wit:

1. The statements in the application are true.
2. The name of the structure is Willow Springs and Pond.
3. The names of claimants and address is John H. Copeland and Emma Lee Copeland, PO Box 276, Carbendale, Colorado.
4. The source of the water is from springs tributary to the Roaring Fork River.
5. The spring is located in Lot 12, Section 35, Township 7 S., Range 88 West of the 6th PM, at a point whence the witness corner for the South Quarter Corner of said Section 35 bears West 1100 feet and South 1885 feet. Said Witness Corner is 660 feet North of the true Quarter Corner.
6. The use of the water is fish culture, irrigation and livestock water.
7. The date of initiation of appropriation is June, 1968.
8. The total capacity of reservoir is 3 acre feet.
9. The amount of water claimed is 0.75 cubic foot per second of time.
10. The water was first applied to the above beneficial uses in June, 1968.

11. The water is used to irrigate 8 acres of the applicant's land.
12. The water flows from the springs through a ditch to a fish pond having a dam 4 feet high, 150 feet long and having a capacity of 3 acre feet.
13. The overflow from the pond flows to the Roaring Park River.

The Referee does therefore conclude that the above-entitled application should be granted and that 0.75 cubic feet of water per second of time is hereby awarded to the Willow Springs and 3 acre feet of water is hereby awarded to the Willow Spring Pond, for fish culture, irrigation and livestock water uses, with appropriation date of the 30th day of June, 1968, absolute and unconditional; subject, however, to all earlier priority rights of others and to the integration and tabulation by the Division Engineer of such priorities and changes of rights in accordance with law.

It is accordingly ORDERED that this ruling shall be filed with the Water Clerk and shall become effective upon such filing, subject to judicial review Pursuant to Section 148-21-20 CRS 1963 as amended (1971).

It is further ORDERED that a copy of this ruling shall be filed with the appropriate Division Engineer and the State Engineer.

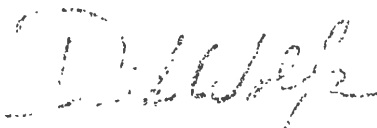

Done at the City of Glenwood Springs, Colorado, this 13th day of DECEMBER, 1973.

BY THE REFEREE:

No protest was filed in this matter. The foregoing ruling is confirmed and approved, and is made the Judgment and Decree of this court.

Dated: March 14, 1974
[Signature]
Water Judge

[Signature]
Water Referee
Water Division No. 5
State of Colorado

Form No. GWS-11 11/2011	COLORADO DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 Sherman St., Ste 821, Denver, CO 80203 Main: (303) 866-3581 Fax: (303) 866-2223 dwrpermitsonline@state.co.us	For Office Use Only <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> RECEIVED JAN 03 2014 WATER RESOURCES STATE ENGINEER COLO. </div>
CHANGE IN OWNER NAME/ADDRESS CORRECTION OF THE WELL LOCATION		
Review instructions on the reverse side prior to completing the form.		
Name, address and phone of person claiming ownership of the well permit:		
Name(s): <u>SIMPSON, SARAH MOORE 2001 TRUST</u>		
Mailing Address: <u>335 WILLOW LANE</u>		
City, St. Zip: <u>CARBONDALE, CO 81623</u>		
Phone <u>9709632037</u> Email Address: <u>sarafina1212@gmail.com</u>		
This form is filed by the named individual/entity claiming that they are the owner of the well permit as referenced below. This filing is made pursuant to C.R.S. 37-90-143.		
WELL LOCATION: Well Permit Number: <u>33345</u> Receipt No.: <u>9113990</u> Case Number: _____ County <u>GARFIELD</u> Well Name or # (optional) _____ <u>0335 WILLOW LN (aka COUNTY RD 472)</u> <u>CARBONDALE</u> <u>CO</u> <u>81623</u> (Address) (City) (State) (Zip) <u>SW 1/4 of the NE 1/4, Sec. 35, Twp. 7</u> <input type="checkbox"/> N. or <input checked="" type="checkbox"/> S., Range <u>88</u> <input type="checkbox"/> E. or <input checked="" type="checkbox"/> W., <u>6th</u> P.M.		
Distance from Section Lines: <u>2830</u> Ft. From <input type="checkbox"/> N. or <input checked="" type="checkbox"/> S., <u>2130</u> Ft. From <input checked="" type="checkbox"/> E. or <input type="checkbox"/> W. Line.		
OR: GPS well location information in UTM format. You must check GPS unit for required settings as follows: Format must be UTM, <input type="checkbox"/> zone 12 or <input type="checkbox"/> zone 13; Units must be meters; Datum must be NAD83; Unit must be set to true north. Easting <u>311557</u> Northing <u>4363833</u>		
Subdivision Name _____ Lot _____, Block _____, Filing/Unit _____		
The above listed owner(s) say(s) that he, she (they) own the well permit described herein. The existing record is being amended for the following reasons: <input checked="" type="checkbox"/> Change in name of owner <input type="checkbox"/> Change in mailing address <input type="checkbox"/> Correction of location for exempt wells permitted prior to May 8, 1972 and non-exempt wells permitted before May 17, 1965. Please see the reverse side for further information regarding correction of the well location.		
I (we) claim and say that I (we) (am) (are) the owner(s) of the well permit described above, know the contents of the statements made herein, and state that they are true to my (our) knowledge.		
Sign or enter the name(s) of the new owner(s) Sarah Moore	If signing print name & title SARAH MOORE, OWNER	Date (mm/dd/yyyy) 12/23/2013
It is the responsibility of the new owner of this well permit to complete and/or sign this form. If an agent is signing or entering information please see instructions.		
Please send confirmation of acceptance of change in owner name/address via: <input checked="" type="checkbox"/> Email address listed above <input type="checkbox"/> US Mail		
 _____ State Engineer	By  _____ By	ACCEPTED AS A CHANGE OF OWNERSHIP AND/OR MAILING ADDRESS <u>1-6-14</u> _____ Date