

Bryan/Morris Ranch

2024

Family Grown Hay and Livestock
Since 1856

Jim Morris



California State Water Resources Control Board
1001 I St.
Sacramento, CA 95814

Re: 2024 Irrigation Plan (Local Cooperative Solution) in response to Scott-Shasta
Drought Emergency Regulation

Deputy Director:

Introduction

This request is being submitted pursuant to Cal. Code Regs., tit. 23 ss 857-875.9 of the Scott-Shasta Drought Emergency Regulation (Regulation).

The Bryan/Morris Ranch is an adjudicated groundwater user for irrigated agriculture (see attached pages from the Scott River Adjudication, Decree No. 30662 (Adjudication)).

Bryan/Morris Ranch intends to meet the criteria of 30 percent net reduction of water use as set forth in the Regulation through the use of several practices contained in this request.

Bryan/Morris Ranch intends to work with the Siskiyou Resource Conservation District (Siskiyou RCD) as the Coordinating Entity.

Bryan/Morris Ranch Historical Conservation Efforts

The Bryan/Morris Ranch has been passed down generationally and operated by family members since it was purchased from the United States Government in 1856. Each generation has made improvements to the operation to enhance productivity and sustainability. The land today is more productive than it has ever been.

Starting in the 1920s and into the 1930s, agriculturalists across the nation began to recognize the importance of farm ground conservation. Much of this work began with soil conservation, but soon developed into conservation efforts for all of the resources required to farm sustainably (water, native plant and animal species, etc.). Members of the Bryan family were involved from the inception of these efforts and are still actively involved in resource conservation to this day.

This ranch began to irrigate crops on a large scale around 1926 with the opening of the Scott Valley Irrigation District (SVID) Ditch. Currently, 270 arable acres are in the District and may be irrigated with surface water from the ditch.

Beginning in the 1970s, growers were encouraged by government agencies to convert as much farmland as possible from flood to sprinkler irrigation in the name of conservation, efficiency, and productivity. In the past, (and likely in the future) highly productive farming has been considered a patriotic duty.

On January 30, 1980, the Scott River Adjudication, Decree No.30662, was approved by the Superior Court for Siskiyou County. The Bryan Ranch was granted rights to groundwater sufficient to irrigate 411 acres in schedule C of the adjudication, with the stipulation that "Claimants listed in Schedule C are allotted that amount of water, by subirrigation or by pumping from ground water interconnected to the with the Scott River, reasonably required to irrigate the acreage shown opposite their names. Rights for lands in Schedule C are not related to rights in Schedule D (Forest Service water right is in D) and may be exercised independently from rights in schedules B, D and E and those set forth in Paragraphs 45 and 46 (Forest Service water rights)" (Adjudication).

For the last seven years, the Bryan/Morris Ranch has participated in groundwater recharge research. Groundwater recharge research involves applying surface water

from the river into a field, then gauging how long it takes to get back into the river as well as where it reenters. If this research shows that the water moves through the ground slowly enough, groundwater recharge could be a viable and important tool to help provide late season high quality water for returning fish (Tolley, et.al.). This winter we recharged around 500 acre feet of water on the ranch.

2021 Irrigation and Crops

Bryan/Morris Ranch irrigates just over 400 acres (411 in 2021) with groundwater that is supplied by four wells. Three of these wells are designated by the Adjudication as being inside of the interconnected zone and one is outside of it. The well outside of the interconnected zone has not historically required reporting and is not a highly productive producing well (100 gpm early season and is rarely run).

Since 2012, the three wells inside the interconnected zone have required yearly reporting to the Water Board (Water Code section 5104 (a), Supplemental Statement of Water Diversion and Use). The amount of water pumped from each of the wells for the last ten years has been reported yearly. The statement ID number assigned by the Water Board for the wells is S010231, S010232, and S010233.

Well S010231 is west of Scott River and supplies water for a 70 acre pivot and three six acre corners irrigated with handline and irrigation big guns. The reported annual amount that is pumped from this well has been around 210 ac-ft.

Wells S010232 and S010233 (along with the small well) are on the east side of the River and are connected to a mainline system that has the ability to irrigate any part of 325 acres farmed on the east side of the river. The reported annual amount that is pumped from these wells has been around 610 ac-ft and 340 ac-ft, respectively.

270 Acres of this ranch are inside of the Scott Valley Irrigation District. Any of this land may be irrigated with district surface water. For the last several years, about 30 acres have been irrigated with district water, but due to unreliability (from curtailment of the District), sprinkler irrigation from groundwater has been installed and is used on all of these fields. Water from the District is often curtailed early in dry years. These pastures have equipment for ground water irrigation (sprinkler irrigation) that is used after the District water is gone. Surface water will not be used in lieu of groundwater to meet the 30% reduction target.

A total of around 1260 acre feet of water was used in 2021 to irrigate around 411 acres of crops, which amounts to just under three acre feet of water per acre of land irrigated. This amount of applied water is what is expected for alfalfa grown in the intermountain region (Hanson).

In 2021 the following crops were grown and irrigated:

<u>Crop</u>	<u>Acres</u>	<u>Acre-feet used</u>
Alfalfa	311	933
Grass/alfalfa	51	153
Pasture	31	93
Grain	18	27
Total water used:		1,206 acre-feet

Depending on the amount of winter and spring rainfall, irrigation will typically begin around the middle of March (later in a wet spring) and will continue into the middle of October (sooner in a wet fall) on all alfalfa, grass, and pasture fields.

Grain for hay, which is harvested in early July, is not irrigated after harvest. Kentucky Bluegrass for seed was grown in 2022 and was found to be a water conservation crop. An additional 70 acres was planted in 2023. This crop is also scheduled to be harvested in July and will require very little water after harvest (less than 6"). These crops therefore require roughly half of the water that alfalfa, grass, and pasture (2021 crops) use, and most of that water is applied early in the season.

Another water conservation crop planted for 2024 is 40 acres of carrots for seed. This crop will be irrigated with drip irrigation and will use 12' or less for the season.

**Proposed 2024 Water Conservation Measures:
Crops**

For the 2024 season the following crops have been planted and will be irrigated:

<u>Crop</u>	<u>Acres</u>	<u>Acre-feet used</u>
Alfalfa	170	340
Grass/alfalfa	0	0
Pasture	31	55
Grain-hay	45	45
Grass for seed	115	200
Carrots for seed	40	40
(Fallow)	10	0
Total water used:		680 acre-feet

The crops planted for the 2024 season will reduce acres requiring three acre-feet/acre from 393 to 170. The grain and grass seed and carrots should require half of that, or about 18 inches over the season. This change in crops will provide for a 20% reduction in water use compared to 2021.

Irrigation Efficiency Measures

Low Elevation Sprinkler Application (LESA) will be installed on 285 acres that are under pivots. LESA application has been shown to reduce the amount of water that needs to be applied over the season by up to 20%, (Peters). Irrigation applications for 2022 will be 1" per pass as opposed to 1.25" that was applied in 2021. This will be done whether the LESA system is installed or not. Depending on any rainfall events, which may reduce application, March and September will receive two 1" passes. April, May, June, July and August will each receive four 1" passes. If LESA is not installed irrigations will still be kept at 1" per pass.

Ending irrigation early means that alfalfa acres will be reduced from 3 to 2 acre-feet of water/acre. There are 285 acres under pivots on this ranch. 115 pivot acres will be in grass seed in 2024 that will require 1.5 acre-feet/acre.

148 acres at 2 acre-feet/acre = 296 acre-feet/season.

115 acres at 1.5 acre-feet/acre = 172 acre-feet/season.

468 acre-feet at 20% reduction = 93.6 acre-feet reduced. This practice will provide a 12% reduction in water applied on the ranch in 2024 compared to 2021.

Flow control (7 gpm) nozzles were installed on all wheel lines for 2022. Water savings from this practice is between 15% and 35% depending on the elevation of the wheelline.

Soil moisture monitoring and rainfall/irrigation monitoring devices were installed this winter. This will allow minimization of irrigation based on specific crop needs. This conservation measure is difficult to quantify and will not be applied to the calculation.

Irrigation Forbearance

The following typically irrigated land will be left dry in 2024:

Corners of West side pivot	18 acres	Herbicide
Corner Wheelines in big pivot	16 acres	Cut once (alfalfa)
½ of sheep pasture	5 acres	Graze dry
Corners in field #6 pivot	8 acres	Cut once (alfalfa)
Total to be left dry in 2024	47 acres	
Acre-feet of water not applied	141 acre-feet	

End most irrigation September 15 (30 days early).

Ending irrigation early means that alfalfa, grass and pasture acres will be reduced to 2 acre-feet of water/acre. There are 238 acres under pivots on this ranch.

148 acres at .5 acre-feet/acre = 74 acre-feet/season.

This forbearance of irrigation will provide a 18% reduction in water use compared to 2021.

Conclusion

At least three practices will reduce water consumption in 2024 as compared to 2021:

- Changing crops will reduce consumption by 20%.
- Irrigation efficiency will reduce consumption by 10%.
- Forbearance of irrigation on some land and at the end of the season will reduce consumption by 10%.

The cumulative effect of these three practices should reduce consumption of irrigation water by around 30%.

The Siskiyou RCD, as the coordinating entity, will use their worksheet to make at least weekly inspections to ensure conservation measures are being implemented.

Works Cited

Attwater, et al. *Scott River Adjudication. Decree No. 30662*. 1978. Retrieved from:

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Hanson, Blaine. *Irrigating Alfalfa in California with Limited Water Supplies*. Retrieved from:

http://ucmanagedrought.ucdavis.edu/Agriculture/Crop_Irrigation_Strategies/Alfalfa

Peters, Troy et.al. *Low Energy Precision Application (LEPA) and Low Elevation Spray Application (LESA) Trials in the Pacific Northwest*.

<https://extension.oregonstate.edu/sites/default/files/documents/33601/lepa-lesa-pnw-stroh-revisions.pdf>

Tolley, D., L. Foglia, T. Harter. *Sensitivity Analysis and Calibration of an Integrated Hydrologic Model in an Irrigated Agricultural Basin With a Groundwater-Dependent Ecosystem*.

2019. Retrieved from: doi:10.1029/2018WR024209.



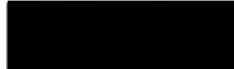
Siskiyou County Agriculture Department
 525 S Foothill Dr
 Yreka, CA 96097

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 Fax 530-842-6690

email cgorden@co.siskiyou.ca.us

RESTRICTED MATERIALS PERMIT: 47-21-473064R

Operator: BRYAN-MORRIS RANCH



Agent: JIM MORRIS

473064R-2021-Version: 1

County District #: HQ

Issued on: 5/11/2021

Valid as of: 4/1/2021

Expires on: 2/28/2022



Type of Use: Agricultural Use

Pesticide Possession: Possession and Use

Permit Duration: Seasonal

Notices Of Intent required 24 hours prior to application of pesticide containing restricted materials

Permit Conditions: 1

See condition detail for code descriptions.

Regulatory Notes:

Paraquat requires a licensed applicator.

The applicator must also have a current US EPA Paraquat Training Certificate when using paraquat labeled with this requirement.

I understand that this permit does not relieve me from liability for any damages to any persons or property caused by the use of these pesticides. I waive any claims of liability for damages against the County Department of Agriculture based on List current as of 05/11/2021 - check with the County Agricultural Commissioner's Office for an updated list.

SITES LIST

Site	Location Site Name Commodity Name/Code	Quantity	District	Section (MTRS)
1-01	ISLAND RD PIVOT/RR Alfalfa ORCHARDGRASS / 22028-0	70 ACRES	SV	M42N09W11
Pesticide #s:	609 (NON-RESTRICTED USE), 606 (2,4-D), 200 (DICAMBA), 434 (STRYCHNINE), 626 (ZINC PHOSPHIDE)			
1-01A	ISLAND RD DRYLAND/PIVOT CORNER FALLOWED AG / 66000-1	6 ACRES	SV	M42N09W11
Pesticide #s:	609 (NON-RESTRICTED USE), 606 (2,4-D) HANDLINE + GWS			
1-01B	ISLAND RD DRYLAND/PIVOT CORNER FALLOWED AG / 66000-1	6 ACRES	SV	M42N09W10
Pesticide #s:	609 (NON-RESTRICTED USE), 606 (2,4-D) HANDLINE + GWS			

BRYAN-MORRIS RANCH

Expires: 2/28/2022

1-01C	EASTSIDE RD DRYLAND/SW PIVOT CORNER FALLOWED AG / 66000-1	6 ACRES	SV	M42N09W11
Pesticide #s:	609 (NON-RESTRICTED USE), 636 (2,4-D) HANDLING + GWS			
1-02	EASTSIDE RD 1/4 PIVOT/WHEEL LINE ALFALFA / 23001-0	60 ACRES	SV	M42N09W11
Pesticide #s:	609 (NON-RESTRICTED USE), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE), 1601 (PARAQUAT)			
1-03	EASTSIDE RD WHEEL LINE ALFALFA / 23001-0	10 ACRES	SV	M42N09W11
Pesticide #s:	609 (NON-RESTRICTED USE), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE), 1601 (PARAQUAT)			
1-04	EASTSIDE RD WHEEL LINE/1/4 PIVOT ALFALFA / 23001-0	70 ACRES	SV	M42N09W12
Pesticide #s:	609 (NON-RESTRICTED USE), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE), 1601 (PARAQUAT)			
1-05A	EASTSIDE RD FLOOD + WHEEL LINE PASTURELAND / 28035-0	7 ACRES	SV	M42N09W12
Pesticide #s:	609 (NON-RESTRICTED USE), 636 (2,4-D), 200 (DICAMBA), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE)			
1-05B	EASTSIDE RD FLOOD/K LINE PASTURELAND / 28035-0	10 ACRES	SV	M42N09W14
Pesticide #s:	609 (NON-RESTRICTED USE), 636 (2,4-D), 200 (DICAMBA), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE)			
1-06	EASTSIDE RD SE 1/4 PIVOT/RR ALFALFA / 23001-0	45 ACRES	SV	M42N09W11
Pesticide #s:	609 (NON-RESTRICTED USE), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE), 1601 (PARAQUAT)			
1-07	EASTSIDE RD SW 1/4 PIVOT ALFALFA GRASS / 23001-1	45 ACRES	SV	M42N09W11
Pesticide #s:	609 (NON-RESTRICTED USE), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE)			
1-08	EASTSIDE RD FLOOD PASTURELAND / 28035-0	2 ACRES	SV	M42N09W11
Pesticide #s:	609 (NON-RESTRICTED USE), 636 (2,4-D), 200 (DICAMBA), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE)			
2-01	SHELL GULCH PIVOT ORCHARDGRASS / 22028-0	41 ACRES	SV	M42N09W12
Pesticide #s:	609 (NON-RESTRICTED USE), 636 (2,4-D), 200 (DICAMBA), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE)			
2-02	SHELL GULCH DRYLAND ALFALFA / 23001-0	20 ACRES	SV	M42N09W12
Pesticide #s:	609 (NON-RESTRICTED USE), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE), 1601 (PARAQUAT)			
2-03	SHELL GULCH DRYLAND RANGELAND / 28045-0	150 ACRES	SV	M42N09W12
Pesticide #s:	609 (NON-RESTRICTED USE), 636 (2,4-D)			
2-04	SHELL GULCH WHEEL LINE/RR ALFALFA ALFALFA / 23001-0	21 ACRES	SV	M42N09W13
Pesticide #s:	609 (NON-RESTRICTED USE), 554 (STRYCHNINE), 626 (ZINC PHOSPHIDE), 1601 (PARAQUAT)			

RESTRICTED MATERIALS PERMIT # 47-21-473064R

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Expires: 2/28/2022

2-05	SHELL GULCH DRYLAND RANGELAND / 28045-0 100 ACRES	SV	M42N09W12
Pesticide #s:	999 (NON-RESTRICTED USE), 636 (2,4-D)		
2-06	SHELL GULCH FLOOD + WHEEL WINE ALFALFA / 23001-0 16 ACRES	SV	M42N09W12
Pesticide #s:	999 (NON-RESTRICTED USE), 554 (STRYCHNINE), 625 (ZINC PHOSPHIDE), 1601 (PARAQUAT)		
3-01	SPOT APPLICATIONS FENCES, ROADS, BLDGS, DITCHES, ETC. FARM AG BLD / 61000-0 10 ACRES	SV	M42N09W11
Pesticide #s:	999 (NON-RESTRICTED USE), 636 (2,4-D), 200 (DICAMBA)		

Site	Acreage	Crop	2021 Method	How is monthly water use is calculated	March	April	May	June	July	August	September	October	2021 Annual Total
Field 1-01	70	Alfalfa	Pivot	Meter	15	30	31	30	31	31	30	15	213
Field 1-01A	8	Grain hay	Handline	Meter	1.65	3.3	3.41	3.3	3.41	3.41	3.3	1.65	23.43
Field 1-01B	8	Grain hay	Handline	Meter	1.65	3.3	3.41	3.3	3.41	3.41	3.3	1.65	23.43
Field 1-01C	6	Grain hay	Handline	Meter	1.2	2.4	2.48	2.4	2.48	2.48	2.4	1.2	17.04
Field 1-02	52	Alfalfa	Pivot	Meter	10.95	21.9	22.63	21.9	22.63	22.63	21.9	10.95	155.49
Field 1-02	8	Alfalfa	Wheel line	Meter	1.65	3.3	3.41	3.3	3.41	3.41	3.3	1.65	23.43
Field 1-03	10	Alfalfa	Wheel line	Meter	2.11	4.2	4.34	4.2	4.34	4.34	4.2	2.11	29.84
Field 1-04	52	Alfalfa	Pivot	Meter	10.95	21.9	22.63	21.9	22.63	22.63	21.9	10.95	155.49
Field 1-04	8	Alfalfa	Wheel line	Meter	1.65	3.3	3.41	3.3	3.41	3.41	3.3	1.65	23.43
Field 1-04	10	Alfalfa	Wheel line	Meter	2.11	4.2	4.34	4.2	4.34	4.34	4.2	2.11	29.84
Field 1-05A	7	Pasture	Wheel line	Meter	1.5	3	3.1	3	3.1	3.1	3	1.5	21.3
Field 1-05B	10	Pasture	K-Line	Meter	2.11	4.2	4.34	4.2	4.34	4.34	4.2	2.11	29.84
Field 1-06	45	Alfalfa	Pivot	Meter	9.45	18.9	19.53	18.9	19.53	19.53	18.9	9.45	134.19
Field1-07	45	Alfalfa grass	Pivot	Meter	9.45	18.9	19.53	18.9	19.53	19.53	18.9	9.45	134.19
Field 1-08	2	Pasture	Flood	Flood/dry	-	-	-	-	-	-	-	-	0
Field 2-01	41	Orchardgrass	Pivot	Meter	7.5	17.5	17.98	17.5	17.98	17.98	17.5	7.5	121.44
Field 2-02	20	Alfalfa	Dryland	Dry	-	-	-	-	-	-	-	-	0
Field 2-03	150	Rangeland	Dryland	Dry	-	-	-	-	-	-	-	-	0
Field 2-04	21	Alfalfa	Wheel line	Meter	4.5	9	9.3	9	9.3	9.3	9	4.5	63.9
Field 2-05	100	Rangeland	Dryland	Dry	-	-	-	-	-	-	-	-	0
Field 2-06	16	Alfalfa	Wheel line	Meter	3.45	6.9	7.13	6.9	7.13	7.13	6.9	3.45	48.99
Total Acreage:	689		2021 Monthly total:		86.88	176.2	181.97	176.2	181.97	181.97	176.2	86.88	1248.27

Site	Acreage	Crop	2024 Method	Conservation Method	Water Use Calculation Method	March	April	May	June	July	August	September	October	2024 Annual Totals	2022 Annual Totals	2021 Annual Totals
Field 1-01	70	Bluegrass seed	Pivot	Low water crop	Meter at pivot	0	6	24	20	0	6	10	10	76	183	213
Field 1-01A	8	Grain hay	Fallow	Fallow	Fallow	0	0	0	0	0	0	0	0	0	0	23.43
Field 1-01B	8	Grain hay	Fallow	Fallow	Fallow	0	0	0	0	0	0	0	0	0	0	23.43
Field 1-01C	6	Grain hay	Fallow	Fallow	Fallow	0	0	0	0	0	0	0	0	0	0	17.04
Field 1-02	52	Alfalfa	Pivot	Pivot	Meter at pivot	0	18	18	18	24	24	18	0	120	63	155.49
Field 1-02	8	Alfalfa	Wheel line	Deficit irrigation	Number of applications	0	0	0	0	1	1	1	0	3	0	23.43
Field 1-03	10	Grain hay	Wheel line	Flow Control	Number of applications	0	2	4	4	2	0	0	0	12	25.64	29.84
Field 1-04	52	Alfalfa	Pivot	Pivot	Meter at pivot	0	18	18	18	24	24	18	0	120	133.59	155.49
Field 1-04	8	Alfalfa	Wheel line	Deficit irrigation	Number of applications	0	0	0	0	1	1	1	0	3	0	23.43
Field 1-04	10	Alfalfa	Wheel line	Flow control	Number of applications	0	2	4	4	4	4	2	0	20	25.64	29.84
Field 1-05A	7	Pasture	Wheel line	Flow control	Number of applications	0	2	3	3	3	2	1	1	15	19.8	21.3
Field 1-05B	10	Pasture	K-Line	Fallow 5 ac.	Hours * rate	0	2	2	2	2	2	1	1	12	14.01	29.84
Field 1-06	45	Alfalfa	Pivot	Pivot	Meter at pivot	0	18	16	16	20	20	10	0	100	115.29	134.19
Field1-07	45	Bluegrass seed	Pivot	Low water crop	Meter at pivot	0	4	14	14	0	4.5	4.5	4.5	45.5	66	134.19
Field 1-08	2	Pasture	Flood	Fallow	Flood/dry	-	-	-	-	-	-	-	-	0	0	0
Field 2-01	41	Carrots for Seed	Drip Irrigation	Drip Irrigation	Meter at filter	0	4	10	10	10	10	4	0	48	111.44	121.44
Field 2-02	20	Alfalfa	Dryland	Fallow	Dry	-	-	-	-	-	-	-	-	0	0	0
Field 2-03	150	Rangeland	Dryland	Fallow	Dry	-	-	-	-	-	-	-	-	0	0	0
Field 2-04	21	Grain hay	Wheel line	Flow control	Number of applications	0	6	6	6	2.5	0	0	0	20.5	54.9	63.9
Field 2-05	100	Rangeland	Dryland	Fallow	Dry	-	-	-	-	-	-	-	-	0	0	0
Field 2-06	16	Pasture	Wheel line	Flow control	Number of applications	0	2	6	6	6	6	2	2	30	45.54	48.99
Total Acreage:	689		2024 Monthly total:			0	84	125	121	99.5	104.5	72.5	18.5	625		
			2021 Monthly total:			86.88	176.2	181.97	176.2	181.97	181.97	176.2	86.88			1248.27
			2024 Improvement:			100.00%	52.33%	31.31%	31.33%	45.32%	42.57%	58.85%	78.71%			
			Reduction:											Total reduction:		49.93%

SCHEDULE C
ACREAGES IRRIGATED BY CLAIMANTS FROM
GROUND WATER INTERCONNECTED WITH THE SCOTT RIVER

Name of Claimant	Diversion and Map Sheet No.	Area Served, Acres
JAFAM Corp.	222-13	500 a/
Friden	224a-10	180
Veale	225-10	250 b/
Starr, K.	228-10	133 c/
Starr, J.	231-10	99 d/
Wells, F.	231a-10	50
P & F Ranch	231b-10	44
McCann	231c-10	30
Rancho Del Sol	231d-10 } 238-10 }	220 e/
Jenner, J.	238a-10	594 f/
Whipple	239-10 } 240-10 }	625
Smith Brothers	278-10	468
Sweezey	277-10 } 279-10 } 279a-10 } 280-10 } 281-10 }	618
Hayden, N.	281a-10	479 g/
Bryan	282-10 } 282a-10 }	411
Cassady	283-10	7

- a/ This includes 201 acres that may also be irrigated from North Fork French Creek, Diversion 17 (see Paragraph 59).
- b/ This includes 100 acres that may also be irrigated from Diversion 263 (see Schedule B18).
- c/ This includes 103 acres that may also be irrigated from Diversion 263 see Schedule B18).
- d/ This includes 79 acres that may also be irrigated from Diversion 263 (see Schedule B18).
- e/ This 220 acres may also be irrigated from Diversions 267 and 272 (see Schedule B18).
- f/ This includes 588 acres that may also be irrigated from Diversion 559 (see Schedule B17) and Diversions 266 and 274 (see Schedule B18).
- g/ This includes 70 acres that may also be irrigated from Diversion 342a (see Schedule B20) and from Diversion 363 (see Schedule B21).

SCHEDULE 1 (Continued)
DESCRIPTION OF PLACES OF USE

Name of Claimant and Name of Diversion	Diversion Number	Use	Acres	Location of Place of Use Town: Subdivision: ship:Range and Section:North:West		
<u>BLACKMORE, D.</u> (Proposed)	479c-4-D3	Irr	2	SE	SE 3	43 9
<u>BLUE, F.</u> Upper Ditch	665-4-B38	Irr	27	N½	3	43 10
Lower Ditch	666-4-B38		6	S½	34	44 10
Reservoir	672-4-B38					
	TOTAL		33			
<u>BOEHM, A.</u> (Proposed)	68a-16-B4	Dom		W½	23	40 8
<u>BOWERS, H.</u> Ditch	256b-10-B16	Irr	4	SW	SE 32	42 9
<u>BRANDON, U.</u> Well	536-5-B29	Irr	10	SE	SW 29	44 8
<u>BRAUN, L.</u> Lower Ditch	59-16-B6	Irr	15	W½	SW 18	40 7
Grouse Cr. Ditch	63-16-B3	Irr	13	S½	SW 18	40 7
	TOTAL		28			
<u>BRAZIL, D.</u> Pipeline	627a-4-B36	Dom		SE	NE 30	44 9
Well	630-4-C	Irr	332		30	44 9
<u>BRIGHAM, B.</u> (Proposed)	158c-15-D1	Irr	10	NW	SW 6	40 8
<u>PROCE, T.</u> Pump	673-4-B38	Irr	1	NW	SE 34	44 10
<u>BROCK, R.</u> Farmers Ditch	183-15-D1	Irr	50	E½	SE 25	41 9
Upper Ditch	187-13-B12		125		30	41 8
Lower Ditch	190a-13-B12					
Sump	191-13-B12					
Pump	192-13-D1					
Stock Ditch	195a-13-B12					
	TOTAL		775			
<u>BROWN, R. H.</u> East Well	544-4-B29	Irr	93	SE	25	44 9
Middle Well	545-4-B29		136	N½	36	
North Well	545a-4-B29					
Ditch	559-4-B32					
West Well	568-4-B29					
South Well	569-4-B29					
	TOTAL		229			
<u>BROWN, R. A.</u> (Proposed)	709-20-D5	Irr	7	SW	2	44 11
<u>BRYAN, M.</u> Well	282-10-C	Irr	1	NE	SE 10	42 9
Manifold Well	282a-10-C		280	S½	11	
			90	SW	12	
			2	NW	NW 13	
			38	N½	NE 14	
	TOTAL		471			
<u>BUNTING, L.</u> Lower Allen Ditch	181-15-B11	Irr	32	NE	12	40 9

19. Independent Tributary Streams (Schedule B)

Schedule B is divided into 40 independent tributary streams or stream groups named and designated as Schedules B1 through B40 as shown in the Table of Contents.

Rights set forth in each of the 40 independent tributary streams or stream groups in Schedule B are independent of all of the rights in the other streams or stream groups in Schedule B. Exercise of rights in Schedule B will not have an effect on rights in Schedules C and D great enough to warrant reduction of diversions when rights in Schedules C and D are not being fulfilled; therefore the rights in Schedule B may be exercised independently, except that rights set forth in surplus priority class in Schedule B are junior in priority to all numbered priority classes in this decree and to the rights set forth in Paragraph 45, and diversion under said surplus priority class rights shall be terminated when any downstream rights except those in surplus class are not being satisfied.

20. Ground Water Interconnected with the Scott River (Schedule C)

Claimants listed in Schedule C are allotted that amount of water, by subirrigation or by pumping from ground water interconnected with the Scott River, reasonably required to irrigate the acreage shown opposite their names. Rights for lands in Schedule C are not related to rights in Schedule D and may be exercised independently from rights in Schedules B, D and E and those set forth in Paragraphs 45 and 46.

Location of existing and proposed wells or sumps (diversion points) are described in Schedule 2. Additional wells or sumps may be constructed to augment irrigation or to replace subirrigation but must be located at least 500 feet from the Scott River or at the most distant point from the river on the land that overlies the interconnected ground water, whichever is less.

BRYAN IN "C" 411 ACRES

21. Natural Flow of Scott River (Schedule D)

All rights to divert natural flow of Scott River are set forth in Schedules D1 through D5 running in downstream order. Exercise of rights in each D Schedule will not have an effect on rights in the higher numbered D Schedules great enough to warrant reduction of diversions when the rights in the higher numbered D Schedules are not being fulfilled; therefore, the rights in each D Schedule may be exercised independently from the rights in all other D Schedules, except that rights set forth in surplus priority class in Schedule D are junior in priority to all numbered priority classes in this order and to the rights set forth in Paragraph 45, and diversion under said surplus priority class rights shall be terminated when any downstream rights except those in surplus class are not being satisfied.



SISKIYOU RESOURCE CONSERVATION DISTRICT

P.O. Box 268, Etna, CA 96027
PHONE (530) 467-3975 FAX (530) 467-5617
Email: sisrccd@sisqtel.net
Website: www.siskiyougcd.com

Binding Agreement

Contractor Contact Information:

<i>Business:</i>	Siskiyou RCD
<i>Contact Person:</i>	Chris Voigt
<i>Address:</i>	P.O. Box 268 / 450 Main Street, Etna, CA 96027
<i>Phone:</i>	530-467-3975
<i>Email:</i>	chris@siskiyougcd.com

Landowner Contact Information:

<i>Business:</i>	Bryan/Morris Ranch
<i>Contact Person:</i>	Jim Morris
<i>Address:</i>	[REDACTED]
<i>Phone:</i>	[REDACTED]
<i>Email:</i>	[REDACTED]

Background

Under the 2021 drought emergency regulation instated by the State Water Resources Control Board (SWRCB) that established drought emergency minimum flows in the Scott River, a Local Cooperative Solution (LCS) may be proposed by individuals or groups to submit by petition to the Deputy Director of the SWRCB as an alternative means of reducing water use to meet or preserve drought emergency minimum flows and provide fishery benefits, in lieu of curtailment. This binding agreement between the (Landowner) and Siskiyou Resource Conservation District (SRCD) will monitor the SRWCB approved LCS to achieve 1) a net reduction of water use of 30 percent throughout the irrigation season; and 2) a monthly reduction of at least 30 percent in the July through October 31 period, as compared to 2020.



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Recitals

1. Section 875(f)(4)(D) of the drought emergency regulation provides a specific type of LCS that was determined to be sufficient for approval by the Deputy Director;
2. For overlying or adjudicated groundwater diversions for irrigated agriculture described in sections 875.5(f)(4)(D)(i)-(iii) [Scott River], the Deputy Director may approve a groundwater-basin-wide, groundwater sub-basin-wide, or any number of individual local cooperative solutions totaling at least 400 acres where:

- i. The proposal is based on a binding agreement. "Such binding agreement may be made with a coordinating entity with the expertise and ability to evaluate and require performance of the agreement, for example with the California Department of Fish and Wildlife (CDFW), the National Marine Fisheries Service, the Scott Valley and Shasta Valley Watermaster District, a non-profit organization with expertise and experience in water-saving transactions or similarly qualified entity."
- ii. For the Scott River: "The proposal provides at least: 1) a net reduction in water use of 30 percent throughout the irrigation season (April 1-October 31), as compared to the prior irrigation season; and 2) a monthly reduction of at least 30% in the July 1 through October 31 period, as compared to the prior year or 2020. Such reduction may be demonstrated by evidence that provides a reasonable assurance that the change in farming practice or other action results in at least the relevant proportionate reduction. Such evidence may include but is not limited to: pumping reports; actions that will be taken to reduce water use; estimation of water saved from conservation measures or changes in irrigation or planting decisions; and electric bills."

Proposed Local Cooperative Solution: *(Specific action plan to be completed by landowner, see attached LCS application form)*



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Binding Agreement Terms

The Landowner is required to adhere to the LCS, as approved by SWRCB. The Landowner has requested that SRCD serve as the coordinating entity. As such, both parties agree to the following:

- For the duration of this binding agreement where SRCD is the coordinating entity, the Landowner shall give SRCD the right to reasonably access the included parcels for the limited purpose of verifying execution of the LCS. Any individual not directly employed or contracted by SRCD shall provide pre-notification to, and shall obtain approval by the Landowner before accessing the property,
- SRCD will strive to notify the Landowner a day in advance of visiting the parcels and shall provide the Landowner or designee the ability to participate in monitoring activities,
- It is anticipated that SRCD representatives will visit the property approximately twice per month to monitor the approved LCS, unless inadequacies are discovered, in which case additional field visits will occur until inadequacies are rectified. A monitoring inspection may include verification of any or all of the actions described in the conservation plan and may include inspection checklist/notes/reports and photo verification,
- SRCD will submit the information regarding the verification materials and actions described in this agreement, and conservation plan incorporated by reference, to the State Water Board upon request, for the purposes of verifying compliance with the LCS,
- This binding agreement is not intended to preclude, harm, or otherwise interfere with the landowner's ability to secure any funding to mitigate the financial impacts imposed by the emergency regulation or proposed conservation practices. SRCD supports the use of funding programs to ameliorate the costs of implementing the conservation practices described in the proposed conservation plan: planning and cooperation under a voluntary LCS should not undermine the ability to receive such funding,
- This binding agreement may be terminated by either party at any time. Both parties agree to take reasonable measures to resolve any concerns related to the performance of the LCS, negative interpersonal interaction, or any unforeseen circumstance prior to invoking termination,
- As the irrigation season unfolds, there may be reason to change the terms of the LCS or this binding agreement with respect to its implementation and verification. Any such changes to the LCS or service agreement will need to be agreed upon by the Landowner



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and SRWCB. If a Landowner requests SRCD assistance with an updated LCS, the SRCD and Landowner will enter into a new Binding Agreement and,

Payment

In consideration for the services to be performed by SRCD, the Landowner agrees to pay SRCD at the rate of \$75.00 per hour for initial consultation and \$75.00 per hour for all services rendered after signing of the binding agreement.

Expenses

The Landowner will reimburse SRCD for expenses that are attributable directly to work performed under this Agreement. Any expenses incurred will be approved by the Landowner beforehand. SRCD will submit an itemized statement of Contractor's expenses attached with invoicing.

Terms of Payment

Upon completion of SRCD services under this binding agreement, the SRCD will submit an invoice. The Landowner will pay SRCD the compensation described within 30 days of receiving SRCD's invoice.

Term of Agreement

This agreement will become effective when signed by both parties and will terminate on:

- November 1, 2022, or
- The date a party terminates the binding agreement.
- Monitoring information will be collected by the SRCD and shared with State Water Board as a field report in accordance with their reporting schedule or upon request
- SRCD is not authorized to and will not distribute data or other information regarding work done under this contract to any third party without previous written approval by the Landowner
- Landowner agrees that water saved under the LCS will not be transferred to parcels not included under the LCS, and Landowner will not knowingly or intentionally otherwise take actions outside of the LCS that diminish, in any material way, the overall thirty percent reduction established by the actions described in the LCS