CLAIM OF BENEFICIAL USE for Surface Water Permits claiming more than 0.1 cfs



OREGON Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1266 (503) 986-0900

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A fee of \$230 must accompany this form for permits with priority dates of July 9, 1987, or later.

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at: https://www.oregon.gov/OWRD/Forms/Pages/default.aspx

Go to "Resources for Water Right Examiners (CWRE)" Page https://www.oregon.gov/OWRD/programs/WaterRights/COBU/Pages/default.aspx The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. Every item must have a response. If any requested information does not apply to the claim, insert "NA." Do not delete or alter any section of this form unless directed by the form. The Department may require the submittal of additional information from any water user or authorized agent.

"Section 8" of this form is intended to aid in the completion of this form and should not be submitted.

If you have questions regarding the completion of this form, please call 503-979-9103.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see

https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx

SECTION 1

GENERAL INFORMATION

1. File Information:

APPLICATION #	PERMIT #	PERMIT AMENDMENT #
	I CITIVIII II	T ENIVELY MALEIN MA

S-87119	S-54582		T-	
2. Property Owner (cui	rent owner information	n):		
APPLICANT/BUSINESS NAME	Terre owner information	PHONE	No.	ADDITIONAL CONTACT NO.
L & L Farms			561 5404	
Address			A	
1000 HWY 395 S 423				
CITY	STATE	ZIP	E-MAIL	
Hermiston	OR	97838	boblevy@v	windyriverfarms.com
If the current property of assignment be filed with				
3. Permit or holder of	ecord (this may, or may	not, be th	e current propert	ty owner):
PERMIT HOLDER OF RECORD				
L & L Farms				
ADDRESS				
822 HWY 395 S 423	-			
CITY	STATE	ZIP		
Hermiston	OR	9783	38	
Сіту	4. Date of Sit	ZIP se Inspection	on:	
5. Person(s) interviewe	and description of the	air associat	ion with the proi	ert.
NAME	CONTROL OF	ATE	CONTRACTOR OF CO	TION WITH THE PROJECT
Rob Cox	12/11/2	4	Farm Supervisor	
				-
6. County:				
Umatilla				
7. If any property descr report, identify the owr		•		excluded from this
OWNER OF RECORD	***************************************			
Not Applicable				Received
ADDRESS				
			, MA	AR 2 1 2025
CITY	STATE	ZIP		2.7

Add additional tables for owners of record as needed

SECTION 2 SIGNATURES

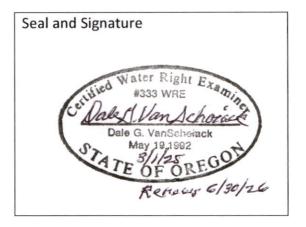
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CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



CWRE NAME		PHONE No.		ADDITIONAL CONTACT NO.	
Dale VanSchoiack		1 509 627 8	717		
Address					
2141 S Lyle					
Сіту	STATE	ZIP	E-MAIL		
Kennewick	WA	99337	dalevconsulting@gmail.com		

Permit Holder of Record Signature or Acknowledgement

Each permit holder of record must sign this form in the space provided below.

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
Postley for Lathur	L & L Farms, Bob Levy	Farm Owner	
-			
·			

SECTION 3

CLAIM DESCRIPTION

1. Point of diversion name or number:

POINT OF DIVERSION
(POD) NAME OR NUMBER
(CORRESPOND TO MAP)
Butter Creek Reservoir
Sparks Reservoir

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2. Point of diversion source and tributary:

POD	Source	Tributary
Name or Number		
Butter Creek Reservoir	Umatilla River	Columbia River
Sparks Reservoir	Umatilla River	Columbia River

3. Developed use(s), period of use, and rate for each use:

POD Name or Number	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
Butter Creek Reservoir	Supplemental Irrig	Corn, alfalfa, potatoes, onions	Apr 1 – Oct 31	3867 gpm (8.62 cfs) 535 ac ft
Sparks	Supplemental	Corn, alfalfa,	Apr 1 – Oct 31	5352 gpm (11.93 cfs)
Reservoir	Irrig	potatoes, onions		353 ac ft
Total Quantity	of Water Used	888 ac ft		

4. Provide a general narrative description of the distribution works. This description must trace the water system from **each** point of diversion to the place of use:

There are two PODs associated with the water right. The most northerly POD is Butter Creek Reservoir. It is in the SESE of Section 5, T3N R28E W.M. Water is pumped from this reservoir through the Butter Creek Lagoon Pumping Station. It is comprised of three 150 hp pumps totaling 450 hp. From this pumping station the water flows through 1460'± of buried 24" pipeline in a south and then westerly direction to the Butter Creek Booster pumping station. The Butter Creek Booster Pumping Station is a 250 hp booster pumping station consisting of two 125 hp pumps. From the Butter Creek Booster Pumping Station, the water flows 14670'± in a southwesterly then southerly direction through a buried 18" pipeline to a point where it reduces in size to a 16" and continues 5740'± southwesterly to the southwesterly corner of the intersection of HWY 207 and the Echo Highway. From this point the pipeline bends to the east and extends 8800'± along the southerly side of Echo Highway to a point where it bends to the southeast. It then continues 6810'± in a southeast direction to the southwest corner of the Sparks Reservoir, located in the NENW of Section 34, T3N R28E W.M. which is the second POD. Water from the Sparks Reservoir is pumped through the Sparks Pumping Station, which consists of four 250 hp pumps, through a pipe distribution system to 29 circular irrigation machines and one rectangular shaped land parcel that make up the irrigated acreage authorized by the permit. Refer to the COBU map for details regarding the farm pipe distribution system.

On the COBU map there are references to a Canal Pumping Station, a 250 hp Booster Station, and a 75

hp Booster Station. These facilities are used in conjunction with primary irrigation water rights and are not used in conjunction with the supplemental irrigation water for Permit S-54582.

Reminder: The map associated with this claim must identify the location of the point(s) of diversion, Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

5. Variations:

Was the use developed differently from what was authorized by the permit, or permit amendment final order? If yes, describe below.

NO

(e.g. "The permit allowed three points of diversion. The water user only developed one of the points." or "The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres.")

Not Applicable

6. Claim Summary:

POD NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
Butter Creek Reservoir	The rate is not stated in the permit. Maximum volume 535 ac ft.	3867 gpm (8.62 cfs) Based on the operation of one Butter Creek Bstr. Pump*	Not Applicable	Supplemental Irrigation	3284.95	3284.95
Sparks Reservoir	The rate is not stated in the permit. Maximum volume 353 ac ft.	5352 gpm (11.93 cfs) Based on the operation of two Sparks Reservoir pumps. **	Not Applicable	Supplemental Irrigation	3284.95	3284.95

^{*} Water is pumped from the Butter Creek Reservoir to the Sparks Reservoir. The normal peak rate that water is pumped from the Butter Creek Reservoir to Sparks Reservoir is 3867 gpm (8.62 cfs).

^{**} Water from the Sparks Reservoir is pumped to the farmland. The normal peak rate at which water is pumped to the farmland is 5352 gpm (11.93 cfs).



SECTION 4

SYSTEM DESCRIPTION

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YES

Are there multiple PODs?

If "YES" you will need to copy and complete a separate Section 4 for each POD.

POD Name or Number this section describes (only needed if there is more than one):

A. Place of Use

1. Is the right for municipal use?

NO

If "YES" the table below may be deleted.

TWP	RNG	Mer	SEC	QQ	GLOT	DLC	USE	If Irrigation, # Primary Acres	IF IRRIGATION, # SUPPLEMENTAL ACRES
2N	28E	WM	4	NENE	Lot 1		Supp Irrig		34.00
2N	28E	WM	4	NWNE	Lot 2		Supp Irrig		33.90
2N	28E	WM	4	SWNE			Supp Irrig		29.20
2N	28E	WM	4	SENE			Supp Irrig		29.20
2N	28E	WM	4	NENW	Lot 3		Supp Irrig		34.20
2N	28E	WM	4	NWNW	Lot 4		Supp Irrig		34.30
2N	28E	WM	4	SWNW			Supp Irrig		28.90
2N	28E	WM	4	SENW			Supp Irrig		28.90
2N	28E	WM	4	NESW			Supp Irrig		33.70
2N	28E	WM	4	NWSW			Supp Irrig		33.70
2N	28E	WM	4	swsw			Supp Irrig		31.30
2N	28E	WM	4	SESW			Supp Irrig		27.90
2N	28E	WM	4	NESE			Supp Irrig		33.50
2N	28E	WM	4	NWSE			Supp Irrig		33.00
2N	28E	WM	4	SWSE			Supp Irrig		28.50
2N	28E	WM	4	SESE			Supp Irrig		28.70
3N	28E	WM	14	SWSE			Supp Irrig		1.20
3N	28E	WM	14	SESE			Supp Irrig		1.20
3N	28E	WM	23	NENE			Supp Irrig		33.60
3N	28E	WM	23	NWNE			Supp Irrig		34.20
3N	28E	WM	23	SWNE			Supp Irrig		27.70
3N	28E	WM	23	SENE			Supp Irrig		27.10
3N	28E	WM	23	NENW			Supp Irrig		30.20
3N	28E	WM	23	NWNW			Supp Irrig		29.00
3N	28E	WM	23	SWNW			Supp Irrig		36.50
3N	28E	WM	23	SENW			Supp Irrig		36.95

TWP	RNG	MER	SEC	QQ	GLOT	DLC	USE	If Irrigation, # Primary Acres	IF IRRIGATION, # SUPPLEMENTAL ACRES
3N	28E	WM	23	NESW			Supp Irrig		37.60
3N	28E	WM	23	NWSW			Supp Irrig		35.70
3N	28E	WM	23	swsw			Supp Irrig		40.20
3N	28E	WM	23	SESW			Supp Irrig		35.60
3N	28E	WM	23	NESE			Supp Irrig		30.30
3N	28E	WM	23	NWSE			Supp Irrig		31.30
3N	28E	WM	23	SWSE			Supp Irrig		23.70
3N	28E	WM	23	SESE			Supp Irrig		21.70
3N	28E	WM	26	NENE			Supp Irrig		30.20
3N	28E	WM	26	NWNE			Supp Irrig		35.70
3N	28E	WM	26	SWNE			Supp Irrig		35.20
3N	28E	WM	26	SENE			Supp Irrig		28.10
3N	28E	WM	26	NENW			Supp Irrig		17.50
3N	28E	WM	26	NWNW			Supp Irrig		22.70
3N	28E	WM	26	SWNW			Supp Irrig		38.80
3N	28E	WM	26	SENW			Supp Irrig		36.60
3N	28E	WM	27	NENE			Supp Irrig		36.40
3N	28E	WM	27	NWNE			Supp Irrig		26.80
3N	28E	WM	27	SWNE			Supp Irrig		37.90
3N	28E	WM	27	SENE			Supp Irrig		21.10
3N	28E	WM	27	NENW			Supp Irrig		28.40
3N	28E	WM	27	NWNW			Supp Irrig		30.40
3N	28E	WM	27	SWNW			Supp Irrig		30.40
3N	28E	WM	27	SENW			Supp Irrig		31.80
3N	28E	WM	27	NESW			Supp Irrig		30.10
3N	28E	WM	27	NWSW			Supp Irrig		27.60
3N	28E	WM	27	swsw			Supp Irrig		32.00
3N	28E	WM	27	SESW			Supp Irrig		28.90
3N	28E	WM	27	NESE			Supp Irrig		38.80
3N	28E	WM	27	NWSE			Supp Irrig		40.00
3N	28E	WM	27	SWSE			Supp Irrig		16.00
3N	28E	WM	27	SESE			Supp Irrig		13.60
3N	28E	WM	28	NENE			Supp Irrig		33.00
3N	28E	WM	28	NWNE			Supp Irrig		33.00
3N	28E	WM	28	SWNE			Supp Irrig		29.40
3N	28E	WM	28	SENE			Supp Irrig		29.40
3N	28E	WM	28	NENW			Supp Irrig		31.30
3N	28E	WM	28	NWNW			Supp Irrig		31.20
3N	28E	WM	28	SWNW			Supp Irrig		31.00
3N	28E	WM	28	SENW			Supp Irrig		30.80

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TWP	RNG	Mer	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
3N	28E	WM	28	NESW			Supp Irrig		30.50
3N	28E	WM	28	NWSW			Supp Irrig		30.20
3N	28E	WM	28	swsw			Supp Irrig		39.00
3N	28E	WM	28	SESW			Supp Irrig		39.00
3N	28E	WM	28	NESE			Supp Irrig		27.20
3N	28E	WM	28	NWSE			Supp Irrig		28.00
3N	28E	WM	28	SWSE			Supp Irrig		35.90
3N	28E	WM	28	SESE			Supp Irrig		30.90
3N	28E	WM	29	NESW			Supp Irrig		28.30
3N	28E	WM	29	NWSW			Supp Irrig		29.70
3N	28E	WM	29	swsw			Supp Irrig		33.70
3N	28E	WM	29	SESW			Supp Irrig		36.50
3N	28E	WM	29	NESE			Supp Irrig		30.00
3N	28E	WM	29	NWSE			Supp Irrig		26.20
3N	28E	WM	29	SWSE			Supp Irrig		34.90
3N	28E	WM	29	SESE			Supp Irrig		36.90
3N	28E	WM	32	NENE			Supp Irrig		36.70
3N	28E	WM	32	NWNE			Supp Irrig		36.90
3N	28E	WM	32	SWNE			Supp Irrig		32.20
3N	28E	WM	32	SENE			Supp Irrig		32.00
3N	28E	WM	32	NENW			Supp Irrig		36.40
3N	28E	WM	32	NWNW			Supp Irrig		31.70
3N	28E	WM	32	SWNW			Supp Irrig		31.90
3N	28E	WM:	32	SENW			Supp Irrig		31.50
3N	28E	WM	33	NENE			Supp Irrig		31.30
3N	28E	WM	33	NWNE			Supp Irrig		36.50
3N	28E	WM	33	SWNE			Supp Irrig		31.00
3N	28E	WM	33	SENE			Supp Irrig		31.00
3N	28E	WM	33	NENW			Supp Irrig		36.90
3N	28E	WM	33	NWNW	-		Supp Irrig		36.30
3N	28E	WM	33	SWNW		-	Supp Irrig		32.00
3N	28E	WM	33	SENW			Supp Irrig		32.40
3N	28E	WM	33	NESW	-		Supp Irrig		29.20
3N	28E	WM	33	NWSW		-	Supp Irrig		30.90
	28E	WM	33						32.70
3N 3N	28E	WM	33	SWSW			Supp Irrig Supp Irrig		30.50
3N	-	WM	_		+				
	28E		33	NESE	-		Supp Irrig		31.10
3N	28E	WM	33	NWSE	-		Supp Irrig		31.20
3N	28E	WM	33	SWSE	-		Supp Irrig		32.70
3N	28E	WM gated	33	SESE			Supp Irrig		32.30 3284.95

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Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and QQ.

B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport <u>and</u> apply the water from the point of diversion to the place of use.

1. Is a pump used?

YES

If "NO" items 2 through item 6 may be deleted.

2. Pump Information:

MANUFACTURER	MODEL	SERIAL NUMBER	Type (centrifugal, turbine or submersible)	INTAKE SIZE	DISCHARGE SIZE
Butter Creek Lagoon Pump Sta.					
Pump 1 - Cornell	5HH-F18	91X04897	Centrifugal	8"	5"
Pump 2 - Cornell	5HH-F18	91X04893	Centrifugal	8"	5"
Pump 3 - Cornell	5HH-F18	91X04899	Centrifugal	8"	5"
Butter Creek Bstr.					
Pump 1 - Cornell	8H-F18K	Z0112120302	Centrifugal	10"	8"
Pump 2 - Cornell	8H-F18K	Z0103290152	Centrifugal	10"	8"

3. Motor Information:

Manufacturer	RPM	HORSEPOWER
Butter Creek Lagoon Pump Sta.		
Pump 1 - Toshiba R1504FLF4UM	1770	150
Pump 2 - Toshiba R1504FLF4UM	1770	150
Pump 3 - Toshiba R1504FLF4UM	1770	150
Butter Creek Bstr.		
Pump 1 – Baldor EM2559T-4	1775	125
Pump 2 – Baldor EM2559T-4	1775	125

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Horsepower	OPERATING PSI	LIFT FROM SOURCE TO PUMP	TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
Butter Creek Lagoon Pump Sta.				
Pump 1 – 150 hp	100 psi	12 ft positive suction head	-30 ft (630'- 600')	1945 gpm (4.33 cfs)
Pump 2 – 150 hp	100 psi	12 ft positive suction head	-30 ft (630'- 600')	1945 gpm (4.33 cfs)
Pump 3 – 150 hp	100 psi	12 ft positive suction head	-30 ft (630'- 600')	1945 gpm (4.33 cfs)
Butter CreeK Bstr.				
Pump 1 – 125 hp	35 psi (115 psi discharge pressure – 80 psi suction pressure)	80 psi suction pressure	125 ft (725'-600')	3867 gpm (8.62 cfs)
Pump 2 – 125 hp	35 psi (115 psi discharge pressure – 80 psi suction pressure)	80 psi suction pressure	125 ft (725'-600')	3867 gpm (8.62 cfs)

5. Provide pump calculations:

BUTTER CREEK LAGOON PUMPS

(Three identical 150 hp pumps, one pump is reported to be a spare pump. <u>Normal operation is two pumps.</u>)

Estimated Pumping head (TDH ft)

Positive head at pump suction

Pressure 100 psi at pump discharge head x 2.31 ft/psi =

Misc. 10 ft friction loss valves, fittings,

Total TDH

-12 ft
231 ft
231 ft
Total TDH

Estimated Flow Rate Each Pump

 $Hp = \frac{TDH \text{ x gpm}}{3960 \text{ x eff.}} \text{ or } gpm = \frac{3960 \text{ x eff x hp}}{TDH} = \frac{3960 \text{ x 75\% x 150 hp}}{229 \text{ ft}} = \frac{1945 \text{ gpm_or 4.33 cfs}}{229 \text{ ft}}$

Estimated Flow Rate for Two Pumps 1945 gpm x 2 = 3890 gpm (8.67 cfs)

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BUTTER CREEK BOOSTER PUMPS

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(Two identical 125 hp pumps, one pump is reported to be a spare pump. <u>Normal operation is one pump</u>.)

Estimated Pumping head (TDH ft)

Positive head at pump suction 80 psi
Pressure 115 psi at pump discharge head x 2.31 ft/psi = 266 ft
Misc. 15 ft friction loss valves, fittings, 15 ft

Total TD 96 ft

Estimated Flow Rate Each Pump

 $Hp = \frac{TDH \text{ x gpm}}{3960 \text{ x eff.}} \text{ or } gpm = \frac{3960 \text{ x eff x hp}}{TDH} = \frac{3960 \text{ x 75\% x 125 hp}}{96 \text{ ft}} = \frac{3867 \text{ gpm or 8.62 cfs}}{96 \text{ ft}}$

6. Measured Pump Capacity (using meter if meter was present and system was operating):

INITIAL METER READING	ENDING METER READING	DURATION OF TIME	TOTAL PUMP OUTPUT
		OBSERVED	(IN CFS)
Not Applicable			al al

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

YES

If "NO" items 8 through item 13 may be deleted.

8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
6"	1500'	PVC	Buried
12"	1330'	PVC	Buried
15"	14410'	PVC	Buried
16"	21350'	PVC	Buried
18"	30590'	PVC	Buried
20"	12090'	PVC	Buried
24"	9230'	PVC	Buried

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
Pivot to Mainline			
4"	2150'	PVC	Buried
6"	3960'	PVC	Buried
8"	3760'	PVC	Buried
10"	46860'	PVC	Buried
12"	3780'	PVC	Buried

10. Sprinkler Information:

Size	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM Number Used	TOTAL SPRINKLER OUTPUT (CFS)
5/32"dia nozzles	50 psi	5 gpm	66 Two 1320 ft wheel lines	66 Two 1320 ft wheel lines	330 gpm (0.74 cfs)

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Drip Emitter Information:

Size	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)
Not Applicable					

12. Drip Tape Information:

DRIPPER SPACING IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT (CFS)	Additional Information
Not Applicable					

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13. Pivot Information:

PIVOT NUMBER	MANUFACTURER	MAXIMUM WETTED	OPERATING	TOTAL PIVOT	TOTAL PIVOT
		RADIUS	PSI	Оитрит (GPM)	OUTPUT (CFS)
LL01	Valley	1355'	50 psi	750 gpm	1.67 cfs
LL02	Pierce	1358'	50 psi	750 gpm	1.67 cfs
LL03	Pierce	1318' part circle	50 psi	750 gpm	1.67 cfs
LL04	Valley	1316′	50 psi	750 gpm	1.67 cfs
LL05	Valley	1217'	50 psi	750 gpm	1.67 cfs
LL06	Pierce	1338'	50 psi	750 gpm	1.67 cfs
LL07	Valley	1654' part circle	50 psi	750 gpm	1.67 cfs
LL08	Valley	1291'	50 psi	750 gpm	1.67 cfs
LL09	Valley	1281'	50 psi	750 gpm	1.67 cfs
LL10	Pierce	1389'	50 psi	750 gpm	1.67 cfs
LL11	Pierce	1315'	50 psi	750 gpm	1.67 cfs
LL12	Valley	1312'	50 psi	750 gpm	1.67 cfs
LL13	Pierce	1333'	50 psi	750 gpm	1.67 cfs
LL14	Valley	1272'	50 psi	750 gpm	1.67 cfs
LL15	Pierce	1313'	50 psi	750 gpm	1.67 cfs
LL16	Pierce	1327'	50 psi	750 gpm	1.67 cfs
LL17	Valley	1328'	50 psi	750 gpm	1.67 cfs
LL18	Valley	1322'	50 psi	750 gpm	1.67 cfs
LL19	Valley	1305′	50 psi	750 gpm	1.67 cfs
LL20	Valley	1276′	50 psi	750 gpm	1.67 cfs
LL21	Valley	537'	50 psi	750 gpm	1.67 cfs
LL22	Valley	537'	50 psi	750 gpm	1.67 cfs
LL23	Valley	537'	50 psi	750 gpm	1.67 cfs
LL24	Valley	1328'	50 psi	750 gpm	1.67 cfs
LL25	Valley	1306′	50 psi	750 gpm	1.67 cfs
LL26	Valley	1314'	50 psi	750 gpm	1.67 cfs
LL27	Valley	1313′	50 psi	750 gpm	1.67 cfs
LL28	Valley	1333'	50 psi	750 gpm	1.67 cfs
LL29	Valley	1318′	50 psi	750 gpm	1.67 cfs

C. Storage

 Does the distril bulge in system / 	bution system include in-system storage (e., reservoir)?	g. storage tank,	NO
If "NO", item 2 and	d 3 relating to this section may be deleted.	Received	
If "YES" is it a:	Storage Tank Bulge in System / Reservoir	MAR 2 1 2025	NO NO

Complete appropriate table(s), unused table may be deleted.

2. Storage Tank:

MATERIAL	CAPACITY	ABOVE GROUND OR BURIED
(CONCRETE, FIBERGLASS, METAL, ETC.)	(IN GALLONS)	
Not Applicable		

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE
(CORRESPOND TO MAP)		FEET)
Not Applicable		

D. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES

There is a 24" gravity flow pipe from the Butter Creek Lagoon to the Butter Creek Lagoon Pumping Station.

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

PIPE SIZE	PIPE	"C"	AMOUNT OF	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER
	Түре	FACTOR	FALL			FLOW (IN CFS)
24"	Ductile	140	0.83 ft	107 ft	0.8%	27.16 cfs
	Iron					

3. Provide calculations:

Refer to attached Butter Creek Lagoon Pipe Capacity Calculator.

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER
	MEASUREMENT		(IN CFS)
Not Applicable			

E. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

NO

If "NO", items 2 through 4 relating to this section may be deleted.

Items 2 through 4 relating to this section were deleted.

Received

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F. Add	ditional notes or co	mments relate	d to the system	ı :	
NONE					

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SECTION 4

SYSTEM DESCRIPTION

Are there multiple PODs?

YES

If "YES" you will need to copy and complete a separate Section 4 for each POD.

POD Name or Number this section describes (only needed if there is more than one):

Received

MAR 2 1 20

ALL DAME

Sparks Reservoir

A. Place of Use

1. Is the right for municipal use?

NO

If "YES" the table below may be deleted.

TWP	RNG	Mer	SEC	QQ	GLOT	DLC	USE	If Irrigation, # Primary Acres	IF IRRIGATION, # SUPPLEMENTAL ACRES
2N	28E	WM	4	NENE	Lot 1		Supp Irrig		34.00
2N	28E	WM	4	NWNE	Lot 2		Supp Irrig		33.90
2N	28E	WM	4	SWNE			Supp Irrig		29.20
2N	28E	WM	4	SENE			Supp Irrig	1	29.20
2N	28E	WM	4	NENW	Lot 3		Supp Irrig		34.20
2N	28E	WM	4	NWNW	Lot 4		Supp Irrig		34.30
2N	28E	WM	4	SWNW			Supp Irrig		28.90
2N	28E	WM	4	SENW			Supp Irrig		28.90
2N	28E	WM	4	NESW			Supp Irrig	3	33.70
2N	28E	WM	4	NWSW			Supp Irrig	Y.	33.70
2N	28E	WM	4	swsw			Supp Irrig		31.30
2N	28E	WM	4	SESW			Supp Irrig		27.90
2N	28E	WM	4	NESE			Supp Irrig		33.50
2N	28E	WM	4	NWSE		× .	Supp Irrig		33.00
2N	28E	WM	4	SWSE			Supp Irrig		28.50
2N	28E	WM	4	SESE	-		Supp Irrig	,	28.70
3N	28E	WM	14	SWSE			Supp Irrig	7	1.20
3N	28E	WM	14	SESE			Supp Irrig	1	1.20
3N	28E	WM	23	NENE			Supp Irrig		33.60
3N	28E	WM	23	NWNE			Supp Irrig		34.20
3N	28E	WM	23	SWNE			Supp Irrig		27.70
3N	28E	WM	23	SENE			Supp Irrig		27.10
3N	28E	WM	23	NENW			Supp Irrig		30.20
3N	28E	WM	23	NWNW			Supp Irrig		29.00
3N	28E	WM	23	SWNW			Supp Irrig		36.50
3N	28E	WM	23	SENW			Supp Irrig		36.95

TWP	RNG	Mer	SEC	QQ	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
3N	28E	WM	23	NESW			Supp Irrig		37.60
3N	28E	WM	23	NWSW			Supp Irrig		35.70
3N	28E	WM	23	swsw			Supp Irrig		40.20
3N	28E	WM	23	SESW			Supp Irrig		35.60
3N	28E	WM	23	NESE			Supp Irrig		30.30
3N	28E	WM	23	NWSE			Supp Irrig		31.30
3N	28E	WM	23	SWSE			Supp Irrig		23.70
3N	28E	WM	23	SESE			Supp Irrig		21.70
3N	28E	WM	26	NENE			Supp Irrig		30.20
3N	28E	WM	26	NWNE			Supp Irrig		35.70
3N	28E	WM	26	SWNE			Supp Irrig		35.20
3N	28E	WM	26	SENE			Supp Irrig		28.10
3N	28E	WM	26	NENW			Supp Irrig		17.50
3N	28E	WM	26	NWNW			Supp Irrig		22.70
3N	28E	WM	26	SWNW			Supp Irrig		38.80
3N	28E	WM	26	SENW			Supp Irrig		36.60
3N	28E	WM	27	NENE			Supp Irrig		36.40
3N	28E	WM	27	NWNE			Supp Irrig		26.80
3N	28E	WM	27	SWNE			Supp Irrig		37.90
3N	28E	WM	27	SENE			Supp Irrig		21.10
3N	28E	WM	27	NENW			Supp Irrig		28.40
3N	28E	WM	27	NWNW			Supp Irrig		30.40
3N	28E	WM	27	SWNW			Supp Irrig		30.40
3N	28E	WM	27	SENW			Supp Irrig		31.80
3N	28E	WM	27	NESW			Supp Irrig		30.10
3N	28E	WM	27	NWSW			Supp Irrig	4)	27.60
3N	28E	WM	27	swsw			Supp Irrig		32.00
3N	28E	WM	27	SESW			Supp Irrig		28.90
3N	28E	WM	27	NESE			Supp Irrig		38.80
3N	28E	WM	27	NWSE			Supp Irrig		40.00
3N	28E	WM	27	SWSE			Supp Irrig		16.00
3N	28E	WM	27	SESE			Supp Irrig		13.60
3N	28E	WM	28	NENE			Supp Irrig		33.00
3N	28E	WM	28	NWNE			Supp Irrig	1	33.00
3N	28E	WM	28	SWNE			Supp Irrig		29.40
3N	28E	WM	28	SENE			Supp Irrig		29.40
3N	28E	WM	28	NENW			Supp Irrig		31.30
3N	28E	WM	28	NWNW			Supp Irrig		31.20
3N	28E	WM	28	SWNW			Supp Irrig		31.00
3N	28E	WM	28	SENW			Supp Irrig		

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3N 3N	28E 28E 28E	WM						# PRIMARY ACRES	SUPPLEMENTAL ACRES
3N 3N 3N 3N 3N 3N			28	NESW			Supp Irrig		30.50
3N 3N 3N 3N 3N	28E	WM	28	NWSW			Supp Irrig		30.20
3N 3N 3N 3N		WM	28	swsw			Supp Irrig		39.00
3N 3N 3N	28E	WM	28	SESW			Supp Irrig		39.00
3N 3N	28E	WM	28	NESE			Supp Irrig		27.20
3N	28E	WM	28	NWSE			Supp Irrig		28.00
	28E	WM	28	SWSE			Supp Irrig		35.90
3N	28E	WM	28	SESE			Supp Irrig		30.90
	28E	WM	29	NESW			Supp Irrig		28.30
3N	28E	WM	29	NWSW			Supp Irrig		29.70
3N	28E	WM	29	swsw			Supp Irrig		33.70
3N	28E	WM	29	SESW			Supp Irrig		36.50
3N	28E	WM	29	NESE			Supp Irrig		30.00
3N	28E	WM	29	NWSE			Supp Irrig		26.20
3N	28E	WM	29	SWSE			Supp Irrig		34.90
3N	28E	WM	29	SESE			Supp Irrig		36.90
3N	28E	WM	32	NENE			Supp Irrig		36.70
3N	28E	WM	32	NWNE			Supp Irrig		36.90
3N	28E	WM	32	SWNE			Supp Irrig		32.20
3N	28E	WM	32	SENE			Supp Irrig		32.00
3N	28E	WM	32	NENW			Supp Irrig		36.40
3N	28E	WM	32	NWNW			Supp Irrig		31.70
3N	28E	WM	32	SWNW			Supp Irrig		31.90
3N	28E	ŵМ	32	SENW			Supp Irrig		31.50
3N	28E	WM	33	NENE			Supp Irrig		31.30
3N	28E	WM	33	NWNE			Supp Irrig		36.50
3N	28E	WM	33	SWNE			Supp Irrig		31.00
3N	28E	WM	33	SENE			Supp Irrig		31.00
3N	28E	WM	33	NENW			Supp Irrig		36.90
3N	28E	WM	33	NWNW			Supp Irrig		36.30
3N	28E	WM	33	SWNW			Supp Irrig		32.00
3N	28E	WM	.33	SENW			Supp Irrig		32.40
3N	28E	WM	33	NESW			Supp Irrig		29.20
3N	28E	WM	33	NWSW			Supp Irrig		30.90
3N	28E	WM	33	swsw			Supp Irrig		32.70
3N	28E	WM	33	SESW			Supp Irrig		30.50
3N	28E	WM	33	NESE			Supp Irrig		31.10
3N	28E	WM	33	NWSE			Supp Irrig		31.20
3N	28E	WM	33	SWSE			Supp Irrig		32.70
3N	28E	WM	33	SESE			Supp Irrig		32.30
Total Ac					1	1			3284.95

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and QQ.

B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport <u>and</u> apply the water from the point of diversion to the place of use.

1. Is a pump used?

YES

If "NO" items 2 through item 6 may be deleted.

2. Pump Information:

Manufacturer	MODEL	SERIAL NUMBER	Type (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE
Sparks Lagoon Pump Sta.					,
Pump 1 - Cornell	6HH-F18DBK	C0201115025	Centrifugal	8"	6"
Pump 2 - Cornell	6HH-F18DBK	C0201115035	Centrifugal	8"	6"
Pump 3 - Cornell	6HH-F18DBK	C0201115020	Centrifugal	8"	6"
Pump 3 - Cornell	6HH-F18DBK	C0201115040	Centrifugal	8"	6"

3. Motor Information:

MANUFACTURER	RPM	Horsepower
Butter Creek Lagoon Pump Sta.		
Pump 1 - Baldor EM2563T-4	1780	200
Pump 2 - Baldor EM2563T-4	1780	200
Pump 3 - Baldor EM2563T-4	1780	200
Pump 4 - Baldor EM2563T-4	1780	200

MAR 2 1 2025 OWRD 4. Theoretical Pump Capacity:

Horsepower	OPERATING PSI	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
Sparks Lagoon Pump Sta.				
Pump 1 – 200 hp	100 psi	19 ft positive suction head	85 ft (800'-715')	2676 gpm (5.96 cfs)
Pump 2 – 200 hp	100 psi	19 ft positive suction head	85 ft (800'-715')	2676 gpm (5.96 cfs)
Pump 3 – 200 hp	100 psi	19 ft positive suction head	85 ft (800'-715')	2676 gpm (5.96 cfs)
Pump 4 – 200 hp	100 psi	19 ft positive suction head	85 ft (800'-715')	2676 gpm (5.96 cfs)

5. Provide pump calculations:

SPARKS RESERVOIR PUMPS

(Four identical 200 hp pumps. Normal peak operation is two pumps.)

Estimated Pumping head (TDH ft)

Positive head at pump suction

Pressure 100 psi at pump discharge head x 2.31 ft/psi =

Misc. 10 ft friction loss valves, fittings,

Total TDH

-19 ft
231 ft
232 ft

Total TDH 222 ft

Estimated Flow Rate Each Pump

Hp = $\frac{\text{TDH x gpm}}{3960 \text{ x eff.}}$ or gpm = $\frac{3960 \text{ x eff x hp}}{\text{TDH}}$ = $\frac{3960 \text{ x 75\% x 200 hp}}{222 \text{ ft}}$ = $\frac{2676 \text{ gpm or 5.96 cfs}}{222 \text{ ft}}$

Estimated Flow Rate for Two Pumps 2676 gpm x 2 = 5352 gpm (11.93 cfs)

6. Measured Pump Capacity (using meter if meter was present and system was operating):

INITIAL METER READING	ENDING METER READING	DURATION OF TIME	TOTAL PUMP OUTPUT
		OBSERVED	(IN CFS)
Not Applicable			

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

YES

If "NO" items 8 through item 13 may be deleted.

Received

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8. Mainline Information:

MAINLINE SIZE	LENGTH	TYPE OF PIPE	Buried or Above Ground
6"	1500'	PVC	Buried
12"	1330'	PVC	Buried
15"	14410'	PVC	Buried
16"	21350'	PVC	Buried
18"	30590'	PVC	Buried
20"	12090'	PVC	Buried
24"	9230'	PVC	Buried

9. Lateral or Handline Information:

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	Buried or Above Ground
Pivot to Mainline			
4"	2150'	PVC	Buried
6"	3960'	PVC	Buried
8"	3760'	PVC	Buried
10"	46860'	PVC	Buried
12"	3780'	PVC	Buried

10. Sprinkler Information:

Size	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
5/32"dia nozzles	50 psi	5 gpm	66 Two - 1320 ft wheel lines	66 Two - 1320 ft wheel lines	330 gpm (0.74 cfs)

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Drip Emitter Information:

SIZE	OPERATING PSI	EMITTER OUTPUT (GPM)	TOTAL NUMBER OF EMITTERS	MAXIMUM NUMBER USED	TOTAL EMITTER OUTPUT (CFS)
Not Applicable					
					<u> </u>

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12. Drip Tape Information:

DRIPPER SPACING IN INCHES	GPM PER 100 FEET	TOTAL LENGTH OF TAPE	MAXIMUM LENGTH OF TAPE USED	TOTAL TAPE OUTPUT (CFS)	Additional Information
Not Applicable	-				

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13. Pivot Information:

PIVOT NUMBER	MANUFACTURER	MAXIMUM WETTED	OPERATING	TOTAL PIVOT	TOTAL PIVOT
		RADIUS	PSI	OUTPUT (GPM)	OUTPUT (CFS)
LL01	Valley	1355'	50 psi	750 gpm	1.67 cfs
LL02	Pierce	1358'	50 psi	750 gpm	1.67 cfs
LL03	Pierce	1318' part circle	50 psi	750 gpm	1.67 cfs
LL04	Valley	1316′	50 psi	750 gpm	1.67 cfs
LL05	Valley	1217'	50 psi	750 gpm	1.67 cfs
LL06	Pierce	1338'	50 psi	750 gpm	1.67 cfs
LL07	Valley	1654' part circle	50 psi	750 gpm	1.67 cfs
LL08	Valley	1291'	50 psi	750 gpm	1.67 cfs
LL09	Valley	1281'	50 psi	750 gpm	1.67 cfs
LL10	Pierce	1389'	50 psi	750 gpm	1.67 cfs
LL11	Pierce	1315'	50 psi	750 gpm	1.67 cfs
LL12	Valley	1312'	50 psi	750 gpm	1.67 cfs
LL13	Pierce	1333'	50 psi	750 gpm	1.67 cfs
LL14	Valley	1272'	50 psi	750 gpm	1.67 cfs
LL15	Pierce	1313'	50 psi	750 gpm	1.67 cfs
LL16	Pierce	1327'	50 psi	750 gpm	1.67 cfs
LL17	Valley	1328'	50 psi	750 gpm	1.67 cfs
LL18	Valley	1322'	50 psi	750 gpm	1.67 cfs
LL19	Valley	1305'	50 psi	750 gpm	1.67 cfs
LL20	Valley	1276'	50 psi	750 gpm	1.67 cfs
LL21	Valley	537'	50 psi	750 gpm	1.67 cfs
LL22	Valley	537'	50 psi	750 gpm	1.67 cfs
LL23	Valley	537'	50 psi	750 gpm	1.67 cfs
LL24	Valley	1328'	50 psi	750 gpm	1.67 cfs
LL25	Valley	1306′	50 psi	750 gpm	1.67 cfs
LL26	Valley	1314'	50 psi	750 gpm	1.67 cfs
LL27	Valley	1313'	50 psi	750 gpm	1.67 cfs
LL28	Valley	1333'	50 psi	750 gpm	1.67 cfs
LL29	Valley	1318′	50 psi	750 gpm	1.67 cfs

C. Storage

1. Does the distribulge in system / i	oution system include in-system storage (e.g reservoir)?	. storage tank,	NO
If "NO", item 2 and	3 relating to this section may be deleted.	Received	
If "YES" is it a:	Storage Tank Bulge in System / Reservoir	MAR 2 1 2025	NO NO

Complete appropriate table(s), unused table may be deleted.

2. Storage Tank:

MATERIAL	CAPACITY	ABOVE GROUND OR BURIED
(CONCRETE, FIBERGLASS, METAL, ETC.)	(IN GALLONS)	
Not Applicable	,	

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE
(CORRESPOND TO MAP)		FEET)
Not Applicable		

D. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES

There is a 30" gravity flow pipe from the Sparks Reservoir to the Sparks Reservoir Pumping Station.

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

PIPE SIZE	PIPE	"C"	AMOUNT OF	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER
	Түре	FACTOR	FALL			FLOW (IN CFS)
30"	HDPE	150	3.0 ft	600 ft	0.5%	41.28 cfs

3. Provide calculations:

Refer to attached Sparks Reservoir Pipe Capacity Calculator.

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER
	MEASUREMENT		(IN CFS)
Not Applicable			

E. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

NO

If "NO", items 2 through 4 relating to this section may be deleted.

Items 2 through 4 relating to this section were deleted.

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F. Additional notes or comments related to the system:

SECTION 5

CONDITIONS

All conditions contained in the permit, permit amendment, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits and any extension final orders contain any or all of the following dates: the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed use was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit or permit extension of time:

	DATE FROM PERMIT	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	July 9, 2009		
BEGIN CONSTRUCTION (A)	Not Stated	July 9, 2009	Construction of the irrigation system had occurred prior to the permit being issued.
COMPLETE CONSTRUCTION (B)	July 9, 2014	December 2002	The water user installed the main pipe from the Butter Creek Reservoir to the Sparks Reservoir prior to the permit being issued.
COMPLETE APPLICATION OF WATER (C)	July 9, 2014	July 9, 2014	The water user used the water from Butter Creek and Sparks Reservoirs to provide supplemental irrigation to the land.

^{*} MUST BE WITHIN PERIOD BETWEEN PERMIT OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETELY APPLY WATER

2. Is there an extension final order(s)?

NO

If "NO", items a and b relating to this section may be deleted.

Items a and b relating to this section were deleted.

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3. Measurement Conditions:

a. Does the permit, permit amendment, or any extension final order require the installation of a meter or approved measuring device?

If "NO", items b through f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion.

b. Has a meter been installed?

YES

c. Meter Information

POD NAME OR #	MANUFACTURER	SERIAL#	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Butter Creek Reservoir To Sparks Res.	Foxboro Model 9110A- SIBA-NSJ-P	935827T471	Working	364243257 gal	2002
Sparks Reservoir Line 1	Foxboro Model 9112A- SIBA-NSJ-P	820727T441	Working	107031304 gal	2002
Sparks Reservoir Line 2	Foxboro Model 9112A- SIBA-NSJ-P	988027T481	Working	909987840 gal	2002
Sparks Reservoir Line 3	Foxboro Model 9112A- SIBA-NSJ-P	035427T501	Working	920105578 gal	2002

If a meter has been installed, items d through f relating to this section may be deleted.

Items d through f relating to this section were deleted.

4. Recording and reporting conditions:

a. Is the water user required to report the water use to the Department?

YES

If "NO", item b relating to this section may be deleted.

b. Have the reports been submitted?

YES

The water use reports are also being submitted with this COBU report.

If the reports have not been submitted, attach a copy of the reports if available.

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5. Fish Screening:

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion?

See attached letter from the Oregon Department of Fish and Wildlife regarding fish screening.

If "NO", items b through e relating to this section may be deleted.

Items b through e relating to this section were deleted.

6. By-pass Devices:

a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion?

NO

See attached letter from the Oregon Department of Fish and Wildlife regarding fish by-pass.

If "NO", items b and c relating to this section may be deleted.

Items b and c relating to this section were deleted.

Reminder: If by-pass devices were required, the COBU map must indicate their location in relation to the point of diversion.

7. Other conditions required by permit, permit amendment final order, or extension final order:

a. Was the water user required to restore the riparian area if it was disturbed?

b. Was a fishway required? See attached letter from ODF&W. NO

c. Was submittal of a water management and conservation plan required?

d. Other conditions?

If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

The permit includes a condition that if the riparian area is disturbed in the process of developing a point of diversion, the permittee shall be responsible for restoration and enhancement of such riparian area in accordance with ODFW's Fish and Wildlife Habitat Mitigation Policy OAR 635-415. In this permit the PODs are off channel reservoirs and were already developed at the time the permit was issued. Therefore, no riparian areas were disturbed in development of this permit.

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SECTION 6

ATTACHMENTS

Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION		
COBU Map Sht 1 of 2	COBU Map Sht 1 of 2		
COBU Map Sht 2 of 2	COBU Map Sht 2 of 2		
Butter Creek Lagoon Gravity Flow Pipe Calculator	Calculation of flow in Butter Creek Lagoon 24" outlet pipe.		
Sparks Reservoir Gravity Flow Pipe Calculator	Calculation of flow in Sparks Reservoir 30" outlet pipe.		
Letter for ODFW	ODFW letter stating fish screens and by pass devices are not required.		
Water Use Reports	Water Use Reports for 2012, 2013, and 2014		

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SECTION 7

CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1'' = 1320 feet, 1'' = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

The COBU map was prepared using the application map, the county assessors tax map, Google Earth images and observations and measurements made during the site visit.

Map Checklist

	be sure that the map you submit includes ALL the items listed below. Inder: Incomplete maps and/or claims may be returned.)			
\boxtimes	Map on polyester film			
\boxtimes	Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-si assessor map)	ze sc	ale of the cou	nty
\boxtimes	Township, Range, Section, Donation Land Claims, and Government Lo	ots		
\boxtimes	If irrigation, number of acres irrigated within each projected Donatio Government Lots, Quarter-Quarters	n Lar	nd Claims,	
NA	Locations of fish screens and/or fish by-pass devices in relationship to	o poi	nt of diversion	1
\boxtimes	Locations of meters and/or measuring devices in relationship to poin appropriation	t of c	diversion or	
\boxtimes	Conveyance structures illustrated (pumps, reservoirs, pipelines, ditch	es, e	etc.)	
\boxtimes	Point(s) of diversion or appropriation (illustrated and coordinates)			
\boxtimes	Tax lot boundaries and numbers		į	
\boxtimes	Source illustrated if surface water			
\boxtimes	Disclaimer ("This map is not intended to provide legal dimensions or ownership lines")	locat	tions of prope	rty
\boxtimes	Application and permit number or transfer number			
\boxtimes	North arrow		Received	
\boxtimes	Legend	11	MAR 2 1 2025	3
\boxtimes	CWRE stamp and signature			٠

BUTTER CREEK RESERVOIR - GRAVITY FLOW OUTLET PIPE

Pipe Capacity Calcualtor for pipes flowing full, using the Hazen-Williams Formula

Data Entry (fill in underlined blanks)

Interior Dia

24 inches, or

2 feet

Roughness

140

Fall =

0.83 feet

per

107 feet of distance

Grade =

0.007757, or

0.80%

Results calculated

Area of cros 3.141593 square feet

Wetted Per 6.283185 feet

Hydraulic R

0.5

Velocity = 8.646284 feet per second

Pipe Capac 27.163 cubic feet per second

SPARKS RESERVOIR GRAVITY FLOW OUTLET PIPE

Pipe Capacity Calcualtor for pipes flowing full, using the Hazen-Williams Formula

Data Entry (fill in underlined blanks)

Interior Dia

30 inches, or

2.5 feet

Roughness Fall =

150

3 feet per

600 feet of distance

Grade =

0.005, or

0.50%

Results calculated

Area of cros 4.908739 square feet

Wetted Per 7.853982 feet

Hydraulic R

0.625

Velocity = 8.41114 feet per second

Pipe Capac 41.288 cubic feet per second

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Department of Fish and Wildlife
John Day Fish Screening and Passage
357 Patterson Bridge Rd.
P.O. Box 515
John Day, OR 97845
Voice: 541-575-0561
FAX (541) 575-0868
www.dfw.state.or.us/

October 12, 2021

JR Simplot Co. Vic Conrad PO Box 27 Boise, ID 83707

Dear Mr. Conrad,

Your fish screen was inspected on 10/12/2021. In reference to water right transfer file number T-6783 this letter confirms that two National Marine Fisheries Service criteria fish screens as approved by ODFW is located on the property near GPS coordinates: West: 45.790078, -119.304839 and East: 45.792021, -119.293156.

In regards to the inspection of the fish screens located on Umatilla River, the following has been determined:

- The screens located at coordinates West: 45.790078, -119.304839 and East: 45.792021, -119.293156 are water user-built screens using 3/32nd diameter stainless steel perforated plate.
- The west station is two passive screens that are 24" long and 12" diameter manifolded together.
- 3. The west station is approved for water use up to 1,409.54 GPM or 3.14 CFS.
- The east station is two passive screens that are 24" long and 14.5" diameter manifolded together.
- 5. The east station is approved for water use up to 1,775.84 GPM or 3.95 CFS.
- All screen and pump configurations meet National Marine Fisheries Service criteria at the time of inspection, any changes or modifications to the configurations will not be covered by this certification letter.
- 7. These screens are end of pipe screens; therefore, no by-pass is required.

Please contact me if you have any questions regarding this letter.

Sincerely,

Nathaniel Ashley Fish Screening and Passage Coordinator

Nathirl Ashly

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CC: Oregon Water Resources Department

Buttercreek and Sparks Reservoirs						
2012 Water Use						
	Total acre feet delivered					
Month	Flow Meter	Flow Meter	Flow Meter	Total		
	Line 1	Line 2	Line 3			
January	0.0	0.0	0.0	0.0		
February	0.0	0.0	0.0	0.0		
March	0.0	0.0	0.0	0.0		
April	0.0	0.0	0.0	0.0		
May	0.0	1.6	44.8	46.4		
June	29.6	39.6	74.8	143.9		
July	29.8	46.0	21.3	97.1		
August	0.0	0.0	0.0	0.0		
Sept	19.4	0.0	5.2	24.6		
October	0.0	0.0	0.0	0.0		
Nov	0.0	0.0	0.0	0.0		
Dec	0.0	0.0	0.0	0.0		
Total	78.7	87.1	146.1	312.0		

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Buttercreek and Sparks Reservoirs					
2013 Water Use					
	Total arce feet delivered				
Month	Flow Meter	Flow Meter	Flow Meter	Total	
	Line 1	Line 2	Line 3		
January	0.0	0.0	0.0	0.0	
February	0.0	0.0	0.0	0.0	
March	0.7	0.0	40.7	41.4	
April	9.3	0.0	2.7	12.0	
May	0.0	0.0	0.0	0.0	
June	37.8	0.0	70.5	108.3	
July	128.1	0.0	17.5	145.6	
August	36.9	0.0	19.3	56.2	
Sept	11.1	0.0	4.0	15.1	
October	7.1	0.0	0.2	7.2	
Nov	0.0	0.0	0.0	0.0	
Dec	0.0	0.0	0.0	0.0	
Total	230.9	0.0	154.9	385.9	

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	Buttercreek a	nd Snarks Res	ervoirs		
Buttercreek and Sparks Reservoirs					
2014 Water Use					
	Total arce feet delivered				
Month	Flow Meter	Flow Meter	Flow Meter	Total	
	Line 1	Line 2	Line 3		
January	0.0	0.0	0.0	0.0	
February	0.0	0.0	0.0	0.0	
March	0.0	0.0	3.3	3.3	
April	0.0	0.0	0.0	0.0	
May	0.0	0.0	0.0	0.0	
June	44.6	0.0	0.0	44.6	
July	33.7	0.0	0.0	33.7	
August	17.4	0.0	0.0	17.4	
Sept	7.6	0.0	2.1	9.7	
October	21.5	0.0	14.1	35.5	
Nov	0.0	0.0	0.0	0.0	
Dec	0.0	0.0	0.0	0.0	
Total	124.7	0.0	19.4	144.1	

Received

MAR 2 1 2025

CLARK Gerald E * WRD

From:

CLARK Gerald E * WRD

Sent:

Tuesday, March 25, 2025 2:41 PM

To:

'dalevconsulting@gmail.com'

Cc:

wporfily@gmail.com; boblevy@windyriverfarms.com; KAVANAGH Kerry L * WRD

Subject:

RE: COBU for Permit S-54582

Dale,

Thanks for the update. I have talked with CSG Staff and they are aware that the mylars are on their way. We will merge them with the previously received Claim materials.

Have a great day!

Gerry

Gerry Clark

Oregon Water Resources Department

Program Analyst, Certificate Section, Water Right Services Division 725 Summer Street NE, Suite A Salem, OR 97301 | Phone 503-979-9103

From: dalevconsulting@gmail.com <dalevconsulting@gmail.com>

Sent: Tuesday, March 25, 2025 2:33 PM

To: CLARK Gerald E * WRD < Gerald.E.CLARK@water.oregon.gov>

Cc: wporfily@gmail.com; boblevy@windyriverfarms.com

Subject: COBU for Permit S-54582

Hi Gerry,

I prepared a COBU report for Permit S-54582. The original report document was recently mailed to the department. The report document included paper copies of 11" x 17" map sheets (there are two map sheets). The mylar map sheets were not included with the original COBU document because we didn't want to fold the mylar sheets. I am mailing the 11" x 17" mylar map sheets to you today. Please watch for the mylar sheets and file them with the original COBU report.

Thank you,

Dale

DGV Consulting, PLLC
Dale VanSchoiack, PE, CWRE
2141 S. Lyle, Kennewick, WA 99337
509 627 8717
dalevconsulting@gmail.com