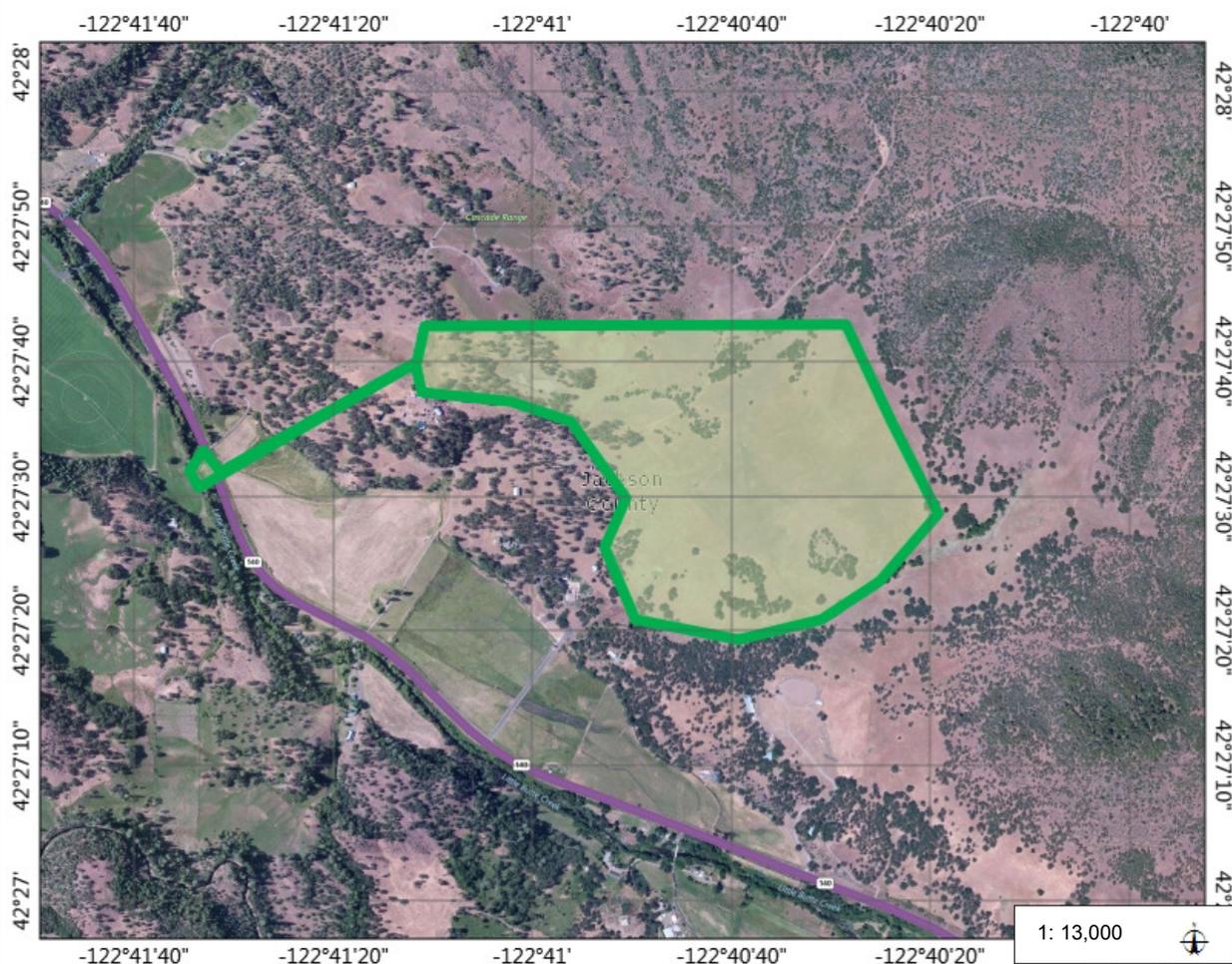


Little Butte Creek Water Quality and Quantity Improvement Project - Bradshaw Phase 1



- Legend**
- County Boundaries (2007)
 - States & Provinces
 - Other States and Provinces
 - Oregon

1: 13,000



WGS_1984_Web_Mercator_Auxiliary_Sphere
 © Oregon Explorer (<http://oregonexplorer.info>)

This map is a user generated static output from the Oregon Explorer Map Viewer (http://tools.oregonexplorer.info/oe_map_viewer/Viewer.html?Viewer=OE) and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
THIS MAP IS NOT TO BE USED FOR NAVIGATION

Notes

Outline shows general project area including pump, pipe, and sprinkler locations

Bradshaw Cattle Co
10275 Highway 140
Eagle Point, OR 97524
541-261-5574

This ranch has been in my family for over 100 years. As a 4th generation rancher, I consider myself to be a steward to the land; therefore, committed to its sustainability. This grant will give this ranch the opportunity to improve the water management on 94 acres of currently flood irrigated land. The project eliminates run off waters therefore decreasing water temperature upon returning to the source, improving overall water quality for substantial improvements to the fish habitat. In addition to the fish habitat, it will reduce soil erosion and improve vegetation in the uplands.

Converting from flood irrigation to sprinklers will provide many benefits to our operation including savings in water, energy and labor. With the conversion to sprinkler irrigation, we will be able to cover more ground more uniformly, which increases the overall efficiency of the operation. It is documented that conversion from flood to sprinkler irrigation will result in an increase in crop yields. In addition, land that was once used for ditches can be converted into productive cropland.

This project has great significance and we are committed to its success in the above named improvements for the sustainability of the land and creek by providing labor, equipment, and cash outlays to ensure project completion. Without the grant funding it would be impossible to complete the project; therefore, leaving the natural resources as risk.

10 years ago we converted 10 acres of flood irrigation to a wheel line system to improve water efficiency. This improvement has proven to have better water distribution, improved vegetation, less land erosion, and elimination of tail water.

The multiple goals of this project focus on interventions that fit within the outline of our long term goals to conserve water and irrigation coherence of this operation. This project allows for energy, fuel, time, and water efficiency that will surpass all previous endeavors. We are grateful for an opportunity to improve the overall operations of this land.

Sincerely,



Lee Bradshaw
President, Merton Bradshaw Company

Bradshaw Cattle Co
10275 Highway 140
Eagle Point, OR 97524
541-261-5574

As the landowner this letter acknowledges the project performance benchmarks (see below) and is aware monitoring information will be required and will be public record.

Sincerely,



Lee Bradshaw
President, Merton Bradshaw Company

Interim, Phase I: Photo monitoring showing increase in vegetative cover within 1 year of project completion.

Phase II: Photo monitoring and water quality monitoring showing significant reduction in tailwater returns.

Long-term Benchmarks: Complete elimination of tailwater returns to Little Butte Creek



Jackson Soil & Water Conservation District
89 Alder Street, Central Point, Oregon 97502
Telephone: (541) 664-1070 FAX: (541) 727-7471
web-site: www.jswcd.org

January 11, 2016

Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Re: The Little Butte Creek Water Conservation and Quality Improvement Project

To Whom It May Concern

The Jackson Soil and Water Conservation District (The District) strongly supports the Little Butte Creek Water Conservation and Quality Improvement Project. The District has been involved with similar projects in the Little Butte Creek Watershed for the last 9 years. We have done extensive monitoring, both photo and water quality monitoring, which supports extremely positive impacts to water quality while improving the productive potential of the land.

This type of project is complementary to our Mission & Vision Statement and our Long Range Plan. The District, together with the Natural Resource Conservation Service (NRCS), implemented a joint Oregon Department of Agriculture (ODA) Focus Area and NRCS Conservation Implementation Strategy (CIS) Priority Area within the Little Butte Creek Watershed. The District is committed, through this joint program, to continue the implementation of irrigation conversion projects. Consequently, the District will continue to partner with local landowners and Federal, State and local agencies to help landowners design, develop, finance, and implement these projects.

Additionally, these projects are very complementary with the goals of the Water for Irrigation, Streams, and Economy (WISE) project being conducted in Jackson County.

If you have any questions related to this letter of support, please call me at (541) 664-1070 Ext. 411 or e-mail me at randy.white@jswcd.org.

Sincerely,

Randy White, District Manager



200 South Ivy Street - Room 177 Medford, Oregon 97501
Customer Service (541) 774-2430 • Administration (541) 774-2440
Fax (541) 774-2555 • wtrcom@ci.medford.or.us
www.medfordwater.org

January 14, 2016

Oregon Water Resources Department
Attention: Jon Unger, Water Resources Grant Administrator
725 Summer Street NE, Suite A
Salem, OR 97301

RE: Letter of Support for Little Butte Creek Water Conservation and Quality Improvement Project

Dear Mr. Unger,

The Medford Water Commission is very supportive of this grant application and project which will improve water quality and quantity in Little Butte Creek. Little Butte Creek flows into the Rogue River just about a mile upstream of our intake. The water hugs the south bank of the Rogue River and does not mix much with the existing flow, thus the water we divert from the Rogue is a high percentage of Little Butte Creek flow. Anything that can be done to improve water quality and provide a higher raw water source will reduce treatment costs and reduce risk to our customers. We provide drinking water to approximately 130,000 people living in Jackson.

The Medford Water Commission has provided a \$20,000 grant to help fund this important project. In addition, we continue to work in partnership with the Jackson Soil and Water Conservation District, the Rogue River Watershed Councils, Natural Resource Conservation Service, City of Eagle Point, and State and Federal agencies to improve water quality and quantity in Little Butte Creek and its tributaries, contributing significant In-kind support.

This project will reduce and possibly eliminate return flows (tailwater) to Little Butte Creek which will improve water quality. Tailwater contributes high water temperatures, nutrients, bacteria, and possibly pesticides to Little Butte Creek. This project meets the guidelines and goals of the Integrated Water Resource Strategy Program and the Water Supply Development grant program. It accomplishes conservation which increases supply, it improves water quality, it leaves additional water instream for aquatic habitat, it provides economic and environmental benefits. We encourage you to support and provide funding for this important valuable project.

Thank you,

Robert C. Jones, RG, CEG, CWRE
Geologist



Oregon

Kate Brown, Governor

Department of Fish and Wildlife

Rogue Watershed District Office

1495 East Gregory Road

Central Point, OR 97502

(541) 826-8774

Fax: (541) 826-8776

odfw.com



January 13, 2016

Oregon Water Resources Department
ATTN: Jon Unger, Water Resources Grant Administrator
725 Summer Street NE, Suite A
Salem, OR 97301

Dear Jon,

The purpose of this letter is to express my support for the irrigation conversion project proposed for the Bradshaw Ranch, near Eagle Point, OR.

Little Butte Creek, which runs through the Ranch, is an important producer of Coho salmon and steelhead in the upper Rogue Watershed. However, the middle and lower reaches suffer from degraded water quality in the summer, primarily as a result of water diversion for irrigation and return of runoff.

Conversion from flood to sprinkler irrigation will reduce or eliminate runoff water returning to the creek, which will improve water quality. Fish habitat will see the most benefit if there is actual water savings that is left in stream, and I hope that this can be achieved.

I appreciate the Bradshaw's efforts to improve fish habitat in the Rogue Watershed and I fully support this project.

Sincerely,

Vince Oredson
Wildlife Habitat Biologist, ODFW Central Point
541-826-8774 ext. 232





15 January 2016

Oregon Water Resources Department
Attention Jon Unger, Water Resources Grant Administrator
725 summer Street NE, Ste A
Salem, OR 97301

Subject: Little Butte Creek Water Conservation and Quality Improvement Project

Mr. Unger:

Little Butte Creek is an incredibly important watershed within the Rogue Basin for native fish. Both the North and South Forks of Little Butte Creek produce large numbers of Coho Salmon, listed as threatened by NOAA Fisheries, and both summer and winter steelhead. The lower ends of the South Fork and the mainstem or Little Butte Creek are important for winter steelhead and fall Chinook Salmon production. Often overlooked, Pacific Lamprey also use Little Butte Creek extensively for spawning and rearing. This species is struggling up and down the West Coast and is deemed an important resource by the Cow Creek Band of Umpqua Tribe of Indians.

Water quality is one of the major limiting factors in Little Butte Creek and among the issues threatening water quality in this stream is irrigated agriculture. Many irrigators use flood irrigation techniques that carry sediment, fertilizers, chemicals, bacteria, and warm temperatures from fields to the stream. These pollutants impair the ability of all of the aforementioned fish species to thrive. They also prevent people in Eagle Point from contact recreation in the creek that flows through the heart of town. Little Butte Creek water makes up a large portion of the Medford Water Commission's withdrawal at Duff Water Treatment Plant. Less return flow along Little Butte Creek will increase water quality for all of these uses. And each and every one of those benefits is important to fulfilling Rogue River Watershed Council's mission.

For these reasons, we wholeheartedly support the Little Butte Creek Water Conservation and Quality Improvement Project. And our hope is that Mr. Bradshaw's neighbors take note and join the effort to minimize their irrigation return flows.

Sincerely,

A handwritten signature in blue ink that reads "Brian R. Barr". The signature is fluid and cursive, with a long horizontal stroke at the end.

Brian R. Barr
Executive Director

Hello, Angela.

Please touch base with the Cow Creek Band of Umpqua Tribe of Indians, the Confederated Tribes of Siletz and the Confederated Tribes of Grand Ronde.

Thanks,
Karen

Sent from my Verizon Wireless 4G LTE DROID

Angela Boudro <angelaboudro@gmail.com> wrote:

Hi Karen,

We are in the process of planning and securing funding for an irrigation project in the Little Butte Creek Watershed in Jackson County. I understand you are the contact person for determining which tribes may be affected by this project. I would like to contact them to begin communication regarding this project.

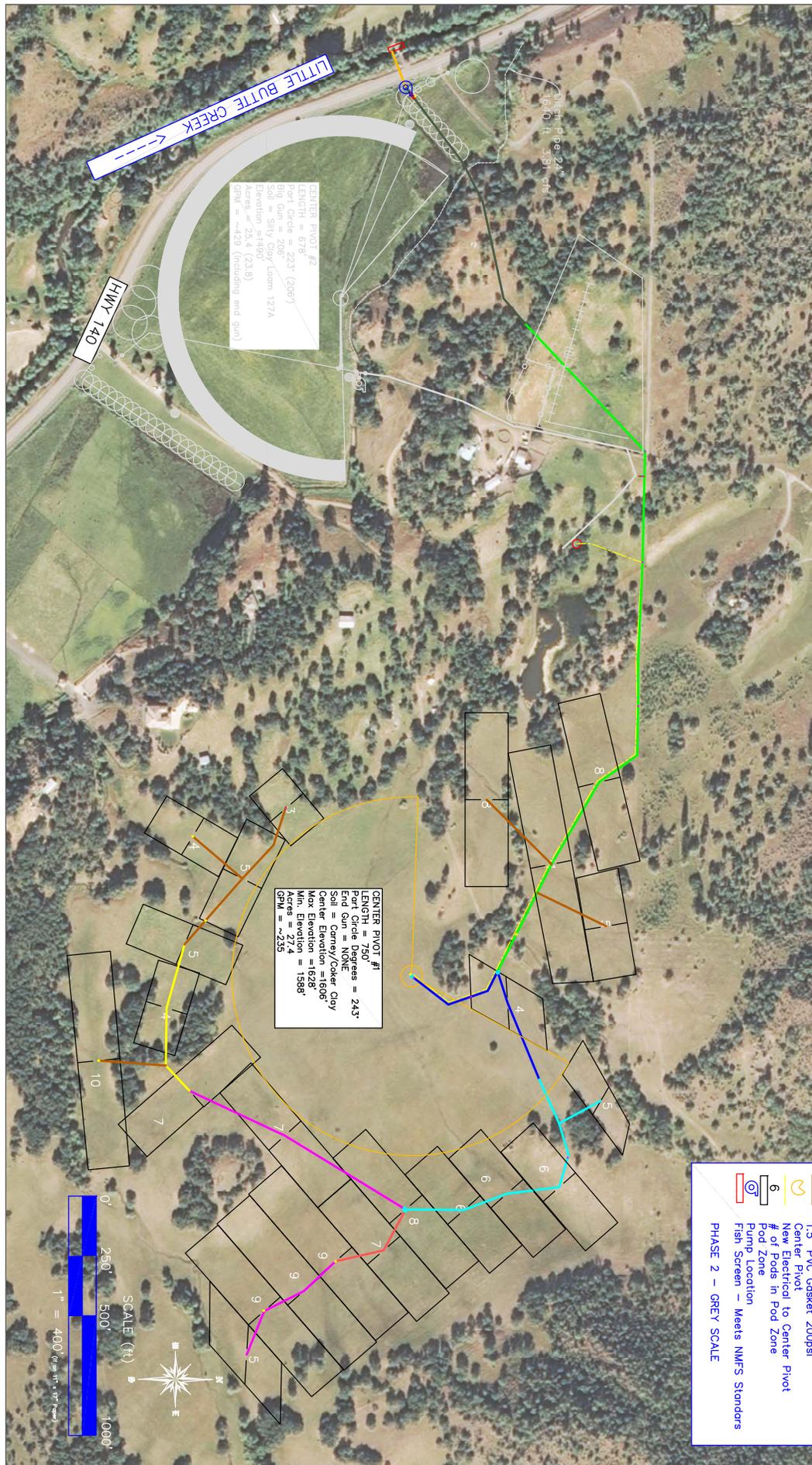
Thank you,

Angela Boudro

Boudro Enterprises
Independent Contractor for Jackson SWCD
541-890-4014

Little Butte Creek Water Conservation and Quality Improvement Project Implementation Area Project Layout

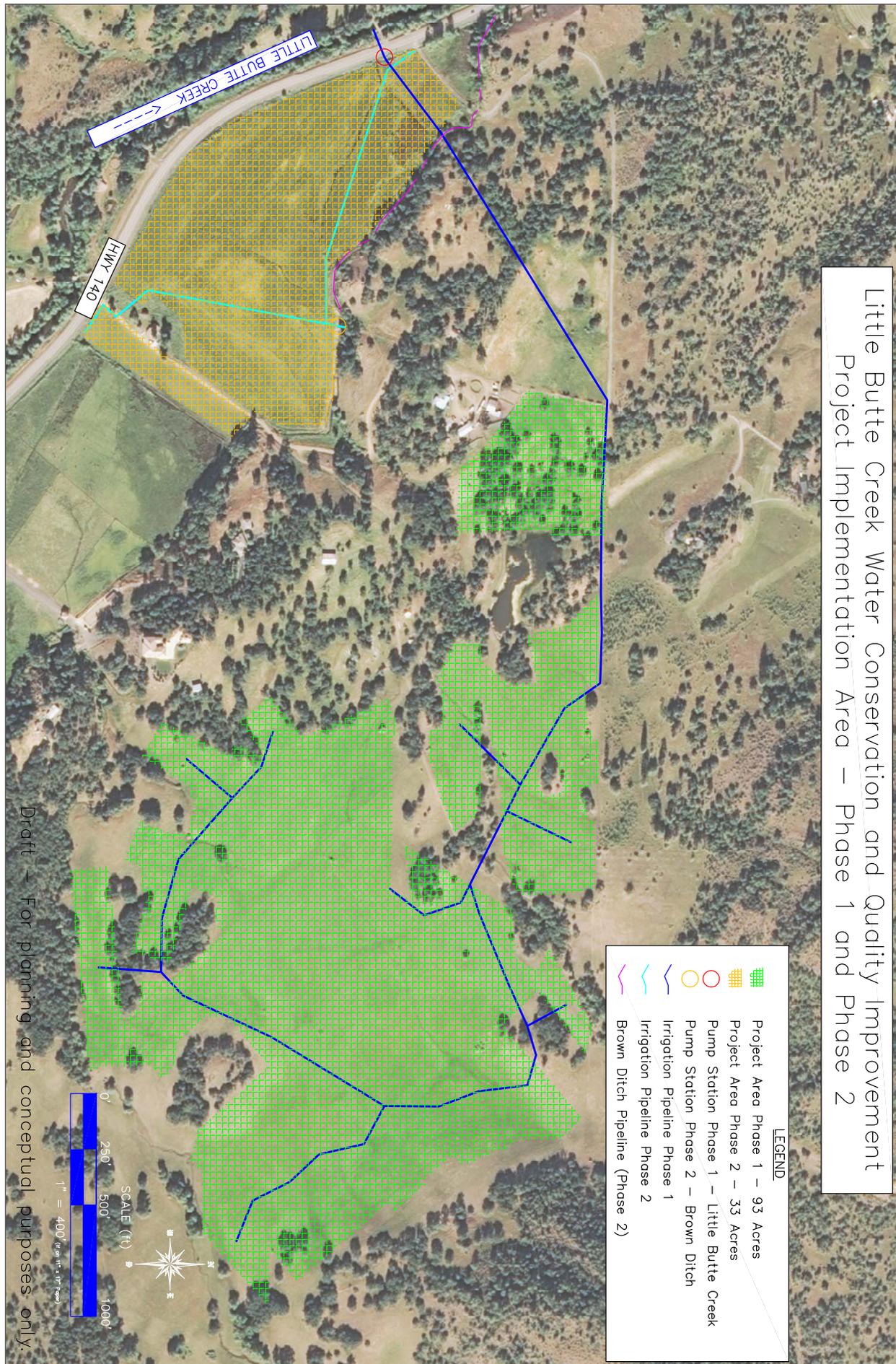
Draft – Phase 1 and Phase 2



LEGEND:

- PHASE 1
- 8" Aluminum Suction Line
- 8" Yellowline PVC 2500psi
- 6" Yellowline PVC 2000psi
- 6" PVC Gasket 200psi
- 4" PVC Gasket 160psi
- 3" PVC Gasket 160psi
- 2" PVC Gasket 200psi
- 1.5" PVC Gasket 200psi
- Center Pivot
- New Electrical to Center Pivot
- # of Pods in Pod Zone
- Pod Zone
- Pump Location
- Fish Screen – Meets NMFS Standards
- PHASE 2 – GREY SCALE

Little Butte Creek Water Conservation and Quality Improvement Project Implementation Area – Phase 1 and Phase 2



LEGEND	
	Project Area Phase 1 – 93 Acres
	Project Area Phase 2 – 33 Acres
	Pump Station Phase 1 – Little Butte Creek
	Pump Station Phase 2 – Brown Ditch
	Irrigation Pipeline Phase 1
	Irrigation Pipeline Phase 2
	Brown Ditch Pipeline (Phase 2)



Draft – For planning and conceptual purposes only.



Little Butte Creek Water Conservation and Quality Improvement
Project Implementation Area – Phase 1 and Phase 2

Location – 10275 HWY 140, Eagle Point
JACKSON COUNTY OREGON

	Date
Designed By: Paul DeMaggio	01/2016
Drawn By: Paul DeMaggio	01/2016
Checked By: _____	
Approved By: _____	
Title: _____	

OWRD Water Supply Development Grant Budget

A	B	C	D	E	F	G
<i>Itemize projected costs under each of the following categories:</i>	Unit Number	Unit Cost	In-Kind Match	Cash Match	OWRD Funds	Total Costs
	(e.g., # of hours)	(e.g., hourly rate)				(add columns D, E, F)
SALARIES, WAGES AND BENEFITS. List position titles, include only costs of employees charged to this grant.						
Angela Boudro, Project Manager	15	60	900			900
Paul DeMaggio	20	35	700			700
Lee Bradshaw, Merton Bradshaw Company	20	30	600			600
SUBTOTAL (1)			2,200	0	0	2,200
CONTRACTED SERVICES. Labor, supplies, and materials to be provided by <i>non-staff</i> for project implementation.						
trench	280	20		5600		5,600
lay and connect pipe	240	20		4800		4,800
Backfill	136	20		2720		2,720
Build & install diversion, pumphouse, pump and filters, etc.	192	20		3840		3,840
Install screen	60	20		1200		1,200
Operate heavy equipment	449	30		13470		13,470
Lease value of equipment	varied	varied		3839		3,839
Flush and check system	154	20		3080		3,080
Connect pod lines, mark zones	704	20		14,080		14,080
Install service pole and transformer	1	10,000		10,000		10,000
SUBTOTAL (2)			0	62,629	0	62,629
MATERIALS/SUPPLIES. Refers to items that are "used up" in the course of the project.						
Pump and filter station	varied	varied		62049		62,049
Main pipeline, fittings, valves	varied	varied		94,971		94,971
pod and pivot sprinklers, parts	varied	varied		56,576	65,672	122,248
SUBTOTAL (3)			0	213,596	65,672	279,268
BUDGET TOTAL			2,200	276,225	65,672	344,097

OWRD Water Supply Development Grant Budget

A	B	C	F	E	D	G
<i>Itemize projected costs under each of the following categories:</i>	Unit Number	Unit Cost	In-Kind Match	Cash Match	OWRD Funds	Total Costs
	(e.g., # of hours)	(e.g., hourly rate)				(add columns D, E, F)
SALARIES, WAGES AND BENEFITS. List position titles, include only costs of employees charged to this grant.						
Angela Boudro, Project Manager	10	60	600			600
Paul DeMaggio	15	35	525			525
Lee Bradshaw, Merton Bradshaw Company	15	30	450			450
SUBTOTAL (1)			1,575	0	0	1,575
CONTRACTED SERVICES. Labor, supplies, and materials to be provided by <i>non-staff</i> for project implementation.						
trench	44	20	880			880
lay and connect pipe	39	20	780			780
Backfill	46	20	920			920
Build & install diversion, pumphouse, pump and filters, etc.	132	20	2640			2,640
Install screen	60	20	1200			1,200
Operate heavy equipment	90	30	2700			2,700
Lease value of equipment	varied	varied		5915		5,915
Flush and check system	44	20	880			880
Install wheellines	99	20	1,980			1,980
Install conveyance pipeline	450	20	9,000			9,000
SUBTOTAL (2)			20,980	5,915	0	26,895
MATERIALS/SUPPLIES. Refers to items that are "used up" in the course of the project.						
Pump and filter station	varied	varied		42,650		42,650
Main pipeline, fittings, valves	varied	varied		13,368		13,368
Wheel Lines with movers	2	varied		16,520		16,520
Center pivot, wiper, booster, etc. Includes installation	1	75000		18,000	57,000	75,000
Conveyance Lining Pipe and fittings	varied	varied		22,837	26,658	49,495
SUBTOTAL (3)			0	113,375	83,658	197,033
BUDGET TOTAL			22,555	119,290	83,658	225,503