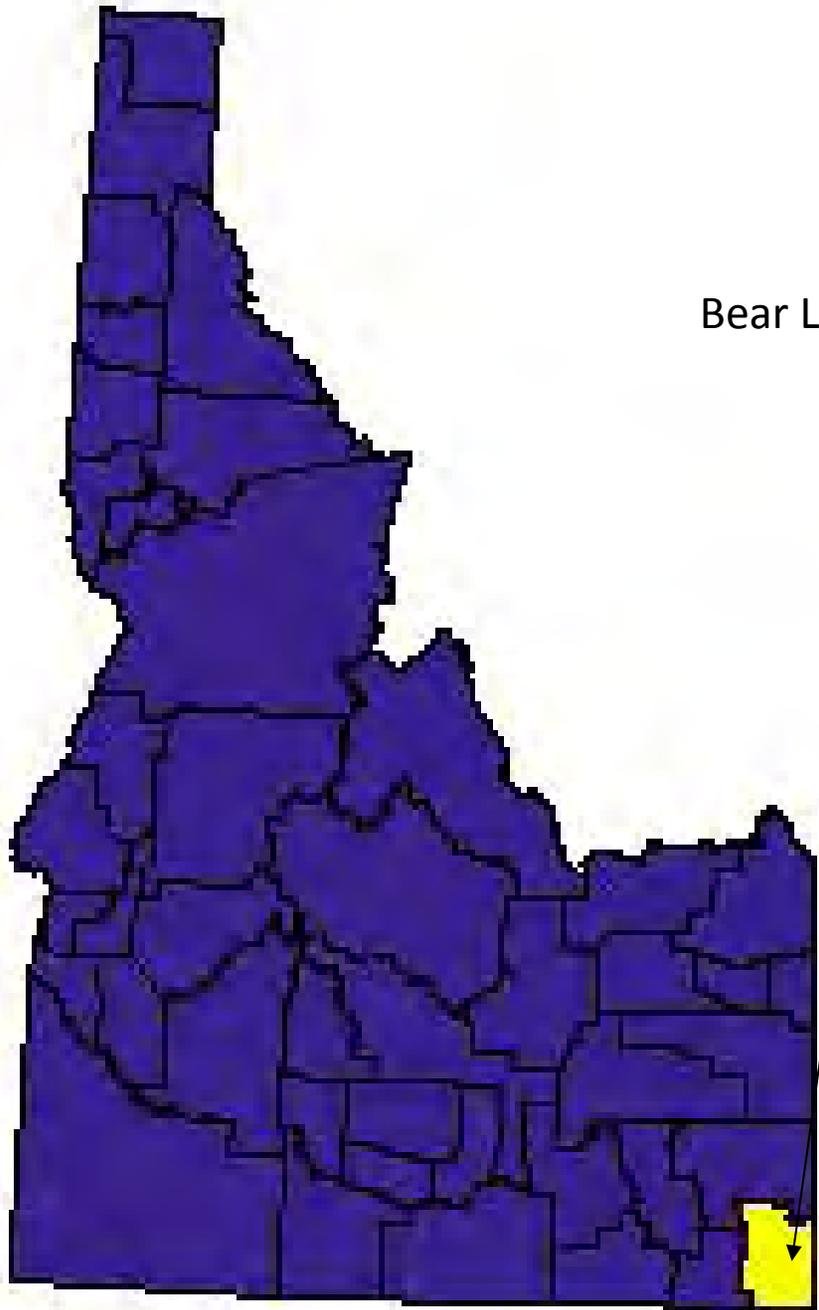


# Bear River Streambank Restoration Project

Sponsored by  
Bear Lake Soil & Water Conservation District



Bear Lake County

## Project Partners

- Marten Mast & Family (Abe, Nicki)
- Trout Unlimited – Warren Coyler
- Bear Lake Watch – Dave Cottle
- Fish & Wildlife Service – Rob Bundy, Dick Munoz
- Idaho Department of Ag. – Kelly Mortonson, Rick Rumsey, Allan Johnson,
- ISCC – Justin Krajewski, Ben Evans, Steven Smith
- IASCD – Chris Banks
- Bear Lake Construction
- NRCS – Rob Sampson, Bob Lehman, Jay Howard, Dave Rupp
- Pacific Corp / ECC
- Stephen Mills - Adjacent land owner
- DEQ
- Bear River Water Quality Task Force – letter of support
- Eulalie Langford – letter of support
- Bear Lake SWCD – JoAnn Taylor & Board Members

## Project Costs

319 Grant : \$32,938

Local Match: \$21,958

Total Project: \$54,896

USFW Additional Monies: \$25,000

## BMPs Installed

3 Rock Barbs

200 ft Rock riprap

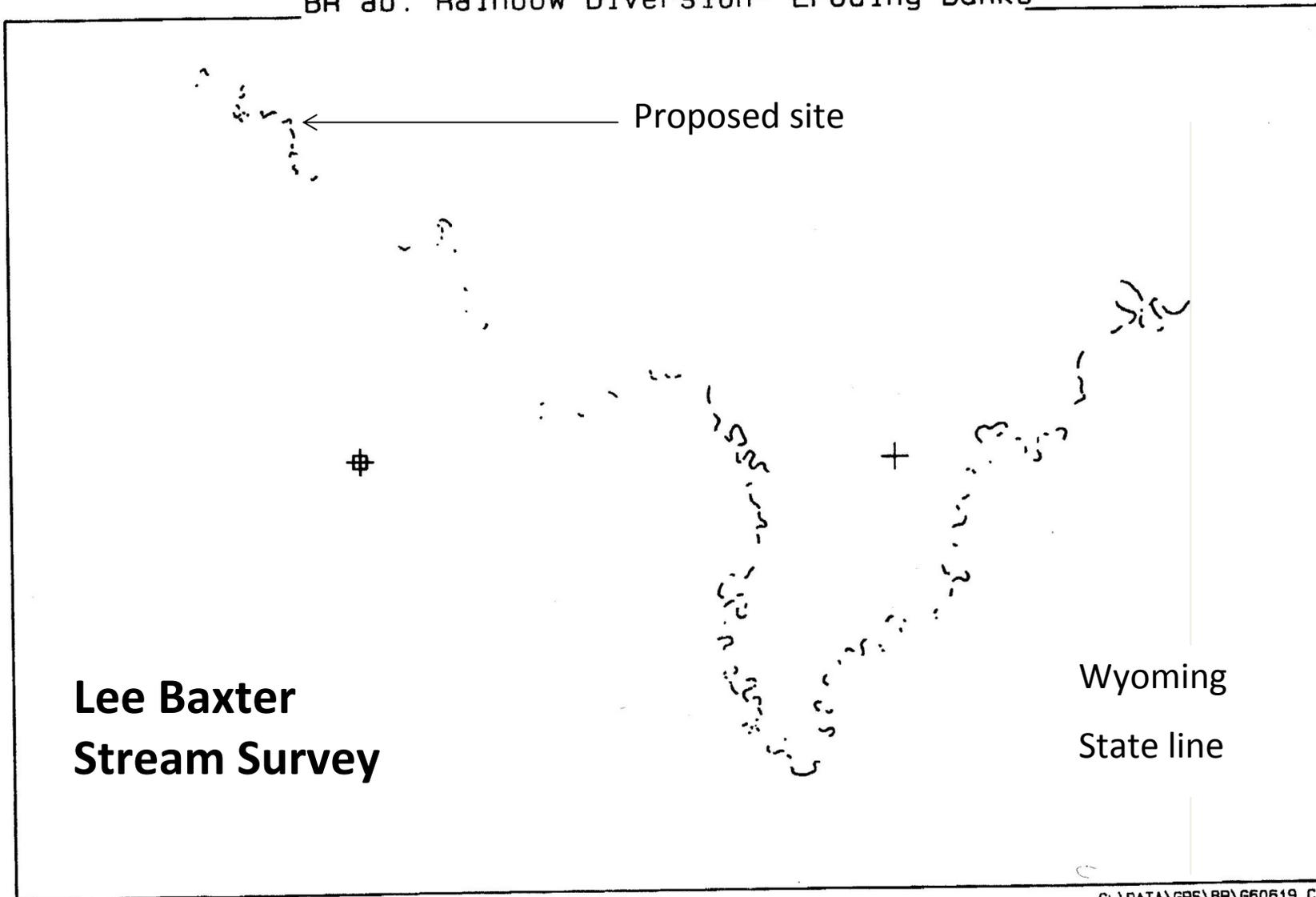
800 ft Willow Clumps and pole plantings

## Additional Bank

250 ft Toe Rock

250 ft Willow Poles

BR ab. Rainbow Diversion- Eroding Banks



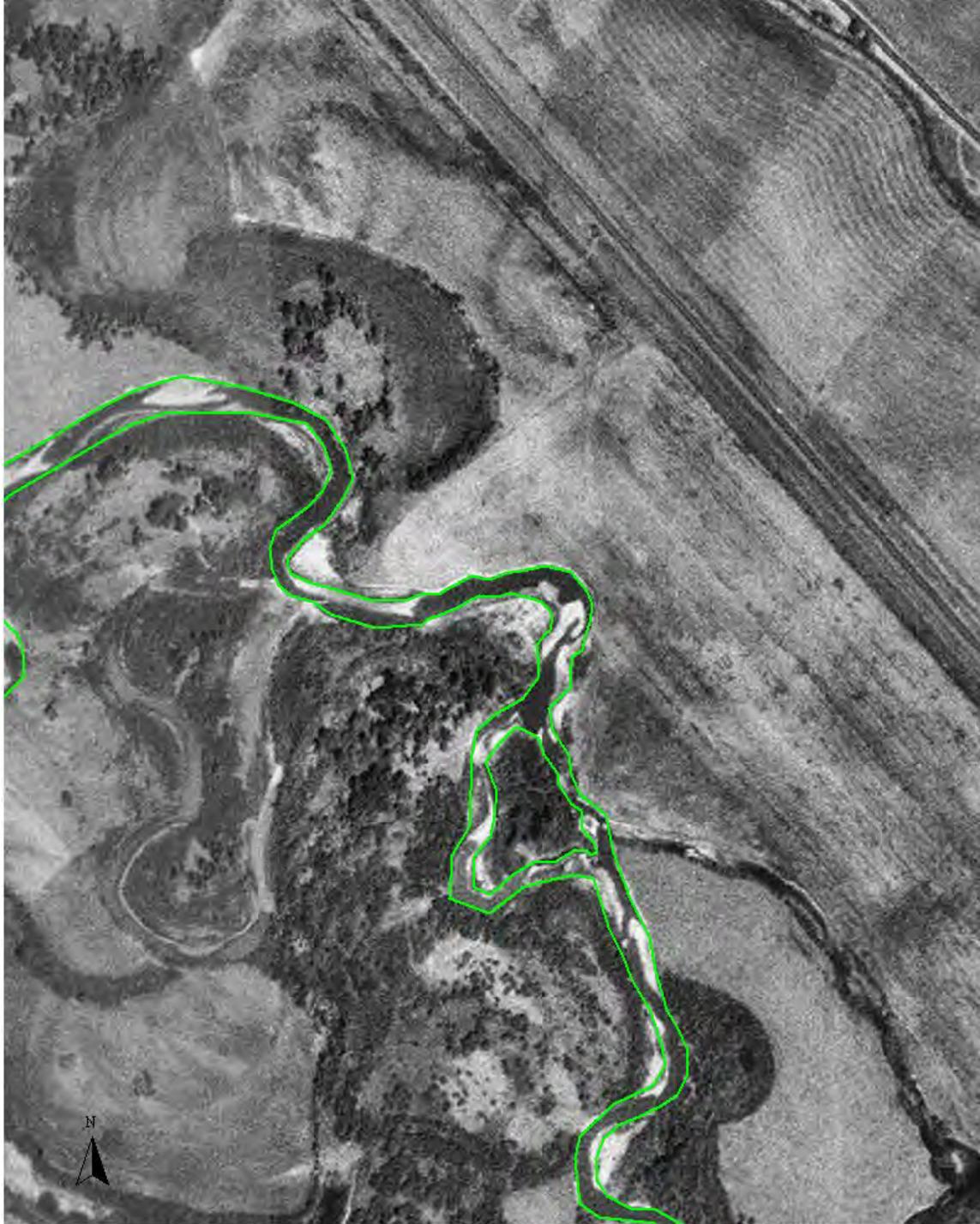
**Lee Baxter  
Stream Survey**

Wyoming  
State line

Scale 1:100000  
NAD-27 CONUS  
Universal Transverse Mercator

G:\DATA\GPS\BR\660619.COR  
Tick Interval - 10000Meters  
Master Tick Position - 4670000 480000

# 1992 Bear River Stream Channel



## 2004 Bear River Stream Channel



**Erosion Areas  
Tons of Sediment Lost**

**Outside  
19,476 tons**

**Streambank  
3,467 tons**



**Deposition Areas**  
**Tons of Sediment Gained**

**Point Bar**  
**8,971 tons**

**Streambank**  
**12,545 tons**



Martin Mast  
Streambank restoration project

original planned bank

additional planned bank









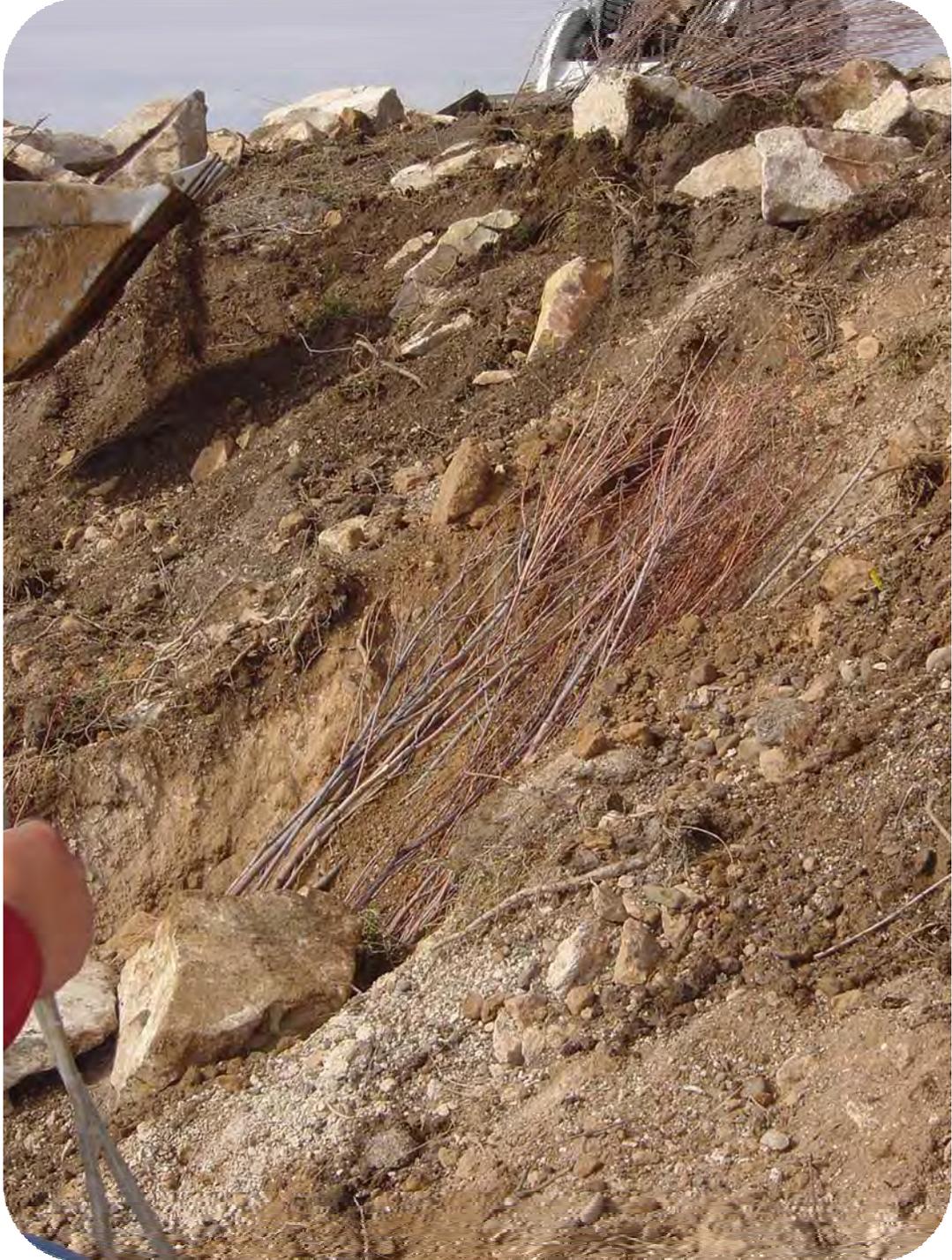












































# Dingle CAFO

Sponsored by

Bear Lake Soil and Water Conservation District

## Project Cost

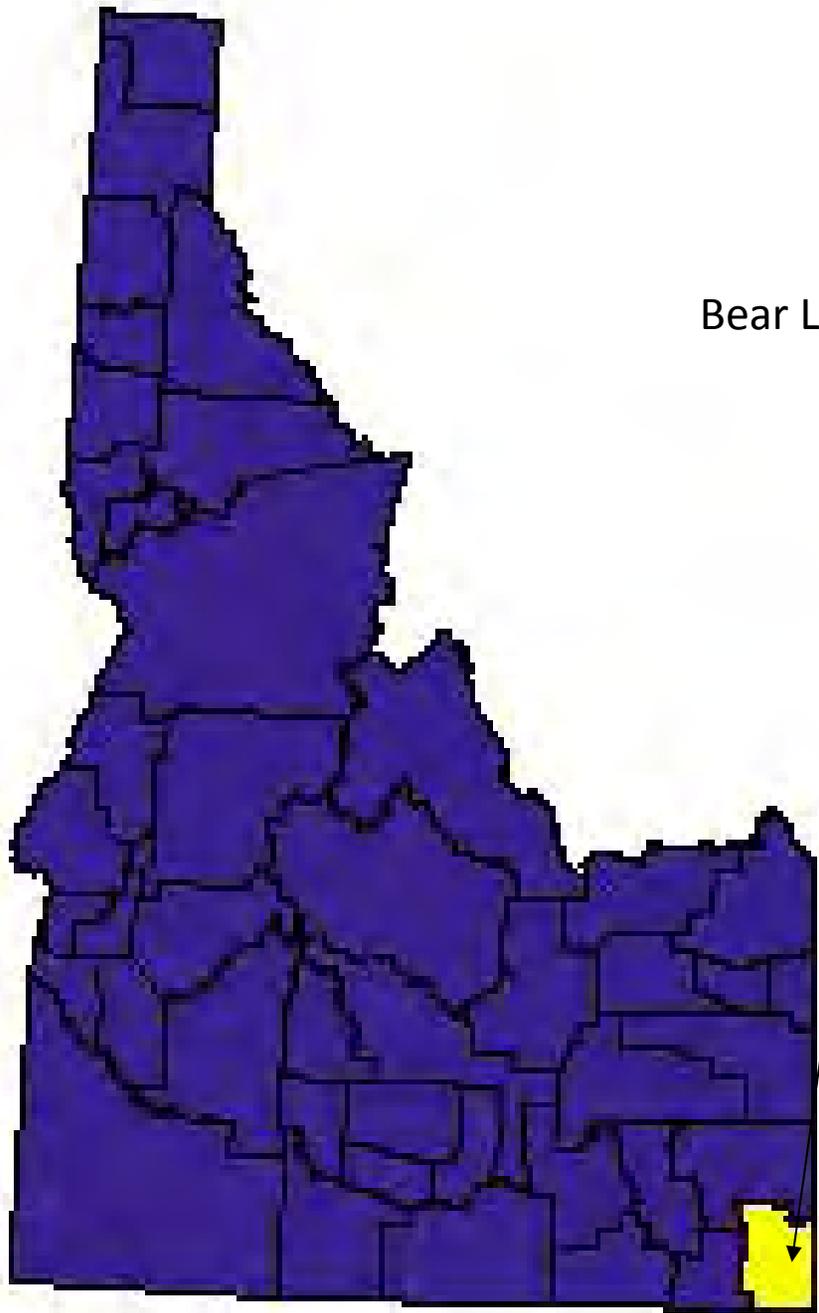
319 Grant: \$120,250

Local Match: \$88,915

ECC: \$25,000

ISCC: \$10,000

Total Project: \$244,165



Bear Lake County









# Max Bunderson Project

















POWDER RIVER  
EQUIPMENT COMPANY

# Chad Hulme Project

Pump House to protect the following  
Solar System Controls,  
Batteries, Generator,  
and Water System Valve Bank

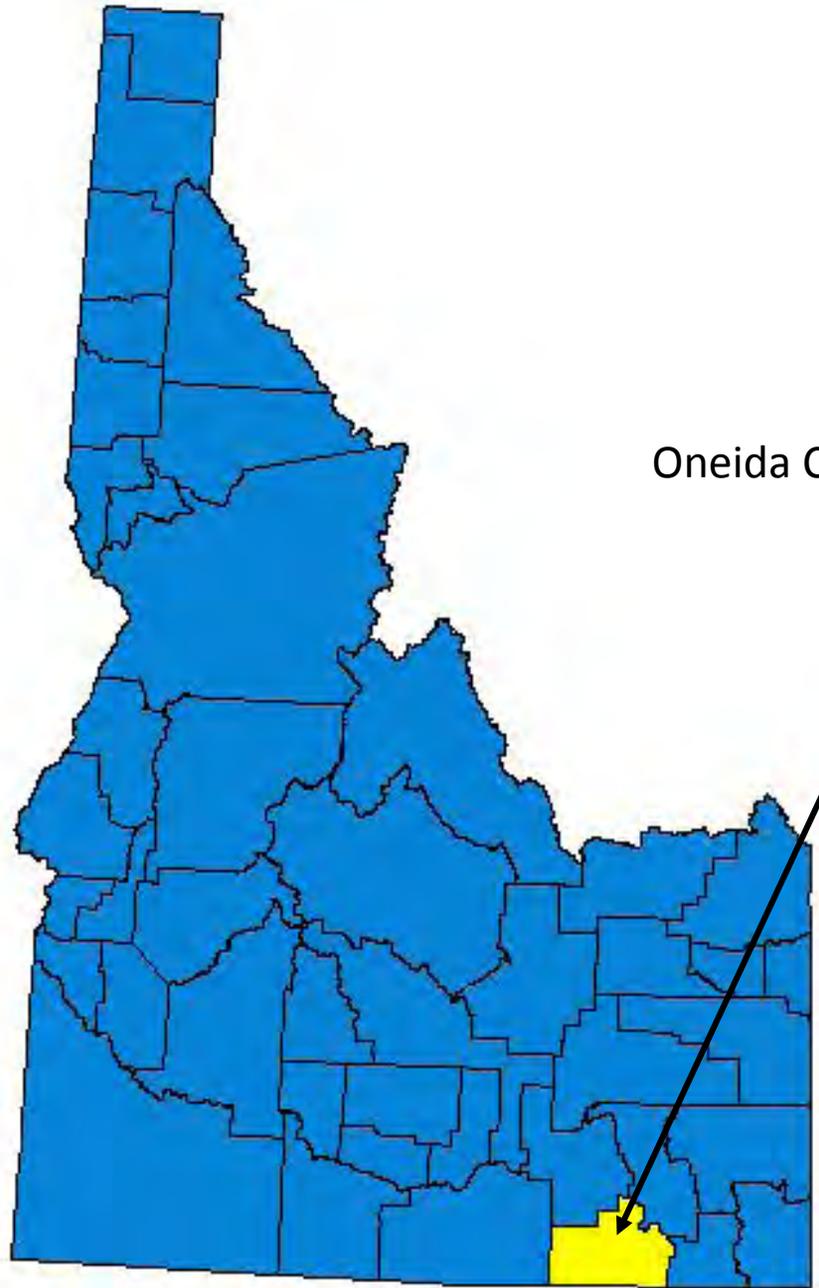
Solar Panels





# Wrights Creek Stream Restoration Project

**Sponsored By**  
**Oneida Soil & Water Conservation District**



Oneida County

## Project Costs

319 Grant: \$12,389

Local Match: \$12,657

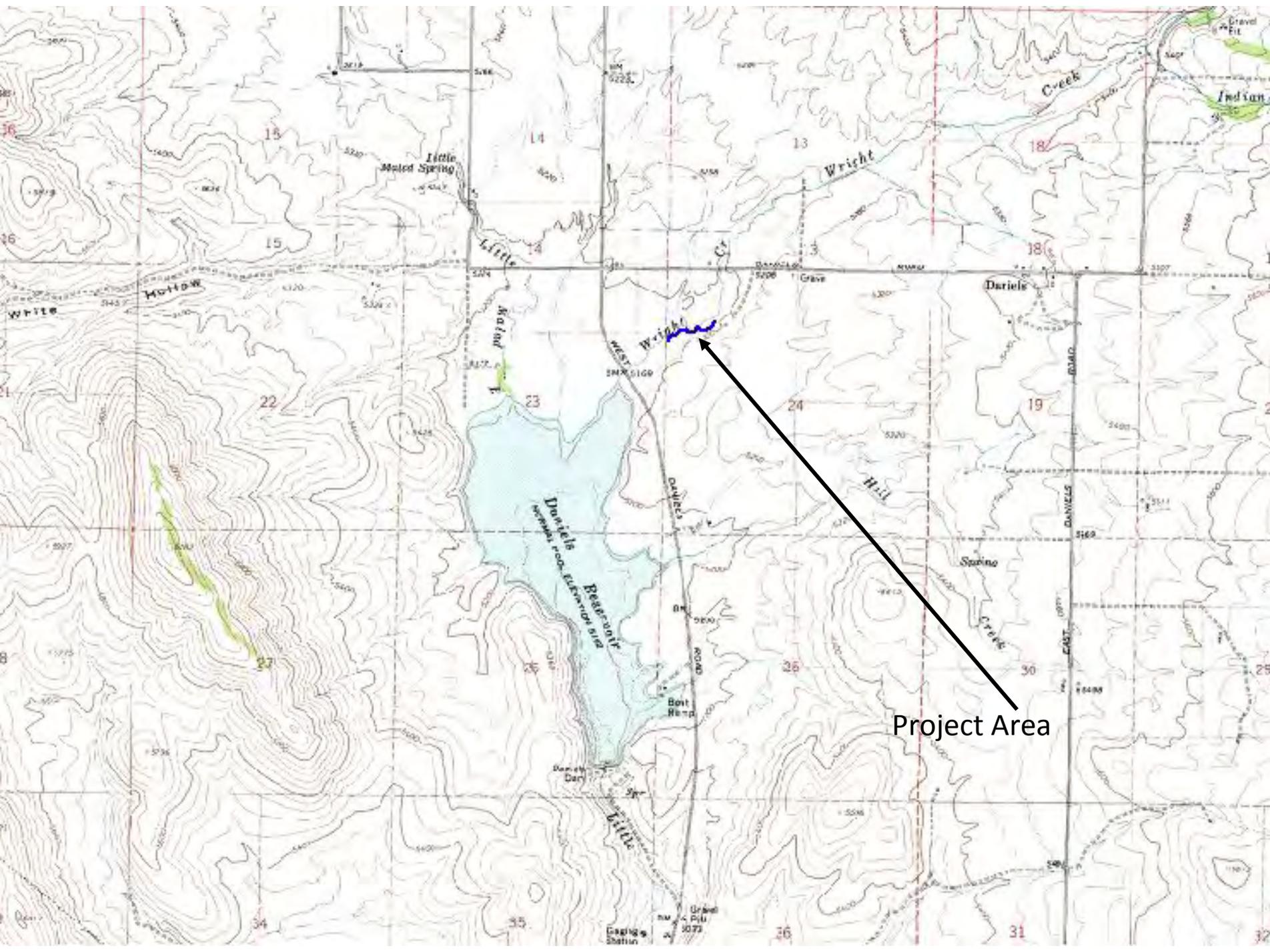
Total Project: \$25,047

BMPs Installed

2,257 feet of fence

# Project Partners

- Don Buehler and Family – Landowner
- NRCS
- ISCC
- IASCD
- Oneida Soil Conservation District



Project Area

- HUC: 16010204 Lower Bear – Malad
- Wrights Creek Listed for sediment
- Beneficial Uses are: Cold Water Aquatic Life, Salmonid Spawning, Primary Contact Recreation and Agriculture Water Supply
- Wrights Creek through the project area is contributing 10 to 15 tons of sediment per year to Daniels Reservoir











# Special 319 Project

4 Landowners

DEQ

Franklin SWCD

Caribou SCD

ISCC

IASCD

NRCS

## Project Costs

319 Grant : \$59,163

Local Match: \$49,542

Federal: \$7,100

Total Project: \$115,487

# Weston Creek Project

Winter feed Area /75 head of livestock

- 180' of 18" pipe to store 2,340 gallons
- 2,500' of 1.25" HDPE pipe
- 1 Wildlife Trough
- 2 Frost-free Drinkers
- 2 Frost-free Hydrants for back up water

# Wayne & Sterling Bingham Stock water pipeline

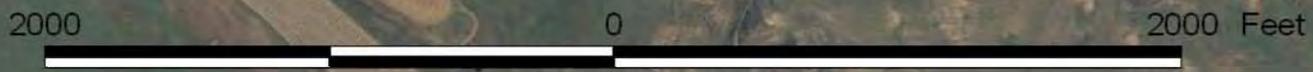
Existing 1" PVC and two existing troughs

Spring box with 2" PVC pipe outlet to 18" PVC pipe 180' long to provide 2378 gal of storage

Tie in to existing 1" pvc with 2500 feet of 1.25" HDPE pipe to get to corrals

Install two frost free cattle drinkers & hydrants

- Troughs and Spring
  - Spring
  - Existing Trough
  - Trough 1
  - Trough 2
- Pipeline
  - 180' of 18" PVC
  - Existing 1" PVC
  - 1.5" HDPE















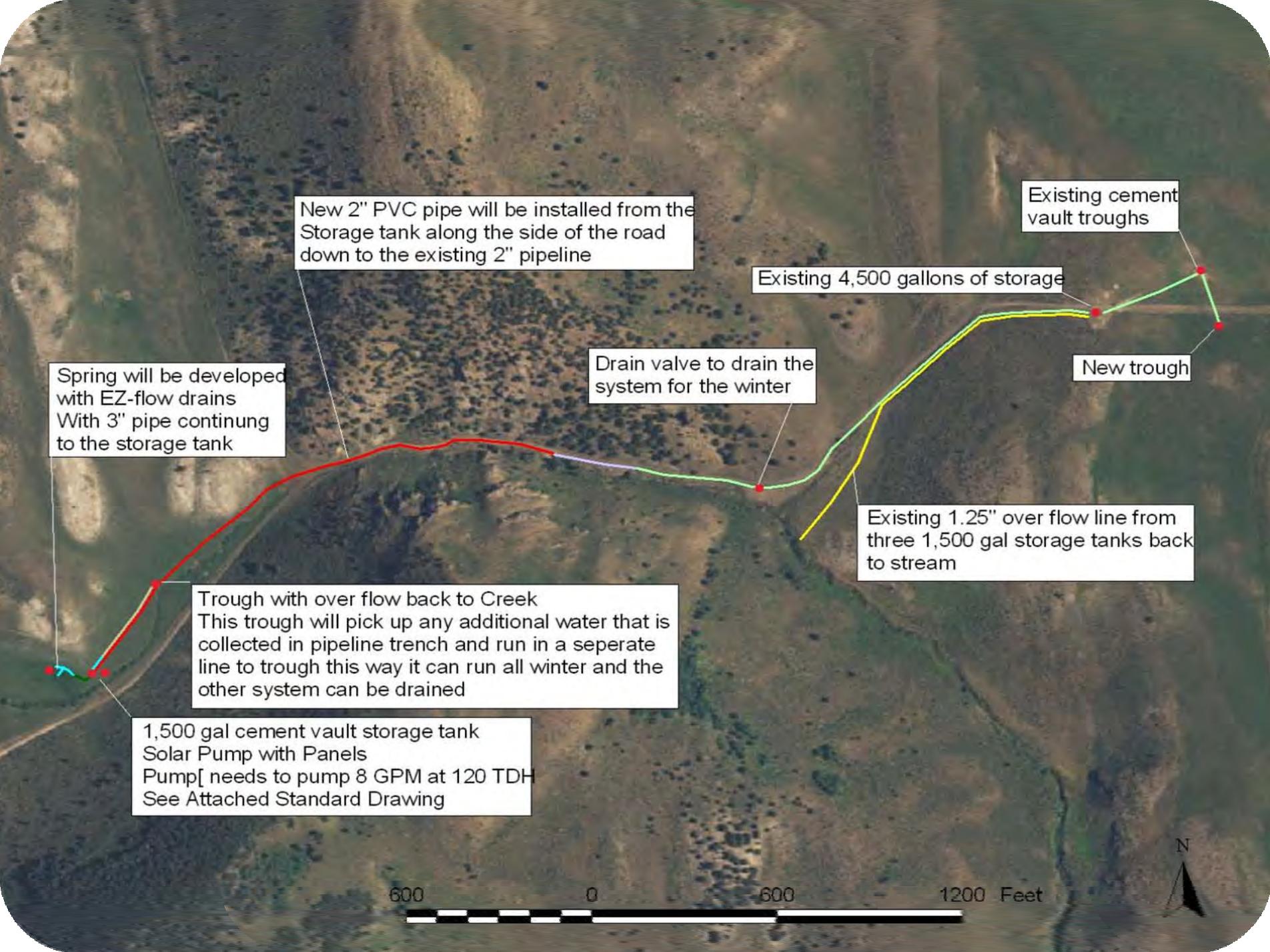




# Jenkins Hollow Project

1,600 acres / 180 head of Livestock

- 2,000 feet of Pipe
- 2 - Water Troughs
- 1 - Spring Development
- 1 - 1,500 Gallon Storage tank/ pump sump
- 1 – Solar system (800 watts of panels, mounting rack, solar Pump)



New 2" PVC pipe will be installed from the Storage tank along the side of the road down to the existing 2" pipeline

Existing cement vault troughs

Existing 4,500 gallons of storage

Drain valve to drain the system for the winter

New trough

Spring will be developed with EZ-flow drains With 3" pipe continuing to the storage tank

Existing 1.25" over flow line from three 1,500 gal storage tanks back to stream

Trough with over flow back to Creek  
This trough will pick up any additional water that is collected in pipeline trench and run in a separate line to trough this way it can run all winter and the other system can be drained

1,500 gal cement vault storage tank  
Solar Pump with Panels  
Pump[ needs to pump 8 GPM at 120 TDH  
See Attached Standard Drawing



















# Main Canyon Cattle Allotment

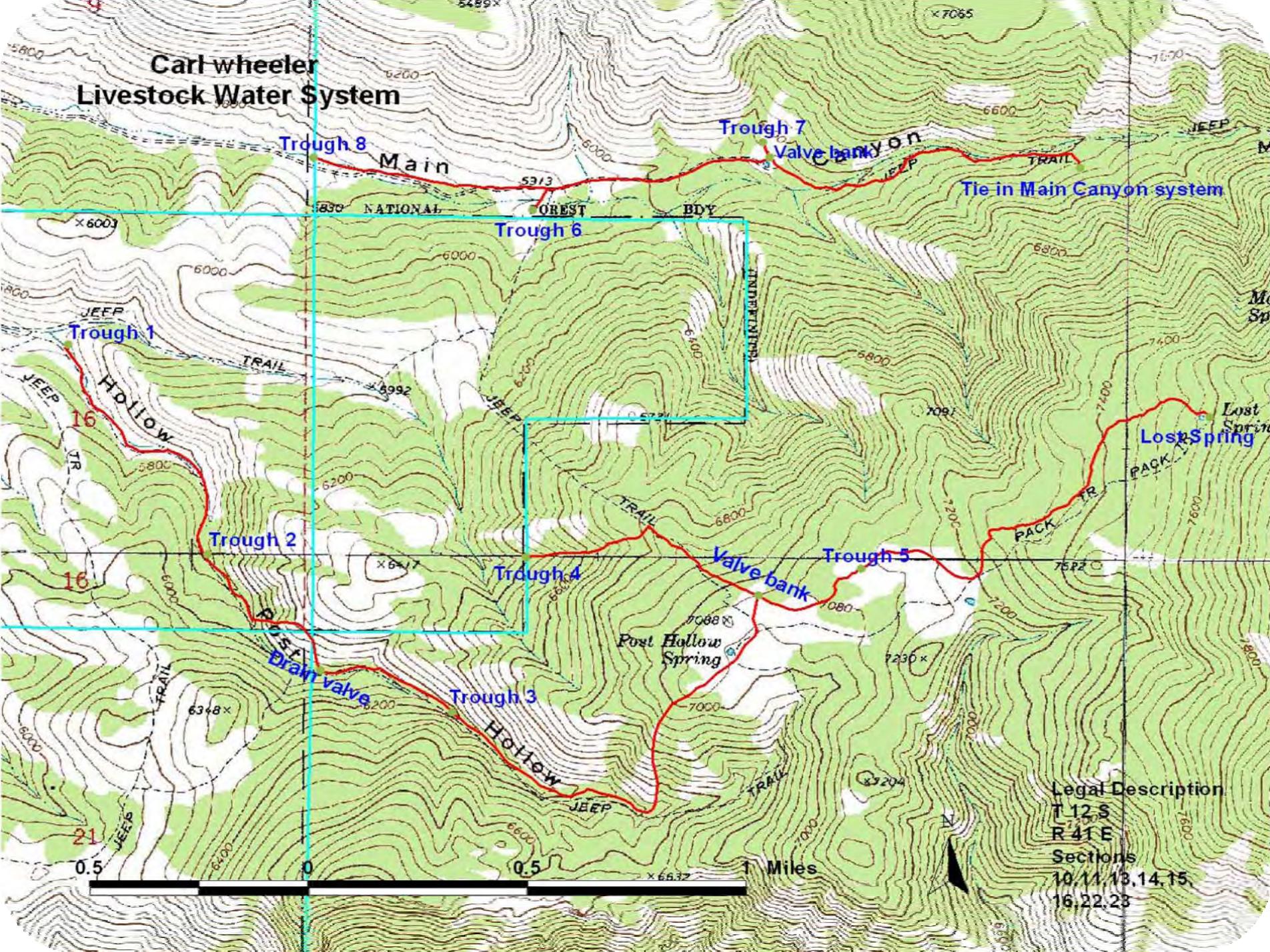
6,255 acres / 129 head of livestock

- 37,200' (7 miles) of 1.25 HDPE pipe
- 1 - Spring Development

## Donated Items

- 8 – Water Troughs

# Carl Wheeler Livestock Water System



Trough 8

Trough 7

Main Canyon

Valve bank

Tie in Main Canyon system

Trough 6

Trough 1

Trough 2

Trough 4

Valve bank

Trough 5

Lost Spring

Trough 3

Post Hollow Spring

Legal Description

T 12 S

R 41 E

Sections

10, 11, 13, 14, 15,

16, 22, 23

0.5 0 0.5 1 Miles

# Carl Wheeler Livestock Water System

Trough 8

Trough 7

Valve bank

Tie in Main Canyon system

Trough 6

Trough 1

Lost Spring

Trough 2

Trough 4

Valve bank

Trough 5

Drain valve

Trough 3

0.5 0 0.5 1 Miles



Legal Description  
T 12 S  
R 41 E  
Sections  
10, 11, 13, 14, 15,  
16, 22, 23















# Densmore Creek Project

100 acres / 10 acres Riparian / 150 head of livestock

- 2 Spring Developments
- 2 Water Troughs
- 2,477' of pipe











# Bear River AFO Project

## Project Partners

- 5 Landowners and a Grazing Association
- Trout Unlimited
- ISDA
- Environmental Coordination Committee (ECC)
- Franklin Soil and Water Conservation District
- ISCC

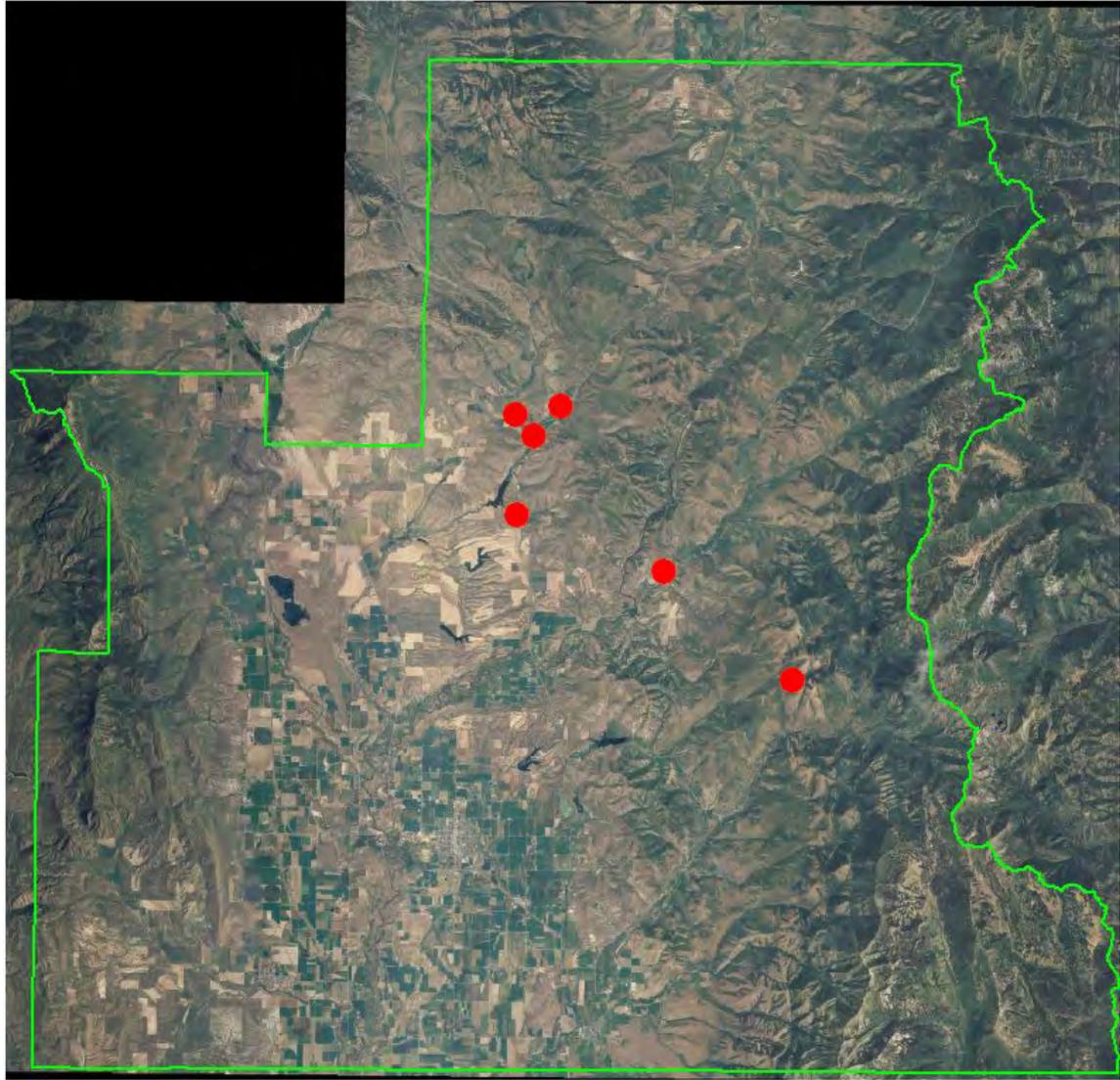
# Project Costs

319 Grant: \$121,302

Local Match: \$51,922

ECC Match: \$46,000

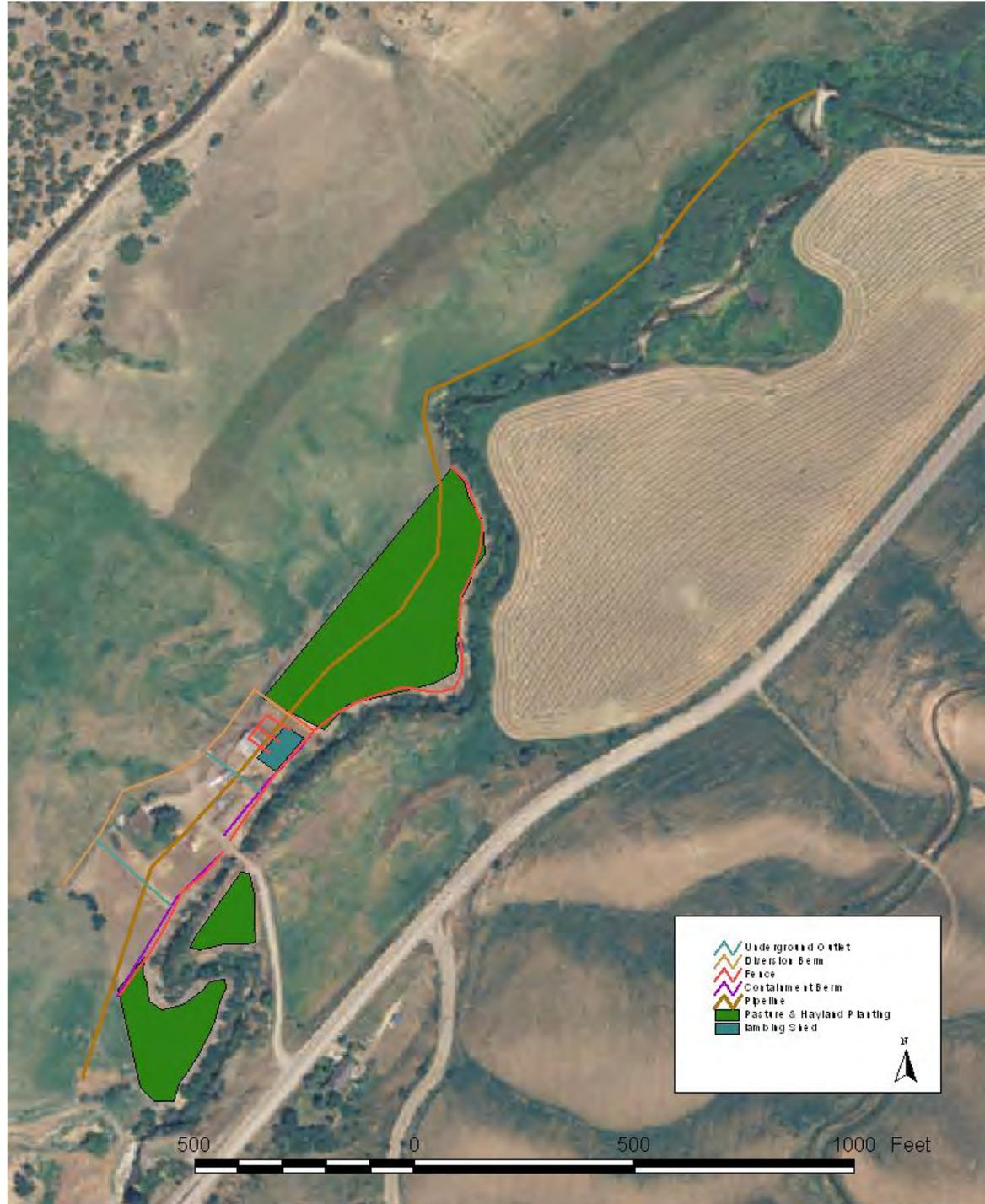
Total Project: \$219,224





## Proposed BMPs

Corral Berm	cuyd	870
Diversion Berm	cuyd	801
Corral fence	ft	500
Exclusion Fence	ft	1,299
Watering Facility	ea	3
Pipeline	ft	3,000
Lambing facility	ea	1
Underground Outlet	ft	390
Heavy Use Area Protection	sqft	1,200
Pasture & Hayland Planting	ac	4.3



## Proposed BMPs

Corral Berm upper pen	cuyd	160
Corral Berm lower pen	cuyd	275
Corral Fence	ft	115
Water Facility	ea	3
Pipe Line	ft	1,020
Spring Development	ea	1
Heavy Use Area Protection	sqft	1,200



## Proposed BMPs

Pasture & Hayland Planting	ac	1.5
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Pasture & Hayland Planting



500

0

500 Feet

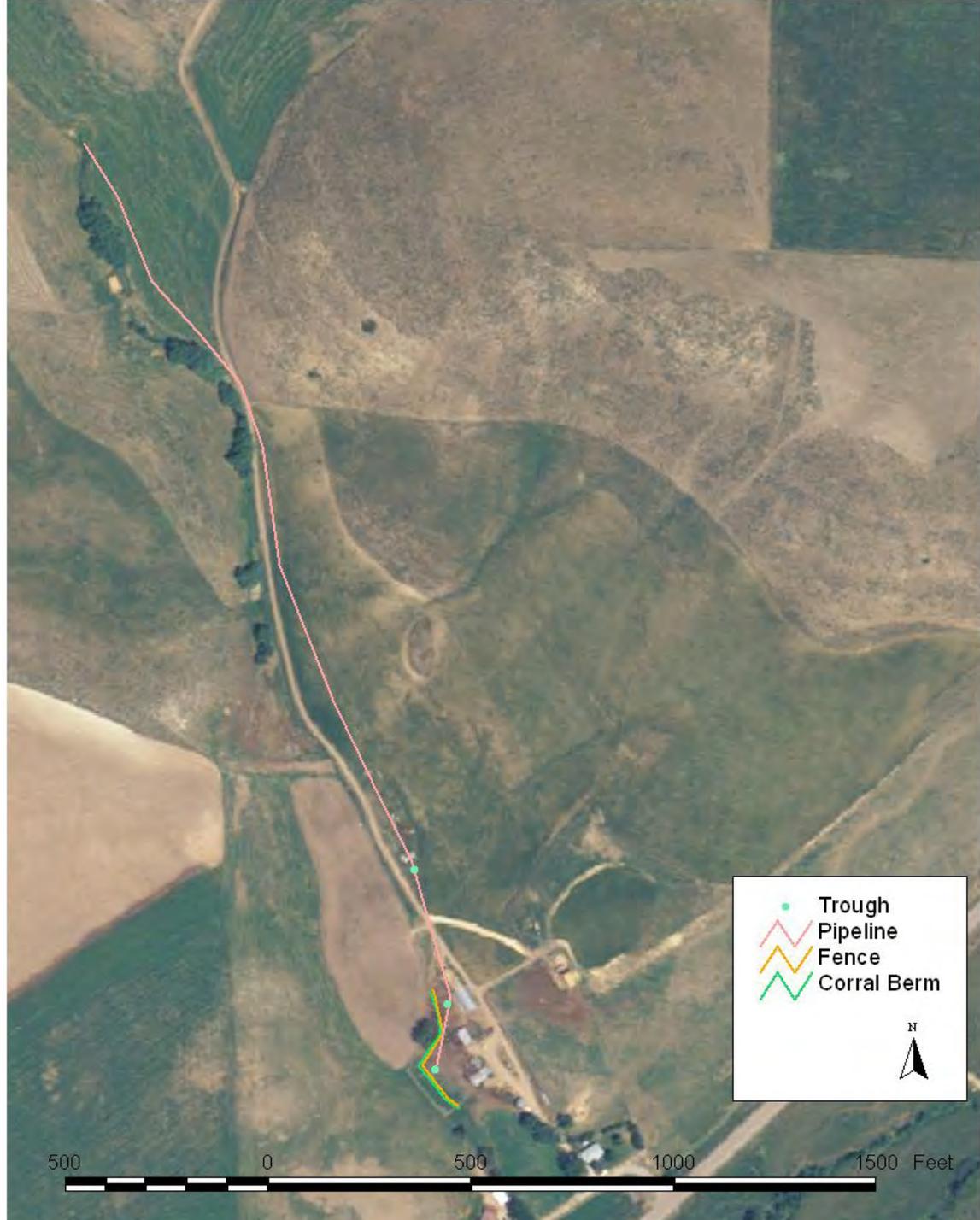
## Proposed BMPs

Corral Berm	cuyd	160
Corral Fence	ft	100
Fence	ft	850
Watering Facility	ea	1
Pipeline	ft	600
Heavy Use Area Protection	sqft	400
Structure for Water control	cuyd	1.5
Irrigation conveyance high pressure 4"/riser	ft	550
Pumping plant	ea	1
K-line	ft	350
Pasture & Hayland Planting	ac	5



## Proposed BMPs

Corral Berm	cuyd	360
Corral Fence	ft	340
Water Facility	ea	3
Pipeline	ft	2,270
Spring Development	ea	1
Heavy Use Area Protection	cuyd	6



## Proposed BMPs

Spring development	ea	3
Pipeline	ft	5,700
Water Facility	ea	2



# New Projects

- Daniels non-point Sediment Reduction
  - Sponsor Oneida SWCD
- Bloomington & Paris Creeks Irrigation Structures
  - Sponsor Bear Lake SWCD
- Trout Creek
  - Sponsor Caribou SCD
- Mound Valley Streambank
  - Sponsor Franklin SWCD